

From: Wagner, Ashley <Ashley.Weimer@tetrattech.com>
Sent: Friday, October 26, 2018 2:41 PM
To: Pelayo, Aristeo - DNR
Cc: Jeff G Tracy (Jeff.Tracy@bsigroup.com); Noel, Mike; Tierney, Mary
Subject: RE: Gas Monitoring at Ripon
Attachments: 2018.08.21 Ripon TT Q2 2018 Status Report revised.pdf

Resty,
Attached is a revised copy of the report, fixing the error you found below.

The last gas samples were collected in June 2018. According to my files, the gas GEMS data was submitted with the groundwater data, however Mike Solomon said he didn't get them. There were some formatting and reporting errors that I am working with the lab on getting corrected so Mike can load the proper data, and it will hopefully be available early next week.

Let me know if you have any other questions. Thanks!

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From: Pelayo, Aristeo - DNR <Aristeo.Pelayo@wisconsin.gov>
Sent: Wednesday, October 24, 2018 8:48 AM
To: Wagner, Ashley <Ashley.Weimer@tetrattech.com>
Cc: Jeff G Tracy (Jeff.Tracy@bsigroup.com) <Jeff.Tracy@bsigroup.com>; Noel, Mike <Mike.Noel@tetrattech.com>; Tierney, Mary <tierney.mary@epa.gov>
Subject: Gas Monitoring at Ripon

Hi Ashley,

Do you know when gas samples were last collected at the site, and were the results submitted into GEMS?

I see 2018 results in the status report dated August 2018 (e.g., GV-6 6/6/2018 sample in Table 7 had vinyl chloride of 11 nL/L), but I do not see 2018 results in GEMS.

There seems to be a discrepancy between report and data.

since October 2007. In GV-6, a mixture of chlorinated and petroleum hydrocarbons were detected. VC has not been detected since July 2011. In LC-1, a mixture of chlorinated

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Resty M. Pelayo
Phone: (608) 267-3539
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GEMS Data Upload Notice

Site: RIPON TN RIPON CTY

Lic #: 467

For report period(s): 06/01/18

Uploaded: 11/01/18 by Mike Solomon

File received: 10/24/18

The following **item(s) of possible concern:** were noted in this data submittal:

- Result records for private wells (Pt. Type 13) were NOT included in this upload.
- There were no result records for parameter code 31 (Leachate, Depth of (from top to bottom in ft)) with values >20 ft in this upload.
- There were no result records for point type 24 (Leachate Head Well) and parameter code 31 (Leachate, Depth of, from top to bottom in ft) with values >1 ft included in this upload.
- There were no result records for parameter code 85547 (METHANE (CH₄) IN AIR SAMPLE, VOL % OF DISS GASES) with values >1.25% in this upload.

If you have questions, please contact Mike Solomon. Do not "reply" to this message. If you are not assigned to this site, please contact your program assistant, **not** Mike Solomon, to be unassigned or have your status changed on any site.

**STATUS REPORT
SECOND QUARTER 2018 SAMPLING EVENT
FF/NN LANDFILL NPL SITE
Ripon, Wisconsin**

Prepared for:

FF/NN Landfill PRP Group
c/o Quantum Management Group, Inc.
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Thiensville, WI 53092

Prepared by:



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

August 21, 2018

A handwritten signature in black ink, appearing to read 'Michael R. Noel', written over a horizontal line.

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

A handwritten signature in black ink, appearing to read 'Ashley A. Wagner', written over a horizontal line.

Ashley A. Wagner, P.G.
Senior Project Geologist

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1. SITE INFORMATION AND CONTACTS

CONTRACT SF-92-01

Contract between the Wisconsin Department of Natural Resources (WDNR) and the FF/NN Landfill Group dated August 7, 1992.

SITE NAME/ACTIVITY:

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

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

PREPARED BY:

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August 21, 2018

2. FIELD ACTIVITIES THIS REPORTING PERIOD

- Groundwater elevations were measured at 28 monitoring wells by Tetra Tech in June 2018. Water levels in Layer 4 wells were collected for comparison and were measured consecutively to minimize effects from municipal pumping.
- A total of 20 monitoring wells, three leachate wells and one private drinking well were sampled for volatile organic compounds (VOCs) by Tetra Tech during the Second Quarter 2018 event. Two duplicate samples were collected for quality control. The revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter (as amended on June 8, 2017) (Attachment F) from the Wisconsin Department of Natural Resources (WDNR) was followed for this sampling event (Attachment F). Samples were collected from the wells listed as annual in the WDNR conditional approval letter.
- McKala Kiessling, from the City of Ripon conducted biweekly landfill gas monitoring of the extraction system exhaust, as well as conducted biweekly landfill gas monitoring and annual sampling vent GV-6, probe GP-1 and wells LC-1, LC-2 and LC-3 for this annual report.

3. RESULTS OF FIELD ACTIVITIES

3.1. Groundwater Monitoring Event – Groundwater Elevations

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

For the Second Quarter 2018 sampling event, groundwater elevations were measured in 28 monitoring wells by Ashley Wagner from Tetra Tech on June 4, 2018. The Layer 1, Layer 2 and Layer 3 water levels were collected to evaluate the groundwater flow direction. Water levels in Layer 4 wells were collected to evaluate groundwater flow in Layer 4, and the elevations were measured consecutively to limit potential effects from municipal pumping. The elevations are provided in Table 1 and shown on Figures 1 through 4. Each layer is discussed separately below.

3.1.1. Layer 1 Wells – Water Table Wells in Unconsolidated Sand & Gravel

Layer 1 contains nine wells with screen elevations ranging from 812 feet to 821 feet MSL. All of these well screens intersect the water table. The groundwater elevations are displayed on Figure 1 and Chart 1. Compared to the event in Second Quarter 2017 event, the water levels have increased in eight of the nine wells. The water levels increased an average of 0.03 feet ranging from increasing by 0.49 feet in MW-108 to decreasing by 0.94 feet in MW-107.

Historically, the groundwater flow direction in this layer has been to the southwest. The Second Quarter 2018 groundwater flow direction is consistent with the historical results toward the southwest.

3.1.2. Layer 2 Wells – Piezometers in Unconsolidated Sand & Silt

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 Second Quarter 2017 event, the water levels have increased in all eight wells. The water levels increased an average of 0.01 feet and ranging from 0.22 feet in P-111 and P-107 to 0.50 feet in P-108.

Historically, the groundwater flow direction in this layer has been to the south-southwest. The Second Quarter 2018 groundwater flow direction is consistent with the historical results toward the south-southwest.

3.1.3. Layer 3 Wells – Piezometers in Sandstone Bedrock

Layer 3 contains nine wells with screen elevations ranging from 634 feet to 704 feet MSL. Monitoring wells P-117 and P-118 are grouped within this layer. The groundwater potentiometric surface for this layer is displayed on Figure 3 and Chart 3. Compared to the Second Quarter 2017 event, the water levels that were measured have increased in all

of the wells that have historical data. The water levels increased an average of 0.69 feet ranging from 0.25 feet in P-116 and P-117 to 1.36 feet in MW-3B.

Historically, the groundwater flow direction in this layer has been to the southwest and becomes west-southwest further downgradient. The Second Quarter 2018 groundwater flow direction is consistent with the historical results. Monitoring well P-118 is the furthest downgradient Layer 3 monitoring well.

3.1.4. Layer 4 Wells – Piezometers in Sandstone or Granitic Bedrock

Layer 4 contains three wells with screen elevations ranging from 508 feet to 570 feet MSL. The three wells in this grouping are located 375 to 2300 feet downgradient of the landfill. The groundwater potentiometric surface for this layer is displayed on Figure 4 and Chart 4. Compared to the Second Quarter 2017 event, the water levels increased in all of the wells; P-107D by 1.86 feet, P-113A by 1.90 feet, and MW-3A by 2.82 feet.

When pumping at the City of Ripon Municipal Well # 9 was terminated in May 2007, the flow direction in Layer 4 shifted from the southeast to the west. The City brought Well # 9 back on line in April 2010. The Second Quarter 2018 groundwater flow direction is to the west indicating that Well #9 was not likely pumping at the time of measurements. The City of Ripon confirmed that the pump in Well #9 was being serviced and not pumping on June 4, 2018.

3.2. Groundwater Monitoring Event - Monitoring Well Sampling

The revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter (as amended on June 8, 2017) from WDNR was followed for this sampling event. Samples designated as annual in the April 18, 2013 approval letter, as amended, were collected during the Second Quarter sampling event.

The groundwater samples were analyzed by CT Laboratories for low-level VOCs using Environmental Protection Agency (EPA) Method 8260C to achieve lower detection limits as requested by the WDNR. It should be noted that because of the change in the analytical method to attain lower detection limits, some additional compounds have been detected compared to past results; however, none of these additional compounds were detected at levels exceeding groundwater quality standards. Analytical results and field forms for the Second Quarter 2018 event are provided in Attachments B and C, respectively. The VOC analytical results for the monitoring wells are tabulated in Table 2. The temporal trends of chlorinated VOC concentrations in wells sampled during this event are provided in attached charts

Natural attenuation parameters were measured on water removed from selected wells as identified in the April 18, 2013 conditional approval letter, as amended, from WDNR during the Second Quarter 2018 sampling event. Dissolved oxygen (DO), oxygen-reduction potential (ORP), temperature, pH and conductivity were measured using a QED MP20 MicroPurge Flow Cell Meter. Iron II was measured in the field using Parachem Reagents (Ferrous Iron Reagent pillow powders, Method 8008) for colorimetry analysis

using a Hach DR900 multi-parameter colorimeter. Historic and current natural attenuation parameters are presented in Table 3.

The contaminants of concern (COCs) at the Site are trichloroethylene (TCE) and its dechlorination byproducts, cis-1,2-dichloroethene (1,2-DCE) and vinyl chloride (VC). VC is the only compound detected at concentrations that exceed the Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES). The ES for VC is 0.2 micrograms per liter (ug/L). The following sections present a summary of the Second Quarter 2018 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 as presented in Attachment A.

3.2.1. Layer 1 Wells – Water Table Wells in Unconsolidated Sand & Gravel

- MW-103 (Chart 38):
 - TCE was detected at a concentration of 1.3 ug/L, which is below its ES of 5.0 ug/L.
 - 1,2-DCE was detected at an estimated (“J” indicates compound detected above the laboratory method detection limit, but below the method reporting limit; therefore, the concentration is estimated) concentration of 0.21 J ug/L, which is below its ES of 70 ug/L.
 - The COC concentration trends have been decreasing since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Trans-1,2-DCE was detected at an estimated concentration of 0.052 J ug/L, which is below its ES of 20 ug/L.
 - Chloromethane was detected at an estimated concentration of 0.048 J, which is below its ES of 3.0 ug/L; chloromethane was also detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.
 - Tetrachloroethene (PCE) was detected at a concentration of 0.27 ug/L, which is below its ES of 5.0 ug/L.

- MW-104 (Chart 39):
 - 1,2-DCE was detected at an estimated concentration of 0.12 J ug/L, which is below its ES.
 - VC was detected at an estimated concentration of 0.041 J ug/L.
 - The COC concentration trends have been decreasing since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Benzene was detected at a concentration of 0.099 ug/L, which is below its ES of 5.0 ug/L.
 - Chlorobenzene was detected at a concentration of 3.6 ug/L. No standard is established for chlorobenzene.

- Chloroethane was detected at a concentration of 0.5 ug/L, which is below its ES of 400 ug/L.
 - Chloromethane was detected at an estimated concentration of 0.051 J ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.
 - 1,4-dichlorobenzene was also detected at a concentration of 1.6 ug/L, which is below its ES of 75 ug/L.
 - Dichlorodifluoromethane was detected at an estimated concentration of 0.15 J, which is below its ES of 1,000 ug/L.
 - Isopropylbenzene was detected at a concentration of 0.14 ug/L; there is no standard established for isopropylbenzene.
 - Methyl tert-butyl ether (MTBE) was detected at an estimated concentration of 0.055 J ug/L, which is below its ES of 60 ug/L.
- MW-107 (Chart 41):
 - No detection of any VOC analyzed.
 - MW-112 (Chart 44):
 - 1,2-DCE was detected at an estimated concentration of 0.081 J ug/L, which is below its ES.
 - TCE was detected at a concentration of 0.43 ug/L, which is below its ES.
 - COC concentration trends have been decreasing since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Chlorobenzene was detected at an estimated concentration of 0.12 J ug/L; there is no standard established for chlorobenzene.
 - Chloromethane was detected at an estimated concentration of 0.042 J ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.
 - PCE was detected at an estimated concentration of 0.084 J ug/L, which is below its ES of 5.0 ug/L.

3.2.2. Layer 2 Wells – Piezometers in Unconsolidated Sand & Silt

- P-103 (Chart 47):
 - No detection of any VOC analyzed.
- P-106 (Chart 49):
 - TCE was detected at an estimated concentration of 0.15 J ug/L, which is below its ES.
 - Because of the lower detection limit, this is the first time a COC has been detected since before startup of the active gas control system in 2006.

- P-107 (Chart 50):
 - VC was detected at a concentration of 1.1 ug/L, which exceeds its ES.
 - 1,2-DCE was detected at a concentration of 0.29 ug/L, which is below its ES.
 - The VC concentration trend has remained stable.
 - Other non-COCs detected include the following:
 - Benzene was detected at an estimated concentration of 0.024 J ug/L, which is below its ES of 5.0 ug/L.

3.2.3. Layer 3 Wells – Piezometers in Sandstone Bedrock

- P-103D (Chart 53):
 - 1,2-DCE was detected at a concentration of 0.27 ug/L, which is below its ES.
 - The 1,2-DCE concentration trend has been decreasing since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Benzene was detected at an estimated concentration of 0.025 J ug/L, which is below its ES.
 - Chloromethane was detected at an estimated concentration of 0.041 J ug/L; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.

- P-111D (Chart 54):
 - VC was detected at a concentration of 3.9 ug/L (3.7 ug/L in duplicate sample), which exceeds its ES.
 - 1,2-DCE was detected at a concentration of 3.0 ug/L (3.0 ug/L in duplicate sample), which is below its ES of 70 ug/L.
 - The VC concentration trend has been decreasing, while 1,2-DCE concentration trend has been increasing, since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Chloroethane was detected at a concentration of 1.4 J ug/L (1.4 ug/L in duplicate sample), which is below its ES of 400 ug/L.
 - Dichlorodifluoromethane was detected at an estimated concentration of 0.066 J ug/L (0.065 J ug/L in duplicate sample), which is below its ES.

- MW-3B (Chart 55):
 - No detection of any COC.
 - No COCs have been detected since the startup of the active gas control system in 2006, except for VC, which was detected at concentrations greater than its ES in 2008 and 2018.
 - Other non-COCs detected include the following:

- Carbon disulfide was detected at an estimated concentration of 0.087 J ug/L, which is below its ES of 1,000 ug/L.

- P-113B (Chart 56):
 - No detection of any COC.
 - No COCs have ever been detected in this well (installed in 2002).
 - Other non-COCs detected include the following:
 - Carbon disulfide was detected at an estimated concentration of 0.17 J ug/L, which is below its ES.
 - Chloromethane was detected at an estimated concentration of 0.065 J ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.

- P-114 (Chart 57):
 - VC was detected at a concentration of 5.8 ug/L (6.5 ug/L in duplicate sample), which exceeds its ES.
 - 1,2-DCE was detected at a concentration of 1.6 ug/L (1.7 ug/L in duplicate sample), which is below its ES.
 - The VC concentration trend has decreased since the startup of the active gas control system in 2006 and has been relatively stable since 2011. The 1,2-DCE concentration trend has been stable since the startup of the active gas control system in 2006.
 - Other non-COCs detected include the following:
 - Carbon disulfide was detected at an estimated concentration of 0.086 J ug/L (not detected in duplicate sample), which is below its ES.
 - Dichlorodifluoromethane was detected at an estimated concentration of 0.061 J ug/L (not detected in duplicate sample), which is below its ES.
 - Chloroethane was detected at a concentration of 0.27 ug/L in the duplicate sample (not detected in original sample), which is below its ES.

- P-115 (Chart 58):
 - VC was detected at a concentration of 0.98 ug/L, which exceeds its ES.
 - 1,2-DCE was detected at an estimated concentration of 0.13 J ug/L, which is below its ES.
 - The VC concentration trend has been increasing since the startup of the active gas control in 2006 but has been relatively stable since 2010. Because of the lower detection limit, this is the first time 1,2-DCE has been detected in this well since it was installed in 2001.

- P-116 (Chart 59):
 - No detection of any COC.
 - No COCs have ever been detected in this well (installed in 2001).
 - Other non-COCs detected include the following:
 - Carbon disulfide was detected at a concentration of 0.3 ug/L, which is below its ES.

- P-117 (Chart 60):
 - VC was detected at a concentration of 1.4 ug/L, which exceeds its ES.
 - 1,2-DCE was detected at a concentration of 0.83 ug/L, which is below its ES.
 - TCE was detected at an estimated concentration of 0.057 J, which is below its ES.
 - This well was installed in November 2016, and the Second Quarter 2018 results are similar to the previous quarterly results.
 - Other non-COCs detected include the following:
 - Benzene was detected at an estimated concentration of 0.019 J ug/L, which is below its ES.
 - Chloroethane was detected at a concentration of 0.55 ug/L, which is below its ES.
 - Chloromethane was detected at an estimated concentration of 0.044 J ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.

- P-118 (Chart 61):
 - No detection of any COC.
 - No COCs have ever been detected in this well. This is the third time this well has been sampled since it was installed in August 2017.
 - Other non-COCs detected include the following:
 - Carbon disulfide was detected at an estimated concentration of 0.15 J ug/L, which is below its ES.
 - Chloromethane was detected at an estimated concentration of 0.061 ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.
 -

3.2.4. Layer 4 Wells – Piezometers in Sandstone or Granitic Bedrock

- MW-3A (Chart 62):
 - No detection of any COC.
 - No COCs have ever been detected in this well (installed in 2002).
 - Other non-COCs detected include the following:

- - Carbon disulfide was detected at an estimated concentration of 0.076 J ug/L, which is below its ES.
-
- P-107D (Chart 63):
 - VC was detected at a concentration of 2.2 ug/L, which exceeds its ES.
 - 1,2-DCE was detected at a concentration of 0.78 ug/L, which is below its ES.
 - The VC concentration trend has been decreasing, while 1,2-DCE has remained relatively stable since the startup of the active gas control in 2006.
 - Other non-COCs detected include the following:
 - Chloroethane was detected at a concentration of 0.86 ug/L, which is below its ES.
- P-113A (Chart 64):
 - No detection of any COC.
 - No COCs have ever been detected in this well (installed in 2002).
 - Other non-COCs detected include the following:
 - Chloromethane was detected at an estimated concentration of 0.098 J ug/L, which is below its ES; chloromethane was detected in the associated method blank, indicating the compound is associated with laboratory procedures rather than the groundwater sample.

3.2.5. Natural Attenuation Parameters

Both TCE and 1,2-DCE have reductively dechlorinated under anaerobic conditions to the byproduct VC. Because VC is the sole remaining contaminant of concern exceeding the ES and because VC reduction is most commonly an aerobic process via direct oxidation, monitored natural attenuation (MNA) parameters were measured to evaluate whether oxidative conditions exist in the groundwater. Based on EPA guidance (Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater 1998), iron II was measured as indirect evidence of natural attenuation in aerobic environments. The results of the MNA sampling are shown on Table 3 and continue to indicate that the aquifer is marginally aerobic. Where present, VC concentrations show either stable or declining trends confirming that natural attenuation is occurring.

3.3. Groundwater Monitoring Event - Private Drinking Water Well Sampling

Historically, samples have been collected from eight private drinking water wells. The Miller and Altnau private wells were abandoned in November 2002. The Ehster, Wiese, and Hadel private wells were converted into monitoring wells P-114, P-115, and P-116, respectively, and continue to be sampled as monitoring wells (Section 3.1.3). The Gaastra and Perry wells were disconnected from each home's internal water piping and now just supply the outside faucets.

The Rohde private drinking water well was sampled on June 4, 2018 and was analyzed for VOCs using EPA Method 524.2 (Safe Drinking Water Act). The sample was collected from an outside water pump after 100 gallons of water was purged from the well. There was no detection of any VOC analyzed. Analytical results and field forms are provided in Attachments B and C, respectively. The VOC analytical results for the private drinking water wells are tabulated in Table 4.

3.4. Landfill Cap Inspection

Since the last quarterly report, there are no indications of trespassing. A ‘No Trespassing’ sign has been placed at the access point towards the northeast corner of the landfill where the fencing ends. A full landfill cap inspection took place during the 2018 annual sampling event; based on the inspection, the landfill cap appeared to be in good condition. The inspection form is included in Attachment E.

3.5. Interim LF Gas Extraction System Performance Monitoring

Results of the gas monitoring are presented in Table 6.

Current gas 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%. The following list describes changes made to the system during this monitoring period based on the oxygen levels observed in the extracted landfill gas:

- 4/28/2018 – Increase runtime from 12 hours on to 16 hours on.
- 4/25/2018 – No changes made to blower runtime.
- 5/8/2018 – No changes made to blower runtime.
- 5/21/2018 – Decrease runtime from 16 hours on to 12 hours on.
- 6/5/2018 – Decrease runtime from 12 hours on to 11 hours on.
- 6/20/2018 – No changes made to blower runtime.
- 6/28/2018 – No changes made to blower runtime.

The gas samples were analyzed by ALS Environmental for VOC analysis using EPA Method TO-15. Samples were collected on June 6, 2018. The results are summarized on Table 7 and the lab report is included in Attachment B. The historical data shows that VOCs have been significantly reduced since startup of the landfill gas extraction system in 2006. In GP-3, there were no detections of any VOCs analyzed. VC has not been detected since October 2007. In GV-6, a mixture of chlorinated and petroleum hydrocarbons were detected. VC was detected for the first time since July 2011. In LC-1, a mixture of chlorinated hydrocarbons was detected. VC has not been detected since January 2005. In LC-2, a mixture of chlorinated and petroleum hydrocarbons were detected. VC was detected for the first time since January 2008. In LC-3, a reduced number of chlorinated hydrocarbon compounds were detected. VC was detected this event, and historically has been detected periodically.

Monitoring of the atmosphere in the gas probes and wells outside the limits of fill indicate that the gas extraction system has controlled gas migration from the fill area since its startup

in March 2006. Methane in the gas concentrations in all wells and gas probes beyond the landfill limits have been consistently below the methane lower explosive limit (LEL; 5.0%).

4. UPCOMING ACTIVITIES PLANNED

- Quarterly groundwater sampling and water level measurements will be conducted during the Third Quarter 2018 in accordance with the monitoring program outlined in the April 18, 2013 conditional approval letter, conditional approval letter (as amended on June 8, 2017) from WDNR. Samples will be collected from wells designated as quarterly.
- McKala Kiessling, from the City of Ripon will conduct biweekly landfill gas monitoring of the extraction system vents and wells.

5. PERSONNEL

Mr. Michael Noel is the Project Manager and Principal Hydrogeologist. Ms. Ashley Wagner is the Senior Project Geologist who oversaw the field activities. The laboratory analyses for the Second Quarter 2018 groundwater samples were completed by CT Laboratories in Baraboo, Wisconsin. The VOC gas samples were completed by ALS Environmental out of Simi Valley, California.

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	Oct-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	822.66
MW-102	843.05	826.83	825.35	824.29	823.57	824.67	823.26			823.52	823.17	823.19
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	822.60
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	822.64
MW-106	878.90	826.67	824.21	824.24	820.96	824.61	823.23		822.42	823.45	823.10	822.96
P-106	878.91	826.63	824.09	824.07	823.42	824.51	823.16	820.40	822.33	823.38	823.02	822.89
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	818.62
P-107D	871.98			819.13	817.47	819.52	818.29	816.77	817.56	817.78	817.34	818.10
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	820.45
MW-111	856.46			817.58	817.93	818.10	817.29	816.29	817.33	818.30	817.28	817.32
P-111	856.13			817.09	817.43	817.60	816.78	815.75	816.85	817.83	816.79	816.83
P-111D	855.79	(Installed April 2002)										
MW-112	874.55				819.46	819.92	819.02		819.15	820.02	819.20	819.21
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)										
P-117	834.02	(Installed November 2016)										
P-118	826.93	(Installed August 2017)										
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	839.28
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
TOC Elevation = Top of Casing Elevation

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

Well Name	TOC Elevation	May-01	Oct-01	Feb-02	May-02	Aug-02	Oct-02	Dec-02	Apr-03	Oct-03	Feb-04	Apr-04
MW-101	884.80	823.13	824.17	823.18	DRY	DRY	NT	DRY	DRY	821.24	NM	822.87
P-101	885.26	823.06	824.16	823.19	800.47	814.42	NT	818.91	820.46	821.16	NM	822.86
MW-102	843.05		824.38	823.53	818.93	DRY	NT	DRY	820.95	821.57	NM	823.34
P-102	842.99	823.39	824.49	823.69	799.84	814.94	NT	819.47	821.08	821.66	NM	823.42
MW-103	872.42		821.63	>51.32	819.28	819.34	NT	DRY	DRY	819.61	NM	821.06
P-103	872.92	823.02	823.87	823.00	801.70	814.74	NT	819.01	820.52	821.12	NM	822.77
P-103D	873.08										820.64	821.89
MW-104	875.15		823.88	>51.28	DRY	DRY	NT	DRY	820.37	820.85	NM	822.75
P-104	875.48	823.10	824.03	823.12	802.51	814.82	NT	819.05	820.50	821.43	NM	822.82
MW-106	878.90	823.34	Dry	823.50	DRY	DRY	NT	DRY	DRY	821.58	NM	823.25
P-106	878.91	823.26	824.25	823.39	800.31	814.52	NT	819.18	820.80	821.49	NM	823.17
MW-107	871.78	819.36	820.12	>52.5	816.72	DRY	DRY	DRY	817.73	818.35	NM	819.63
P-107	871.38	819.35	820.12	818.86	809.86	813.29	NT	816.65	817.74	818.39	NM	819.71
P-107D	871.98	819.04	816.61	817.70	811.80	815.35	816.43	816.68	817.26	816.72	NM	818.68
MW-108	845.25	818.32	818.62	>27.7	815.44	815.45	NT	815.79	816.20	816.68	NM	817.86
P-108	845.61	820.97	822.08	820.66	811.84	815.19	NT	817.83	818.57	819.26	NM	820.52
MW-111	856.46	818.15	818.74	817.51	813.43	813.59	NT	815.42	816.14	816.71	NM	818.03
P-111	856.13	817.68	818.26	817.04	812.54	812.90	NT	814.90	815.68	816.27	NM	817.59
P-111D	855.79				807.70	815.16	816.73	816.22	818.17	817.95	NM	819.55
MW-112	874.55	819.87	820.52	822.87	814.38	814.47	NT	816.75	817.87	818.54	NM	819.89
P-113A	833.09						816.09	816.39	816.93	816.20	NM	817.91
P-113B	833.10						816.68	816.93	817.25	816.58	816.61	818.30
P-114	839.35								817.17	816.93	NM	818.55
P-115	842.71										NM	818.61
P-116	845.34										NM	817.54
P-117	834.02											
P-118	826.93											
MW-3A	850.77			817.24	810.74	815.18	816.11	815.99	816.63	815.67	NM	818.03
MW-3B	851.04			819.32	807.37	815.34	817.07	817.54	818.31	817.92	NM	819.79
LC1	876.15	846.30	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM	NM	846.45
LC2	866.05	839.03	838.92	838.97	838.83	838.98	NT	838.75	839.17	NM	NM	839.27
LC3	877.34	845.80	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM	NM	DRY

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
TOC Elevation = Top of Casing Elevation

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

Well Name	TOC Elevation	Jul-04	Oct-04	Jan-05	Apr-05	Jul-05	Oct-05	Jan-06	Mar-06	Apr-06	Jul-06	Oct-06
MW-101	884.80	825.76	823.36	822.85	823.27	821.11	DRY	820.81	NM	821.41	821.29	820.71
P-101	885.26	825.76	823.35	822.84	823.26	821.07	820.23	820.75	NM	821.37	821.22	820.69
MW-102	843.05	826.08	823.71	823.34	823.66	821.70	820.65	821.33	NM	821.91	821.75	821.15
P-102	842.99	826.17	823.79	823.38	823.75	821.48	820.72	821.41	NM	822.06	821.80	821.25
MW-103	872.42	824.54	822.24	820.52	821.60	819.70	819.25	819.24	NM	819.36	819.82	818.82
P-103	872.92	825.58	823.23	822.78	823.14	821.09	820.26	820.92	NM	821.42	821.33	820.70
P-103D	873.08	824.39	822.21	821.89	822.08	820.26	819.23	820.24	NM	820.54	820.43	819.88
MW-104	875.15	825.49	823.27	822.75	823.16	821.09	820.34	820.65	NM	821.35	821.16	820.61
P-104	875.48	825.61	823.36	822.82	823.21	821.20	820.40	820.79	NM	821.45	821.33	820.76
MW-106	878.90	826.07	823.60	823.20	823.61	821.42	DRY	821.24	NM	821.85	821.77	821.10
P-106	878.91	825.99	823.50	823.10	823.54	821.31	820.50	821.16	NM	821.72	821.67	820.99
MW-107	871.78	823.41	821.20	819.89	820.18	818.69	817.85	817.81	NM	818.03	DRY	817.90
P-107	871.38	823.34	821.20	820.91	820.20	818.72	817.84	817.80	NM	818.19	818.59	817.89
P-107D	871.98	819.78	817.72	817.65	818.77	815.90	814.85	816.33	816.45	816.89	816.83	816.24
MW-108	845.25	820.27	819.00	818.17	818.41	816.95	816.27	816.31	NM	816.70	816.88	816.39
P-108	845.61	823.39	821.94	820.84	821.05	819.76	819.13	819.04	NM	819.40	819.65	819.41
MW-111	856.46	821.40	819.60	817.39	818.69	817.32	816.51	816.31	NM	816.74	817.14	816.58
P-111	856.13	821.01	819.16	816.92	818.19	816.82	816.03	815.84	NM	816.24	816.74	816.09
P-111D	855.79	821.82	819.77	819.55	819.55	818.11	817.37	818.40	NM	818.62	818.54	818.26
MW-112	874.55	823.17	821.14	820.15	820.50	818.82	818.14	818.31	NM	818.66	818.88	818.20
P-113A	833.09	818.17	817.32	817.28	818.35	815.50	814.36	816.40	816.04	816.39	816.54	815.81
P-113B	833.10	820.16	818.25	818.13	818.36	816.74	815.47	816.90	NM	817.01	817.57	816.81
P-114	839.35	820.44	818.71	818.50	818.76	817.02	816.34	817.28	NM	817.38	817.36	816.86
P-115	842.71	820.51	818.71	818.55	818.62	817.05	816.05	817.44	NM	817.56	817.50	817.12
P-116	845.34	819.31	817.80	817.47	817.74	816.45	815.48	816.02	NM	816.48	816.34	816.00
P-117	834.02											
P-118	826.93											
MW-3A	850.77	819.73	817.00	817.15	816.84	816.05	814.87	817.98	815.81	816.29	817.51	816.34
MW-3B	851.04	822.01	819.66	819.60	819.45	818.44	817.28	819.15	NM	818.86	819.18	818.27
LC1	876.15	NM	DRY	DRY	846.39	DRY	NM	NM	NM	843.40	847.60	847.66
LC2	866.05	NM	838.89	DRY	839.05	838.89	838.91	839.01	NM	839.47	839.52	838.45
LC3	877.34	NM	DRY	DRY	DRY	DRY	NM	NM	NM	845.89	845.87	844.68

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
TOC Elevation = Top of Casing Elevation

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

Well Name	TOC Elevation	Jan-07	May-07	Aug-07	Oct-07	Jan-08	May-08	Jul-08	Sep-08	Oct-08	Jan-09	Apr-09
MW-101	884.80	821.43	822.37	822.22	822.74	822.47	824.5	825.1	822.61	822.63	822.93	824.08
P-101	885.26	821.34	822.32	822.18	822.68	822.43	824.49	825.07	822.56	822.59	822.91	824.05
MW-102	843.05	821.73	822.85	822.55	822.95	822.95	824.9	825.36	822.77	822.83	823.4	824.49
P-102	842.99	821.82	822.90	822.63	823.01	823.03	824.95	825.34	822.74	822.81	823.5	824.57
MW-103	872.42	819.47	820.39	820.45	820.78	820.46	822.13	823.95	822.05	821.92	821.19	821.99
P-103	872.92	821.39	822.31	822.17	822.63	822.86	824.39	825.02	822.57	822.66	822.97	824.06
P-103D	873.08	820.52	821.56	821.495	822.015	821.935	823.885	824.425	822.145	822.265	822.475	823.545
MW-104	875.15	821.11	822.17	822.06	822.56	822.25	824.26	824.9	822.54	822.55	822.82	823.92
P-104	875.48	821.29	822.29	822.27	822.75	822.44	824.45	825.12	822.78	822.74	822.98	824.06
MW-106	878.90	821.78	822.78	822.51	822.76	822.84	824.77	824.98	822.7	822.75	823.31	824.41
P-106	878.91	821.62	822.71	822.44	822.7	822.75	824.7	825.25	822.63	822.64	823.25	824.37
MW-107	871.78	818.29	818.87	818.97	819.12	818.88	820.34	823.81	821.16	821.04	819.71	820.34
P-107	871.38	818.23	818.88	819.01	819.08	818.91	820.27	823.72	821.1	821.09	819.4	820.34
P-107D	871.98	817.05	818.27	818.79	819.93	820.32	822.9	823.25	820.9	820.87	820.81	822.24
MW-108	845.25	816.64	817.39	817.96	817.99	817.5	819.15	820.42	819.28	819.23	818.16	818.87
P-108	845.61	819.40	820.14	821.45	821.33	820.44	822.15	823.57	822.14	822.05	820.87	821.67
MW-111	856.46	816.72	817.40	817.44	817.51	NT	818.85	821.08	819.77	819.75	818.21	818.88
P-111	856.13	816.23	816.92	816.95	817.01	816.85	818.4	820.72	819.35	819.23	817.77	818.41
P-111D	855.79	818.48	819.84	819.44	819.92	820.14	822.09	822.61	820.74	820.79	820.65	821.71
MW-112	874.55	818.52	819.24	819.39	819.73	819.41	820.97	822.76	821.08	820.99	820.08	820.83
P-113A	833.09	817.29	817.78	818.13	819.42	819.91	822.4	822.8	820.45	820.53	820.34	821.81
P-113B	833.10	816.70	818.11	818.26	819.09	819.35	821.36	821.79	820.09	820.1	819.84	820.96
P-114	839.35	817.36	818.48	818.14	818.61	819	820.91	821.45	819.79	819.83	819.5	820.51
P-115	842.71	817.62	818.72	818.375	818.815	819.185	821.095	821.635	819.965	819.975	819.655	820.725
P-116	845.34	816.38	817.47	816.905	817.475	817.755	819.425	820.385	816.805	818.705	818.375	819.155
P-117	834.02											
P-118	826.93											
MW-3A	850.77	817.49	817.68	819.68	820.7	821.15	823.53	823.87	821.57	821.62	821.62	822.96
MW-3B	851.04	818.88	819.62	820.24	820.88	821.08	823.09	823.53	821.48	821.5	821.51	822.66
LC1	876.15	NM	846.41	NM	NM	NM	845.89	NM	NM	NM	NM	NM
LC2	866.05	NM	838.63	NM	NM	NM	837.81	NM	NM	NM	NM	NM
LC3	877.34	NM	846.12	NM	NM	NM	845.28	NM	NM	NM	NM	NM

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

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

Well Name	TOC Elevation	Jul-09	Oct-09	Feb-10	May-10	Sep-10	Jan-11	Mar-11	Apr-11	Jul-11	Oct-11	Jan-12
MW-101	884.80	823.61	822.68	822.2	823.43	823.29	822.19	NM	823.66	824.41	822.45	822.93
P-101	885.26	823.6	822.63	822.17	823.37	823.25	822.14	NM	823.6	824.38	822.37	822.87
MW-102	843.05	823.85	822.99	822.65	823.77	823.66	822.66	NM	824.1	824.73	822.67	823.36
P-102	842.99	824.11	823.05	822.76	823.8	823.71	822.74	NM	824.16	824.79	822.67	823.44
MW-103	872.42	821.72	820.83	820.27	821.25	821.32	820.29	NM	821.34	822.45	821.14	820.97
P-103	872.92	823.59	822.62	822.24	823.34	823.19	822.26	NM	823.6	824.28	822.34	822.91
P-103D	873.08	822.905	822.055	821.705	822.575	822.35	821.81	821.96	822.88	823.26	821.64	822.04
MW-104	875.15	823.47	822.53	822.06	823.25	823.12	822.1	NM	823.47	824.19	822.32	822.82
P-104	875.48	823.64	822.68	822.22	823.41	823.3	822.26	NM	823.62	824.37	822.53	822.93
MW-106	878.90	823.94	822.96	822.61	823.72	823.6	822.57	NM	824.02	824.68	822.58	823.33
P-106	878.91	823.9	822.85	822.54	823.64	823.52	822.52	NM	823.94	824.6	822.48	823.24
MW-107	871.78	820.25	819.37	818.81	819.59	819.85	818.83	NM	819.76	821.04	820.04	819.96
P-107	871.38	820.26	819.34	818.48	819.62	819.82	818.98	NM	819.73	821.02	820.02	819.15
P-107D	871.98	820.61	819.98	819.88	819.68	818.85	820.47	819.05	820.29	819.73	818.74	819.38
MW-108	845.25	818.58	817.93	817.28	818.27	818.39	817.44	NM	818.51	819.21	818.48	818.11
P-108	845.61	821.73	821.06	820.08	821.53	821.66	820.25	NM	821.32	822.51	821.45	820.86
MW-111	856.46	818.71	817.87	817.29	818.07	818.3	817.39	NM	818.37	819.45	818.64	818.12
P-111	856.13	818.3	817.43	816.86	817.61	817.88	816.96	NM	817.89	819.01	818.18	817.68
P-111D	855.79	820.85	820.15	819.91	820.41	820.16	817.15	820.05	820.83	820.9	819.92	820.33
MW-112	874.55	820.62	819.76	819.24	820.13	820.24	819.33	NM	820.23	821.36	820.2	819.91
P-113A	833.09	820.1	819.4	819.57	819.09	818.24	820.05	818.53	819.67	818.78	818.34	818.72
P-113B	833.10	819.81	819.24	819.15	819.27	818.88	819.45	818.97	819.64	819.34	819.04	818.87
P-114	839.35	819.6	818.99	818.75	819.12	819	819.09	818.85	819.75	819.67	819	819.16
P-115	842.71	819.805	819.145	818.935	819.205	819.13	819.265	819.005	819.855	819.745	819.145	819.265
P-116	845.34	818.465	817.755	817.565	818.055	817.85	817.895	817.755	818.845	818.605	817.985	818.125
P-117	834.02											
P-118	826.93											
MW-3A	850.77	821.46	820.87	820.85	819.92	818.91	821.26	819	819.85	819.18	819.74	819.6
MW-3B	851.04	821.74	821.06	820.84	821	820.59	821.04	820.35	821.18	821.1	820.65	820.78
LC1	876.15	NM	NM	NM	843.73	NM	NM	NM	843.14	NM	NM	NM
LC2	866.05	NM	NM	NM	838.96	NM	NM	NM	838.4	NM	NM	NM
LC3	877.34	NM	NM	NM	845.67	NM	NM	NM	845.22	NM	NM	NM

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

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

Well Name	TOC Elevation	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Jan-14	Apr-14	Jul-14	Oct-14
MW-101	884.80	823.33	823.56	821.86	821.99	823.89	NM	NM	NM	822.32	NM	NM
P-101	885.26	823.29	823.5	821.82	821.92	823.88	NM	NM	NM	822.29	NM	NM
MW-102	843.05	823.8	823.89	822.3	822.43	824.38	NM	NM	NM	823.12	NM	NM
P-102	842.99	823.86	823.96	822.41	822.52	824.45	NM	NM	NM	823.02	NM	NM
MW-103	872.42	821.24	821.9	820.21	820.09	821.5	NM	819.91	NM	820.12	NM	820.68
P-103	872.92	823.32	823.48	821.9	822.02	823.88	NM	821.35	NM	822.42	NM	822.55
P-103D	873.08	822.47	822.43	821.085	821.275	823.135	823.24	820.63	820.85	821.69	822.45	821.73
MW-104	875.15	823.22	823.4	821.79	821.87	823.76	NM	NM	NM	822.26	NM	NM
P-104	875.48	823.22	823.57	821.96	822.02	823.87	NM	NM	NM	822.32	NM	NM
MW-106	878.90	823.73	823.87	822.27	822.43	824.3	NM	NM	NM	822.84	NM	NM
P-106	878.91	823.64	825.8	822.18	822.33	824.21	NM	NM	NM	822.75	NM	NM
MW-107	871.78	819.77	820.68	818.98	818.73	819.87	NM	NM	NM	818.78	NM	NM
P-107	871.38	819.76	820.7	819	818.71	819.88	NM	NM	NM	818.82	NM	NM
P-107D	871.98	819.42	818.1	817.78	818.02	820.41	820.56	817.57	817.80	818.53	819.74	818.19
MW-108	845.25	818.28	818.74	817.63	817.27	818.74	NM	NM	NM	817.64	NM	NM
P-108	845.61	821.01	822.09	820.82	820.02	821.52	NM	NM	NM	820.12	NM	NM
MW-111	856.46	818.32	819.09	817.61	817.25	818.52	NM	NM	NM	817.49	NM	NM
P-111	856.13	817.87	818.67	817.16	816.81	818.07	NM	NM	NM	817.05	NM	NM
P-111D	855.79	820.28	820	819.01	819.29	821.07	820.97	818.61	818.85	819.88	820.41	819.68
MW-112	874.55	820.15	820.8	819.27	819.15	820.39	NM	819.07	NM	819.18	NM	819.69
P-113A	833.09	818.51	817.23	817.23	817.5	819.83	819.92	816.76	817.32	817.95	819.09	817.68
P-113B	833.10	818.71	818.39	817.96	817.92	820.89	820.02	817.31	817.97	818.87	819.41	818.28
P-114	839.35	819.06	818.46	818.03	818.27	819.94	820.05	816.57	817.93	818.83	819.51	818.46
P-115	842.71	819.075	818.805	818.105	818.335	820.025	820.205	817.635	817.89	818.96	819.63	818.57
P-116	845.34	818.125	817.575	817.115	817.395	818.855	818.825	816.755	816.92	817.77	818.54	817.54
P-117	834.02											
P-118	826.93											
MW-3A	850.77	818.41	818.23	817.6	817.98	820.07	820.25	816.62	817.81	819.50	819.11	818.12
MW-3B	851.04	820.27	820.35	819.28	819.48	821.49	821.48	818.59	819.24	820.69	820.61	819.89
LC1	876.15	843.21	NM	NM	NM	843.36	NM	NM	NM	843.71	NM	NM
LC2	866.05	837.87	NM	NM	NM	838.51	NM	NM	NM	840.02	NM	NM
LC3	877.34	845.63	NM	NM	NM	845.52	NM	NM	NM	846.29	NM	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
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NM - Well not measured
TOC Elevation = Top of Casing Elevation

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

Well Name	TOC Elevation	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Apr-17	Jul-17
MW-101	884.80	NM	822.43	NM	NM	NM	824.20	NM	NM	NM	823.84	NM
P-101	885.26	NM	822.36	NM	NM	NM	824.16	NM	NM	NM	823.79	NM
MW-102	843.05	NM	822.91	NM	NM	NM	824.71	NM	NM	NM	824.41	NM
P-102	842.99	NM	822.99	NM	NM	NM	824.76	NM	NM	NM	824.42	NM
MW-103	872.42	NM	820.27	NM	819.48	NM	821.86	NM	820.7	NM	821.57	NM
P-103	872.92	NM	822.42	NM	820.15	NM	824.22	NM	822.33	NM	823.83	NM
P-103D	873.08	821.75	821.55	821.04	821.14	821.82	823.45	822.23	821.49	822.19	823.04	823.86
MW-104	875.15	NM	822.36	NM	NM	NM	824.08	NM	NM	NM	823.81	NM
P-104	875.48	NM	822.40	NM	NM	NM	824.18	NM	NM	NM	823.84	NM
MW-106	878.90	NM	822.91	NM	NM	NM	824.69	NM	NM	NM	824.35	NM
P-106	878.91	NM	822.82	NM	NM	NM	824.61	NM	NM	NM	824.23	NM
MW-107	871.78	NM	818.87	NM	NM	NM	820.31	NM	NM	NM	820.06	NM
P-107	871.38	NM	818.84	NM	NM	NM	820.30	NM	NM	NM	820.08	NM
P-107D	871.98	818.35	818.08	818.12	817.46	819.25	820.84	818.81	818.31	819.16	820.38	820.50
MW-108	845.25	NM	817.39	NM	NM	NM	818.86	NM	NM	NM	818.55	NM
P-108	845.61	NM	820.07	NM	NM	NM	821.53	NM	NM	NM	821.2	NM
MW-111	856.46	NM	817.39	NM	NM	NM	818.91	NM	NM	NM	818.66	NM
P-111	856.13	NM	816.95	NM	NM	NM	818.45	NM	NM	NM	818.22	NM
P-111D	855.79	819.51	819.50	819.21	818.51	822.95	821.30	820.11	819.59	820.27	820.86	821.72
MW-112	874.55	NM	819.30	NM	818.77	NM	820.71	NM	819.69	NM	820.42	NM
P-113A	833.09	817.81	817.59	817.48	817.02	818.80	820.23	818.16	817.82	818.89	819.78	820.14
P-113B	833.10	818.17	818.42	818.35	817.73	818.75	820.17	818.66	818.63	819.37	819.76	820.71
P-114	839.35	818.53	818.46	818.41	817.73	818.72	820.18	818.81	818.59	819.28	819.85	820.72
P-115	842.71	818.52	818.60	815.48	817.84	818.90	820.33	818.81	818.58	NM	819.99	821.37
P-116	845.34	817.55	817.41	817.46	816.67	817.57	819.19	817.93	817.67	818.18	818.99	819.58
P-117	834.02									817.90	818.67	819.27
P-118	826.93											
MW-3A	850.77	818.04	818.48	817.86	817.63	819.10	819.93	818.57	818.53	820.09	820.01	821.03
MW-3B	851.04	819.79	819.95	819.50	818.96	820.32	821.43	820.36	820.04	821.01	821.25	822.32
LC1	876.15	NM	843.72	NM	NM	NM	843.65	NM	NM	NM	842.91	NM
LC2	866.05	NM	839.41	NM	NM	NM	838.01	NM	NM	NM	837.42	NM
LC3	877.34	NM	845.62	NM	NM	NM	847.13	NM	NM	NM	846.43	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
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TOC Elevation = Top of Casing Elevation

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

Well Name	TOC Elevation	Oct-17	Mar-18	Jun-18
MW-101	884.80	NM	NM	823.99
P-101	885.26	NM	NM	823.96
MW-102	843.05	NM	NM	824.44
P-102	842.99	NM	NM	824.523
MW-103	872.42	821.77	NM	821.67
P-103	872.92	823.57	NM	824
P-103D	873.08	822.62	821.60	823.43
MW-104	875.15	NM	NM	823.92
P-104	875.48	NM	NM	824.07
MW-106	878.90	NM	NM	824.45
P-106	878.91	NM	NM	824.37
MW-107	871.78	NM	NM	819.12
P-107	871.38	NM	NM	820.13
P-107D	871.98	818.90	817.75	822.24
MW-108	845.25	NM	NM	819.04
P-108	845.61	NM	NM	821.7
MW-111	856.46	NM	NM	818.68
P-111	856.13	NM	NM	818.23
P-111D	855.79	820.21	819.17	821.66
MW-112	874.55	820.66	NM	820.62
P-113A	833.09	817.95	817.91	821.68
P-113B	833.10	818.94	818.19	820.87
P-114	839.35	819.02	813.32	820.48
P-115	842.71	819.04	818.36	820.70
P-116	845.34	818.10	817.41	819.24
P-117	834.02	818.07	817.34	818.92
P-118	826.93	818.09	817.30	818.93
MW-3A	850.77	818.35	817.99	822.83
MW-3B	851.04	820.39	819.81	822.61
LC1	876.15	NM	NM	NM
LC2	866.05	NM	NM	839.74
LC3	877.34	NM	NM	845.72

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NT - Not taken, only measured deep wells
NM - Well not measured
TOC Elevation = Top of Casing Elevation

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

Sampling Point	Collection Date	Parameters																																					
		Acetone ¹	Benzene	Bromodichloromethane	Bromomethane	2-Butanone (MEK)	sec-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dibromochloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Isopropyl Ether	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes		
WDNR NR140	PAL	200	0.5	0.06	1	90	NE	200	NE	80	0.6	0.3	15	6	200	85	0.5	0.7	7	20	0.5	140	NE	NE	0.5	12	0.5	10	200	14		0.5	NE	96	0.02	1000			
	ES	1000	5	0.6	10	460	NE	1000	NE	400	6	3	75	60	1000	850	5	7	70	100	5	700	NE	NE	5	60	5	50	1000	70		5	NE	480	0.2	10000			
P-107	10/5/2010																																			0.94J			
P-107	1/24/2011																																						
P-107	4/12/2011																																				0.84J		
P-107	10/18/2011																																				0.54J		
P-107	4/4/2012	10.7 J																																			1.1		
P-107	10/17/2012																																						
P-107	4/26/2013																																						
P-107	4/16/2014																																					0.89J	
P-107	4/15/2015																																					0.57J	
P-107	4/13/2016																																					0.72 J	
P-107	4/6/2017																																					0.79 J	
P-107	6/4/2018 ⁶		0.024 J																																			0.58	

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

Sampling Point	Collection Date	Parameters																																			
		Acetone ¹	Benzene	Bromodichloromethane	Bromomethane	2-Butanone (MEK)	sec-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dibromochloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Isopropyl Ether	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	0.06	1	90	NE	200	NE	80	0.6	0.3	15	6	200	85	0.5	0.7	7	20	0.5	140	NE	NE	0.5	12	0.5	10	200	14		0.5	NE	96	0.02	1000	
	ES	1000	5	0.6	10	460	NE	1000	NE	400	6	3	75	60	1000	850	5	7	70	100	5	700	NE	NE	5	60	5	50	1000	70		5	NE	480	0.2	10000	
MW-112	7/25/2012																	1.5																			
MW-112	10/17/2012																																				
MW-112	1/16/2013																																				
MW-112	4/24/2013																																				
MW-112	10/24/2013																																				
MW-112	4/16/2014																																				
MW-112	10/24/2014																																				
MW-112	4/28/2015																																				
MW-112	10/28/2015																																				
MW-112	4/12/2016																																				
MW-112	10/27/2016																																				
MW-112	4/5/2017																																				
MW-112	10/18/2017																																				
MW-112	6/4/2018 ⁶								0.12 J			0.042 JB							0.081 J							0.084 J						0.43					

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

Sampling Point	Collection Date	Parameters																																		
		Acetone ¹	Benzene	Bromodichloromethane	Bromomethane	2-Butanone (MEK)	sec-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dibromochloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Isopropyl Ether	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride
WDNR NR140	PAL	200	0.5	0.06	1	90	NE	200	NE	80	0.6	0.3	15	6	200	85	0.5	0.7	7	20	0.5	140	NE	NE	0.5	12	0.5	10	200	14		0.5	NE	96	0.02	1000
	ES	1000	5	0.6	10	460	NE	1000	NE	400	6	3	75	60	1000	850	5	7	70	100	5	700	NE	NE	5	60	5	50	1000	70		5	NE	480	0.2	10000
P-114	3/21/2018 ⁵			NR			NR												1.3				NR	NR									NR	NR	6.2	NR
P-114	3/21/2018 Dup ⁵			NR			NR												1.4				NR	NR									NR	NR	6.3	NR
P-114	3/21/2018 SIM ⁵			NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR		NR	NR	NR		NR	NR	NR	NR	NR	NR	NR		NR		NR	NR	NR	4.7	NR
P-114	3/21/2018 SIM Dup ⁵			NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR		NR	NR	NR		NR	NR	NR	NR	NR	NR	NR		NR		NR	NR	NR	4.7	NR
P-114	6/5/2018 ⁶							0.086 J							0.061 J				1.6																5.8	
P-114	6/5/2018 Dup ⁶									0.27									1.7																6.5	

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

Sampling Point	Collection Date	Parameters																																		
		Acetone ¹	Benzene	Bromodichloromethane	Bromomethane	2-Butanone (MEK)	sec-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dibromochloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Isopropyl Ether	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride
WDNR	PAL	200	0.5	0.06	1	90	NE	200	NE	80	0.6	0.3	15	6	200	85	0.5	0.7	7	20	0.5	140	NE	NE	0.5	12	0.5	10	200	14		0.5	NE	96	0.02	1000
NR140	ES	1000	5	0.6	10	460	NE	1000	NE	400	6	3	75	60	1000	850	5	7	70	100	5	700	NE	NE	5	60	5	50	1000	70		5	NE	480	0.2	10000

Results in µg/L (microgram per liter)

B = analyte found in method blank as well as sample

E = exceeds calibration range

J = estimated value between LOD and LOQ

LOD= Limit of Detection adjusted for dilution factor and percent moisture

LOQ= Limit of Quantitation adjusted for dilution factor and percent moisture

L = Lab Artifact

& = 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 Tetra Tech

PAL = Preventive Action Limit

ES = Enforcement Standard

Underline indicates exceeds NR 140 PAL

Bolding indicates exceeds NR 140 ES

Blank = Sample analyzed 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 2004

* 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.

³ Gaastra residence connected to city's water supply July 13, 2015. Outside faucet connected to original well for sampling purposes.

⁴ Perry residence connected to city's water supply September 7, 2015. Outside faucet connected to original well for sampling purposes.

⁵ Test America began analyzing samples in March 2018. Both standard 8260C and 8260SIM analysis were performed, and reported.

⁶ CT Laboratories began analyzing samples in June 2018. Low Level 8260C analysis performed and reported.

P-114 (former Ehster well)

P-115 (former Wiese well)

P-116 (former Hadel well)

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
MW-101	2/1/2007									558	6.59	7.4
	5/1/2007									1021	6.92	13.1
	5/6/2008									782	7.18	12.4
	4/8/2009									940	6.75	12.5
	10/29/2009	<0.20	0.39	>2.5	>100	<0.2	0.015	-98	3.17	914	6.85	11.8
	5/25/2010	<0.20	0.08	>2.5	>100	<0.2	0.0192	-73	1.65	961	6.55	25.3
	10/4/2010	0.08			>100		0.0136	-63	2.13	1265	6.95	15.8
	1/26/2011			>2.5				-14	2.51	938	7.39	6.2
	4/11/2011									1020	7.48	14.1
	4/3/2012									960	7.10	13.0
MW-103	2/1/2007									2670	6.95	5.7
	5/2/2007									1180	6.64	10.8
	10/18/2007									1609	6.74	13.0
	5/5/2008									1420	7.06	12.2
	10/2/2008									1411	6.69	11.3
	4/7/2009									1433	7.17	10.3
	10/28/2009	<0.20	>0.80	0.42	>100	<0.2	0.00042	24	4.21	1780	6.79	10.7
	2/25/2010	>1.5	<0.08	<0.1	>100	<0.2	<0.0028	55	4.1	2	6.96	8.6
	5/24/2010	>1.5	<0.08	0.11	>100	<0.2	<0.0028	86	2.84	2110	6.49	17.7
	10/4/2010	>1.5			>100		0.0235	46	3.33	1920	7.22	12.9
	1/26/2011			0.09				62	4.52	1700	7.22	5.5
	4/11/2011			0.07				136	5.02	1217	6.79	13.8
	7/11/2011			0.13				33	3.54	1660	7.14	18.7
	10/19/2011			<0.1				171	4.01	1580	6.88	8.7
	1/24/2012			<0.1				144	3.28	1930	6.98	6.1
	4/3/2012			<0.1				98	3.25	2130	6.88	12.4
	7/25/2012			0.323				58	2.56	1950	6.71	21.4
	10/17/2012			<0.1				59	6.02	1690	6.96	12.7
	1/16/2013			<0.1				36	3.67	1730	7.00	6.6
	4/24/2013			0.394				41	3.29	1454	7.05	11.3
	10/24/2013			0.207				33	5.26	1356	7.10	7.9
	4/16/2014			0.177				85	4.35	1210	7.30	8.3
	10/23/2014			0.25				65	5.3	1387	7.28	10.1
4/28/2015			0.274				47	4.16	1425	7.41	11.7	
4/12/2016			0.361				44	4.77	1392	7.14	11.9	
10/27/2016			0.295				NM	NM	1358	6.86	9.0	
4/5/2017			0.558				91	5.94	1371	7.00	9.3	
10/18/2017			0.06				17	4.65	1259	7.09	13.6	
6/4/2018			0.01				97	4.51	509	7.08	16.9	
MW-104	10/19/2011									1312	6.78	9.9
	4/3/2012									1134	6.90	12.3
	10/17/2012									1517	6.71	12.7
	4/24/2013									1396	6.87	12.2
	4/16/2014									1138	7.20	10.4
	4/15/2015									1205	6.92	14.2
	4/12/2016									1130	7.15	12.0
	4/5/2017 ¹									1108	6.53	10.4
6/4/2018									1124	6.95	16.7	

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 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-107	4/21/2003						0.13	185.70	21.27	1021	7.00	9.84
	4/22/2003				30			74.10	5.70	1024	7.06	10.32
	10/21/2003	3.3			32			79.30	5.80	1211	6.92	9.64
	5/1/2007									570	6.93	10.5
	10/17/2007									1297	7.09	13.1
	5/5/2008									796	7.54	11.5
	10/1/2008									1240	6.86	10.1
	4/7/2009									1226	7.50	10.2
	10/28/2009	>1.5	0.18	0.61	>100	<0.2	<0.000180	-1	5.78	956	7.13	11.6
	5/24/2010	>1.5	0.32	1.86	>100	0.71	<0.0028	61	3.08	1087	6.89	20.7
	10/4/2010	>1.5		0.7	49.95		ND	76	6.38	1650	7.62	10.6
	1/26/2011			0.85				45	4.74	249	7.35	6.0
	4/11/2011									1100	8.12	11.2
	10/18/2011									1225	7.51	10.1
	4/3/2012									983	7.50	11.5
	10/17/2012									1076	7.10	13.0
	4/24/2013									1144	7.34	11.0
	4/16/2014									877	7.61	10.9
	4/15/2015									1078	7.33	12.4
	4/12/2016									1067	7.85	11.8
4/5/2017 ¹									996	7.12	9.2	
6/4/2018									1776	7.41	16.1	
MW-111	12/5/2002									866	7.15	7.84
	8/8/2007									920	7.45	11.4
	5/5/2008									732	7.45	11.9
	4/7/2009									867	7.22	10.8
	10/28/2009	>1.5	<0.08	0.26	>100	<0.2	0.00031	3	6.66	836	6.66	11.4
	5/24/2010	1.09	0.22	1.39	>100	0.44	<0.0028	71	2.73	958	6.80	22.7
	10/4/2010	0.99		0.02	>100		ND	85	4.87	995	7.72	9.6
	1/26/2011			0.25				26	4.56	849	7.28	7.6
	4/11/2011									900	7.94	11.2
	4/3/2012									846	7.60	11.7
MW-112	7/11/2011			>2.5				-51	1.49	951	7.34	16.5
	10/19/2011			>2.5				-46	1.12	907	7.01	8.9
	1/24/2012			>2.5				-26	1.32	1060	7.16	8.0
	4/3/2012			>2.5				-77	1.19	1210	6.96	11.7
	7/25/2012			>2.5				-75	1.37	1071	6.89	18.9
	10/17/2012			>2.5				-113	1.08	992	7.15	12.7
	1/16/2013			>2.5				-72	1.80	1003	7.10	7.9
	4/24/2013			>2.5				45	1.56	1052	7.11	12.1
	10/24/2013			>2.5				42	1.92	982	7.43	8.6
	4/16/2014			>2.5				-76	0.91	949	7.36	9.9
	10/23/2014			>2.5				52	1.87	874	7.42	9.9
	4/28/2015			2.296				61	1.33	1018	7.36	13.0
	10/28/2015			>2.5				59	1.79	905	6.61	10.8
	4/12/2016			>2.5				-39	1.39	904	6.97	11.5
	10/27/2016			>2.5				NM	NM	907	6.97	9.7
	4/5/2017			>2.5				-19	1.57	937	7.18	8.8
10/18/2017			>2.5				-74	1.20	1019	7.09	13.3	
6/4/2018			>2.5				-31	1.92	627	7.14	17.8	

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-101	12/4/2002				50			-53.5	0.08	843	7.12	9.26
	4/22/2003				51			-36.9	0.81	646	7.46	10.12
	10/23/2003	<0.058			49			-65.5	0.66	754	7.04	10.20
	5/1/2007									828	7.57	11.7
	5/6/2008									735	7.69	11.3
	4/8/2009									749	7.24	11.4
	10/29/2009	0.39	0.12	1.84	71.36	<0.2	0.00059	-108	2.2	880	7.32	11.2
	5/25/2010	<0.20	<0.08	1.38	70.81	<0.2	<0.0028	-48	1.04	925	6.62	25.5
	10/4/2010	0.08			69.72		ND	-92	1.9	948	7.51	15.0
	1/26/2011			1.24				-31	2.65	829	7.26	5.8
	4/11/2011									840	7.96	12.8
4/3/2012									776	7.40	11.6	
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			#####	0.82	874	7.17	10.06
	2/1/2007							172	0.53	903	6.86	9.0
	5/2/2007							206	0.92	896	6.78	9.9
	8/14/2007							226	0.70	863	7.09	11.4
	10/18/2007							300	0.51	863	6.35	11.0
	5/5/2008							30	0.93	956	6.98	10.5
	10/2/2008							323	1.37	888	6.70	10.8
	4/7/2009							-95	1.09	813	7.40	9.8
	10/28/2009	0.45	<0.08	<0.1	78.95	<0.2	0.052	-125	0.85	739	7.19	10.2
	2/25/2010	>1.5	NM	NM	83.29	<0.2	0.0416	-120	1.62	845	7.25	9.0
	5/24/2010	<0.20	<0.08	>2.5	89.8	<0.2	0.0489	-104	0.38	815	7.00	11.2
	10/5/2010	0.08			85.02		0.0562	-128	1.15	874	7.86	10.9
	1/25/2011			2.5				-69	0.64	776	7.60	9.3
	4/12/2011			>2.5				-125	1.22	906	7.19	10.0
	7/11/2011			>2.5				-123	0.83	743	7.92	11.5
	10/18/2011			>2.5				-76	1.60	737	7.38	10.3
	1/24/2012			>2.5				-47	0.65	878	7.27	9.0
	4/4/2012			2.489				-96	0.93	985	7.26	10.2
	7/25/2012			>2.5				-100	0.67	855	6.94	11.7
	10/17/2012			>2.5				-101	1.00	808	6.83	10.5
	1/16/2013			2.102				-123	0.51	824	7.15	9.3
	4/26/2013			>2.5				-86	0.59	790	7.45	10.4
	10/24/2013			>2.5				0	1.43	815	6.29	10.0
	4/16/2014			>2.5				-78	1.71	767	7.56	9.5
10/23/2014			>2.5				40	0.96	687	7.16	10.2	
4/28/2015			>2.5				75	0.53	802	7.03	9.9	
10/27/2015			>2.5				33	1.37	731	7.61	10.2	
4/13/2016			>2.5				-29	1.37	722	6.81	9.3	
10/27/2016			>2.5				-2	1.50	719	6.70	10.1	
4/6/2017 ¹			NM				90	1.13	730	6.28	9.5	
10/18/2017			>2.5				-76	0.85	789	7.16	10.4	
6/4/2018			>2.5				96	4.54	501	7.08	16.8	
P-106	4/24/2013							-6	3.17	764	7.26	9.8
	4/16/2014							-74	1.40	730	7.67	9.5
	4/15/2015							63	0.57	770	7.25	10.0
	4/12/2016							-46	0.83	681	6.79	9.8
	4/5/2017 ¹							-104	1.11	682	7.47	9.7
	6/4/2018							-73	0.57	481	7.52	10.7

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-107	12/4/2002	NM	NM	NM	66		0.11	-28.00	0.86	791	7.22	9.40
	4/21/2003				74			37.30	0.76	646	7.43	9.62
	10/21/2003	<0.058						-70.40	0.92	716	7.18	9.73
	5/1/2007							240	1.64	840	6.66	9.6
	10/19/2007							330	1.80	863	6.42	10.7
	5/5/2008							8	1.50	925	7.50	11.0
	10/1/2008							350	2.63	923	6.66	10.2
	4/7/2009							-95	1.75	852	7.34	9.0
	10/28/2009	<0.20	<0.08	1.68	89.8	<0.2	0.31	-78	1.19	778	7.08	10.9
	5/24/2010	<0.20	<0.08	1.76	99.39	<0.2	0.383	-70	1.12	869	6.92	13.2
	10/5/2010	0.06			88.68		0.345	-117	1.84	930	7.86	10.8
	1/24/2011			1.33				-28	1.82	838	6.73	7.8
	4/12/2011							-68	1.39	966	7.16	10.1
	10/18/2011							-49	1.50	796	7.34	10.4
	4/4/2012							-82	1.64	1051	7.26	10.2
	10/17/2012							-88	1.55	886	7.28	11.3
	4/26/2013							-76	2.16	860	7.53	10.8
	4/16/2014							-69	1.77	847	7.58	8.9
	4/15/2015							72	1.31	900	7.26	11.0
	4/13/2016							-51	0.95	805	7.32	7.7
4/6/2017 ¹							-70	1.57	813	7.37	9.5	
6/4/2018							-34	1.08	418	7.37	11.8	
P-111	12/5/2002				44			-88.30	-0.03	639	7.43	9.76
	4/22/2003				39			-74.20	0.67	486	7.71	12.06
	10/22/2003	<0.058			31			-94.00	0.75	566	7.53	9.87
	8/14/2007							118	0.35	580	7.46	11.1
	5/5/2008							65	0.35	614	7.72	10.5
	4/7/2009							-89	0.26	624	7.62	9.1
	10/28/2009	<0.20	<0.08	0.53	64.03	<0.2	0.0085	-140	0.48	616	7.57	10.1
	5/24/2010	<0.20	<0.08	0.61	70.99	<0.2	0.0051	-101	0.24	673	7.25	10.5
	10/5/2010	0.06			69.06		0.0065	-131	0.28	715	8.26	10.3
	1/24/2011			0.45				-98	0.58	632	7.35	9.1
	4/13/2011							-53	1.46	683	6.99	9.7
	4/4/2012							-104	0.60	832	7.53	9.9

**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
	12/5/2002				36			-87	-0.11	1248	6.57	9.84
	12/5/2002				36							
	4/22/2003				46			-92	0.37	815	7.18	9.86
	10/22/2003	<0.058			43			-161	0.55	662	7.45	9.79
	1/31/2007							140	0.51	710	7.27	8.2
	5/1/2007							125	1.32	703	6.99	9.5
	8/8/2007							-233	0.43	605	7.49	10.3
	10/19/2007							170	0.29	598	6.63	9.8
	5/6/2008							21	0.40	672	7.89	9.7
	10/1/2008							334	1.35	646	6.90	9.7
	4/7/2009							-116	0.20	604	7.48	8.8
	10/28/2009	<0.20	<0.08	0.72	37.68	<0.2	0.098	-230	0.35	567	7.65	9.4
	5/24/2010	<0.20	<0.08	0.78	50.67	<0.2	0.0275	-176	0.17	650	7.27	10.2
	10/5/2010	0.05		0.61	43.23		0.0159	-161	8.80	697	8.24	9.9
	1/24/2011			0.66				-109	0.44	614	6.90	8.4
	4/13/2011			0.84				-207	0.52	694	7.65	9.5
	7/12/2011			0.68				-195	0.96	591	7.54	9.9
	10/19/2011			0.71				-171	2.18	604	7.89	9.5
	1/23/2012			0.79				-110	0.28	734	7.37	8.7
	4/4/2012			0.861				-151	1.39	811	7.57	9.3
	7/25/2012			0.681				-231	0.39	693	7.65	11.6
	10/16/2012			0.72				-157	0.42	675	7.36	10.0
	1/15/2013			0.874				-233	1.60	702	7.62	8.9
	4/26/2013			0.85				-158	2.59	681	7.90	9.6
	7/2/2013			0.804				-91	0.35	707	7.34	9.9
	10/24/2013			0.774				-18	0.59	684	7.60	9.4
	1/9/2014			0.911				10	1.82	640	7.53	8.4
	4/17/2014			0.784				-142	1.01	679	7.91	9.2
	7/17/2014			0.811				-22	0.38	708	7.65	9.9
	10/23/2014			1.219				-189	0.29	622	8.00	9.4
	1/15/2015			0.874				-196	0.48	669	7.96	8.6
	4/28/2015			<0.1				-127	0.84	736	7.30	9.5
	7/1/2015			0.991				-144	0.42	694	7.66	9.6
	10/27/2015			0.997				-114	0.48	667	8.26	9.7
	1/14/2016			0.923				-59	0.28	633	7.21	8.8
	4/13/2016			1.095				-140	0.31	666	7.81	8.8
	7/28/2016			1.19				-234	0.29	584	7.89	10.1
	10/27/2016			1.137				-203	0.44	684	7.50	9.5
	1/20/2017			1.335				-136	0.42	722	7.50	8.9
	4/6/2017 ¹			NM				-184	0.31	683	7.67	9.2
	7/14/2017			1.04				-128	0.39	648	7.39	9.8
	10/18/2017			1.02				-124	0.29	775	7.45	10.1
	3/21/2018			1.00				-133	0.45	621	7.90	8.9
	6/4/2018			0.86				-2	0.30	359	7.60	9.8

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-103D	5/2/2007							260	0.57	879	6.89	9.9
	10/18/2007							321	0.54	854	6.43	11.2
	5/5/2008							20	0.63	935	7.02	10.8
	10/2/2008							327	3.40	877	6.85	10.7
	4/7/2010							-110	0.45	808	7.61	10.0
	10/28/2009	<0.20	0.17	>2.5	76.38	<0.2	0.098	-146	0.52	746	7.30	10.2
	2/25/2010		<0.08	>2.5	78.05	<0.2	0.0747	-146	0.76	842	7.39	9.2
	5/24/2010	<0.20	<0.08	>2.5	88.88	<0.2	0.0303	-111	0.37	853	7.08	11.1
	10/5/2010	0.11			93.48		0.0659	-147	1.10	898	7.97	10.9
	1/25/2011			>2.5				-71	0.73	781	7.56	9.4
	4/12/2011			>2.5				-132	1.09	906	7.26	10.2
	7/11/2011			>2.5				-138	1.34	751	8.12	11.6
	10/18/2011			>2.5				-82	1.28	768	7.41	10.2
	1/24/2012			>2.5				-64	0.40	895	7.28	9.3
	4/4/2012			>2.5				-114	0.59	1004	7.36	10.2
	7/25/2012			>2.5				-109	0.78	846	6.75	11.4
	10/17/2012			>2.5				-115	1.74	835	7.13	10.4
	1/16/2013			1.715				-129	0.31	832	7.00	9.4
	4/26/2013			>2.5				-97	1.41	806	7.50	10.4
	7/2/2013			>2.5				6	0.57	839	6.56	10.7
	10/24/2013			>2.5				74	0.40	835	6.67	9.9
	1/9/2014			>2.5				62	2.03	754	6.91	8.9
	4/16/2014			>2.5				-103	0.74	784	7.69	9.8
	7/17/2014			0.754				97	0.82	822	6.61	10.8
	10/23/2014			>2.5				68	0.69	701	6.86	10.2
	1/15/2015			>2.5				-42	1.48	754	6.92	9.1
	4/28/2015			>2.5				-38	0.58	823	6.75	10.3
	7/1/2015			>2.5				-20	0.87	782	6.63	10.5
	10/27/2015			>2.5				44	0.39	758	6.48	10.3
	1/14/2016			>2.5				23	0.76	713	6.47	9.2
	4/13/2016			>2.5				-49	0.41	794	9.03	9.3
	7/28/2016			>2.5				-29	0.76	748	6.85	10.8
	10/27/2016			>2.5				29	0.91	744	6.40	10.1
1/20/2017			>2.5				61	1.05	752	6.44	9.5	
4/6/2017 ¹			NM				-41	1.54	751	7.27	9.7	
7/14/2017			>2.5				-61	0.41	711	7.02	10.4	
10/18/2017			>2.5				-55	0.59	810	7.13	10.4	
3/21/2018			>2.5				-127	0.57	685	7.46	9.3	
6/4/2018			>2.5				-31	0.60	439	7.38	10.7	

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-111D	12/5/2002				62			-75.60	-0.02	910	7.32	9.75
	4/23/2003				64			-20.50	0.94	706	7.63	9.98
	10/23/2003	<0.058			65			-68.30	0.70	838	7.17	9.78
	1/31/2007							74	0.72	885	7.30	8.9
	5/1/2007							78	3.37	900	7.05	10.0
	8/8/2007							55	0.55	900	7.25	10.9
	10/19/2007							296	0.53	897	6.90	10.7
	5/6/2008							15	0.56	980	7.56	10.6
	10/1/2008							330	2.31	907	7.07	10.0
	4/7/2009							-97	1.98	821	7.52	9.3
	10/28/2009	<0.20	<0.08	1.79	60.63	<0.2	0.33	-171	0.46	764	7.51	10.0
	2/25/2010	0.43	<0.08	1.62	65.7	<0.2	0.123	-125	0.86	871	7.45	6.0
	5/24/2010	<0.20	<0.08	1.83	70.59	0.25	0.31/0.239 Dup	-136	0.24	840	7.21	10.7
	10/5/2010	0.08		1.75	61.2		0.269/0.222 Dup	-148	0.75	886	8.13	10.3
	1/24/2011			1.72				-101	0.77	801	6.83	8.9
	4/13/2011			1.89				-126	0.42	873	7.19	9.9
	7/11/2011			1.87				-178	0.88	759	7.37	11.0
	10/18/2011			1.57				-95	2.43	752	7.71	10.0
	1/23/2012			1.87				-68	0.33	898	7.31	9.3
	4/4/2012			1.693				-128	0.72	1009	7.50	10.0
	7/25/2012			1.227				-171	0.65	850	7.49	11.5
	10/17/2012			1.324				-131	0.51	838	7.56	10.5
	1/16/2013			0.339				-177	1.93	870	7.45	9.4
	4/26/2013			1.486				-114	1.16	838	7.71	10.5
	7/2/2013			1.505				-53	1.38	870	7.27	10.5
	10/24/2013			1.302				31	0.53	853	7.46	9.8
	1/9/2014			1.451				88	2.90	790	6.54	9.0
	4/17/2014			1.495				-106	0.53	839	7.86	9.6
	7/17/2014			<0.1				62	0.37	879	7.51	10.6
	10/23/2014			1.419				-93	0.43	753	7.99	9.9
	1/15/2015			1.227				-179	0.49	814	7.81	9.2
	4/28/2015			0.231				3	0.27	886	7.94	10.0
	7/1/2015			1.157				-103	0.44	842	7.44	10.2
10/27/2015			1.241				-49	1.37	817	7.72	10.2	
1/14/2016			1.31				-37	0.50	794	7.12	9.1	
4/13/2016			1.493				-97	0.40	827	7.54	9.2	
7/28/2016			1.073				-157	0.43	823	7.60	10.8	
10/27/2016			1.102				-94	0.78	828	7.26	9.9	
1/20/2017			1.309				13	0.59	837	7.19	9.4	
4/6/2017 ¹			NM				31	0.54	849	7.24	9.7	
7/14/2017			1.03				-126	0.40	790	7.37	10.2	
10/18/2017			0.75				-93	0.50	920	7.46	10.5	
3/21/2018			0.9				-120	0.60	752	7.83	9.2	
6/5/2018			1.19				-57	2.04	433	7.55	10.1	

**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
	12/3/2002				47			27.20	0.39	960	6.80	10.18
	4/23/2003				56			-54.30	1.05	715	7.22	10.13
	10/22/2003	<0.058			49			#####	0.46	616	7.42	10.13
	1/31/2007							109	0.40	620	7.33	8.8
	5/1/2007							113	1.03	625	7.03	10.2
	8/14/2007							110	0.28	618	7.28	11.1
	10/22/2007							252	0.53	629	6.70	10.3
	5/6/2008							-16	0.33	716	7.31	10.3
	10/2/2008							328	2.47	674	7.12	10.6
	4/6/2009							-122	0.40	627	7.54	9.2
	10/29/2009	<0.20	<0.08	0.83	70.14	<0.2	0.057	-187	0.42	579	7.33	10.3
	5/25/2010	<0.20	<0.08	1.19	80.11	<0.2	<0.0028	-145	0.17	646	7.26	10.9
	10/6/2010	0.1		0.98	75.55		ND	-183	0.35	685	8.09	11.0
	1/25/2011			0.9				-86	0.94	619	7.50	9.8
	4/13/2011			1.11				-164	1.11	675	7.44	10.2
	7/12/2011			0.99				-164	0.47	588	7.43	10.5
	10/19/2011			0.94				-118	0.50	588	7.71	10.2
	1/23/2012			0.99				-75	0.29	703	7.57	9.3
	4/4/2012			1.034				-104	0.72	783	7.08	9.7
	7/25/2012			0.947				-167	0.67	668	7.56	11.5
	10/16/2012			0.998				-117	0.43	655	7.51	11.0
	1/15/2013			1.06				-106	0.71	674	7.40	9.2
	4/26/2013			0.938				-125	0.78	651	7.84	10.3
	7/2/2013			1.081				-80	1.01	679	7.41	10.7
	10/24/2013			0.879				-96	1.29	675	7.20	10.6
	1/9/2014			0.955				-25	1.93	614	7.50	9.4
	4/17/2014			<0.1				-94	0.99	642	7.85	9.4
	7/17/2014			<0.1				-18	0.32	675	7.78	10.7
	10/23/2014			0.668				-154	0.43	582	7.84	10.4
	1/15/2015			1.048				-213	0.90	630	7.70	9.7
	4/28/2015			<0.1				-123	1.34	685	7.30	10.1
	7/1/2015			1.058				-120	0.79	647	7.68	10.2
	10/27/2015			1.071				-98	0.27	633	7.35	10.5
	1/14/2016			1.018				-227	0.54	639	8.70	9.4
	4/13/2016			1.098				-135	0.35	626	7.81	9.4
	7/28/2016			0.968				-229	0.46	633	7.79	10.7
	10/27/2016			0.922				-88	0.92	632	7.43	10.1
	1/20/2017			1.341				-118	0.56	668	7.57	9.7
	4/6/2017 ¹			NM				-138	0.52	638	7.64	9.8
	7/14/2017			1.04				-154	0.82	605	7.46	10.6
	10/18/2017			0.99				-117	0.48	721	7.53	11.3
	3/21/2018			1.06				-132	0.59	579	7.92	9.5
	6/5/2018			0.69				-79	0.64	215	7.67	10.4

**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
	12/3/2002				44					695	7.71	11.10
	4/23/2003				63			#####	0.85	669	7.71	10.00
	10/23/2003	<0.058			49			#####	0.54	1379	7.31	9.87
	2/1/2007							151	0.21	674	7.27	9.9
	5/1/2007							149	0.96	686	7.08	10.2
	8/8/2007							202	0.34	667	7.45	11.0
	10/22/2007							313	0.90	670	6.71	10.2
	5/6/2008							14	0.74	775	7.23	10.2
	10/2/2008							307	2.34	737	7.01	10.4
	4/6/2009							-76	0.45	687	7.58	9.5
	10/29/2009	0.22	<0.08	0.56	50.61	<0.2	0.28	-120	0.44	636	7.41	10.0
	2/26/2010	0.61	0.11	0.54	49.43	<0.2	0.285	-148	0.35	707	7.62	9.2
	5/26/2010	<0.20	0.15	0.6	57.47	<0.2	0.138/0.194 Dup	-129	0.66	703	7.27	10.4
	10/6/2010	0.11		0.72	57.18		0.186/0.224 Dup	-182	0.86	766	8.28	10.6
	1/25/2011			0.6				-58	0.42	679	7.60	9.3
	4/13/2011			0.65				-147	0.42	744	7.49	9.9
	7/12/2011			0.57				-134	1.95	646	7.48	10.5
	10/19/2011			0.62				-123	1.49	652	7.82	10.0
	1/23/2012			0.93				-78	0.35	785	7.60	9.1
	4/4/2012			0.598				-116	0.66	873	7.63	9.8
	7/25/2012			0.556				-200	0.40	748	7.63	11.0
	10/17/2012			0.757				-131	0.76	733	7.55	10.5
	1/16/2013			<0.1				-184	0.43	753	7.55	9.4
	4/26/2013			0.96				3	1.56	731	7.61	9.7
	7/2/2013			0.721				-88	0.34	766	7.47	10.5
	10/24/2013			0.726				-89	0.37	772	7.29	9.9
	1/9/2014			0.64				-21	1.18	694	7.58	9.2
	4/17/2014			0.755				-120	0.63	730	7.95	9.7
	7/17/2014			<0.1				-17	0.33	774	7.86	10.1
	10/23/2014			1.027				-110	0.27	667	7.91	10.0
	1/15/2015			0.747				-194	0.37	720	7.93	9.3
	4/28/2015			<0.1				-38	0.23	775	8.20	9.7
	7/1/2015			0.806				-113	0.41	744	7.67	10.2
	10/27/2015			1.863				-119	0.30	731	7.57	10.1
	1/14/2016			0.691				-72	0.43	697	7.76	9.3
	4/13/2016			0.811				-137	0.30	719	7.86	9.4
	7/28/2016			0.81				-228	0.33	731	7.83	10.5
	10/27/2016			0.749				-167	0.28	732	7.49	10.0
	1/20/2017			1.148				-122	0.26	780	7.56	9.4
	4/6/2017 ¹			NM				-134	0.39	745	7.70	9.7
	7/14/2017			0.79				-166	0.27	700	7.48	10.3
	10/18/2017			0.77				-137	0.51	824	7.63	10.7
	3/21/2018			0.82				-137	0.28	678	7.94	9.5
	6/5/2018			0.81				-80	0.28	328	7.70	10.3

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
	2/1/2007							128	0.29	590	7.35	9.6
	5/1/2007							112	0.85	589	7.12	10.5
	8/14/2007							216	0.43	582	7.44	10.7
	10/22/2007							313	0.54	579	6.74	10.6
	5/6/2008							-16	0.48	690	7.27	10.7
	10/2/2008							315	2.44	654	6.89	10.7
	4/6/2009							-72	0.30	605	7.58	9.9
	10/29/2009	<0.20	<0.08	0.92	40.7	<0.2	0.044	-166	0.47	551	7.52	10.2
	2/26/2010	0.36	<0.08	1.48	43.65	<0.2	0.0579	-155	0.35	620	7.64	9.8
	5/26/2010	<0.20	<0.08	1.01	46.07	<0.2	0.049	-135	0.40	608	7.30	10.5
	10/6/2010	0.1		0.95	41.23		0.0562	-175	1.42	646	8.15	10.7
	1/25/2011			0.95				-78	0.42	572	7.68	9.8
	4/13/2011			1.05				-178	0.44	626	7.51	10.5
	7/12/2011			0.86				-143	1.74	546	7.47	10.6
	10/19/2011			0.82				-128	0.55	543	7.87	10.3
	1/23/2012			1.41				-78	0.34	647	7.53	9.6
	4/4/2012			0.804				-126	0.40	724	7.65	10.1
	7/25/2012			0.7				-223	0.39	619	7.72	11.3
	10/17/2012			0.797				-137	1.22	602	7.62	10.8
	1/16/2013			<0.1				-185	1.00	619	7.59	9.9
	4/26/2013			0.866				-30	1.20	597	7.75	10.2
	7/2/2013			0.911				-89	0.48	626	7.57	10.6
	10/24/2013			0.843				-80	0.51	631	7.48	10.2
	1/9/2014			<0.1				-15	1.69	567	7.71	9.7
	4/17/2014			<0.1				-127	0.92	594	7.99	9.8
	7/17/2014			<0.1				-22	0.33	626	7.93	10.7
	10/23/2014			0.879				-95	0.34	542	8.01	10.2
	1/15/2015			0.988				-176	0.39	589	7.99	9.7
	4/28/2015			0.139				-22	0.28	639	8.29	10.3
	7/1/2015			1.254				-121	0.37	608	7.83	10.6
	10/27/2015			2.015				-99	0.26	594	7.62	10.4
	1/14/2016			0.828				-60	0.34	569	7.61	9.8
	4/13/2016			1.151				-124	0.33	589	7.93	9.8
	7/28/2016			1.116				-193	0.44	597	7.91	10.7
	10/27/2016			0.748				-127	0.29	596	7.56	10.4
	4/6/2017 ¹			NM				-137	1.16	608	7.72	10.2
	7/14/2017			0.84				-143	0.28	575	7.54	10.6
	10/18/2017			0.80				-130	0.81	703	7.60	11.0
	3/21/2018			0.72				-143	0.63	554	8.02	9.9
	6/5/2018			0.56				-96	0.24	323	7.77	10.5

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-116 (former Hadel well)	2/1/2007							171	0.38	528	7.34	8.8
	5/1/2007							142	0.59	528	7.09	10.5
	8/8/2007							202	0.42	523	7.53	12.1
	10/22/2007							301	0.59	522	6.75	10.8
	5/6/2008							38	0.71	603	7.18	12.3
	10/2/2008							295	2.70	559	7.04	11.2
	4/6/2009							-49	0.89	518	7.57	9.5
	10/29/2009	0.33	0.21	0.51	41.29	0.32	0.0031	-96	0.44	476	7.53	10.3
	2/26/2010	0.48	0.23	0.51	41.82	0.4	0.0042	-97	0.44	535	7.64	9.1
	5/25/2010	0.33	0.24	0.73	49.87	0.49	0.004	-75	0.33	530	7.30	12.2
	10/6/2010	0.45		0.92	58.53		0.0051	-106	0.55	567	8.20	12.1
	1/25/2011			0.45				37	0.56	506	7.76	9.0
	4/13/2011			0.51				-109	0.58	556	7.49	10.7
	7/12/2011			0.35				-91	1.42	485	7.50	11.9
	10/19/2011			0.37				-77	0.89	482	7.92	10.4
	1/23/2012			0.52				-21	0.38	576	7.64	8.8
	4/4/2012			0.353				-56	0.33	646	7.68	10.3
	7/25/2012			0.305				-150	0.31	546	7.64	12.7
	10/17/2012			0.351				-87	0.52	535	7.52	11.5
	1/15/2013			0.517				-187	0.95	549	7.65	9.1
	4/26/2013			0.257				99	0.52	528	7.51	9.9
	7/2/2013			0.336				-14	0.39	552	7.56	11.4
	10/24/2013			0.65				-14	0.46	542	7.95	10.3
	1/9/2014			<0.1				-9	1.19	495	7.88	8.9
	4/17/2014			<0.1				-71	0.58	501	7.99	9.8
	7/17/2014			<0.1				-26	0.35	547	7.86	12.0
	10/23/2014			1.703				-166	0.40	470	7.96	10.4
	1/15/2015			1.155				-226	0.48	512	7.98	9.0
	4/28/2015			1.308				-18	0.27	560	8.29	10.3
	7/1/2015			>2.5				-117	0.40	530	7.74	11.8
	10/27/2015			>2.5				-74	0.35	513	7.52	11.0
	1/14/2016			0.447				-43	0.38	489	7.50	9.1
4/13/2016			0.433				-59	0.56	503	7.91	9.6	
7/28/2016			0.665				-151	0.39	507	7.79	12.2	
10/27/2016			0.544				-117	0.40	507	7.53	10.6	
1/20/2017			0.563				17	0.43	522	7.70	9.1	
4/6/2017 ¹			NM				18	0.49	516	7.55	10.2	
7/14/2017			0.08				-146	0.32	483	7.54	11.3	
10/18/2017			0.07				-80	0.40	584	7.61	11.9	
3/21/2018			0.00				-113	0.46	447	8.03	10.0	
6/5/2018			0.10				-67	1.68	243	7.79	11.7	
P-117	1/20/2017			1.249				16	0.75	748	7.26	9.9
	4/6/2017 ¹			NM				-105	0.29	742	7.48	10.1
	7/14/2017			1.29				-112	0.22	701	7.29	10.4
	10/18/2017			1.31				-101	0.27	844	7.34	11.0
	3/21/2018			1.34				-116	0.32	684	7.70	9.5
	6/5/2018			1.18				-70	0.68	277	7.48	10.4
P-118	10/18/2017			0.17				-117	0.59	629	7.71	11.4
	3/21/2018			0.23				-101	0.29	524	7.93	9.2
	6/5/2018			0.05				-14	0.28	205	7.55	10.6

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
	12/5/2002				20			-312	0.03	589	7.30	
	4/22/2003				26			3	0.66	464	7.52	10.22
	10/22/2003	<0.058			14			-98	0.87	552	7.29	10.06
	1/31/2007							163	0.79	556	7.13	6.1
	5/1/2007							34	1.96	558	6.95	10.2
	8/8/2007							-144	0.74	549	7.32	12.4
	10/19/2007							201	1.07	551	6.51	10.5
	5/6/2008							13	0.33	630	7.55	9.8
	10/1/2008							297	7.35	591	6.89	9.8
	10/28/2009	<0.20	<0.08	0.51	14.67	<0.2	0.0073	-236	0.55	505	7.45	9.5
	5/24/2010	<0.20	0.04	0.49	22.35	0.21	0.0074	-227	0.55	561	7.13	12.5
	10/5/2010	0.05			15.33		0.0397	-204	1.51	600	8.20	11.3
	1/24/2011			0.19				-77	0.74	535	7.30	7.2
	4/13/2011			0.44				-240	1.14	589	7.42	10.8
	7/12/2011			0.19				-213	1.86	512	7.15	11.3
	10/19/2011			0.16				-175	1.25	511	7.76	9.7
	1/23/2012			<0.1				-34	0.70	606	7.09	8.0
	4/4/2012			0.217				-115	0.47	678	7.37	9.4
	7/25/2012			0.101				-265	0.67	584	7.50	13.5
	10/16/2012			<0.1				-175	1.33	564	7.01	10.7
	1/15/2013			0.144				-267	2.03	579	7.49	7.8
	4/26/2013			0.131				-171	1.38	560	7.77	10.2
	7/2/2013			0.127				-126	1.27	582	7.26	10.9
	10/24/2013			0.124				-140	1.27	582	7.07	9.3
	1/9/2014			<0.1				10	0.81	524	7.46	7.5
	4/17/2014			0.126				-114	1.80	551	7.73	9.2
	7/17/2014			<0.1				-8	0.67	577	7.66	10.4
	10/23/2014			0.938				-174	1.06	498	7.37	9.6
	1/15/2015			0.188				-238	1.07	541	7.84	7.7
	4/28/2015			<0.1				-30	0.46	586	8.15	9.8
	7/1/2015			<0.1				-128	1.28	548	7.61	10.0
	10/27/2015			0.166				-138	0.68	536	7.21	11.0
	1/14/2016			<0.1				-43	1.03	514	7.22	8.1
	4/13/2016			0.149				-149	0.61	530	7.70	8.4
	7/28/2016			0.154				-267	0.88	531	7.60	12.2
	10/27/2016			0.159				-171	0.62	533	7.35	9.5
	1/20/2017			0.441				-10	0.55	544	7.39	8.6
	4/6/2017 ¹			NM				5	0.51	542	7.34	9.6
	7/14/2017			0.04				-116	0.52	505	7.24	10.4
	10/18/2017			0.10				-130	0.74	600	7.48	11.9
	3/21/2018			0.03				-105	1.07	488	7.86	8.8
	6/5/2018			0.10				-56	1.48	345	7.48	11.3

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-107D	12/4/2002				19					594	7.64	7.90
	4/21/2003				27					388	7.28	10.50
	10/21/2003	<0.058			19			51.40	1.25	528	7.34	10.05
	5/1/2007							113	3.20	583	6.96	12.4
	10/19/2007							261	1.10	581	6.56	10.0
	5/5/2008							61	1.07	653	7.55	10.6
	10/1/2008							354	4.48	607	6.89	10.4
	4/7/2009							-101	2.01	569	7.53	9.1
	10/28/2009	<0.20	<0.08	<0.1	23.84	<0.2	0.073	-188	0.45	528	7.48	10.1
	2/25/2010	0.51	<0.08	<0.1	23.57	<0.2	0.0613	-191	0.74	605	7.50	8.5
	5/24/2010	<0.20	<0.08	0.19	31.82	<0.2	0.163	-147	3.12	618	7.15	11.2
	10/5/2010	0.06		0.03	21.24		0.0737	-132	0.93	619	8.09	10.6
	1/24/2011			0.3				-59	0.79	564	6.62	9.0
	4/12/2011			0.11				-222	0.64	649	7.33	9.9
	7/11/2011			0.12				-211	1.32	2	8.16	11.7
	10/18/2011			0.11				-107	2.61	535	7.69	10.1
	1/23/2012			0.27				-45	0.69	634	7.45	8.9
	4/4/2012			0.235				-105	0.73	740	7.49	9.9
	7/25/2012			<0.1				-207	1.71	627	7.42	12.6
	10/17/2012			0.104				-168	2.13	589	7.53	10.9
	1/16/2013			<0.1				-214	2.30	609	7.46	8.8
	4/26/2013			0.276				-146	2.18	585	7.84	10.3
	7/2/2013			0.123				-75	1.92	606	7.15	11.6
	10/24/2013			0.205				-60	2.51	610	6.89	9.8
	1/9/2014			<0.1				55	2.60	561	7.24	8.0
	4/16/2014			0.236				-68	1.33	603	7.76	9.4
	7/17/2014			<0.1				61	0.46	610	7.37	10.8
	10/23/2014			0.217				-127	0.98	536	8.23	9.9
	1/15/2015			<0.1				-207	0.81	571	7.84	9.0
	4/28/2015			<0.1				-116	1.84	639	7.23	10.2
	7/1/2015			0.132				-76	1.71	581	7.29	10.9
	10/27/2015			0.128				-23	0.84	565	8.03	10.5
1/14/2016			<0.1				-25	0.61	537	7.03	8.6	
4/13/2016			0.158				-64	0.86	624	9.12	8.9	
7/28/2016			0.157				-150	5.32	581	7.31	17.7	
10/27/2016			0.165				-124	0.66	557	7.16	9.9	
1/20/2017			0.451				9	1.84	562	7.03	9.1	
4/6/2017 ¹			NM				42	2.51	593	7.15	9.5	
7/14/2017			0.08				-139	0.80	539	7.26	10.3	
10/18/2017			0.10				-61	2.35	596	7.33	10.8	
3/21/2018			0.10				-66	3.88	530	7.82	9.3	
6/4/2018			NM				-32	0.44	378	7.56	10.5	

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

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO ₃ ⁻	NO ₂ ⁻	Fe ²⁺	SO ₄ ²⁻	S ²⁻	CH ₄					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	°C
P-113A	12/3/2002				12			111.80	20.00	579	7.26	10.39
	4/23/2003				15			42.00	2.98	465	7.50	10.37
	10/22/2003	0.3			10			-62.60	2.23	576	7.30	10.17
	8/8/2007							-140	0.57	544	7.37	13.3
	5/6/2008							-88	0.55	620	7.22	10.4
	4/6/2009							-137	0.74	542	7.42	8.4
	10/29/2009	0.35	0.16	>2.5	31.67	0.37	0.27	-240	0.87	498	7.41	10.7
	5/25/2010	0.26	0.21	>2.5	44.79	0.39	0.169	-183	0.96	554	7.16	15.6
	10/6/2010	0.43			44.48		0.239	-196	0.89	591	7.98	12.8
	1/25/2011			1.09				-78	1.98	533	7.58	5.9
	4/13/2011			0.68				-202	1.13	578	7.46	12.8
	7/12/2011			1.44				-195	1.47	509	7.33	14.3
	10/19/2011			0.94				-141	0.92	509	7.71	10.6
	1/23/2012			0.77				-76	1.20	604	7.67	7.3
	4/4/2012			1.219				-125	0.64	673	7.40	9.9
	7/25/2012			0.893				-257	0.83	585	7.46	15.4
	10/16/2012			0.196				-73	3.31	559	7.36	13.1
	1/15/2013			0.473				-248	1.67	574	7.56	7.0
	4/26/2013			0.814				-120	1.64	555	7.66	11.8
	7/2/2013			0.516				-127	1.04	578	7.45	13.6
	10/24/2013			0.654				-43	0.91	567	7.66	11.6
	1/9/2014			0.582				0	1.72	521	7.49	6.4
	4/14/2014			<0.1				-139	1.55	544	7.81	8.9
	7/17/2014			0.831				-10	1.15	577	7.71	17.5
	10/23/2014			0.707				-164	0.80	498	7.79	10.9
	1/15/2015			1				-201	1.81	548	7.66	7.6
	4/28/2015			0.204				-18	0.63	580	8.14	10.9
	7/1/2015			1.795				-133	1.06	547	7.57	12.9
	10/27/2015			0.583				-116	0.94	526	8.67	11.3
	1/14/2016			0.316				-73	0.96	506	7.45	6.8
	4/13/2016			0.815				-158	1.07	525	7.82	8.7
	7/28/2016			0.831				-260	0.94	529	7.70	13.3
10/27/2016			1.036				-204	0.80	531	7.42	10.5	
1/20/2017			1.253				-21	0.67	542	7.48	8.7	
4/6/2017 ¹			NM				7	0.82	539	7.45	10.0	
7/14/2017			0.47				-206	0.68	500	7.40	13.3	
10/18/2017			0.56				-118	0.49	595	7.42	13.3	
3/21/2018			0.45				-98	2.28	486	7.93	7.9	
6/5/2018			0.08				-14	0.92	232	7.57	12.5	
Perry/Watkins	10/29/2009	<0.20	<0.08	>2.5	15.18	<0.2	0.0098	-167	3.00	489	7.55	10.8
	2/26/2010	<0.20			16.34	0.42	0.0067	-159	1.57	549	7.70	8.6
	5/26/2010	<0.20	<0.08	1.7	24.6	<0.2	0.0082	-135	0.91	552	7.35	16.7
	10/6/2010	0.1			20.12		0.0081	-183	1.38	582	8.18	14.4
	1/28/2011								2.42		6.93	10.1
	4/18/2011									410	7.17	10.1
	4/3/2012									519	8.00	11.2
	4/26/2013									600	7.47	11.4
	4/15/2014									578	7.59	10.8
	4/15/2015									595	7.18	11.9
	1/14/2016									526	8.22	9.1
	4/12/2016									625	7.85	14.0
	7/28/2016									538	8.07	13.5
	10/27/2016									524	6.74	10.6
	1/20/2017									598	7.04	8.8
4/5/2017									446	7.72	10.2	

**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
Gaastra	10/29/2009	<0.20	<0.08	0.98	16.04	<0.2	0.01	-163	0.27	490	7.56	10.3
	2/26/2010	<0.20			19.35	<0.2	0.0086	-146	1.22	584	7.45	10.7
	5/26/2010	<0.20	<0.08	2.44	27.28	0.22	0.0121	-156	0.52	553	7.28	17.3
	10/6/2010	0.11			22.65		0.0103	-201	1.14	597	8.22	15.0
	1/26/2011			2.34				33	1.24	552	7.37	7.9
	4/14/2011									620	6.88	13.8
	4/3/2012									538	7.80	11.3
	4/26/2013									585	7.54	11.4
	4/15/2014									528	7.69	13
	7/17/2014									519	8.41	14.3
	1/14/2016									667	7.94	8.6
	4/12/2016									588	8.05	11
	7/28/2016									550	8.19	13.7
	10/27/2016									593	6.86	10.3
	1/20/2017									564	6.81	8
4/5/2017									547	7.63	9.3	
Rohde	11/4/2009	<0.20	<0.08	0.36	19.88	<0.2	0.0011	-76	0.99	500	7.25	10.0
	2/25/2010	<0.20			21.03	<0.2	<0.0028	0	2.61	606	7.61	9.4
	5/26/2010	<0.20	<0.08	0.25	25.64	<0.2	<0.0028	7	1.19	635	6.42	18.53
	10/6/2010	0.08			26.48		ND	-117	1.91	612	8.08	13.7
	1/26/2011			0				116	3.83	571	7.56	7.36
	4/13/2011									550	6.85	7.5
	4/3/2012									528	7.5	11.5
	4/26/2013									581	7.63	12.7
	4/15/2014									546	7.80	10.7
	4/15/2015									565	7.38	12.8
	4/12/2016									632	7.98	11.5
	4/5/2017									532	7.46	9.5
	6/4/2018									590	7.81	15.3

□ indicates that sample was not analyzed for that parameter

mg/L: milligrams per liter

uS/cm: microsiemens per centimeter

mV: millivolts

ORP: Oxidation-Reduction Potential

°C: Degrees Celsius

* detection range only applies to samples collected on or after 10/2009

** ORP is believed to be incorrect from 2/2007 to 10/2008 due to equipment malfunction

1: April 2017 equipment malfunction, in-field iron test not able to be performed.

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

		Parameters										
Private Well ID	Sampling Date	VOC's							Inorganic			
		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 NR140	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Regularly Monitored Wells												
Baneck Perry/Watkins Perry	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 ¹	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	280	3.2	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	5/22/2002 Dup	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	8/19/2002	ND	ND	ND	ND	ND	ND	ND	300	[3.0]	ND	290
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.75 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 ²	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/29/2009 ³	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
1/28/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/18/2011 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/3/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/26/2013 ¹	0.68	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/15/2014 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/15/2015	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
9/7/2015	Residence connected to city water supply											

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

Private Well ID	Sampling Date	Parameters										
		VOC's							Inorganic			
		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 NR140	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Gaastra	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 ¹	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	270
	8/19/2002	ND	ND	0.24Q	ND	ND	ND	ND	300	ND	ND	280
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003 dup	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/04	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	ND	ND	ND	ND
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2007 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.99 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 ²	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/29/2009 ^{2,3}	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
2/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
1/26/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/14/2011 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/3/2012	ND	ND	ND	ND	ND	ND	ND	0.13J	NA	NA	NA	
4/27/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/26/2013	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/15/2014 ¹	ND	ND	ND	ND	ND	ND	ND	0.41	NA	NA	NA	
5/28/2014	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
7/17/2014	ND	ND	ND	ND	ND	ND	ND	0.30	NA	NA	NA	
4/15/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/13/2015	Residence connected to city water supply											

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

Private Well ID	Sampling Date	Parameters										
		VOC's							Inorganic			
		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	ug/L	mg/L	mg/L	mg/L	mg/L	
WDNR NR140	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Rohde	10/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 ¹	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/4/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	300
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	290
	8/20/2002	ND	ND	ND	ND	ND	ND	ND	300	ND	ND	290
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/28/2006 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 ¹	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 ³	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/4/2009 ³	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
2/25/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
1/26/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/14/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/3/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/26/2013	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/15/2014 ¹	ND	0.34	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/15/2015	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/12/2016	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
4/5/2017	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	
6/4/2018 ⁴	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	

Underline values indicate PAL exceedance

Bold values indicate ES exceedance

Q = detected at less than quantitation limit

B= detected in trip blank

ND= not detected above the level of detection

NA = not analyzed

NR = not required to analyze

PAL = Preventive Action Limit

ES = Enforcement Standard

NE = None Established

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

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

³ Chloromethane was detected and is assumed to be lab introduced

Monitoring began in 1993. See prior report submittals to WDNR for results prior to 2001.

See Table 2 for monitoring wells for Ehster, Hadel and Wiese data

*Began analyzing using method 524.2 with August 2002 event

⁴ CT Laboratories began analyzing samples in June 2018.

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

Leachate Well ID	Year	Date	Parameter																						
			Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether
LC-1	1993	5/12	ND	ND	ND	ND	ND	ND	NA	25	25	ND	ND	410	92	NA	NA	ND	NA	170	NA	18J	76	320	NA
		5/12 Dup	ND	ND	ND	ND	ND	ND	NA	36	36	43	ND	550	110	NA	NA	ND	NA	290	NA	ND	71	410	NA
		6/24	1J	ND	ND	ND	5	ND	NA	1	1	0.8J	ND	13	12	NA	NA	ND	NA	20	NA	ND	6	85	NA
		6/24 Dup	ND	ND	ND	ND	6D	ND	NA	2	2	1D	ND	13D	11D	NA	NA	ND	NA	23D	NA	ND	7D	82D	NA
	1996	5/10	2.2	ND	ND	ND	ND	4J	ND	ND	ND	ND	ND	0.46J	4J	NA	ND	ND	NA	ND	ND	ND	ND	86	NA
		10/31	ND	ND	ND	0.58J	1.5	ND	ND	ND	ND	ND	ND	ND	8.3	NA	ND	ND	NA	4.7	ND	ND	ND	280	NA
	1997	5/13	1.7	ND	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/28	3.6	5.9	ND	0.23	9.4	ND	ND	ND	ND	0.87	ND	ND	3.6	6.8	ND	ND	97	1.2	ND	ND	ND	29	1.1
	1998	4/14	3.8	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	110	ND	ND	ND	ND	50	ND
		10/14	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	19	18	ND	ND	NA	ND	ND	ND	ND	100	ND
	1999	4/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2000	5/02*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/30*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2001	5/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8/19*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2003	4/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	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	
	2005	*	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	
	2007	*	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	
	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	
	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	
	2011	4/14*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2012	4/4*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2013	4/24*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2014	4/15*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2015	4/15*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2016	4/12*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2017	4/5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2018	6/4 ¹	57	ND	ND	580	ND	ND	13 J	ND	ND	130	ND	ND	620	1800	310	ND	220 J	85	ND	ND	ND	2700	ND	

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

Leachate Well ID	Year	Date	Parameter																						
			Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether
LC-2	1993	5/12	5	ND	ND	18	ND	ND	ND	ND	ND	380D	ND	ND	49	NA	NA	ND	NA	71	NA	ND	ND	160D	NA
		6/24	10	ND	ND	20	ND	ND	ND	ND	ND	170D	ND	ND	54	NA	NA	ND	NA	27	NA	ND	ND	180	NA
	1996	5/10	4.0	ND	ND	10	5	ND	ND	NA	NA	ND	0.2J	ND	ND	NA	NA	ND	NA	0.6J	NA	ND	ND	20	NA
		10/31	6.6	ND	ND	24	8.1	ND	ND	ND	ND	11	0.22J	3.1	42	NA	NA	2.7	NA	6.8	NA	0.56J	ND	140	NA
	1997	5/13	5.8	ND	ND	17	ND	ND	ND	ND	ND	8.3	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	34	ND
		10/28	7.0	2.3	ND	25	6.4	ND	ND	0.59	0.23	8.2	ND	ND	18	8.9	ND	ND	240J	1.4	0.18	ND	ND	40	1.6
	1998	4/14	ND	ND	ND	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	ND
		10/14	4.0	NA	NA	91	ND	ND	ND	ND	ND	18	ND	ND	45	7.1	ND	ND	NA	ND	ND	ND	ND	39	1.3
	1999	4/7	6.2	NA	NA	44	ND	ND	ND	ND	ND	28	ND	ND	150	7.1	2.8	ND	NA	ND	ND	ND	ND	380	ND
		10/28	8.0	ND	NA	45	ND	ND	ND	ND	ND	30	ND	ND	280	12	ND	ND	240	ND	ND	ND	ND	750	ND
	2000	5/02	8.1	ND	ND	45	ND	ND	ND	ND	ND	30	ND	ND	190	3.6	ND	ND	190	ND	ND	ND	ND	670	ND
		10/30	10	ND	NA	47	ND	ND	ND	ND	ND	33	ND	ND	130	ND	ND	ND	200	0.68	ND	ND	ND	430	2.0
	2001	5/09	ND	ND	NA	ND	ND	ND	1.0	ND	ND	19	ND	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	ND
		10/9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5	13	NA	NA	67	ND	ND	ND	ND	ND	39	ND	ND	180	13	7	ND	NA	ND	ND	ND	ND	720	ND
		5/22	14	NA	NA	51	ND	ND	ND	ND	ND	33	ND		96	ND	ND	ND	ND	ND	ND	ND	ND	570	NA
	2003	4/22	12	ND	ND	43	ND	ND	ND	ND	ND	30	ND	ND	210	10	NA	ND	170	ND	NA	ND	ND	980	ND
	2004	4/28	9	ND	ND	30	1.8 Q	ND	ND	ND	ND	23	ND	ND	88	4.4	NA	ND	130	1.5 Q	NA	ND	ND	470 D	0.87 Q
	2005	8/3	11	ND	ND	43	ND	ND	ND	ND	ND	25	ND	ND	92	3.7	NA	ND	180	ND	NA	ND	ND	770	ND
	2006	4/28	13	ND	ND	45	ND	ND	ND	ND	ND	33	ND	ND	85	17	NA	ND	220	ND	NA	ND	ND	1100	ND
	2007	5/02	12	ND	ND	50	ND	ND	ND	ND	ND	22	ND	ND	52	6.3	NA	ND	170	ND	NA	ND	ND	780	ND
	2008	5/6	7.6	ND	ND	58.2	ND	ND	ND	ND	ND	13.1	ND	ND	43.3	11.3	NA	ND	128	2.1	NA	ND	ND	337	ND
	2009	4/9	10.9	ND	ND	45.9	ND	ND	ND	ND	ND	16.3	ND	ND	91.3	6.9J	NA	ND	138	ND	NA	ND	ND	618	ND
	2010	5/26	13.7	ND	ND	45.2	ND	ND	ND	ND	ND	18.6	ND	ND	ND	12.7J	ND	ND	187	ND	ND	ND	ND	953	ND
	2011	4/14	17	ND	ND	42	ND	ND	ND	ND	ND	18.5	ND	ND	60.5	7.5J	ND	ND	151	ND	ND	ND	ND	876	ND
	2012	4/4	15.6	ND	ND	58.5	ND	ND	ND	ND	ND	17.8	ND	ND	38.6	27	ND	ND	245	ND	ND	ND	ND	867	ND
	2013	4/24	13.6	ND	ND	43	ND	ND	ND	ND	ND	17.8	ND	ND	38.6	27	ND	ND	245	ND	ND	ND	ND	867	ND
	2014	4/15	12.1	ND	ND	42.5	ND	ND	ND	ND	ND	17.5	ND	ND	36.5	5.6J	ND	ND	172	1.1J	ND	ND	ND	716	ND
	2015	4/15	10.9	ND	ND	41.9	ND	ND	ND	ND	ND	16.9	ND	ND	34	10.3J	ND	ND	185	ND	ND	ND	ND	643	1.1J
	2016	4/12	9.8	ND	2.6 J	43.9	ND	ND	ND	ND	ND	15.7	ND	ND	13.5	ND	ND	ND	137	ND	ND	ND	ND	531	0.89 J
2017	4/5	10.8	ND	ND	68.3	ND	ND	ND	ND	ND	15.6	ND	ND	5.8	ND	ND	ND	151	ND	ND	ND	ND	499	1.0 J	
2018	6/4 ¹	14	ND	ND	75	ND	ND	1.4 J	ND	ND	18	ND	ND	21	12.00	9.80	ND	170	1.1 J	ND	ND	0.77 J	590	1.4 J	

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

Leachate Well ID	Year	Date	Parameter																							
			Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether	
LC-3	1993	5/12*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		6/24*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
		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
	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
		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
	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
		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
	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
		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
	2000	5/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5800	ND	ND	ND	ND	ND	65	ND	ND	330	ND	ND	ND
		10/30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
		10/9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
		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
	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
	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
	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
	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
	2007	5/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	13	ND	NA	ND	290	35	NA	ND	13	65	ND	ND
	2008	5/6*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2009	4/9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	296	2.2	ND	NA	ND	22	13.6	NA	22	11.3	17.3	<6.1	ND
	2010	5/26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1180	ND	ND	ND	ND	20.6J	29.8	ND	23.8	14.5	47.5	ND	ND
	2011	4/14	ND	63.7J	6.2	ND	ND	ND	ND	4.3J	ND	ND	ND	373	16.5	ND	ND	ND	38.9	81.2	ND	19.6	25.8	79.4	ND	ND
	2012	4/4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	867	17.4	ND	ND	ND	30.0 J	82.9	ND	18.3	79.5	83.7	ND	ND
	2013	4/24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	573	15.5	ND	ND	ND	ND	71.2	ND	18.4	50.9	91.9	ND	ND
	2014	4/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	417	20.6	ND	ND	ND	22.4J	89.2	ND	8.6J	49.8	95.6	ND	ND
	2015	4/15	ND	ND	2.7J	ND	ND	ND	ND	ND	ND	ND	ND	352	2.4J	ND	ND	ND	11.7J	9.5	ND	7.9	18.5	14.4	ND	ND
2016	4/12	ND	ND	8.3 J	ND	ND	ND	ND	ND	ND	ND	ND	162	2.3 J	ND	ND	ND	24.8	14	ND	7.2	20	18.2	ND	ND	
2017	4/5	ND	72.4 J	6.1 J	ND	ND	ND	ND	ND	ND	ND	ND	83.8	13.5	ND	ND	ND	55.9	81.2	NA	4.2 J	16.5	81.7	ND	ND	
2018	6/4 ¹	0.84	ND	1.2 J	0.83 J	ND	0.52 J	ND	ND	ND	3	ND	86	8	ND	ND	0.54 J	40	31	ND	5.7	14	60	ND	ND	

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
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.

¹ CT Laboratories began analyzing samples in June 2018. Low Level 8260C analysis performed and reported.

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages	
LC-1	11:31	3/20/2006	61.5	37.7	0.7	0.1	pre-startup	
	10:02	3/22/2006	43.6	26.3	6.4	23.7		
	15:32	3/22/2006	56.0	33.3	3.8	6.9		
	8:29	3/23/2006	50.1	29.5	4.3	16.1		
	16:35	3/23/2006	44.2	24.6	4.9	26.3		
	15:40	3/24/2006	18.8	11.8	15.9	53.5		
	14:25	3/28/2006	7.0	8.7	10.8	73.5		
	18:58	3/30/2006	15.8	21.0	6.9	56.3		
	13:50	4/5/2006	11.2	17.1	9.8	61.9		
	12:50	4/6/2006	6.2	9.0	13.9	70.9		
	13:10	4/11/2006	9.6	16.7	8.6	65.1		
	10:45	4/14/2006	11.2	17.9	7.2	63.7		
	15:26	4/14/2006	12.2	24.1	4.0	59.7		
	9:58	4/17/2006	16.7	30.2	5.3	47.8		
	19:12	4/27/2006	7.8	17.5	2.9	71.8		
	13:12	5/4/2006	6.1	18.7	2.0	73.2		
	10:17	5/22/2006	5.8	21.6	1.3	71.3		
	12:20	6/2/2006	18.0	22.7	0.6	58.7		
	8:20	6/9/2006	1.1	0.2	20.4	78.3		
	12:34	6/14/2006	3.9	0.6	20.2	75.3		
	10:41	6/22/2006	3.3	7.6	13.8	75.3		
	12:06	7/5/2006	3.7	12.5	10.1	73.7		
	11:31	7/10/2006	3.5	10.9	11.8	73.8		
	10:49	7/17/2006	3.9	10.7	11.8	73.6		
	14:00	7/28/2006	5.0	12.0	10.2	72.8		
	9:46	8/8/2006	2.7	9.5	12.9	74.9		
	7:20	8/16/2006	2.4	6.6	14.5	76.5		
	7:12	8/21/2006	0.1	0.2	15.1	84.6		
	14:07	8/28/2006	2.1	12.5	12.4	73.0		
	11:21	9/13/2006	0.6	0.6	13.3	85.5		
	11:19	9/25/2006	0.0	0.0	16.2	83.8		
	8:18	10/10/2006	2.7	8.4	14.8	74.1		
	8:19	10/23/2006	2.0	1.5	12.8	83.7		
	14:00	11/2/2006	3.8	21.6	1.7	72.9		
	14:54	11/14/2006	7.5	23.0	0.7	68.8		
	11:26	11/27/2006	5.5	23.0	0.4	71.1		
	12:57	12/26/2006	5.0	23.6	0.3	71.1		
	13:57	1/27/2007	9.5	22.8	0.3	67.4		
	11:20	2/24/2007	6.5	23.0	0.8	69.7		
	11:20	3/1/2007	17.5	23.2	1.8	57.5		
	12:28	3/1/2007	16.5	23.2	1.8	58.5		
	14:30	3/1/2007	15.5	22.8	1.6	60.1		
	8:10	3/5/2007	sampling port clogged with ice				adjust blower time, 12 on, 12 off	
	8:10	3/24/2007	15.5	23.0	1.8	59.7		
16:55	3/24/2007	14.0	22.2	2.2	61.6			
17:10	3/26/2007	11.0	21.6	2.2	65.2			
7:28	3/27/2007	10.0	22.4	1.7	65.9			
16:27	3/28/2007	11.0	22.8	1.5	64.7			
8:04	3/29/2007	11.5	23.0	1.5	64.0			
17:00	3/29/2007	11.0	22.8	1.5	64.7			
8:04	3/30/2007	13.0	24.0	1.0	62.0	blower off		
11:34	5/30/2007	43.0	28.0	2.0	27.0	restart and run 24 hrs		
13:35	5/30/2007	40.0	26.2	2.6	31.2			
10:30	5/31/2007	0.1	0.0	20.7	79.2	reduce to 12 on 12 off		
16:32	6/1/2007	0.1	0.0	20.7	79.2			
15:30	6/2/2007	20.0	22.8	1.7	55.5			
16:09	6/3/2007	18.0	22.2	1.9	57.9			
14:12	6/4/2007	16.5	21.8	2.2	59.5	reduce to 6 on 18 off		
15:10	6/7/2007	17.0	21.6	2.3	59.1			
17:16	6/12/2007	10.5	21.0	2.1	66.4			
14:49	6/14/2007	11.0	20.8	2.2	66.0			
14:40	6/19/2007	10.5	21.0	2.2	66.3			

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-1	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
	12:00	1/8/2009	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	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-1	9:25	9/8/2009	10.0	21.6	0.6	67.8	
	9:20	9/21/2009	15.0	23.8	0.0	61.2	
	10:15	10/5/2009	15.0	23.8	0.1	61.1	
	11:00	10/28/2009	16.0	23.2	1.3	59.5	
	10:50	11/16/2009	7.5	21.8	0.8	69.9	
	10:00	12/18/2009	24.0	23.8	0.0	52.2	
	9:10	12/28/2009	27.0	27.0	0.0	46.0	
	9:50	1/11/2010	24.0	26.0	0.0	50.0	
	8:30	1/26/2010	26.0	26.0	0.0	48.0	
	12:00	2/25/2010	19.5	24.6	0.0	55.9	
	9:50	3/8/2010	20.0	24.0	0.0	56.0	
	9:25	3/22/2010	18.0	23.0	0.0	59.0	
	9:28	4/5/2010	17.0	23.0	0.0	60.0	
	9:18	4/19/2010	16.5	23	0	60.5	
	9:22	5/3/2010	20.0	23.6	0.0	56.4	
	9:47	5/17/2010	20.0	24.0	0.0	56.0	
	9:10	5/25/2010	10.5	22.8	0.0	66.7	
	9:15	6/24/2010	13.0	21.0	1.4	64.6	
	10:15	7/6/2010	6.0	20.4	1.5	72.1	
	9:08	7/19/2010	7.0	19.6	3.0	70.4	
	9:00	8/2/2010	6.5	19.4	2.2	71.9	
	9:50	8/16/2010	12.5	21.6	1.1	64.8	
	8:52	8/30/2010	21.0	24.2	0.7	54.1	
	9:08	9/13/2010	26.5	25.2	1.1	47.2	
	9:40	9/28/2010	29.5	26.0	1.1	43.4	
	8:05	10/12/2010	24.5	25.2	1.7	48.6	
	9:22	10/25/2010	24.5	25.4	1.1	49.0	
	9:36	11/2/2010	16.0	24.2	1.5	58.3	
	8:49	11/15/2010	15.5	23.4	1.5	59.6	
	9:45	12/10/2010	14.0	22.8	1.5	61.7	
	9:00	12/23/2010	15.5	22.6	1.6	60.3	
	9:18	1/10/2011	11.5	22.2	1.6	64.7	
	12:15	2/11/2011	34.0	24.6	1.7	39.7	
	9:20	3/7/2011	4.9	15.2	6.5	73.5	
	11:50	3/24/2011	19.5	22.2	0.7	57.6	
	8:55	4/6/2011	22.9	23.4	0.3	53.4	
	8:19	4/25/2011	23.5	23.0	0.6	52.9	
	8:52	5/9/2011	34.5	24.6	0.3	40.6	
	9:12	5/23/2011	38.0	25.4	0.3	36.3	
	10:50	6/6/2011	40.0	26.0	0.3	33.7	
	9:08	6/15/2011	41.5	26.2	0.3	32.0	
	9:15	7/5/2011	35.5	26.0	0.3	38.2	
8:06	7/13/2011	31.0	26.0	0.2	42.8		
8:20	7/26/2011	32.0	26.6	0.3	41.1		
8:15	8/8/2011	19.0	24.1	0.3	56.6		
7:50	8/23/2011	16.0	24.4	0.3	59.3		
15:19	9/9/2011	28.5	28.0	0.5	43.0		
16:03	9/15/2011	15.0	25.2	0.8	59.0		
8:31	9/21/2011	17.5	22.8	2.6	57.1		
9:38	9/21/2011	14.5	21.5	3.2	60.8		
9:29	9/22/2011	17.5	24.4	1.6	56.5		
10:11	9/22/2011	16.0	22.2	3.3	58.5		
10:57	9/22/2011	16.0	24.2	1.6	58.2		
10:46	10/3/2011	7.5	21.2	2.4	68.9		
13:55	10/24/2011	11.0	23.0	1.0	65.0		
11:00	10/26/2011	12.0	23.6	1.3	63.1		
10:45	11/7/2011	10.5	23.4	0.5	65.6		
9:20	11/14/2011	14.5	24.0	0.1	61.4		
9:18	12/12/2011	12.7	24.2	0.2	62.9		
10:24	12/27/2011	36.5	27.2	0.2	36.1		

CH4 = Methane

CO2 = Carbon Dioxide

O2 = Oxygen

N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-1	8:45	1/10/2012	24.5	25.4	0.1	50.0	
	10:10	1/25/2012	26.0	27.2	0.3	46.5	
	9:20	2/20/2012	32.5	26.6	0.6	40.3	
	9:10	3/8/2012	30.5	25.4	1.8	42.3	
	10:25	4/2/2012	24.0	25.2	0.9	49.9	
	9:09	4/16/2012	26.5	25.4	0.9	47.2	
	9:00	4/30/2012	16.5	23.0	1.5	59.0	
	9:21	5/14/2012	18.0	22.8	1.7	57.5	
	9:14	5/29/2012	24.5	24.6	1.1	49.8	
	7:57	6/11/2012	27.5	25.4	0.9	46.2	
	9:46	6/25/2012	24.5	25.2	1.0	49.3	
	9:05	7/9/2012	23.0	25.4	0.9	50.7	
	8:40	7/23/2012	7.0	20.2	2.2	70.6	
	8:21	7/25/2012	8.0	20.8	2.0	69.2	
	9:05	8/6/2012	8.0	21.4	1.7	68.9	
	9:31	8/21/2012	9.5	21.6	1.3	67.6	
	9:15	9/4/2012	7.0	19.8	2.0	71.2	
	9:10	10/1/2012	6.0	18.2	4.2	71.6	
	8:30	10/15/2012	4.5	11.4	9.2	75.0	
	7:55	12/6/2012	13.0	21.0	1.3	64.7	
	9:30	12/17/2012	17.0	21.2	0.8	61.0	
	9:00	12/31/2012	24.5	23.6	1.1	50.8	
	8:30	1/9/2013	29.5	24.0	1.1	45.4	
	8:05	1/15/2013	30.0	24.6	0.0	45.4	
	9:11	1/28/2013	27.0	23.4	0.6	49.0	
	10:55	2/11/2013	41.0	27.0	0.0	32.0	
	9:22	2/25/2013	44.5	26.0	0.0	29.5	
	7:40	3/8/2013	48.0	26.4	0.1	25.5	
	8:55	3/22/2013	50.5	26.0	0.1	23.4	
	14:00	4/8/2013	32.0	24.8	0.3	42.9	
	15:20	4/22/2013	12.0	21.6	0.4	66.0	
	9:39	4/29/2013	11.0	20.4	0.1	68.5	
	8:34	5/13/2013	8.0	20.0	0.7	71.3	
	13:40	5/28/2013	9.5	19.4	0.9	70.2	
	8:50	6/7/2013	8.5	19.4	1.1	71.0	
	8:17	6/21/2013	8.0	18.8	1.5	71.7	
	8:50	7/5/2013	7.0	18.8	1.5	72.7	
	7:52	7/22/2013	8.0	19.4	1.6	71.0	
	8:55	8/5/2013	9.5	20.0	1.7	68.8	
	8:24	8/19/2013	11.0	20.2	1.7	67.1	
	8:35	9/5/2013	4.4	8.6	12.6	74.5	
	8:48	9/16/2013	5.0	7.6	14.0	73.4	
	7:40	9/30/2013	14.0	13.4	9.5	63.1	
	7:38	10/14/2013	21.5	17.8	7.5	53.2	
	7:42	10/28/2013	23.5	16.2	9.0	51.3	
8:10	11/19/2013	34.0	22.2	6.1	37.7		
7:35	12/2/2013	38.0	23.8	5.0	33.2		
7:15	12/16/2013	19.0	12.6	12.2	56.2		
7:06	12/27/2013	48.5	28.0	2.9	20.6		
7:08	1/13/2014	54.5	28.6	0.7	16.2		
7:20	1/30/2014	50.0	28.6	0.9	20.5		
7:35	2/12/2014	51.5	28.2	0.9	19.4		
7:50	2/24/2014	35.0	25.0	1.2	38.8		
8:25	3/10/2014	36.0	27.0	1.0	36.0		
8:15	3/24/2014	14.5	18.8	4.8	61.9		
7:30	4/7/2014	18.0	21.4	1.6	59.0		
10:44	4/22/2014	15.0	20.8	1.6	62.6		
7:45	5/7/2014	18.5	21.8	0.8	58.9		
7:45	5/19/2014	16.0	21.8	0.5	61.7		
7:15	5/30/2014	17.5	22.4	0.3	59.8		
7:36	6/16/2014	8.5	20.4	0.6	70.5		
7:55	6/30/2014	6.0	18.4	1.7	73.9		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-1	8:05	7/14/2014	5.0	17.4	2.8	74.8	
	8:05	7/28/2014	3.9	17.0	3.9	75.2	
	8:21	8/11/2014	4.6	16.2	4.4	74.8	
	7:25	8/25/2014	4.3	16.4	4.2	75.2	
	7:45	9/8/2014	4.1	16.0	4.9	75.0	
	7:30	9/22/2014	4.3	16.8	4.5	74.5	
	7:55	10/7/2014	6.0	17.2	3.4	73.4	
	7:50	10/20/2014	7.5	18.4	2.7	71.4	
	7:40	11/3/2014	12.5	20.2	2.3	65.0	
	7:30	11/17/2014	16.5	21.2	2.9	59.4	
	7:35	12/2/2014	19.5	21.2	2.2	57.1	
	7:15	12/15/2014	33.0	25.4	0.0	41.6	blower off
	7:19	12/18/2014	28.0	23.2	2.0	46.8	
	7:31	1/2/2015	28.0	23.4	2.4	46.2	
	7:22	1/16/2015	32.0	22.6	1.6	43.8	
	7:30	1/26/2015	36.0	23.2	1.2	39.6	
	7:35	2/9/2015	33.5	24.6	1.2	40.7	
	8:02	2/24/2015	39.5	24.0	1.4	35.1	
	8:28	3/9/2015	24.5	21.2	1.5	52.8	
	7:25	3/23/2015	9.0	18.2	2.0	70.8	
	7:35	4/6/2015	8.5	18.0	1.7	71.8	
	8:27	4/22/2015	7.6	17.4	2.0	73.0	
	7:21	5/4/2015	8.5	17.0	1.9	72.6	
	7:20	5/18/2015	10.5	18.8	1.5	69.2	
	7:25	6/1/2015	7.5	18.2	2.4	71.9	
	7:30	6/15/2015	7.0	15.0	4.9	73.1	
	7:35	6/29/2015	4.3	8.4	11.8	75.5	
	7:28	7/14/2015	9.0	19.0	1.8	70.2	
	7:24	7/27/2015	7.0	19.2	1.8	72.0	
	7:30	8/10/2015	7.5	18.6	2.2	71.7	
	7:25	8/24/2015	6.5	18.6	2.2	72.7	
	7:40	9/8/2015	7.0	18.2	2.7	72.1	
	7:49	9/21/2015	6.0	19.0	2.6	72.4	
	7:30	10/5/2015	7.5	19.4	2.0	71.1	
	7:35	10/19/2015	8.5	19.8	1.9	69.8	
	7:50	11/2/2015	7.5	19.6	1.8	71.1	
	7:30	11/16/2015	9.5	20.4	1.4	68.7	
	11:00	11/30/2015	10.5	20.6	1.9	67.0	
	7:25	12/15/2015	15.0	21.0	1.1	62.9	
	7:35	12/28/2015	15.0	22.4	0.8	61.8	
8:16	1/9/2016	17.5	20.8	1.4	60.3		
7:50	1/25/2016	22.0	23.6	0.6	53.8		
7:50	2/8/2016	23.0	23.2	1.1	52.7		
7:35	2/22/2016	23.0	21.0	1.0	55.0		
7:47	3/7/2016	23.0	20.4	1.0	55.6		
8:30	3/21/2016	19.5	21.8	0.6	58.1		
7:50	4/4/2016	14.5	21.2	0.6	63.7		
8:25	4/18/2016	18.5	21.6	0.6	59.3		
9:45	5/3/2016	26.5	23.2	0.2	50.1		
7:50	5/16/2016	28.0	24.0	0.3	47.7		
7:45	6/2/2016	29.0	24.2	0.1	46.7		
7:50	6/14/2016	27.0	24.0	0.2	48.8		
7:50	6/27/2016	22.0	21.6	0.2	56.2		
10:20	7/14/2016	18.5	22.8	0.2	58.5		
7:55	7/25/2016	17.5	23.4	0.2	58.9		
7:45	8/8/2016	17.5	23.8	0.2	58.5		
8:33	8/25/2016	16.0	24.4	0.0	59.6		
7:25	9/6/2016	15.5	24.0	0.2	60.3		
10:00	10/3/2016	10.5	22.6	0.4	66.5		
8:12	10/19/2016	8.5	21.4	0.7	69.4		
8:43	10/31/2016	9.5	21.2	1.8	67.5		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-1	8:04	11/14/2016	13.5	22.0	1.0	63.5	
	8:54	11/28/2016	18.5	22.0	1.8	57.7	
	9:08	12/9/2016	17.0	23.2	1.1	58.7	
	7:55	12/22/2016	22.5	23.2	1.2	53.1	
	8:00	1/4/2017	23.0	21.6	2.3	53.1	
	7:30	1/13/2017	22.9	21.2	2.4	53.5	
	7:25	1/27/2017	37.0	24.8	1.5	36.7	
	7:56	2/13/2017	35.5	21.4	1.9	41.2	
	7:55	2/27/2017	39.5	22.4	2.5	35.6	
	8:20	3/13/2017	44.5	23.6	2.0	29.9	
	7:25	3/28/2017	41.0	24.0	1.8	33.2	
	8:08	4/12/2017	43.5	24.0	1.8	30.7	
	7:45	4/18/2017	40.0	24.2	1.7	34.1	
	7:12	4/25/2017	43.0	25.6	1.5	29.9	
	7:20	5/8/2017	38.0	25.0	1.8	35.2	
	7:30	5/22/2017	32.5	24.4	1.5	41.6	
	7:46	6/5/2017	26.0	24.6	1.4	48.0	
	7:35	6/19/2017	14.5	23.0	1.3	61.2	
	8:27	7/4/2017	14.0	24.0	0.3	61.7	
	7:45	7/18/2017	18.5	25.4	0.0	56.1	
	7:47	8/1/2017	21.0	26.0	0.0	53.0	
	7:54	8/14/2017	23.0	26.4	0.0	50.6	
	8:08	8/29/2017	23.0	26.8	0.1	50.1	
	7:56	9/12/2017	26.0	27.6	0.0	46.4	
	8:08	9/25/2017	25.0	27.4	0.1	47.5	
	8:11	10/10/2017	22.0	27.2	0.3	50.5	
	7:49	10/23/2017	25.0	26.8	0.1	48.1	
	7:57	11/6/2017	23.5	26.8	0.1	49.6	
	8:04	11/17/2017	26.5	27.0	0.1	46.4	
	8:01	12/1/2017	25.0	26.2	0.2	48.6	
	8:11	12/18/2017	27.5	26.4	0.2	45.9	
	8:47	1/3/2018	31.5	25.4	0.4	42.7	
	7:57	1/11/2018	36.5	26.2	0.2	37.1	
	7:50	1/26/2018	8.5	17.8	4.2	69.5	
	8:10	2/13/2018	NM	NM	NM	NM	Not measured. Unable to thaw to get readings
	7:42	2/27/2018	7.5	17.8	1.8	72.9	
	7:42	3/13/2018	4.2	11.8	7.7	76.4	
	8:04	3/28/2018	7.0	18.0	1.2	73.8	
	8:18	4/10/2018	9.0	19.2	0.6	71.2	
	7:47	4/25/2018	10.5	19.2	0.5	69.8	
8:04	5/8/2018	3.1	4.0	16.6	76.4		
7:51	5/21/2018	3.0	4.6	16.0	76.4		
8:08	6/5/2018	2.8	3.8	16.9	76.5		
7:56	6/20/2018	2.9	3.6	17.4	76.1		
8:04	6/28/2018	2.8	3.2	17.8	76.3		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	11:09	3/20/2006	61.9	36.8	1.0	0.3	pre-startup
	9:52	3/22/2006	50.2	28.3	4.9	16.6	
	15:51	3/22/2006	49.9	35.2	7.4	7.5	
	8:52	3/23/2006	45.2	27.1	6.8	20.9	
	16:52	3/23/2006	54.3	32.5	3.5	9.7	
	15:20	3/24/2006	25.5	14.8	15.3	44.4	
	15:10	3/28/2006	18.7	12.0	13.5	55.8	
	19:09	3/30/2006	52.6	28.7	3.7	15.0	
	13:45	4/5/2006	35.5	20.5	8.2	35.8	
	13:25	4/6/2006	33.4	21.0	9.1	36.5	
	13:35	4/11/2006	33.4	21.7	9.9	35.0	
	10:57	4/14/2006	58.5	39.5	2.0	0.0	
	15:56	4/14/2006	33.6	20.0	7.9	38.5	
	10:20	4/17/2006	30.0	20.0	4.3	45.7	
	19:59	4/27/2006	51.7	26.8	4.2	17.3	
	13:28	5/4/2006	43.6	24.8	4.2	27.4	
	12:00	5/22/2006	48.8	28.9	4.3	18.0	
	8:41	6/9/2006	34.2	20.0	10.5	35.3	
	13:05	6/14/2006	30.1	20.2	8.3	41.4	
	11:05	6/22/2006	45.1	35.4	5.1	14.4	
	12:09	7/5/2006	44.4	44.5	5.8	5.3	
	10:50	7/10/2006	0.1	0.2	5.4	94.3	
	10:15	7/17/2006	42.7	32.7	5.8	18.8	
	14:15	7/28/2006	43.6	33.4	4.7	18.3	
	9:51	8/8/2006	45.4	36.2	4.1	14.3	
	9:30	8/16/2006	31.2	24.6	8.6	35.6	
	8:38	8/21/2006	2.4	10.2	3.7	83.7	
	14:22	8/28/2006	20.0	36.2	4.2	39.6	
	11:36	9/13/2006	28.2	37.0	4.0	30.8	
	11:34	9/25/2006	2.4	0.8	5.9	90.9	
	8:32	10/10/2006	49.8	41.7	5.1	3.4	
	8:42	10/23/2006	37.8	29.5	7.6	25.1	
	14:20	11/2/2006	42.5	28.4	3.6	25.5	
	15:16	11/14/2006	39.5	28.2	3.5	28.8	
	11:40	11/27/2006	48.5	33.2	0.3	18.0	
	13:30	12/26/2006	44.0	29.4	2.6	24.0	
	14:10	1/27/2007	44.5	27.6	3.1	24.8	
	11:28	2/24/2007	9.0	0.2	20.5	70.3	
	11:02	3/1/2007	37.2	28.2	1.5	33.1	
	12:26	3/1/2007	36.0	29.0	1.5	33.5	
	14:45	3/1/2007	33.0	27.6	2.1	37.3	
	8:05	3/5/2007	1.1	1.0	19.7	78.3	adjust blower time, 12 on, 12 off
	8:00	3/24/2007	36.0	28.4	1.2	34.4	
	16:45	3/24/2007	36.0	28.0	1.0	35.0	
17:00	3/26/2007	33.5	27.4	0.9	38.2		
7:19	3/27/2007	33.5	27.4	1.0	38.1		
16:35	3/28/2007	36.0	28.2	0.9	34.9		
7:50	3/29/2007	36.5	28.6	0.8	34.1		
16:52	3/29/2007	35.5	28.2	0.7	35.6		
7:56	3/30/2007	11.5	11.0	11.5	66.0	blower off	
11:45	5/30/2007	44.5	27.4	1.9	26.2	restart and run 24 hrs	
13:45	5/30/2007	46.0	28.2	1.5	24.3		
10:20	5/31/2007	40.0	26.0	1.3	32.7	reduce to 12 on 12 off	
16:25	6/1/2007	40.5	25.4	1.4	32.7		
15:20	6/2/2007	40.5	25.4	1.2	32.9		
16:00	6/3/2007	39.5	25.2	1.4	33.9		
14:04	6/4/2007	39.5	25.2	1.5	33.8	reduce to 6 on 18 off	
14:43	6/7/2007	39.5	25.0	1.4	34.1		
16:46	6/12/2007	40.5	25.6	1.2	32.7		
14:20	6/14/2007	40.5	25.4	1.2	32.9		
13:55	6/19/2007	39.5	25.8	1.2	33.5		
14:00	6/21/2007	39.5	25.4	1.5	33.6		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	13:50	7/11/2007	38.0	25.8	1.5	34.7	
	13:30	7/23/2007	38.5	26.6	1.4	33.5	
	14:17	8/8/2007	38.5	27.8	1.2	32.5	
	14:00	8/13/2007	38.5	28.2	1.5	31.8	
	13:20	8/20/2007	34.5	25.2	3.1	37.2	
	13:45	8/28/2007	36.5	27.8	1.3	34.4	
	15:30	8/31/2007	30.0	26.0	2.5	41.5	
	14:25	9/4/2007	26.0	26.0	2.0	46.0	
	12:55	9/17/2007	17.5	23.6	3.2	55.7	
	9:15	9/29/2007	17.5	23.8	2.9	55.8	
	8:15	10/4/2007	18.5	25.0	1.8	54.7	
	9:15	10/7/2007	19.0	25.2	1.7	54.1	
	9:30	10/18/2007	17.5	21.4	4.2	56.9	
	8:35	10/25/2007	23.0	25.2	2.3	49.5	
	8:50	11/1/2007	26.5	27.0	1.0	45.5	
	9:55	11/13/2007	28.0	25.8	1.8	44.4	
	11:05	11/26/2007	27.0	25.4	2.0	45.6	
	10:30	12/10/2007	26.0	25.8	2.1	46.1	
	11:15	12/26/2007	26.0	25.0	2.0	47.0	
	9:40	1/9/2008	24.5	21.6	4.7	49.2	
	11:58	1/23/2008	19.0	18.2	7.4	55.4	
	8:50	2/4/2008	17.0	15.4	9.4	58.2	
	7:20	2/18/2008	25.5	20.4	6.3	47.8	
	7:15	3/4/2008	30.5	21.2	7.1	41.2	
	8:25	3/18/2008	32.5	22.6	5.5	39.4	
	13:45	5/12/2008	43.0	25.8	2.5	28.7	
	8:45	5/19/2008	41.0	26.0	2.0	31.0	
	13:20	5/30/2008	31.0	23.6	3.2	42.2	
	8:35	6/12/2008	35.5	20.0	1.3	43.2	
	8:45	6/25/2008	33.0	24.8	3.6	38.6	
	10:45	7/7/2008	32.0	27.0	1.7	39.3	opened GV-6 to 200 ft/min
	12:20	7/21/2008	34.5	28.2	1.5	35.8	
	10:00	8/5/2008	34.5	27.6	2.1	35.8	
	9:20	8/13/2008	36.5	27.8	2.8	32.9	increase to 12 on 12 off
	9:05	8/19/2008	40.0	29.6	0.4	30.0	
	14:40	9/2/2008	34.0	29.6	1.3	35.1	
	11:49	10/3/2008	34.5	29.4	1.8	34.3	
	10:25	10/13/2008	36.5	29.8	1.7	32.0	
	9:35	10/28/2008	38.5	30.2	2.4	28.9	
	8:00	11/6/2008	39.0	30.4	1.5	29.1	
	10:55	12/8/2008	41.5	32.2	1.2	25.1	
	9:50	12/24/2008	23.0	20.8	7.0	49.2	decrease to 10 on
11:20	1/8/2009	25.0	23.4	5.1	46.5		
11:35	1/18/2009	13.5	19.8	5.5	61.2		
7:45	1/27/2009	35.5	31.0	0.7	32.8		
8:15	2/6/2009	26.5	25.2	3.5	44.8		
10:15	2/23/2009	23.5	25.8	2.0	48.7	decrease to 8 on	
9:50	3/9/2009	23.0	23.8	3.7	49.5		
9:40	3/20/2009	29.5	28.6	0.5	41.4		
12:25	4/9/2009	47.0	18.6	2.0	32.4		
10:15	4/19/2009	35.0	28.2	0.3	36.5		
8:15	5/4/2009	29.0	27.8	0.3	42.9		
8:30	5/18/2009	27.5	28.2	0.0	44.3		
9:45	6/1/2009	23.0	26.8	0.0	50.2		
9:20	6/14/2009	23.5	27.6	0.0	48.9		
9:00	7/2/2009	26.5	26.0	1.3	46.2		
7:45	7/13/2009	32.0	28.6	0.0	39.4		
8:30	7/22/2009	33.9	28.6	0.0	37.5		
9:10	8/11/2009	31.0	29.0	0.0	40.0		
9:00	8/24/2009	27.5	29.0	0.0	43.5	decrease to 6 on 18 off	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	9:45	9/8/2009	30.5	29.6	0.0	39.9	
	9:38	9/21/2009	30.5	27.0	1.5	41.0	
	10:40	10/5/2009	38.5	30.8	0.0	30.7	
	10:50	10/28/2009	43.5	31.8	0.0	24.7	
	11:15	11/16/2009	40.0	30.6	0.6	28.8	
	9:50	12/18/2009	44.5	33.0	0.1	22.4	
	8:50	12/28/2009	49.0	33.2	0.0	17.8	
	9:00	1/11/2010	50.0	33.4	0.0	16.6	
	8:39	1/26/2010	55.5	33.6	0.0	10.9	
	11:50	2/25/2010	45.0	27.8	3.3	23.9	
	9:40	3/8/2010	53.5	31.8	0.0	14.7	
	9:10	3/22/2010	52.5	30.8	0.4	16.3	
	9:15	4/5/2010	52.5	30.8	0.2	16.5	
	9:30	4/19/2010	53.5	31.0	0.3	16.5	
	9:30	5/3/2010	52.5	30.8	0.0	16.7	
	10:10	5/17/2010	51.5	30.6	0.4	17.5	
	9:10	5/25/2010	50.0	30.8	0.2	19.0	
	9:30	6/24/2010	41.0	27.8	1.6	29.6	
	10:30	7/6/2010	37.5	27.8	1.6	33.1	
	9:18	7/19/2010	34.5	27.4	1.7	36.4	
	9:20	8/2/2010	32.0	27.4	1.7	38.9	
	10:05	8/16/2010	35.0	29.0	1.1	34.9	
	9:10	8/30/2010	39.5	30.4	0.0	30.1	
	9:26	9/13/2010	41.5	30.6	1.1	26.8	
	10:00	9/28/2010	44.5	31.0	1.1	23.4	
	8:12	10/12/2010	44.5	31.0	1.8	22.7	
	9:37	10/25/2010	48.0	32.2	1.3	18.5	
	9:36	11/2/2010	50.0	32.6	1.6	15.8	
	9:15	11/15/2010	48.0	32.4	1.6	18.0	
	9:55	12/10/2010	44.5	32.2	1.6	21.7	
	9:15	12/23/2010	43.5	32.6	1.6	22.3	
	9:30	1/10/2011	43	31.4	2.3	23.3	
	11:45	2/11/2011	52.0	30.8	1.5	15.7	
	9:30	2/22/2011	12.0	8.4	15.1	64.5	
	9:05	3/7/2011	13.0	9.2	14.5	63.3	
	12:10	3/24/2011	47.5	31.0	0.4	21.1	
	9:15	4/6/2011	49.5	30.8	0.3	19.4	
	8:08	4/25/2011	51.0	29.4	1.3	18.3	
	9:08	5/9/2011	53.5	29.8	0.6	16.1	
	9:31	5/23/2011	46.0	25.8	3.3	24.9	
	11:05	6/6/2011	57.0	30.0	0.6	12.4	
	9:21	6/15/2011	58.0	30.6	0.7	10.7	
	9:30	7/5/2011	60.5	30.2	0.8	8.5	
	8:10	7/13/2011	57.0	28.4	2.0	12.6	
	8:30	7/26/2011	63.5	30.6	0.6	5.3	
	8:30	8/8/2011	60.5	31.4	0.6	7.5	
	8:10	8/23/2011	57.5	31.8	0.7	10	
15:15	9/9/2011	60.0	33.2	0.9	5.9		
16:03	9/15/2011	62.0	33.6	1.1	3.3		
8:40	9/21/2011	58.0	32.4	1.5	8.1		
9:45	9/21/2011	60.0	34.2	0.8	5		
9:35	9/22/2011	53.0	31.2	2.7	13.1		
10:15	9/22/2011	60.0	34.0	1.1	4.9		
11:04	9/22/2011	53.5	30.2	3.0	13.3		
10:53	10/3/2011	47.0	33.2	1.1	18.7		
14:00	10/24/2011	23.0	21.4	4.6	51		
12:08	10/26/2011	51.8	34.8	0.6	12.8		
10:59	11/7/2011	44.5	33.8	0.5	21.2		
9:35	11/14/2011	46.0	33.8	0.2	20		
9:30	12/12/2011	49.5	34.8	0.3	15.4		
10:41	12/27/2011	49.0	34.0	0.2	16.8		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	9:00	1/10/2012	52.0	34.4	0.1	13.5	
	10:00	1/25/2012	48.0	34.8	0.4	16.8	
	9:35	2/20/2012	54.5	33.6	0.0	11.9	
	9:30	3/8/2012	53.5	31.6	1.0	13.9	
	10:30	4/2/2012	54.5	31.2	1.1	13.2	
	9:25	4/16/2012	43.0	25.4	4.4	27.2	
	9:30	4/30/2012	47.5	28.2	2.6	21.7	
	9:35	5/14/2012	48.0	28.2	2.4	21.4	
	9:30	5/29/2012	49.5	29.0	1.9	19.6	
	8:04	6/11/2012	51.0	29.2	4.7	15.1	
	9:59	6/25/2012	53.0	29.6	1.5	15.9	
	9:15	7/9/2012	50.5	28.6	2.2	18.7	
	8:55	7/23/2012	43.5	29.2	1.9	25.4	
	8:15	7/25/2012	44.0	29.4	2.0	24.6	
	9:21	8/6/2012	43.0	30.2	1.5	25.3	
	9:50	8/21/2012	40.0	30.0	1.6	28.4	
	9:30	9/4/2012	36.0	29.4	1.9	32.7	
	10:00	10/1/2012	29.5	27.6	2.6	40.3	
	8:48	10/15/2012	16.0	15.8	9.7	58.5	
	8:05	12/6/2012	8.5	6.6	17.8	67.1	Using rental meter
	9:15	12/17/2012	7.2	10.0	14.9	67.9	Using rental meter
	9:20	12/31/2012	8.0	6.6	16.4	69	Using rental meter
	8:30	1/9/2013	40.0	27.0	1.9	31.1	
	10:05	1/16/2013	42.0	29.0	1.2	27.8	
	9:30	1/28/2013	57.5	33.8	0.2	8.5	
	11:00	2/11/2013	59.0	35.0	0.6	5.4	
	9:42	2/25/2013	53.5	31.0	2.6	12.9	
	8:00	3/8/2013	63.0	35.8	0.1	1.1	
	9:15	3/22/2013	56.0	34.4	0.6	9.0	
	14:10	4/8/2013	52.0	29.0	0.5	18.5	
	15:30	4/22/2013	49.5	29.4	0.5	20.6	
	9:50	4/29/2013	43.0	27.6	0.5	28.9	
	8:45	5/13/2013	38.0	27.4	1.2	33.4	
	13:59	5/28/2013	33.0	26.0	1.6	39.4	
	9:00	6/7/2013	31.5	25.4	2.1	41.0	
	8:30	6/21/2013	30.5	25.4	1.7	42.4	
	9:00	7/5/2013	29.5	24.8	1.8	43.9	
	8:05	7/22/2013	29.5	25.8	1.5	43.2	
	9:05	8/5/2013	29.5	25.4	2.6	42.5	
	8:35	8/19/2013	31.0	25.8	2.0	41.2	
	8:45	9/5/2013	13.5	11.6	12.5	62.4	
	9:00	9/16/2013	12.5	10.4	13.4	63.7	
	7:50	9/30/2013	19.5	15.2	10.4	54.9	
	7:50	10/14/2013	26.5	20.0	7.7	45.8	
	7:50	10/28/2013	23.0	16.6	9.8	50.6	
	8:25	11/19/2013	32.5	22.8	5.9	38.8	
	7:50	12/2/2013	37.5	24.8	5.0	32.7	
	7:25	12/16/2013	22.0	15.6	11.3	51.1	
	7:13	12/27/2013	44.5	29.2	1.9	24.4	
	7:16	1/13/2014	48.5	29.0	1.0	21.5	
7:40	1/30/2014	49.5	30.0	1.3	19.2		
7:45	2/12/2014	51.0	30.6	1.8	16.6		
8:08	2/24/2014	49.0	28.0	2.1	20.9		
8:20	3/10/2014	53.0	29.6	1.6	15.8		
8:30	3/24/2014	43.5	23.4	5.4	27.7		
7:40	4/7/2014	49.5	26.2	2.5	21.8		
10:53	4/22/2014	45.5	25.4	2.6	26.5		
8:05	5/7/2014	48.0	27.8	1.1	23.1		
8:00	5/19/2014	49.0	27.8	1.1	22.1		
7:25	5/30/2014	47.5	27.8	1.3	23.4		
7:50	6/16/2014	42.5	27.2	1.3	29.0		
8:15	6/30/2014	32.5	26.2	1.2	40.1		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	8:16	7/14/2014	25.0	25.2	1.3	48.5	
	8:19	7/28/2014	22.0	25.6	1.9	50.5	
	8:32	8/11/2014	18.5	24.0	1.9	55.6	
	13:00	8/25/2014	29.5	24.2	1.7	44.6	
	8:00	9/8/2014	18.0	23.6	2.6	55.8	
	7:40	9/22/2014	20.0	24.4	2.5	53.1	
	8:10	10/7/2014	20.5	24.0	2.6	52.9	
	8:05	10/20/2014	24.5	24.6	2.7	48.2	
	7:58	11/3/2014	27.5	25.2	2.7	44.6	
	7:40	11/17/2014	30.0	25.8	2.6	41.6	
	7:46	12/2/2014	35.0	26.6	2.3	36.1	
	7:25	12/15/2014	27.5	22.0	1.5	49.0	Blower Off
	7:32	12/18/2014	37.5	27.8	2.5	32.2	
	7:48	1/2/2015	39.5	28.4	2.8	29.3	
	7:40	1/16/2015	43.0	26.6	2.1	28.3	
	7:45	1/26/2015	44.5	27.2	1.4	26.9	
	7:58	2/9/2015	43.5	28.6	2.1	25.8	
	8:10	2/24/2015	45.5	27.0	1.7	25.8	
	8:45	3/9/2015	47.0	25.4	1.9	25.7	
	7:40	3/23/2015	43.0	24.0	2.9	30.1	
	7:48	4/6/2015	40.0	24.0	2.0	34.0	
	8:19	4/22/2015	32.7	22.8	2.5	42.0	
	7:40	5/4/2015	33.0	22.2	2.3	42.5	
	7:30	5/18/2015	33.0	23.6	1.9	41.5	
	7:40	6/1/2015	32.5	23.4	2.4	41.7	
	7:43	6/15/2015	32.0	23.0	2.0	43.0	
	7:40	6/29/2015	32.0	24.2	1.9	41.9	
	7:40	7/14/2015	30.5	23.8	2.1	43.6	
	7:45	7/27/2015	30.5	24.8	1.5	43.2	
	7:40	8/10/2015	28.5	24.2	1.8	45.5	
	7:40	8/24/2015	28.0	24.6	1.9	45.5	
	7:55	9/8/2015	27.0	24.2	2.4	46.4	
	8:05	9/21/2015	27.0	25.4	2.2	45.4	
	7:40	10/5/2015	27.5	25.4	2.1	45.0	
	7:45	10/19/2015	28.0	25.6	2.1	44.3	
	8:00	11/2/2015	27.5	26.0	2.8	43.7	
	7:40	11/16/2015	30.0	25.8	2.0	42.2	
	11:00	11/30/2015	29.5	26.0	2.7	41.8	
	7:35	12/15/2015	35.0	26.8	2.1	36.1	
	7:45	12/28/2015	37.5	28.0	1.4	33.1	
	8:30	1/9/2016	36.5	25.6	2.2	35.7	
	8:00	1/25/2016	41.0	28.8	1.5	28.7	
	8:05	2/8/2016	37.5	26.2	1.9	34.4	
	7:47	2/22/2016	42.5	25.8	1.7	30.0	
	8:02	3/7/2016	41.0	24.4	1.4	33.2	
	8:45	3/21/2016	43.5	27.0	1.0	28.5	
	8:04	4/4/2016	41.5	28.4	1.1	29.0	
	8:18	4/18/2016	41.5	25.6	1.3	31.6	
	9:26	5/3/2016	41.5	25.8	0.7	32.0	
	8:00	5/16/2016	42.9	26.2	0.7	30.2	
7:55	6/2/2016	43.5	26.4	0.3	29.8		
8:00	6/14/2016	45.5	27.0	0.3	27.2		
8:00	6/27/2016	47.0	26.6	0.2	26.2		
10:25	7/14/2016	46.5	27.2	0.2	26.1		
8:00	7/25/2016	45.5	28.8	0.2	25.5		
7:55	8/8/2016	44.0	28.2	0.4	27.4		
7:50	8/25/2016	42.0	28.6	0.3	29.1		
7:35	9/6/2016	39.5	28.2	0.8	31.5		
10:15	10/3/2016	36.0	28.6	0.7	34.7		
8:25	10/19/2016	33.5	27.8	1.2	37.5		
8:58	10/31/2016	33.0	27.6	1.7	37.7		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-2	8:13	11/14/2016	33.5	27.2	2.6	36.7	
	9:04	11/28/2016	33.0	26.4	2.5	38.1	
	9:16	12/9/2016	38.5	29.2	3.1	29.2	
	8:05	12/22/2016	36.5	27.8	2.4	33.3	
	8:05	1/4/2017	31.0	23.8	5.1	40.1	
	7:50	1/13/2017	36.2	26.7	2.6	34.5	
	7:45	1/27/2017	41.5	28.6	2.6	27.3	
	8:16	2/13/2017	43.0	25.8	2.7	28.5	
	8:15	2/27/2017	42.5	24.4	3.5	29.6	
	8:25	3/13/2017	46.0	26.4	2.8	24.8	
	7:45	3/28/2017	44.5	25.8	3.2	26.5	
	8:12	4/12/2017	47.5	26.0	2.5	24.0	
	7:35	4/18/2017	46.0	25.8	2.6	25.6	
	7:25	4/25/2017	48.0	27.2	2.2	22.6	
	7:38	5/8/2017	50.0	27.0	2.4	20.6	
	7:45	5/22/2017	44.0	23.4	4.1	28.5	
	8:00	6/5/2017	50.0	27.0	1.9	21.1	
	7:48	6/19/2017	47.0	27.4	1.6	24.0	
	8:34	7/4/2017	46.5	29.0	0.6	23.9	
	7:52	7/18/2017	44.5	29.6	0.2	25.7	
	7:56	8/1/2017	43.5	29.6	0.1	26.8	
	8:03	8/14/2017	44.5	29.8	0.3	25.4	
	8:15	8/29/2017	46.0	30.2	0.1	23.7	
	8:03	9/12/2017	46.5	30.6	0.3	22.6	
	8:15	9/25/2017	47.0	30.8	2.4	19.8	
	8:18	10/10/2017	49.0	31.8	0.7	18.5	
	7:57	10/23/2017	46.5	30.6	0.4	22.5	
	8:05	11/6/2017	46.5	31.0	1.8	20.7	
	8:11	11/17/2017	19.0	21.0	1.9	58.1	
	8:07	12/1/2017	47.0	30.8	0.8	21.4	
	8:17	12/18/2017	46.5	30.4	1.1	22.0	
	8:57	1/3/2018	43.5	29.4	1.2	25.9	
	8:03	1/11/2018	46.0	29.4	1.2	23.4	
	7:56	1/26/2018	35.0	23.2	4.6	37.2	
	8:27	2/13/2018	20.5	20.4	5.7	53.4	
	7:49	2/27/2018	27.0	25.2	2.1	45.7	
	7:49	3/13/2018	16.5	15.8	8.6	59.1	
	8:11	3/28/2018	26.0	24.4	1.7	47.9	
	8:23	4/10/2018	28.0	25.2	25.2	21.6	
	7:54	4/25/2018	30.5	25.2	0.7	43.6	
8:11	5/8/2018	32.5	24.8	0.9	41.8		
7:58	5/21/2018	33.5	24.8	0.9	40.8		
8:15	6/5/2018	23.0	17.4	6.8	52.8		
8:00	6/20/2018	35.0	25.0	0.8	39.2		
8:10	6/28/2018	35.5	25.0	0.6	38.9		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	11:31	3/20/2006	62.3	36.3	0.5	0.9	pre-startup
	10:06	3/22/2006	55.9	33.2	3.5	7.4	
	8:37	3/23/2006	53.5	30.5	3.4	12.6	
	16:30	3/23/2006	59.9	30.5	2.0	7.6	
	14:30	3/24/2006	8.6	6.7	17.0	67.7	
	14:45	3/28/2006	21.1	14.8	12.0	52.1	
	19:21	3/30/2006	51.2	30.4	1.6	16.8	
	13:35	4/5/2006	30.7	22.2	6.6	40.5	
	13:05	4/6/2006	19.0	14.9	11.9	54.2	
	13:20	4/11/2006	36.9	26.6	3.5	33.0	
	10:49	4/14/2006	38.2	27.8	1.0	33.0	
	15:30	4/14/2006	37.7	28.8	1.2	32.3	
	10:10	4/17/2006	10.5	0.6	0.8	88.1	
	19:38	4/27/2006	27.6	23.6	0.5	48.3	
	13:20	5/4/2006	0.0	0.0	8.8	91.2	
	10:25	5/22/2006	9.6	15.7	8.9	65.8	
	14:41	6/2/2006	0.6	0.1	20.4	78.9	
	8:29	6/9/2006	22.5	31.2	4.0	42.3	
	12:42	6/14/2006	20.5	15.6	3.2	60.7	
	10:51	6/22/2006	13.1	28.7	3.5	54.7	
	12:23	7/5/2006	13.0	29.6	1.9	55.5	
	11:38	7/10/2006	0.0	0.0	1.7	98.3	
	10:17	7/17/2006	11.9	28.3	1.8	58.0	
	14:09	7/28/2006	16.3	28.7	1.5	53.5	
	10:02	8/8/2006	11.4	28.8	1.5	58.3	
	9:10	8/16/2006	11.9	28.4	1.4	58.3	
	8:27	8/21/2006	2.4	5.8	1.8	90.0	
	14:14	8/28/2006	12.1	10.2	1.4	76.3	
	11:26	9/13/2006	6.8	11.8	1.7	79.7	
	11:25	9/25/2006	10.1	0.4	1.9	87.6	
	8:25	10/10/2006	10.8	29.6	2.7	56.9	
	8:26	10/23/2006	10.9	29.4	3.9	55.8	
	14:12	11/2/2006	9.5	23.4	0.4	66.7	
	15:09	11/14/2006	2.5	0.0	20.0	77.5	
	12:00	11/27/2006	0.3	1.2	18.9	79.7	
	13:10	12/26/2006	13.5	21.2	3.3	62.0	
	14:20	1/27/2007	13.0	21.4	1.9	63.7	
	11:40	2/24/2007	4.3	0.2	19.7	75.9	
	11:22	3/1/2007	12.0	19.6	4.1	64.3	
	12:30	3/1/2007	11.5	19.2	4.2	65.1	
	14:32	3/1/2007	11.5	18.8	4.1	65.6	
	7:50	3/5/2007	0.3	0.0	20.3	79.5	adjust blower time, 12 on, 12 off
	7:50	3/24/2007	15.0	19.2	4.1	61.7	
16:34	3/24/2007	14.5	19.2	4.0	62.3		
16:48	3/26/2007	12.5	18.6	3.6	65.3		
7:09	3/27/2007	12.0	19.2	3.5	65.3		
16:45	3/28/2007	13.0	19.8	3.6	63.6		
7:40	3/29/2007	12.0	19.2	3.7	65.1		
16:43	3/29/2007	12.0	19.2	3.8	65.0		
7:45	3/30/2007	7.0	12.6	8.0	72.4	blower off	
11:30	5/30/2007	29.0	22.8	3.0	45.2	restart and run 24 hrs	
13:52	5/30/2007	30.5	22.8	3.2	43.5		
10:10	5/31/2007	23.5	21.2	2.9	52.4	reduce to 12 on 12 off	
16:10	6/1/2007	21.5	20.8	2.8	54.9		
15:13	6/2/2007	20.0	19.4	3.6	57.0		
15:44	6/3/2007	19.0	20.2	2.8	58.0		
13:45	6/4/2007	18.0	19.8	3.0	59.2	reduce to 6 on 18 off	
14:27	6/7/2007	23.0	22.2	2.8	52.0		
16:15	6/12/2007	14.0	19.4	3.1	63.5		
13:58	6/14/2007	14.5	19.2	3.1	63.2		
13:35	6/19/2007	14.5	19.6	3.0	62.9		
13:40	6/21/2007	14.0	19.2	3.2	63.6		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	13:20	7/11/2007	14.0	19.2	3.3	63.5	
	13:10	7/23/2007	13.0	19.0	3.4	64.6	
	14:04	8/8/2007	13.0	19.4	3.4	64.2	
	13:50	8/13/2007	14.0	21.6	2.1	62.3	
	13:10	8/20/2007	11.8	19.8	2.7	65.7	
	13:35	8/28/2007	11.5	19.2	2.8	66.5	
	15:20	8/31/2007	8.5	18.0	3.5	70.0	
	14:15	9/4/2007	7.0	17.0	3.9	72.1	
	12:45	9/17/2007	5.5	15.8	4.7	74.0	
	9:05	9/29/2007	5.0	16.2	4.6	74.2	
	8:05	10/4/2007	5.5	16.0	4.6	73.9	
	9:05	10/7/2007	6.0	16.4	4.2	73.4	
	9:20	10/18/2007	7.5	16.8	3.6	72.1	
	8:25	10/25/2007	6.5	16.6	4.2	72.7	
	8:40	11/1/2007	7.5	16.8	4.3	71.4	
	9:45	11/13/2007	11.5	16.2	5.5	66.8	
	10:55	11/26/2007	7.0	14.4	6.4	72.2	
	10:20	12/10/2007	7.0	14.6	6.8	71.6	
	11:05	12/26/2007	7.5	14.4	6.4	71.7	
	9:30	1/9/2008	8.5	14.6	6.6	70.3	
	11:50	1/23/2008	7.5	14.4	7.3	70.8	
	8:40	2/4/2008	10.0	15.6	6.1	68.3	
	7:10	2/18/2008	12.5	15.4	6.8	65.3	
	7:40	3/4/2008	17.5	17.8	7.5	57.2	
	8:15	3/18/2008	20.0	17.6	6.2	56.2	
	13:35	5/12/2008	20.0	19.6	4.5	55.9	
	8:45	5/19/2008	11.5	16.6	5.6	66.3	
	13:10	5/30/2008	10.0	16.2	5.1	68.7	
	8:25	6/12/2008	9.5	17.4	5.2	67.9	
	8:35	6/25/2008	14.5	19.8	4.3	61.4	
	10:35	7/7/2008	10.5	17.0	4.9	67.6	opened GV-6 to 200 ft/min
	12:15	7/21/2008	10.5	19.0	4.1	66.4	
	10:00	8/5/2008	12.5	19.2	4.2	64.1	
	9:15	8/13/2008	13.5	19.6	4.3	62.6	increase to 12 on 12 off
	8:55	8/19/2008	9.5	18.4	4.6	67.5	
	14:25	9/2/2008	11.5	18.4	4.4	65.7	
	12:12	10/3/2008	12.5	19.0	4.8	63.7	
	10:15	10/13/2008	13.0	19.0	4.9	63.1	
	9:25	10/28/2008	13.5	19.6	5.4	61.5	
	7:50	11/6/2008	13.5	19.2	5.1	62.2	
	10:40	12/8/2008	12.0	18.8	5.6	63.6	
	9:40	12/24/2008	10.0	17.4	5.2	67.4	decrease to 10 on
	11:10	1/8/2009	9.5	17.0	5.5	68.0	
	11:45	1/18/2009	29.5	22.6	7.4	40.5	
	8:05	2/6/2009	8.5	16.0	5.8	69.7	1/27/09 ice in port
10:05	2/23/2009	6.5	16.2	5.7	71.6	decrease to 8 on	
9:40	3/9/2009	11.0	17.0	5.2	66.8		
9:30	3/20/2009	13.5	17.6	5.3	63.6		
11:25	4/9/2009	17.5	18.8	4.9	58.8		
10:10	4/19/2009	11.0	17.2	5.3	66.5		
8:40	5/4/2009	4.2	17.4	3.3	75.2		
8:45	5/18/2009	7.5	16.4	5.5	70.6		
10:10	6/1/2009	3.8	16.0	4.3	76.0		
9:10	6/14/2009	7.5	16.0	5.3	71.2		
8:55	7/2/2009	15.8	18.0	4.5	61.7		
7:35	7/13/2009	15.5	19.0	4.4	61.1		
8:35	7/22/2009	11.5	18.0	4.8	65.7		
9:00	8/11/2009	9.0	17.2	4.7	69.1		
8:50	8/24/2009	7.0	15.8	5.7	71.5	decrease to 6 on 18 off	
9:35	9/8/2009	12.0	17.4	4.8	65.8		
9:28	9/21/2009	14.5	18.6	4.8	62.1		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	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	
	9:25	1/10/2011	20.5	20.8	6	52.7	
	8:41	1/25/2011	18.5	18.8	7.4	55.3	
	12:30	2/11/2011	29.5	21.6	6.1	42.8	
	10:15	2/22/2011	15.5	17.0	7.7	59.8	
	9:30	3/7/2011	15.5	17.4	7.1	60.0	
	12:00	3/24/2011	23.0	20.6	4.9	51.5	
	9:05	4/6/2011	31.0	21.6	4.9	42.5	
	8:04	4/25/2011	31.0	21.2	5.6	42.2	
	9:00	5/9/2011	37.5	23.0	4.5	35.0	
	9:20	5/23/2011	39.5	24.0	4.2	32.3	
	11:00	6/6/2011	40.5	24.4	4.1	31.0	
	9:15	6/15/2011	40.5	24.4	4.0	31.1	
	9:20	7/5/2011	39.0	24.6	3.6	32.8	
	8:13	7/13/2011	38.5	24.6	3.5	33.4	
	8:15	7/26/2011	37.5	24.4	3.5	34.6	
	8:25	8/8/2011	31.5	23.4	3.4	41.7	
	8:00	8/23/2011	28.5	22.4	3.9	45.2	
	15:21	9/9/2011	34.0	24.6	3.9	37.5	
16:03	9/15/2011	27.5	23.0	4.7	44.8		
8:35	9/21/2011	25.0	21.8	4.7	48.5		
9:42	9/21/2011	25.0	21.4	4.9	48.7		
9:33	9/22/2011	26.0	22.2	4.8	47.0		
10:13	9/22/2011	26.0	21.8	5.1	47.1		
10:59	9/22/2011	27.5	22.6	4.6	45.3		
10:50	10/3/2011	18.0	20.2	5.1	56.7		
14:05	10/24/2011	41.0	28.6	3.7	26.7		
11:08	10/26/2011	24.5	22.0	5.0	48.5		
10:52	11/7/2011	21.5	21.4	4.7	52.4		
9:27	11/14/2011	23.5	21.8	4.4	50.3		
9:37	12/12/2011	23.0	22.2	4.7	50.1		
10:30	12/27/2011	28.0	23.0	4.2	44.8		
8:51	1/10/2012	32.5	24.0	4.2	39.3		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	9:55	1/25/2012	33.0	26.0	4.2	36.8	
	9:29	2/20/2012	37.5	25.8	5.0	31.7	
	9:21	3/8/2012	36.5	24.8	5.5	33.2	
	9:00	4/2/2012	32.0	24.4	4.7	38.9	
	9:15	4/16/2012	29.5	22.8	5.0	42.7	
	9:25	4/30/2012	25.0	21.8	5.3	47.9	
	9:25	5/14/2012	27.0	22.2	5.0	45.8	
	9:18	5/29/2012	30.9	23.0	4.5	41.6	
	7:59	6/11/2012	31.5	23.4	4.4	40.7	
	9:53	6/25/2012	33.5	24.4	4.0	38.1	
	9:10	7/9/2012	32.5	24.6	3.5	39.4	
	8:47	7/23/2012	19.0	21.0	4.2	55.8	
	8:11	7/25/2012	19.0	21.0	4.4	55.6	
	9:10	8/6/2012	19.0	21.4	4.2	55.4	
	9:40	8/21/2012	19.0	20.6	4.8	55.6	
	9:21	9/4/2012	14.5	19.8	4.5	61.2	
	8:17	10/1/2012	10.5	16.4	6.6	66.5	reduce from 23 hrs to 16.5 hrs on
	8:40	10/15/2012	9.0	12.0	9.9	69.1	reduce from 16.5 hrs to 8.5 hrs on
	7:50	12/6/2012	18.5	20.0	5.2	56.3	reduce from 8.5 hrs to 4 hrs on
	9:10	12/17/2012	22.5	20.2	4.5	52.8	reduce from 4 hrs to 2 hrs on
	9:10	12/31/2012	26.0	22.4	4.5	47.1	
	8:30	1/9/2013	28.0	22.6	4.3	45.1	Increase from 2 hrs to 4 hrs on
	9:40	1/15/2013	29.0	22.6	3.9	44.5	Increase from 4 hrs to 8 hrs on
	9:17	1/28/2013	27.5	22.8	4.3	45.4	Increase from 8 hrs to 12 hrs on
	11:05	2/11/2013	27.0	20.2	7.2	45.6	Reduce from 12 hrs to 9 hrs on
	9:30	2/25/2013	42.0	27.8	3.1	27.1	Increase from 9 hrs to 18 hrs on
	7:50	3/8/2013	53.0	33.0	0.0	14.0	Increase from 18 hrs to 23.5 hrs on
	9:08	3/22/2013	54.5	33.6	0.1	11.8	
	13:55	4/8/2013	30.0	23.4	4.1	42.5	
	15:25	4/22/2013	21.5	4.0	3.9	70.6	
	9:44	4/29/2013	18.5	19.6	4.1	57.8	
	8:37	5/13/2013	16.5	19.0	4.9	59.6	
	13:48	5/28/2013	16.5	18.8	4.4	60.3	
	9:05	6/7/2013	17.0	19.0	4.5	59.5	
	8:25	6/21/2013	16.0	18.4	4.5	61.1	
	8:55	7/5/2013	15.5	18.2	4.5	61.8	
	8:00	7/22/2013	16.0	19.0	4.3	60.7	
	9:00	8/5/2013	16.0	10.4	5.3	68.3	Reduce from 10 hrs to 9 hrs on
	8:30	8/19/2013	17.5	18.8	4.9	58.8	
	8:40	9/5/2013	9.5	10.2	12.3	68.0	Reduce from 9 hrs to 4 hrs on
	8:55	9/16/2013	10.5	10.2	12.8	66.5	Reduce from 4 hrs to 2 hrs on
	7:45	9/30/2013	17.0	14.0	10.2	58.8	Reduce from 2 hrs to 1 hr on
	7:45	10/14/2013	23.5	18.0	8.4	50.1	Reduce from 1 hr to 0.5 hr on
	7:45	10/28/2013	21.5	15.4	10.3	52.8	Reduce from 0.5 hr to 0.25 hr on
	8:17	11/19/2013	31.0	21.8	7.4	39.8	Increase from 0.25 hr to 1 hr on
7:40	12/2/2013	32.0	22.8	6.6	38.6	Reduce from 1 hr to 0.75 hr on	
7:20	12/16/2013	20.5	16.0	11.1	52.4	Reduce from 0.75 hr to 0.3 hr on	
7:10	12/27/2013	34.5	25.2	5.2	35.1	Reduce from 0.3 hr to 0.25 hr on	
7:12	1/13/2014	39.5	26.4	3.6	30.5	Increase from 0.25 hr to 1 hr on	
7:20	1/30/2014	37.0	26.6	4.2	32.2	Increase from 1 hr to 2 hr on	
7:40	2/12/2014	33.5	25.6	4.3	36.6	Increase from 2 hrs on to 8 hr on	
8:57	2/24/2014	31.0	23.6	5.2	40.2	Reduce from 8 hr on to 7 hr on	
8:30	3/10/2014	33.0	24.2	4.2	38.6	Increase from 7 hr on to 10hr on	
8:20	3/24/2014	23.5	18.8	6.9	50.8	Reduce from 10 hr on to 6 hr on	
7:35	4/7/2014	27.0	21.0	4.5	47.5	Increase from 6 hr on to 7 hr on	
10:50	4/22/2014	23.5	20.2	4.5	51.8	Increase from 7 hr on to 8 hr on	
7:57	5/7/2014	25.5	21.0	4.1	49.4	Increase from 8 hr on to 10 hr on	
7:55	5/19/2014	24.5	21.0	3.8	50.7	Increase from 10 hr on to 14 hr on	
7:20	5/30/2014	25.0	21.6	3.2	50.2	Increase from 14 hr on to 20 hr on	
7:45	6/16/2014	18.5	19.2	3.6	58.7	Increase from 20 hr on to 23.66 hr on	
8:08	6/30/2014	14.0	18.2	3.7	64.1		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	8:10	7/14/2014	11.5	17.2	4.4	66.9	
	8:11	7/28/2014	10.0	17.4	4.8	67.8	
	8:26	8/11/2014	8.0	15.6	5.3	71.1	Reduce from 23.66 hr on to 19.66 hr on
	7:30	8/25/2014	8.5	16.2	5.0	70.3	
	7:54	9/8/2014	8.0	15.2	6.1	70.7	Reduce from 19.66 hr on to 16 hr on
	7:35	9/22/2014	9.0	15.6	6.6	68.8	Reduce from 16 hr on to 12 hr on
	8:03	10/7/2014	9.5	15.2	6.8	68.5	Reduce from 12 hr on to 8 hr on
	8:00	10/20/2014	11.5	16.2	6.4	65.9	Reduce from 8 hr on to 4 hr on
	7:50	11/3/2014	16.5	18.2	5.9	59.4	Reduce from 4 hr on to 3 hr on
	7:35	11/17/2014	20.0	20.2	5.4	54.4	Reduce from 3 hr on to 2 hr on
	7:40	12/2/2014	23.0	20.0	6.3	50.7	Reduce from 2 hr on to 1 hr on
	7:19	12/15/2014	31.0	23.6	3.9	41.5	Blower off
	7:25	12/18/2014	30.0	23.6	4.5	41.9	Increase from 1 hr on to 2 hr on
	7:40	1/2/2015	30.1	24.0	5.0	40.9	Blower not working
	7:30	1/16/2015	24.0	17.6	8.1	50.3	Run 2 hr on
	7:39	1/26/2015	32.5	23.0	4.5	40.0	increase from 2 hr on to 3 hr on
	7:44	2/9/2015	31.0	24.6	4.3	40.1	Increase from 3 hr on to 5 hr on
	8:18	2/24/2015	31.6	23.2	4.1	41.1	Increase from 5 hr on to 8 hr on
	8:35	3/9/2015	26.0	21.0	4.5	48.5	Increase from 8 hr on to 12 hr on
	7:35	3/23/2015	17.0	17.2	5.9	59.9	Reduce from 12 hr on to 10 hr on
	7:43	4/6/2015	17.0	17.8	5.2	60.0	Reduce from 10 hr on to 9 hr on
	8:12	4/22/2015	14.5	16.6	5.8	63.1	Reduce from 9 hr on to 7 hr on
	7:30	5/4/2015	16.0	16.4	5.1	62.5	Reduce from 7 hr on to 6 hr on
	7:25	5/18/2015	17.5	18.4	4.3	59.8	Increase from 6 hr on to 7 hr on
	7:32	6/1/2015	15.5	17.6	5.0	61.9	
	7:35	6/15/2015	16.0	17.8	4.4	61.8	Increase from 7 hr on to 8 hr on
	7:40	6/29/2015	16.0	18.4	4.5	61.1	Increase from 8 hr on to 10 hr on
	7:35	7/14/2015	14.5	18.0	4.5	63.0	Increase from 10 hr on to 12 hr on
	7:38	7/27/2015	13.5	17.8	4.7	64.0	Increase from 12 hr on to 13 hr on
	7:35	8/10/2015	12.5	17.2	4.8	65.5	Increase from 13 hr on to 15 hr on
	7:35	8/24/2015	11.5	16.8	5.1	66.6	Reduce from 15 hr on to 14 hr on
	7:48	9/8/2015	11.5	17.2	4.8	66.5	Increase from 14 hr on to 15 hr on
	8:00	9/21/2015	11.0	17.0	5.5	66.5	Reduce from 15 hr on to 13 hr on
	7:35	10/5/2015	11.0	17.2	5.6	66.2	
	7:40	10/19/2015	11.0	16.8	6.1	66.1	Reduce from 13 hr on to 11 hr on
	7:55	11/2/2015	11.5	17.2	5.7	65.6	Reduce from 11 hr on to 9 hr on
	7:35	11/16/2015	13.5	17.8	5.6	63.1	Reduce from 9 hr on to 7 hr on
	11:05	11/30/2015	15.0	18.8	5.8	60.4	Reduce from 7 hr on to 5 hr on
	7:30	12/15/2015	18.5	19.6	4.7	57.2	Increase from 5 hr on to 7 hr on
	7:40	12/28/2015	20.0	20.6	4.9	54.5	
	8:25	1/9/2016	20.5	19.8	4.9	54.8	
	7:58	1/25/2016	21.5	21.2	5.1	52.2	Reduce from 7 hr on to 6 hr on
8:00	2/8/2016	21.5	20.0	5.7	52.8	Reduce from 6 hr on to 4 hr on	
7:42	2/22/2016	27.0	21.0	4.7	47.3	Increase from 4 hr on to 6 hr on	
7:55	3/7/2016	25.0	20.2	4.5	50.3	Increase from 6 hr on to 9 hr on	
8:40	3/21/2016	23.0	21.6	4.3	51.1	Increase from 9 hr on to 13 hr on	
7:57	4/4/2016	20.0	19.6	5.6	54.8	Reduce from 13 hr on to 9 hr on	
8:12	4/18/2016	22.5	20.0	5.3	52.2	Reduce from 9 hr on to 7 hr on	
9:24	5/3/2016	25.5	20.8	4.8	48.9	Increase from 7 hr on to 8 hr on	
7:55	5/16/2016	28.5	22.2	4.5	44.8	Increase from 8 hr on to 10 hr on	
7:50	6/2/2016	31.0	23.2	3.6	42.2	Increase from 10 hr on to 15 hr on	
7:55	6/14/2016	29.0	22.8	3.7	44.5	Increase from 15 hr on to 20 hr on	
7:55	6/27/2016	26.5	21.8	4.4	47.3	Increase from 20 hr on to 23.5 hr on	
10:30	7/14/2016	25.0	21.6	3.8	49.6		
8:00	7/25/2016	24.5	22.4	3.5	49.6		
7:50	8/8/2016	23.0	21.8	3.8	51.4		
7:45	8/25/2016	21.5	21.6	3.7	53.2		
7:30	9/6/2016	18.0	20.4	4.2	57.4		
10:10	10/3/2016	15.5	19.2	4.8	60.5		
8:18	10/19/2016	14.5	18.4	5.6	61.5	Reduce from 23.5 hr on to 19.5 hr on	
8:54	10/31/2016	14.5	18.0	6.2	61.3	Reduce from 19.5 hr on to 13.5 hr on	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
LC-3	8:11	11/14/2016	16.0	18.4	6.2	59.4	Reduce from 13.5 hr on to 7.5 hr on
	8:57	11/28/2016	20.0	19.6	5.9	54.5	
	9:13	12/9/2016	22.5	21.4	5.9	50.2	Reduce from 7.5 hr on to 5 hr on
	8:00	12/22/2016	23.5	21.0	6.1	49.4	Reduce from 5 hr on to 3 hr on
	8:10	1/4/2017	22.5	19.8	6.6	51.1	Reduce from 3 hr on to 2 hr on
	7:40	1/13/2017	23.7	21.2	6.2	48.9	Reduce from 2 hr on to 1 hr on
	7:34	1/27/2017	34.5	25.6	4.5	35.4	Increase from 1 hr on to 2 hr on
	8:10	2/13/2017	33.0	23.8	5.0	38.2	Reduce from 2 hr on to 1.5 hr on
	8:05	2/27/2017	33.5	23.2	5.6	37.7	Reduce from 1.5 hr on to 1 hr on
	8:30	3/13/2017	36.5	24.4	5.4	33.7	Reduce from 1 hr on to 0.75 hr on
	7:35	3/28/2017	36.0	24.6	4.7	34.7	Increase from 0.75 hr on to 1 hr on
	8:10	4/12/2017	37.0	25.0	4.8	33.2	Increase from 1 hr on to 3.5 hr on (sampling)
	7:48	4/18/2017	21.0	16.2	9.6	53.2	Reduce from 3.5 hr on to 1.5 hr on
	7:16	4/25/2017	36.0	25.6	4.3	34.1	Increase from 1.5 hr on to 3.5 hr on
	7:27	5/8/2017	35.0	25.2	4.6	35.2	Increase from 3.5 hr on to 6.5 hr on
	7:38	5/22/2017	29.5	22.2	4.8	43.5	Increase from 6.5 hr on to 8.5 hr on
	7:52	6/5/2017	28.0	22.6	3.9	45.5	Increase from 8.5 hr on to 14.5 hr on
	7:40	6/19/2017	23.5	21.8	3.2	51.5	Increase from 14.5 hr on to 20.5 hr on
	8:31	7/4/2017	23.5	22.8	2.7	51.0	Increase from 20.5 hr on to 23.5 hr on
	7:48	7/18/2017	28.0	24.8	2.0	45.2	
	7:53	8/1/2017	29.5	25.6	1.8	43.1	
	7:58	8/14/2017	31.5	26.2	1.4	40.9	
	8:13	8/29/2017	31.0	26.6	1.3	41.1	
	8:01	9/12/2017	31.0	26.8	1.2	41.0	
	8:12	9/25/2017	32.0	27.0	2.6	38.4	
	8:15	10/10/2017	32.0	27.6	1.2	39.2	
	7:54	10/23/2017	31.5	27.0	1.1	40.4	
	8:02	11/6/2017	33.5	28.2	1.2	37.1	
	8:08	11/17/2017	34.0	28.2	0.9	36.9	
	8:05	12/1/2017	34.5	28.6	1.0	35.9	
	8:15	12/18/2017	34.0	28.4	1.0	36.6	
	8:52	1/3/2018	36.5	27.8	1.9	33.8	
	8:01	1/11/2018	31.0	24.4	4.2	40.4	
	7:53	1/26/2018	18.5	19.6	5.3	56.6	Decreased from 23.5 hr on to 20 hr on
	8:18	2/13/2018	9.5	14.0	8.0	68.5	Decrease from 20 hr on to 12 hr on
	7:46	2/27/2018	19.0	20.2	3.9	56.9	
	7:46	3/13/2018	28.0	25.0	1.2	45.8	
	8:08	3/28/2018	22.5	21.8	3.5	52.2	
	8:21	4/10/2018	22.5	22.0	3.6	51.9	Increase from 12 hr on to 16 hr on
	7:51	4/25/2018	22.5	21.4	3.5	52.6	
8:08	5/8/2018	24.5	21.4	3.1	51.0		
7:55	5/21/2018	21.0	21.0	3.1	54.9	Decrease from 16 hr on to 12 hr on	
8:21	6/5/2018	22.5	21.2	2.9	53.4	Decrease from 12 hr on to 11 hr on	
8:02	6/20/2018	25.0	22.0	2.4	50.6		
8:07	6/28/2018	24.0	22.0	2.4	51.6	Decrease from 11 hr on to 2 hr on	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	11:19	3/20/2006	0.4	0.2	20.9	78.5	pre-startup
	10:00	3/22/2006	45.9	26.6	2.6	24.9	
	15:49	3/22/2006	54.2	31.6	0.9	13.3	
	8:47	3/23/2006	51.5	29.5	1.3	17.7	
	16:50	3/23/2006	45.0	25.4	3.8	25.8	
	15:30	3/24/2006	24.0	13.9	15.0	47.1	
	14:30	3/28/2006	13.2	10.0	12.9	63.9	
	19:00	3/30/2006	34.4	24.9	2.9	37.8	
	13:25	4/5/2006	22.9	18.7	8.2	50.2	
	12:55	4/6/2006	21.9	17.4	7.9	52.8	
	13:10	4/11/2006	23.8	20.2	5.9	50.1	
	10:56	4/14/2006	26.9	23.4	2.3	47.4	
	15:53	4/14/2006	21.3	28.5	5.4	44.8	
	10:00	4/17/2006	31.3	34.0	3.0	31.7	
	19:55	4/27/2006	15.6	19.8	4.0	60.6	
	13:15	5/4/2006	0.0	0.0	2.4	97.6	
	10:19	5/22/2006	16.2	24.6	1.3	57.9	
	8:23	6/9/2006	24.4	32.8	6.2	36.6	
	12:37	6/14/2006	22.8	29.3	5.6	42.3	
	10:46	6/22/2006	12.1	23.0	5.4	59.5	
	12:07	7/5/2006	13.7	24.7	4.9	56.7	
	11:33	7/10/2006	12.6	26.2	4.0	57.2	
	10:54	7/17/2006	12.7	25.6	3.9	57.8	
	14:04	7/28/2006	4.8	24.5	4.4	66.3	
	9:53	8/8/2006	14.8	29.1	2.3	53.8	
	9:06	8/16/2006	14.8	27.1	4.1	54.0	
	8:22	8/21/2006	12.7	8.6	3.8	74.9	
	14:10	8/28/2006	16.6	25.7	5.0	52.7	
	11:24	9/13/2006	8.2	1.4	5.3	85.1	
	11:20	9/25/2006	8.1	0.8	1.8	89.3	
	8:20	10/10/2006	18.1	30.1	3.2	48.6	
	8:21	10/23/2006	12.8	18.1	4.6	64.5	
	14:05	11/2/2006	10.0	22.4	1.3	66.3	
	14:56	11/14/2006	19.0	21.8	4.5	54.7	
	11:27	11/27/2006	9.0	14.6	8.4	68.0	
	13:00	12/26/2006	15.5	22.8	1.5	60.2	
	14:02	1/27/2007	13.5	20.8	1.7	64.0	
	9:32	2/15/2007	0.6	11.4	8.0	80.1	
	11:24	2/24/2007	2.6	12.0	9.6	75.9	
	9:41	3/1/2007	23.0	24.0	0.2	52.8	
	10:15	3/1/2007	13.5	17.8	3.6	65.1	
	10:17	3/1/2007	12.0	19.2	1.3	67.5	
11:13	3/1/2007	9.0	17.4	2.5	71.1		
12:22	3/1/2007	7.5	16.6	3.0	72.9		
13:53	3/1/2007	6.5	15.6	4.3	73.6		
14:00	3/1/2007	7.0	15.5	4.2	73.3		
14:40	3/1/2007	6.0	14.4	5.2	74.4		
8:00	3/5/2007	6.0	14.4	6.4	73.2	adjust blower time, 12 on, 12 off	
8:05	3/24/2007	11.5	20.0	2.8	65.7		
16:50	3/24/2007	12.0	19.4	2.8	65.8		
17:05	3/26/2007	9.5	18.4	3.2	68.9		
7:25	3/27/2007	7.0	17.6	4.1	71.3		
16:31	3/28/2007	11.0	20.0	1.8	67.2		
7:59	3/29/2007	8.5	19.8	1.4	70.3		
16:55	3/29/2007	12.0	20.0	1.3	66.7		
7:59	3/30/2007	9.0	20.8	0.3	69.9	blower off	
10:45	5/30/2007	31.0	22.6	0.7	45.7	restart and run 24 hrs	
13:40	5/30/2007	36.5	26.2	0.6	36.7		
10:25	5/31/2007	21.5	22.8	1.5	54.2	reduce to 12 on 12 off	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	16:28	6/1/2007	20.5	22.0	1.1	56.4	
	15:25	6/2/2007	20.0	21.8	1.1	57.1	
	16:05	6/3/2007	20.5	22.4	0.5	56.6	
	14:08	6/4/2007	16.5	22.0	0.8	60.7	reduce to 6 on 18 off
	15:04	6/7/2007	19.0	22.6	0.4	58.0	
	17:35	6/12/2007	14.0	21.6	1.7	62.7	
	15:00	6/14/2007	14.0	21.8	0.6	63.6	
	14:30	6/19/2007	13.0	22.8	0.7	63.5	
	14:30	6/21/2007	15.0	21.8	1.4	61.8	
	14:20	7/11/2007	14.0	20.2	3.1	62.7	
	14:20	7/23/2007	15.0	21.0	3.3	60.7	
	14:10	8/8/2007	14.0	20.2	3.8	62.0	
	13:15	8/13/2007	12.0	18.6	5.1	64.3	
	14:20	8/20/2007	9.5	18.0	5.1	67.4	
	14:15	8/28/2007	9.0	18.6	4.4	68.0	
	15:50	8/31/2007	6.0	19.2	2.5	72.3	
	14:45	9/4/2007	6.0	18.2	3.2	72.6	
	13:15	9/17/2007	5.0	16.8	4.3	73.9	
	9:35	9/29/2007	4.7	16.8	4.3	74.2	
	8:35	10/4/2007	4.4	16.2	4.7	74.8	
	9:35	10/7/2007	4.7	17.0	3.6	74.7	
	9:40	10/18/2007	7.5	20.0	0.6	71.9	
	9:10	10/25/2007	7.0	2.0	0.5	90.5	
	9:10	11/1/2007	7.0	20.6	0.2	72.2	
	10:05	11/13/2007	17.5	22.0	0.7	59.8	
	11:20	11/26/2007	6.0	15.6	5.5	72.9	reduce to 12 on 12 off
	10:50	12/10/2007	7.0	16.8	4.8	71.4	reduce to 10 on 14 off
	11:40	12/26/2007	6.5	15.6	4.9	73.0	reduce to 8 on 16 off
	10:05	1/9/2008	6.0	15.6	4.9	73.5	
	12:05	1/23/2008	5.5	13.4	7.3	73.8	
	9:10	2/4/2008	12.5	19.4	0.9	67.2	
	7:40	2/18/2008	17.0	20.4	0.7	61.9	
	7:20	3/4/2008	21.0	21.0	0.9	57.1	
	8:35	3/18/2008	31.0	22.8	0.8	45.4	
	14:15	5/12/2008	14.5	19.6	3.1	62.8	
	9:05	5/19/2008	5.5	14.8	6.4	73.3	
	13:40	5/30/2008	12.0	20.4	0.2	67.4	
	9:15	6/12/2008	5.0	16.8	5.5	72.7	
	9:10	6/25/2008	10.0	23.4	0.6	66.0	
	11:20	7/7/2008	5.5	20.0	0.0	74.5	opened GV-6 to 200 ft/min
	12:25	7/21/2008	7.5	20.8	1.3	70.4	
	9:45	8/5/2008	9.5	21.8	0.5	68.2	
9:00	8/13/2008	11.5	21.6	1.4	65.5	increase to 12 on 12 off	
8:40	8/19/2008	4.9	15.4	6.8	73.0		
14:00	9/2/2008	5.5	18.4	2.0	74.1		
11:46	10/3/2008	3.7	9.6	11.0	75.7		
10:35	10/13/2008	9.0	20.4	1.8	68.8		
9:10	10/28/2008	7.0	19.2	2.8	71.0		
7:30	11/6/2008	10.0	20.2	1.5	68.3		
10:10	12/24/2008	6.0	15.6	4.5	73.9	12/8/08 meter failure	
11:45	1/8/2009	3.1	13.6	6.5	76.8	1/27/09 ice in port	
11:15	1/18/2009	8.5	19.0	3.2	69.3		
8:30	2/6/2009	3.2	12.4	7.7	76.8		
10:45	2/23/2009	1.5	10.8	9.7	78.1	decrease to 8 on	
10:10	3/9/2009	3.0	14.6	3.3	79.1		
10:10	3/20/2009	4.4	16.8	2.1	76.8		
12:21	4/9/2009	8.0	18.4	0.0	73.6		
10:30	4/19/2009	3.6	13.0	6.7	76.7		
8:30	5/4/2009	1.6	11.4	8.5	78.6		
8:35	5/18/2009	2.0	12.4	7.2	78.4		

CH4 = Methane

CO2 = Carbon Dioxide

O2 = Oxygen

N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	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	
	10:45	11/16/2009	15.5	4.5	16.0	64.0	
	9:15	12/18/2009	24.0	23.8	0.0	52.2	
	9:00	12/28/2009	21.5	22.4	5.0	51.1	
	9:10	1/11/2010	15.5	20.4	2.8	61.3	
	12:30	2/25/2010	21.2	21.2	0.7	56.9	
	9:45	3/8/2010	18.0	21.2	0.2	60.6	
	9:20	3/22/2010	18.0	21.2	0.3	60.5	
	9:20	4/5/2010	7.0	20.2	1.2	71.6	
	9:12	4/19/2010	14.0	21.0	0.1	64.9	
	9:12	5/3/2010	12.5	21.4	0.0	66.1	
	9:42	5/17/2010	22.5	23.6	0.0	53.9	
	9:04	5/25/2010	5.0	19.8	2.9	72.3	
	9:10	6/24/2010	9.0	19.6	1.7	69.7	
	9:00	7/19/2010	3.4	16.8	2.7	77.1	
	8:50	8/2/2010	4.5	12.0	3.0	80.6	
	9:43	8/16/2010	14.0	22.0	1.2	62.8	
	8:47	8/30/2010	21.5	25.0	1.0	52.5	
	9:00	9/13/2010	30.0	26.6	1.2	42.2	
	9:47	9/28/2010	37.0	28.2	1.2	33.6	
	8:10	10/12/2010	24.0	25.0	1.7	49.3	
	9:12	10/25/2010	35.5	26.8	1.2	36.5	
	9:30	11/2/2010	15.5	22.0	1.9	60.6	
	8:45	11/15/2010	13.5	21.0	1.7	63.8	
	9:40	12/10/2010	9.0	19.2	2.1	69.7	
	8:50	12/23/2010	6.0	18.2	2.8	73.0	
	9:10	1/10/2011	28.0	4.8	15.7	51.5	
	12:00	2/11/2011	30.5	20.8	0.5	48.2	
	9:40	2/22/2011	1.7	7.4	14.2	76.7	
	9:15	3/7/2011	4.4	10.0	11.5	74.1	
	11:45	3/24/2011	7.5	12.2	6.9	73.4	
	8:45	4/6/2011	17.5	19.2	0.9	62.4	
	8:12	4/25/2011	18.6	20.8	0.7	59.9	
	8:45	5/9/2011	29.5	22.8	0.4	47.3	
	9:00	5/23/2011	35.5	24.4	0.4	39.7	
	10:45	6/6/2011	39.5	25.2	0.3	35.0	
	8:59	6/15/2011	41.0	26.8	0.3	31.9	
	9:10	7/5/2011	35.4	26.0	0.6	38.0	
	8:09	7/13/2011	24.0	24.8	0.6	50.6	
	8:10	7/26/2011	35.0	27.4	0.7	36.9	
8:10	8/8/2011	20.0	23.6	0.5	55.9		
7:45	8/23/2011	19.0	24.8	0.9	55.3		
15:17	9/9/2011	29.0	1.2	26.4	43.4		
16:01	9/15/2011	19.0	24.6	0.5	55.9		
8:27	9/21/2011	39.5	29.0	0.5	31.0		
9:35	9/21/2011	20.0	22.1	1.5	56.4		
9:27	9/22/2011	26.0	22.2	4.8	47.0		
10:09	9/22/2011	9.9	19.2	2.5	68.4		
10:55	9/22/2011	11.5	18.8	3.3	66.4		
10:40	10/3/2011	4.6	13.6	8.1	73.8		
13:49	10/24/2011	7.5	20.4	1.2	70.9		
10:55	10/26/2011	7.5	16.4	5.8	70.3		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	10:40	11/7/2011	4.5	14.6	6.6	74.3	
	9:15	11/14/2011	7	17.8	3	72.2	
	10:30	11/14/2011	5	6.8	2.7	85.5	
	9:12	12/12/2011	7.5	16.8	4.3	71.4	
	10:17	12/27/2011	9	7	13.9	70.1	
	8:40	1/10/2012	12	19.6	1	67.4	
	10:05	1/25/2012	11.5	22.6	0.2	65.7	
	9:15	2/20/2012	12.5	14.4	2.1	71	
	9:00	3/8/2012	11	18.4	2.9	67.7	
	10:20	4/2/2012	9.0	18.2	2.6	70.2	
	9:05	4/16/2012	14.9	20.4	1.2	63.5	
	9:10	4/30/2012	17.0	21.0	1.3	60.7	
	9:15	5/14/2012	16.0	21.0	1.3	61.7	
	9:10	5/29/2012	14.5	20.4	1.8	63.3	
	7:45	6/11/2012	23.0	23.8	1.4	51.8	
	9:40	6/25/2012	8.5	18.4	3.3	69.8	
	9:00	7/9/2012	12.0	19.4	3.1	65.5	
	8:33	7/23/2012	3.8	12.0	8.3	76.0	
	8:19	7/25/2012	10.0	18.8	2.8	68.4	
	9:00	8/6/2012	4.4	13.6	7.3	74.8	
	9:17	8/21/2012	4.1	13.8	6.5	75.7	
	9:10	9/4/2012	3.2	11.2	8.6	77.1	
	9:05	10/1/2012	2.3	9.4	10.2	78.2	
	8:30	10/15/2012	2.0	10.4	9.0	78.6	
	7:40	12/6/2012	15.0	19.4	1.4	64.2	
	9:00	12/17/2012	9.0	14.2	4.5	72.3	
	8:50	12/31/2012	42.0	2.6	18.7	36.7	1st time O2 over 5% (used rental meter)
	8:30	1/9/2013	28.0	1.8	19.6	50.6	wrong port used for O2 (3.3, 2nd reading)
	8:08	1/15/2013	21.0	20.4	0.3	58.3	
	9:05	1/28/2013	35.5	23.6	3.2	37.7	
	10:45	2/11/2013	18.5	12.8	9.4	59.3	
	9:15	2/25/2013	31.5	21.8	1.7	45.0	
	7:30	3/8/2013	34.5	22.6	0.1	42.8	
	8:50	3/22/2013	41.5	22.2	0.0	36.3	
	13:50	4/8/2013	10.5	15.6	4.3	69.6	
	15:15	4/22/2013	14.0	19.0	1.2	65.8	
	9:35	4/29/2013	4.3	13.2	5.0	77.6	Reduce from 23.5 hrs to 20.5 hrs on
	8:30	5/13/2013	3.4	11.6	7.4	77.7	Reduce from 20.5 hrs to 16 hrs on
	13:36	5/28/2013	4.8	13.2	5.8	76.2	Reduce from 16 hrs to 12 hrs on
	8:45	6/7/2013	3.9	13.0	6.1	77.1	
	8:12	6/21/2013	6.5	15.4	4.8	73.3	
	8:45	7/5/2013	3.6	13.0	6.2	77.2	
7:48	7/22/2013	5.0	15.2	4.7	75.1	Reduce from 12 hrs to 10 hrs on	
8:50	8/5/2013	10.0	18.6	2.4	69.0		
8:15	8/19/2013	9.0	17.4	3.1	70.5		
8:30	9/5/2013	2.4	10.2	10.0	77.5		
8:45	9/16/2013	3.5	11.4	9.2	75.9		
7:30	9/30/2013	23.5	21.6	3.5	51.4		
7:35	10/14/2013	14.5	19.4	4.5	61.6		
7:39	10/28/2013	12.0	16.2	6.7	65.1		
8:05	11/19/2013	15.0	18.0	5.8	61.2		
7:30	12/2/2013	41.5	25.6	1.4	31.5		
7:10	12/16/2013	22.5	20.0	3.2	54.3		
7:05	12/27/2013	39.5	24.6	0.6	35.3		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	7:05	1/13/2014	45.5	24.6	0.4	29.5	
	7:15	1/30/2014	39.5	24.0	0.3	36.2	
	7:30	2/12/2014	39.5	21.8	2.5	36.2	
	7:45	2/24/2014	12.5	15.6	4.2	67.7	
	8:15	3/10/2014	42.0	23.6	0.9	33.5	
	8:10	3/24/2014	12.4	14.0	5.7	67.9	
	7:25	4/7/2014	22.5	18.2	2.2	57.1	
	10:42	4/22/2014	8.5	13.8	5.1	72.6	
	7:40	5/7/2014	20.0	18.2	2.2	59.6	
	7:40	5/19/2014	9.0	16.6	2.9	71.5	
	7:10	5/30/2014	6.0	15.4	4.2	74.4	
	7:25	6/16/2014	3.1	11.6	8.0	77.4	
	7:48	6/30/2014	4.8	12.4	7.8	75.1	
	8:00	7/14/2014	3.0	11.4	8.4	77.2	
	7:48	7/28/2014	1.5	10.2	10.0	78.4	
	8:15	8/11/2014	2.5	11.2	8.4	77.9	
	7:20	8/25/2014	1.1	8.6	10.7	79.7	
	7:40	9/8/2014	1.9	10.4	9.2	78.5	
	7:25	9/22/2014	1.5	9.8	10.4	78.3	
	7:45	10/7/2014	3.0	11.8	7.4	77.9	
	7:40	10/20/2014	6.0	16.0	2.8	75.2	
	7:30	11/3/2014	10.5	16.6	4.2	68.7	
	7:25	11/17/2014	12.5	16.2	4.9	66.4	
	7:30	12/2/2014	9.5	16.2	4.1	70.2	
	7:10	12/15/2014	24.5	20.0	1.7	53.8	Blower off
	7:15	12/18/2014	16.0	18.8	1.6	63.6	
	7:25	1/2/2015	14.5	18.0	2.9	64.6	
	7:18	1/16/2015	12.0	14.5	4.5	69.0	
	7:25	1/26/2015	27.0	19.6	0.6	52.8	
	7:25	2/9/2015	9.0	15.2	4.5	71.3	
	7:55	2/24/2015	19.5	11.4	9.0	60.1	
	8:21	3/9/2015	14.0	16.2	2.2	67.6	
	7:20	3/23/2015	6.5	13.6	3.4	76.5	
	7:30	4/6/2015	7.0	13.8	3.8	75.4	
	8:23	4/22/2015	49.0	9.6	8.7	32.7	
	7:15	5/4/2015	3.7	11.4	5.3	79.7	
	7:20	5/18/2015	7.0	15.6	3.0	74.4	
	7:20	6/1/2015	6.0	15.4	2.9	75.7	
	7:27	6/15/2015	9.5	17.6	1.9	71.0	
	7:30	6/29/2015	12.0	19.0	2.0	67.0	
	7:21	7/14/2015	9.5	18.0	2.5	70.0	
	7:16	7/27/2015	4.6	15.6	3.4	76.4	
	7:22	8/10/2015	5.5	15.4	2.9	76.2	
	7:20	8/24/2015	5.0	15.6	3.4	76.0	
	7:35	9/8/2015	11.5	20.4	1.2	66.9	
	7:45	9/21/2015	2.8	12.4	6.5	78.4	
	7:25	10/5/2015	8.5	19.6	1.3	70.6	
7:30	10/19/2015	12.0	19.2	1.7	67.1		
7:45	11/2/2015	3.3	12.2	6.6	78.0		
7:25	11/16/2015	8.5	18.2	1.1	72.2		
10:55	11/30/2015	7.0	15.0	5.6	72.4		
7:16	12/15/2015	5.5	14.2	3.7	76.6		
7:30	12/28/2015	11.0	18.6	1.3	69.1		
8:11	1/9/2016	8.0	15.0	3.6	73.4		
7:45	1/25/2016	20.0	20.6	1.3	58.1		
7:45	2/8/2016	14.5	17.2	2.3	66.0		
8:27	2/22/2016	12.0	15.8	1.7	70.5		
7:42	3/7/2016	19.5	16.6	1.9	62.0		
8:25	3/21/2016	16.5	18.8	1.4	63.3		
7:45	4/4/2016	1.5	10.4	8.8	79.4		
8:00	4/18/2016	8.5	15.2	3.1	73.2		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Active Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-6	9:35	5/3/2016	19.5	18.8	2.0	59.7	
	7:45	5/16/2016	20.0	19.4	2.0	58.6	
	7:40	6/2/2016	10.5	16.8	3.2	69.5	
	7:45	6/14/2016	16.5	19.4	2.3	61.8	
	7:40	6/27/2016	7.5	15.2	3.9	73.4	
	10:15	7/14/2016	9.5	17.4	3.8	69.3	
	7:50	7/25/2016	4.3	13.2	6.9	75.6	
	7:40	8/8/2016	5.5	13.8	6.9	73.8	
	7:25	8/25/2016	4.7	13.0	7.4	75.0	
	7:25	9/6/2016	4.9	12.2	8.2	74.8	
	9:55	10/3/2016	5.0	13.2	7.3	74.5	
	8:06	10/19/2016	2.2	9.8	10.1	78.0	
	8:38	10/31/2016	5.5	13.0	7.8	73.7	
	8:07	11/14/2016	6.5	14.6	5.8	73.1	
	9:01	11/28/2016	15.5	18.8	2.2	63.5	
	9:10	12/9/2016	4.5	13.4	6.7	75.4	
	7:50	12/22/2016	7.5	15.4	3.5	73.6	
	7:50	1/4/2017	13.0	16.4	2.9	67.7	
	7:20	1/13/2017	12.1	14.8	3.3	69.8	
	7:16	1/27/2017	24.5	19.6	1.8	54.1	
	7:47	2/13/2017	14.5	14.8	2.5	68.2	
	7:50	2/27/2017	17.0	15.8	3.3	63.9	
	8:15	3/13/2017	36.5	20.8	0.6	42.1	
	7:18	3/28/2017	24.0	17.6	2.8	55.6	
	8:00	4/12/2017	17.5	17.4	2.8	62.3	
	7:40	4/18/2017	25.0	19.4	2.3	53.3	
	7:09	4/25/2017	35.5	21.6	2.0	40.9	
	7:12	5/8/2017	17.5	19.0	2.7	60.8	
	7:22	5/22/2017	17.5	19.2	2.3	61.0	
	7:40	6/5/2017	11.0	17.6	3.2	68.2	
	7:28	6/19/2017	4.8	14.0	5.8	75.5	
	8:24	7/4/2017	6.5	14.8	6.3	72.4	
	7:46	7/18/2017	7.5	16.6	4.4	71.5	
	7:50	8/1/2017	10.0	18.0	4.0	68.0	
	7:56	8/14/2017	16.0	21.0	2.8	60.2	
	8:10	8/29/2017	10.0	17.6	4.7	67.7	
	7:58	9/12/2017	17.0	20.8	3.9	58.3	
	8:09	9/25/2017	9.5	16.2	5.7	68.6	
	8:12	10/10/2017	3.4	11.0	9.9	75.7	
	7:52	10/23/2017	13.5	16.4	6.4	63.7	
	7:59	11/6/2017	2.6	10.0	9.1	78.3	
	8:06	11/17/2017	18.0	20.8	2.3	58.9	
	8:03	12/1/2017	5.0	10.6	9.2	75.2	
	8:13	12/18/2017	10.0	14.0	6.1	69.9	
	8:49	1/3/2018	9.5	11.8	8.0	70.7	
7:59	1/11/2018	12.0	14.0	6.7	67.3		
7:57	1/26/2018	5.0	8.6	11.7	74.7		
8:14	2/13/2018	2.1	6.8	13.3	77.8		
7:44	2/27/2018	2.3	8.4	7.7	81.6		
7:44	3/13/2018	1.6	6.2	12.7	79.6		
8:06	3/28/2018	3.2	9.6	7.4	79.9		
8:19	4/10/2018	2.1	8.0	9.6	80.4		
7:49	4/25/2018	4.5	9.4	7.8	78.3		
8:06	5/8/2018	3.7	10.2	7.3	78.8		
7:53	5/21/2018	3.0	9.4	9.9	77.7		
8:11	6/5/2018	4.3	11.8	6.9	77.1		
7:58	6/20/2018	6.5	13.8	5.9	73.8		
8:06	6/28/2018	5.0	13.8	5.6	75.6		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Closed Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-4	17:14	3/26/2007	2.6	19.2	2.1	76.1	
	7:33	3/27/2007	1.7	18.8	2.8	76.7	
	16:24	3/28/2007	2.5	19.2	1.9	76.4	
	8:08	3/29/2007	2.9	19.2	1.5	76.4	
	17:04	3/29/2007	3.3	19.2	1.7	75.9	
	8:08	3/30/2007	8.5	20.6	0.2	70.7	blower off
	10:54	5/30/2007	39.5	27.4	0.2	32.9	restart and run 24 hrs
	13:34	5/30/2007	37.5	26.8	0.2	35.5	
	10:35	5/31/2007	16.5	23.8	0.2	59.5	reduce to 12 on 12 off
	16:36	6/1/2007	12.5	22.5	0.4	64.6	
	15:33	6/2/2007	11.0	22.4	0.4	66.2	
	16:13	6/3/2007	9.5	21.8	0.3	68.4	
	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	

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH4 = Methane
 CO2 = Carbon Dioxide
 O2 = Oxygen
 N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Closed Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-12	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	
	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		

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Closed Extraction Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GV-12	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	
	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
	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

CH₄ = Methane
CO₂ = Carbon Dioxide
O₂ = Oxygen
N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	11:03	3/20/2006	18.8	8.1	0.4	72.7	pre-startup
	15:25	3/22/2006	17.9	8.0	0.4	73.7	
	14:10	3/23/2006	21.4	11.5	0.2	66.9	
	14:00	3/30/2006	0.8	2.4	15.0	81.8	
	13:45	4/6/2006	0.6	1.5	16.8	81.1	
	13:40	4/11/2006	1.2	0.8	19.3	78.7	
	11:33	4/14/2006	0.0	1.9	14.7	83.4	
	10:28	4/17/2006	3.8	4.8	16.8	74.6	
	7:15	4/28/2006	2.5	3.2	18.1	76.2	
	13:30	5/4/2006	0.0	3.4	13.9	82.7	
	10:45	5/22/2006	0.1	1.2	19.3	79.4	
	12:23	6/2/2006	0.1	3.5	12.1	84.3	
	8:02	6/9/2006	2.6	2.0	19.8	75.6	
	12:49	6/14/2006	1.1	3.9	15.4	79.6	
	11:10	6/22/2006	0.7	1.0	18.1	80.2	
	11:47	7/5/2006	0.6	2.4	14.9	82.1	
	11:15	7/10/2006	0.7	4.5	14.1	80.7	
	10:35	7/17/2006	0.8	2.9	15.8	80.5	
	13:42	7/28/2006	2.0	1.7	12.2	84.1	
	10:19	8/8/2006	4.4	8.5	12.9	74.2	
	8:20	8/16/2006	1.4	3.6	15.5	79.5	
	8:05	8/21/2006	0.5	0.6	13.0	85.9	
	13:52	8/28/2006	3.4	7.6	11.2	77.8	
	11:09	9/13/2006	4.6	0.1	12.5	82.8	
	10:28	9/25/2006	0.0	0.0	10.7	89.3	
	8:05	10/10/2006	0.7	2.3	17.6	79.4	
	8:07	10/23/2006	0.7	2.7	19.0	77.6	
	14:35	11/2/2006	0.3	2.6	17.6	79.5	
	13:35	11/14/2006	0.2	2.6	15.9	81.3	
	11:08	11/27/2006	0.2	0.4	19.3	80.2	
	12:20	12/26/2006	0.1	3.6	12.3	84.1	
	13:13	1/27/2007	0.5	2.8	14.6	82.2	
	10:50	2/24/2007	0.4	0.0	20.4	79.3	
	17:29	3/28/2007	0.3	2.4	14.6	82.8	
	10:25	5/1/2007	0.2	2.2	12.6	85.1	
	10:27	5/1/2007	0.1	1.2	16.1	82.6	
	12:00	5/30/2007	2.0	7.2	7.1	83.7	
	16:35	6/6/2007	11.0	10.6	0.8	77.6	
	14:48	6/7/2007	6.0	7.6	5.7	80.7	
	16:59	6/12/2007	1.1	6.0	9.4	83.5	
	14:25	6/14/2007	7.0	10.4	2.1	80.5	
	14:15	6/19/2007	3.5	6.6	9.7	80.3	
	14:10	6/21/2007	0.4	6.0	10.1	83.5	
	14:00	7/11/2007	4.0	8.4	8.3	79.3	
	14:35	7/23/2007	8.5	13.8	2.0	75.7	
	14:25	8/8/2007	9.5	14.8	2.4	73.3	
	11:45	8/13/2007	6.5	12.4	5.6	75.5	
13:30	8/20/2007	5.5	10.8	9.2	74.5		
13:55	8/28/2007	12.0	15.8	2.2	70.0		
15:40	8/31/2007	9.5	14.0	4.2	72.3		
14:35	9/4/2007	8.0	13.6	4.4	74.0		
13:05	9/17/2007	0.2	6.0	12.0	81.8		
9:25	9/29/2007	0.2	4.6	13.9	81.4		
8:25	10/4/2007	0.4	2.8	17.1	79.7		
9:25	10/7/2007	0.6	3.4	15.3	80.7		
10:15	10/18/2007	6.5	12.2	4.2	77.1		
8:45	10/25/2007	0.1	3.6	15.5	80.8		
9:00	11/1/2007	0.1	5.4	13.8	80.7		
9:40	11/13/2007	0.2	3.8	13.7	82.4		
11:10	11/26/2007	0.3	1.2	19.3	79.3		
10:40	12/10/2007	0.4	1.2	19.4	79.0		
11:25	12/26/2007	0.3	1.4	18.6	79.8		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:55	1/9/2008	0.4	1.0	17.7	81.0	
	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:00	2/4/2008	0.1	2.2	14.6	83.1	
	7:30	2/18/2008	0.2	2.0	14.8	83.0	
	7:10	3/4/2008	0.1	1.2	19.1	79.6	
	8:05	3/18/2008	0.1	0.4	19.5	80.0	
	14:00	5/12/2008	0.0	4.8	3.5	91.7	
	8:55	5/19/2008	0.1	5.8	4.5	89.7	
	13:30	5/30/2008	7.0	7.8	0.8	84.4	
	8:55	6/12/2008	0.0	2.2	17.0	80.8	
	8:55	6/25/2008	10.5	10.0	0.0	79.5	
	10:55	7/7/2008	8.5	11.0	0.0	80.5	opened GV-6 to 200 ft/min
	11:50	7/21/2008	13.5	11.8	0.0	74.7	
	9:37	8/5/2008	26.5	13.4	0.0	60.1	
	10:40	8/5/2008	18.0	11.6	2.1	68.3	vent for 1 hour with cap off
	8:55	8/13/2008	22.5	14.4	0.0	63.1	increase to 12 on 12 off
	9:55	8/13/2008	17.5	11.4	3.1	68.0	vent for 1 hour with cap off
	8:35	8/19/2008	7.0	12.6	3.4	77.0	
	10:00	8/19/2008	6.0	14.0	1.3	78.7	vent for 1 hour with cap off
	11:58	10/3/2008	4.2	7.0	11.6	77.3	
	11:12	10/13/2008	1.8	4.4	14.2	79.6	
	9:00	10/28/2008	0.0	4.6	13.6	81.8	
	7:20	11/6/2008	0.4	3.4	15.1	81.1	
	10:15	12/8/2008	0.1	2.6	16.0	81.3	
	10:00	12/24/2008	0.0	2.2	15.7	82.1	
	11:30	1/8/2009	0.1	3.4	16.8	79.8	
	11:05	1/18/2009	0.1	3.6	16.1	80.2	
	7:20	1/27/2009	0.2	1.2	20.9	77.7	
	8:20	2/6/2009	0.1	0.6	19.8	79.5	
	10:30	2/23/2009	0.0	2.2	18.5	79.3	
	10:00	3/9/2009	0.0	1.8	17.9	80.3	
	10:00	3/20/2009	0.1	1.0	19.6	79.4	
	9:35	4/9/2009	0.0	2.8	8.7	88.5	
	10:20	4/19/2009	0.0	3.6	5.2	91.2	
	8:20	5/4/2009	0.0	3.8	1.8	94.4	
	8:25	5/18/2009	0.0	5.0	5.8	89.2	
	10:00	6/1/2009	0.0	6.6	6.1	87.3	
	8:40	6/14/2009	0.4	5.2	8.3	86.1	
	8:30	7/2/2009	0.0	3.2	15.1	81.7	
	7:20	7/13/2009	1.0	7.4	8.9	82.8	
	8:40	7/13/2009	0.0	0.8	18.9	80.3	vent for 1 hour with cap off
	7:20	7/22/2009	0.1	5.8	11.3	82.9	
	8:35	8/11/2009	0.0	3.4	14.7	81.9	
	8:30	8/24/2009	0.0	3.6	14.7	81.7	
	9:05	9/8/2009	2.0	7.8	9.4	80.8	
	9:05	9/21/2009	1.8	6.0	12.1	80.1	
10:05	10/5/2009	0.0	5.8	12.9	81.3		
10:30	10/28/2009	0.0	3.8	14.2	82.0		
10:35	11/16/2009	0.0	2.4	16.5	81.1		
9:05	12/18/2009	0.0	3.2	14.4	82.4		
8:40	12/28/2009	0.0	1.0	18.4	80.6		
8:45	1/11/2010	0.0	3.2	14.1	82.7		
8:50	1/26/2010	0.3	4.0	9.1	86.7		
10:32	2/25/2010	0.2	4.2	7.3	88.4		
9:35	3/8/2010	0.0	5.4	1.0	93.6		
9:05	3/22/2010	0.0	2.6	7.2	90.2		
9:08	4/5/2010	0.0	3.8	14.6	81.6		
9:05	4/19/2010	0.0	4.2	7.0	88.8		
9:05	5/3/2010	0.0	1.2	17.6	81.2		
9:35	5/17/2010	0.2	3.4	11.8	84.6		
13:00	5/25/2010	0.0	4.8	10.7	84.5		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	9:05	6/24/2010	0.1	7.8	8.0	84.2	
	10:05	7/6/2010	0.0	8.8	3.0	88.2	
	8:38	7/19/2010	0.6	6.4	7.8	85.3	
	8:45	8/2/2010	2.6	9.4	3.9	84.1	
	9:35	8/16/2010	3.1	12.6	1.0	83.4	
	8:40	8/30/2010	2.2	9.0	6.6	82.3	
	8:50	9/13/2010	5.5	12.4	1.5	80.6	
	10:40	9/28/2010	3.7	11.2	1.9	83.2	
	6:50	10/12/2010	14.0	15.0	0.0	71.0	
	9:05	10/25/2010	16.5	16.0	0.0	67.5	
	9:20	11/2/2010	0.0	5.4	9.3	85.3	
	8:35	11/15/2010	4.4	9.0	3.8	82.8	
	9:30	12/10/2010	0.0	11.2	0.1	88.7	
	8:35	12/23/2010	0.0	1.2	17.9	80.9	
	9:05	1/10/2011	0.0	2.8	14.4	82.8	
	8:15	1/25/2011	0.2	5.0	8.1	86.7	
	11:35	2/11/2011	0.1	4.0	9.4	86.6	
	9:20	2/22/2011	0.2	1.0	18.1	80.8	
	8:55	3/7/2011	0.1	1.4	13.1	85.4	
	11:30	3/24/2011	0.3	0.2	20.9	78.6	
	8:35	4/6/2011	0.1	0.2	20.1	79.6	
	10:30	4/25/2011	0.1	0.2	20.7	79.0	
	8:35	5/9/2011	0.1	3.2	11.2	85.6	
	8:50	5/23/2011	0.0	5.4	3.8	90.8	
	10:35	6/6/2011	6.4	7.0	4.4	82.2	
	8:50	6/15/2011	15.5	9.6	0.3	74.6	
	9:00	7/5/2011	15.0	6.6	8.7	69.7	
	6:38	7/13/2011	12.0	13.0	0.4	74.6	
	8:00	7/26/2011	13.0	12.0	0.5	74.5	
	8:05	8/8/2011	12.5	12.6	0.3	74.6	
	7:35	8/23/2011	25.0	16.0	0.3	58.7	
	15:30	9/9/2011	26.0	18.2	0.2	55.6	
	15:58	9/15/2011	11.5	15.8	3.1	69.6	
	8:20	9/21/2011	18.5	18.2	0.4	62.9	
	9:25	9/21/2011	13.5	17.4	1.5	67.6	
	9:17	9/22/2011	6.0	10.8	8.1	75.1	
	10:04	9/22/2011	7.0	17.0	1.7	74.3	
	10:50	9/22/2011	3.8	9.6	10.2	76.5	
	10:35	10/3/2011	4.7	9.0	9.1	77.2	
	13:40	10/24/2011	1.9	15.0	2.2	80.9	
	10:45	10/26/2011	1.5	6.0	13.5	79.0	
	10:30	11/7/2011	0.3	4.0	14.8	81.0	
9:08	11/14/2011	4.7	7.6	1.9	85.8		
9:05	12/12/2011	0.1	1.6	15.3	83.1		
10:05	12/27/2011	3.6	4.4	1.5	90.5		
8:30	1/10/2012	4.6	4.4	0.1	91.0		
10:15	1/25/2012	0.1	4.6	4.9	90.4		
9:00	2/20/2012	5.5	3.6	3.1	87.8		
8:40	3/8/2012	1.6	0.6	17.2	80.7		
10:10	4/2/2012	0.1	1.2	18.4	80.3		
8:50	4/16/2012	0.0	0.4	19.7	79.9		
9:04	4/30/2012	0.4	5.6	1.4	92.7		
9:05	5/14/2012	0.0	6.0	3.2	90.8		
8:55	5/29/2012	2.1	10.4	1.1	86.5		
7:35	6/11/2012	0.4	8.4	6.8	84.4		
9:23	6/25/2012	4.6	10.4	4.2	80.8		
8:50	7/9/2012	10.0	14.0	0.8	75.2		
8:15	7/23/2012	2.6	9.2	7.8	80.5		
10:15	7/25/2012	2.1	6.8	10.4	80.8		
8:45	8/6/2012	3.3	10.4	7.3	79.0		
9:05	8/21/2012	0.6	6.2	11.5	81.8		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	9:04	9/4/2012	3.3	9.2	8.4	79.1	
	8:45	10/1/2012	0.0	3.8	13.9	82.3	
	8:21	10/15/2012	0.0	3.8	14.0	82.2	
	7:20	12/6/2012	0.0	6.0	13.8	80.2	
	8:50	12/17/2012	0.0	3.2	14.4	82.4	
	8:35	12/31/2012	0.0	3.2	16.0	80.8	
	8:30	1/9/2013	0.0	6.2	12.2	81.6	
	10:15	1/15/2013	0.0	3.8	15.7	80.5	
	8:50	1/28/2013	0.0	3.4	14.7	81.9	
	10:35	2/11/2013	0.0	1.6	16.2	82.2	
	9:05	2/25/2013	0.0	1.4	17.7	80.9	
	7:18	3/8/2013	0.0	0.6	19.0	80.4	
	8:35	3/22/2013	0.0	1.4	17.8	80.8	
	13:35	4/8/2013	0.0	0.2	20.9	78.9	
	15:05	4/22/2013	0.0	0.0	20.0	80.0	
	9:30	4/29/2013	0.0	0.2	20.9	78.9	
	8:20	5/13/2013	0.0	1.2	18.8	80.0	
	13:05	5/28/2013	0.0	2.0	17.9	80.1	
	8:35	6/7/2013	0.0	4.8	11.7	83.5	
	8:05	6/21/2013	0.0	6.0	10.7	83.3	
	8:35	7/5/2013	0.0	3.4	9.2	87.4	
	7:40	7/22/2013	0.1	5.8	11.7	82.5	
	8:45	8/5/2013	2.9	8.6	8.0	80.5	
	8:05	8/19/2013	1.5	2.8	17.1	78.6	
	8:20	9/15/2013	0.7	5.4	13.3	80.7	
	8:35	9/16/2013	0.5	4.4	14.6	80.5	
	7:20	9/30/2013	0.6	6.8	11.0	81.6	
	8:05	10/14/2013	1.0	4.2	15.2	79.6	
	7:20	10/28/2013	0.0	3.2	16.1	80.7	
	7:48	11/19/2013	0.0	4.2	15.2	80.6	
	7:20	12/2/2013	0.0	5.0	12.2	82.8	
	7:02	12/16/2013	0.0	5.4	12.7	81.9	
	7:00	12/27/2013	0.0	4.6	14.0	81.4	
	7:01	1/13/2014	0.0	1.2	17.6	81.2	
	7:05	1/30/2014	0.0	0.0	20.9	79.1	
	7:18	2/12/2014	0.0	0.0	20.9	79.1	
	7:35	2/24/2014	0.0	3.6	16.4	80.0	
	8:05	3/10/2014	0.0	2.8	15.6	81.6	
	8:02	3/24/2014	0.0	2.8	7.4	89.8	
	7:17	4/7/2014	0.0	0.2	19.3	80.5	
	7:40	4/22/2014	0.0	0.0	20.9	79.1	
	7:25	5/7/2014	0.0	0.8	18.9	80.3	
	7:35	5/19/2014	0.0	3.0	14.3	82.7	
7:03	5/30/2014	0.0	4.6	12.1	83.3		
7:20	6/16/2014	0.0	4.6	11.4	84.0		
7:35	6/30/2014	0.2	8.4	4.7	86.7		
7:45	7/14/2014	0.1	0.6	20.9	78.5		
7:42	7/28/2014	0.0	5.6	13.1	81.3		
8:10	8/11/2014	4.1	10.2	5.6	80.2		
8:30	8/12/2014	5.0	11.2	5.3	78.5		
7:12	8/25/2014	2.3	8.0	8.1	81.6		
7:35	9/8/2014	0.1	6.2	11.4	82.3		
7:18	9/22/2014	0.0	4.2	15.8	80.0		
7:33	10/7/2014	0.0	3.4	16.0	80.6		
7:32	10/20/2014	0.5	6.0	10.6	83.0		
7:18	11/3/2014	0.0	8.2	8.0	83.8		
7:15	11/17/2014	0.0	11.2	2.2	86.6		
7:18	12/2/2014	0.0	6.8	8.5	84.7		
7:05	12/15/2014	0.0	3.0	14.4	82.6	Blower Off	
7:08	12/18/2014	1.8	7.4	1.2	89.6		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	7:12	1/2/2015	0.1	1.2	19.2	79.5	
	7:08	1/16/2015	0.0	4.2	9.0	86.8	
	7:18	1/26/2015	0.0	4.0	9.8	86.2	
	7:18	2/9/2015	0.0	3.2	12.9	83.9	
	7:40	2/24/2015	0.0	6.8	5.9	87.3	
	8:10	3/9/2015	0.0	3.0	15.1	81.9	
	7:10	3/23/2015	0.0	2.6	15.5	81.9	
	7:18	4/6/2015	0.0	3.0	15.5	81.5	
	9:05	4/22/2015	0.0	0.0	20.9	79.1	
	7:05	5/4/2015	0.0	0.0	20.9	79.1	
	7:15	5/18/2015	0.0	5.6	9.7	84.7	
	7:04	6/1/2015	0.0	0.8	20.1	79.1	
	7:15	6/15/2015	0.0	1.4	18.4	80.2	
	7:18	6/29/2015	0.0	6.6	9.6	83.8	
	7:12	7/14/2015	0.0	1.0	19.6	79.4	
	7:08	7/27/2015	0.1	6.2	10.6	83.1	
	7:15	8/10/2015	7.0	12.2	2.3	78.5	
	7:12	8/24/2015	0.0	10.8	7.5	81.7	
	7:20	9/8/2015	0.6	6.8	9.9	82.7	
	7:35	9/21/2015	0.3	6.6	11.0	82.1	
	7:13	10/5/2015	3.6	10.4	6.1	79.9	
	7:18	10/19/2015	0.0	8.4	10.1	81.5	
	7:35	11/2/2015	0.0	4.8	14.1	81.1	
	7:17	11/16/2015	0.0	2.8	17.2	80.0	
	10:48	11/30/2015	0.0	1.0	20.5	78.5	
	7:08	12/15/2015	0.0	0.0	20.9	79.1	
	7:10	12/28/2015	0.0	0.0	20.9	79.1	
	8:02	1/9/2016	0.0	0.0	20.8	79.2	
	7:33	1/25/2016	0.0	0.0	20.9	79.1	
	7:30	2/8/2016	0.0	0.8	18.7	80.5	
	7:18	2/22/2016	0.05	0.6	19.0	80.4	
	7:32	3/7/2016	0.0	0.0	20.9	79.1	
	8:15	3/21/2016	0.0	0.0	20.9	79.1	
	7:34	4/4/2016	0.0	0.0	20.9	79.1	
	7:40	4/18/2016	0.0	0.0	20.9	79.1	
	8:47	5/3/2016	0.0	5.0	7.1	87.9	
	7:35	5/16/2016	0.0	6.4	7.3	86.3	
	7:33	6/2/2016	0.0	7.0	7.8	85.2	
	7:35	6/14/2016	0.0	6.2	11.1	82.7	
	7:35	6/27/2016	0.0	8.4	9.8	81.8	
	10:05	7/14/2016	0.1	13.2	3.0	83.7	
	7:29	7/25/2016	0.9	7.6	8.2	83.4	
	7:32	8/8/2016	1.2	7.0	10.1	81.8	
7:18	8/25/2016	0.0	1.0	20.4	78.6		
7:18	9/6/2016	0.2	4.8	14.0	81.0		
9:42	10/3/2016	1.2	7.4	8.5	82.9		
7:48	10/19/2016	0.0	5.4	12.8	81.8		
8:26	10/31/2016	0.1	11.2	5.0	83.8		
7:57	11/14/2016	0.0	7.0	9.0	84.0		
8:41	11/28/2016	0.0	7.0	7.1	85.9		
9:00	12/9/2016	0.2	1.4	19.7	78.7		
7:35	12/22/2016	0.0	12.0	5.2	82.8		
7:35	1/4/2017	0.0	0.4	20.8	78.8		
7:11	1/13/2017	0.0	0.2	20.8	79.0		
7:04	1/27/2017	0.0	0.0	20.9	79.1		
7:40	2/13/2017	0.0	2.6	7.4	90.0		
7:35	2/27/2017	0.0	0.0	20.0	80.0		
8:03	3/13/2017	0.0	0.0	20.9	79.1		
7:04	3/28/2017	0.0	0.0	20.9	79.1		
7:46	4/12/2017	0.0	0.0	20.9	79.1		
6:49	4/18/2017	0.0	0.0	20.9	79.1		
6:53	4/25/2017	0.0	0.0	20.9	79.1		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-1	7:03	5/8/2017	0.0	0.0	20.9	79.1	
	7:12	5/22/2017	0.0	7.0	7.2	85.8	
	7:23	6/5/2017	0.0	5.6	11.7	82.7	
	7:18	6/19/2017	0.0	0.8	20.3	78.9	
	8:21	7/4/2017	0.0	6.0	8.5	85.5	
	7:40	7/18/2017	1.6	8.8	5.4	84.2	
	7:42	8/1/2017	0.0	8.8	8.1	83.1	
	7:50	8/14/2017	0.2	11.6	6.0	82.3	
	8:01	8/29/2017	3.4	9.4	7.0	80.2	
	7:51	9/12/2017	1.4	8.6	8.3	81.7	
	8:02	9/25/2017	1.7	7.8	9.4	81.2	
	8:05	10/10/2017	0.1	4.4	14.4	81.2	
	7:43	10/23/2017	0.0	4.8	13.7	81.5	
	7:50	11/6/2017	1.0	7.2	8.3	83.6	
	8:59	11/17/2017	0.0	4.8	13.6	81.6	
	7:56	12/1/2017	0.0	4.4	14.1	81.5	
	8:06	12/18/2017	0.0	6.4	10.3	83.3	
	8:39	1/3/2018	0.0	4.2	14.1	81.7	
	7:53	1/11/2018	0.0	5.8	11.1	83.1	
	7:43	1/26/2018	0.0	3.4	15.1	81.5	
	7:58	2/13/2018	0.0	2.2	17.9	79.9	
	7:36	2/27/2018	0.0	1.8	18.5	79.7	
	7:34	3/13/2018	0.0	1.2	18.6	80.2	
	7:58	3/28/2018	0.0	3.6	14.3	82.1	
	8:13	4/10/2018	0.0	4.4	15.0	80.6	
	7:43	4/25/2018	0.0	1.2	18.7	80.1	
	7:58	5/8/2018	0.0	2.8	14.5	82.7	
	7:46	5/21/2018	0.0	5.4	7.5	87.1	
	8:03	6/5/2018	0.0	3.8	15.5	80.7	
	7:40	6/20/2018	0.0	5.0	14.1	80.9	
8:00	6/28/2018	0.1	6.0	9.3	84.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

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

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-2	10:10	1/15/2013	0.0	3.2	17.5	79.3	
	7:45	4/29/2013	0.0	1.0	20.4	78.6	
	9:35	7/22/2013	0.0	2.4	18.0	79.6	
	9:05	10/14/2013	0.0	3.2	18.6	78.2	
	11:39	4/22/2014	0.0	3.6	15.8	80.6	
	8:00	4/22/2015	0.0	2.6	17.7	79.7	
	9:02	4/18/2016	0.0	0.8	20.2	79.0	
	9:05	4/12/2017	0.0	1.4	19.0	79.6	
	9:00	6/20/2018	0.0	3.0	17.0	80.0	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-3	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		
8:45	1/25/2011	0.2	0.2	19.8	79.8		
8:25	4/25/2011	0.2	4.6	14.9	80.3		
8:15	7/13/2011	0.0	0.0	20.1	79.9		
11:12	10/26/2011	0.0	0.2	20.4	79.4		
11:30	1/25/2012	0.1	4.2	15.4	80.3		
8:50	4/2/2012	0.0	0.0	20.9	79.1		
8:27	7/25/2012	0.0	2.4	15.4	82.2		
10:59	10/15/2012	0.0	0.0	19.0	81.0		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-3	11:00	1/15/2013	0.0	3.8	15.3	80.9	
	13:00	4/29/2013	0.0	1.2	19.3	79.5	
	9:12	7/22/2013	0.0	2.0	18.3	79.7	
	9:15	10/14/2013	0.0	0.6	20.3	79.1	
	12:11	4/22/2014	0.0	0.0	20.9	79.1	
	11:40	4/22/2015	0.0	0.0	20.9	79.1	
	9:25	4/18/2016	0.0	1.0	20.1	78.9	
	9:21	4/12/2017	0.0	0.0	20.9	79.1	
	7:50	4/18/2017	0.0	3.6	15.0	81.4	
	8:05	6/20/2018	0.0	1.4	19.4	79.2	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-4	9:11	3/22/2006	0.0	1.4	20.4	78.2	pre-startup
	15:35	3/23/2006	0.0	0.8	19.8	79.4	
	15:40	3/30/2006	0.5	0.8	21.8	76.9	
	14:40	4/6/2006	0.8	1.3	18.9	79.0	
	14:35	4/11/2006	0.2	0.9	19.2	79.7	
	12:18	4/14/2006	0.0	1.3	18.1	80.6	
	11:35	4/17/2006	1.3	0.8	20.4	77.5	
	10:40	4/28/2006	0.0	0.5	20.2	79.3	
	15:10	5/4/2006	1.3	0.6	13.2	84.9	
	11:50	5/22/2006	0.1	0.2	20.4	79.3	
	13:10	6/2/2006	0.2	0.8	19.1	79.9	
	9:12	6/9/2006	3.4	1.2	20.2	75.2	
	14:00	6/14/2006	0.0	0.0	19.9	80.1	
	10:39	6/22/2006	6.0	18.8	6.4	68.8	
	11:26	7/5/2006	0.6	0.6	20.0	78.8	
	10:43	7/10/2006	0.4	3.8	19.9	75.9	
	10:08	7/17/2006	0.9	0.6	19.6	78.9	
	12:34	7/28/2006	0.6	0.4	19.6	79.4	
	9:21	8/8/2006	0.6	0.3	19.7	79.4	
	7:42	8/16/2006	0.5	0.7	19.9	78.9	
	7:28	8/21/2006	0.4	0.5	20.0	79.1	
	13:31	8/28/2006	0.5	0.5	20.1	78.9	
	10:35	9/13/2006	0.7	0.6	20.2	78.5	
	9:59	9/25/2006	0.1	0.2	19.1	80.6	
	7:24	10/10/2006	0.6	0.5	20.3	78.6	
	7:40	10/23/2006	0.4	0.0	20.4	79.2	
	13:17	11/2/2006	0.5	0.2	21.0	78.3	
	13:11	11/14/2006	0.2	1.4	19.0	79.5	
	10:42	11/27/2006	0.1	0.6	19.7	79.7	
	14:04	12/26/2006	0.3	0.8	19.6	79.4	
	12:09	1/27/2007	0.1	0.4	19.6	79.9	
	12:38	2/24/2007	0.4	1.0	19.4	79.3	
	15:40	3/28/2007	0.1	0.2	19.8	79.9	
	10:50	5/1/2007	0.0	1.2	18.2	80.6	
	12:37	5/30/2007	0.0	1.8	17.5	80.7	
	13:40	6/19/2007	0.0	0.8	20.0	79.2	
	11:05	8/13/2007	0.0	0.6	20.6	78.8	
	10:10	10/18/2007	0.1	1.2	17.9	80.8	
	13:25	1/23/2008	0.3	0.4	20.9	78.4	
	7:25	6/12/2008	0.0	0.2	20.9	78.9	
10:45	7/21/2008	0.0	1.2	19.2	79.6		
11:18	10/3/2008	0.0	0.0	20.9	79.1		
10:05	10/13/2008	0.0	1.2	19.7	79.1		
7:05	1/27/2009	0.1	1.4	20.1	78.5		
11:15	4/9/2009	0.0	0.6	19.4	80.0		
10:37	7/22/2009	0.0	0.6	18.9	80.5		
9:33	10/28/2009	0.0	0.6	19.3	80.1		
8:14	1/26/2010	0.3	0.2	20.5	79.1		
8:11	5/25/2010	0.1	0.8	18.5	80.7		
9:05	9/28/2010	0.0	2.2	16.6	81.2		
7:20	1/25/2011	0.0	0.0	19.6	80.4		
7:30	4/25/2011	0.2	1.6	18.9	79.3		
7:18	7/13/2011	0.0	1.0	19.4	79.6		
11:15	10/26/2011	0.0	0.8	20.4	78.8		
7:17	1/25/2012	0.1	1.0	19.1	79.8		
9:15	4/2/2012	0.1	0.0	20.9	79.0		
7:51	7/25/2012	0.0	1.2	18.2	80.6		
11:08	10/15/2012	0.0	0.6	18.7	80.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-4	11:10	1/15/2013	0.0	2.4	18.4	79.2	
	8:06	4/29/2013	0.0	2.2	18.7	79.1	
	9:20	7/22/2013	0.0	2.2	17.6	80.2	
	9:25	10/14/2013	0.0	1.2	20.9	77.9	
	12:20	4/22/2014	0.0	1.8	17.9	80.3	
	7:45	4/22/2015	0.0	1.2	20.3	78.5	
	9:35	4/18/2016	0.05	1.4	19.3	79.3	
	9:27	4/12/2017	0.0	0.6	20.1	79.3	
	8:13	6/20/2018	0.0	1.8	19.2	79.0	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-5	9:13	3/22/2006	0.0	4.4	17.6	78.0	pre-startup
	14:15	3/23/2006	0.0	4.2	17.6	78.2	
	14:05	3/30/2006	1.2	2.5	18.8	77.5	
	13:40	4/6/2006	1.1	3.0	17.9	78.0	
	13:45	4/11/2006	0.7	2.7	17.5	79.1	
	12:50	4/14/2006	0.1	3.5	15.4	81.0	
	10:30	4/17/2006	0.0	3.6	16.2	80.2	
	10:35	4/28/2006	2.2	7.0	13.0	77.8	
	10:40	5/22/2006	1.5	8.5	11.2	78.8	
	12:25	6/2/2006	0.1	7.2	9.4	83.3	
	8:45	6/9/2006	0.1	0.3	10.5	89.1	
	12:18	6/14/2006	0.1	0.0	9.1	90.8	
	11:18	6/22/2006	0.7	10.7	10.5	78.1	
	11:51	7/5/2006	0.6	11.9	11.1	76.4	
	11:17	7/10/2006	0.7	12.0	10.1	77.2	
	10:22	7/17/2006	0.8	11.9	11.1	76.2	
	8:24	7/28/2006	0.6	10.1	11.5	77.8	
	10:16	8/8/2006	0.6	11.8	10.1	77.5	
	8:35	8/16/2006	0.8	10.0	10.5	78.7	
	8:02	8/21/2006	0.5	0.8	10.9	87.8	
	13:54	8/28/2006	0.6	11.3	13.3	74.8	
	11:07	9/13/2006	0.1	0.0	13.4	86.5	
	10:26	9/25/2006	0.0	0.0	13.4	86.6	
	8:52	10/10/2006	0.7	8.9	14.4	76.0	
	8:00	10/23/2006	0.3	1.4	15.5	82.8	
	14:37	11/2/2006	0.3	7.2	14.0	78.5	
	13:25	11/14/2006	0.2	6.0	14.9	78.9	
	11:10	11/27/2006	0.2	5.2	15.7	79.0	
	12:35	12/26/2006	0.1	4.8	15.7	79.5	
	13:09	1/27/2007	0.4	5.4	15.8	78.4	
	10:55	2/24/2007	0.4	4.2	17.3	78.2	
	17:30	3/28/2007	0.3	3.4	16.6	79.8	
	10:22	5/1/2007	0.1	3.4	14.0	82.5	
	12:40	5/30/2007	0.0	6.4	9.9	83.7	
	16:25	6/19/2007	0.0	7.4	12.1	80.5	
	11:39	8/13/2007	0.0	8.4	11.8	79.8	
	10:20	10/18/2007	0.1	9.6	9.4	80.9	
	13:12	1/23/2008	0.3	5.6	15.7	78.4	
	9:00	6/12/2008	0.0	6.0	9.7	84.3	
	12:05	7/21/2008	0.0	10.6	7.7	81.7	
11:55	10/3/2008	0.0	8.2	12.7	79.1		
11:08	10/13/2008	0.0	6.6	14.1	79.3		
7:10	1/27/2009	0.2	3.2	14.0	82.7		
11:02	4/9/2009	0.0	2.8	16.8	80.4		
7:30	7/22/2009	0.0	7.8	13.0	79.2		
10:20	10/28/2009	0.0	5.6	14.4	80.0		
9:05	1/26/2010	0.3	4.8	16.2	78.8		
8:40	5/25/2010	0.0	6.4	9.5	84.1		
11:00	9/28/2010	0.0	8.8	11.6	79.6		
8:04	1/25/2011	0.2	4.4	17.0	78.4		
10:35	4/25/2011	0.2	3.0	16.0	80.8		
6:28	7/13/2011	0.0	9.4	10.7	79.9		
12:05	10/26/2011	0.0	6.6	15.5	77.9		
10:25	1/25/2012	0.1	4.8	14.9	80.2		
10:48	4/2/2012	0.1	3.8	16.3	79.8		
10:24	7/25/2012	0.0	7.0	11.9	81.1		
9:00	10/15/2012	0.0	4.8	15.2	80.0		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-5	11:18	1/15/2013	0.0	4.6	16.9	78.5	
	10:08	4/29/2013	0.0	2.0	16.4	81.6	
	8:15	7/22/2013	0.0	9.2	7.4	83.4	
	7:54	10/14/2013	0.0	6.8	14.9	78.3	
	7:50	4/22/2014	0.0	1.8	17.7	80.5	
	9:04	4/22/2015	0.0	2.6	17.6	79.8	
	8:30	4/18/2016	0.0	2.4	15.6	82.0	
	8:21	4/12/2017	0.0	2.6	16.5	80.9	
	8:49	6/20/2018	0.0	6.6	9.2	84.2	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

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

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-6	8:50	1/15/2013	0.0	2.8	18.0	79.2	
	7:58	4/29/2013	0.0	2.4	17.8	79.8	
	9:46	7/22/2013	0.0	3.0	16.7	80.3	
	9:45	10/14/2013	0.0	2.4	19.6	78.0	
	10:25	4/22/2014	0.0	2.4	17.5	80.1	
	7:35	4/22/2015	0.0	2.6	18.9	78.5	
	9:50	4/18/2016	0.0	2.4	17.8	79.8	
	9:40	4/12/2017	0.0	1.8	19.3	78.9	
	9:11	6/20/2018	0.0	1.8	18.5	79.7	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

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

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-7	8:37	1/15/2013	0.0	3.2	17.1	79.7	
	7:55	4/29/2013	0.0	3.2	16.2	80.6	
	9:52	7/22/2013	0.0	2.6	17.6	79.8	
	9:40	10/14/2013	0.0	1.4	20.5	78.1	
	10:21	4/22/2014	0.0	2.8	16.4	80.8	
	7:30	4/22/2015	0.0	2.0	19.0	79.0	
	9:45	4/18/2016	0.0	1.4	18.8	79.8	
	9:37	4/12/2017	0.0	0.0	20.9	79.1	
	9:08	6/20/2018	0.0	0.0	20.9	79.1	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-8	9:03	3/22/2006	0.0	2.4	18.6	79.0	pre-startup
	14:50	3/23/2006	0.0	1.9	18.6	79.5	
	14:55	3/30/2006	3.0	7.2	14.8	75.0	
	14:10	4/6/2006	0.0	7.0	10.9	82.1	
	14:20	4/11/2006	0.0	4.8	13.6	81.6	
	12:25	4/14/2006	0.0	5.4	12.2	82.4	
	11:10	4/17/2006	0.0	0.1	20.7	79.2	
	10:00	4/28/2006	0.0	0.2	20.4	79.4	
	14:20	5/4/2006	0.0	0.2	19.3	80.5	
	11:18	5/22/2006	0.6	0.1	20.4	78.9	
	12:55	6/2/2006	0.2	0.7	19.3	79.8	
	9:03	6/9/2006	2.4	0.6	20.3	76.7	
	13:37	6/14/2006	4.0	1.6	19.6	74.8	
	9:55	6/22/2006	0.5	0.5	19.8	79.2	
	12:27	7/5/2006	1.6	0.9	19.6	77.9	
	11:45	7/10/2006	0.7	1.2	19.2	78.9	
	11:10	7/17/2006	0.6	2.3	17.7	79.4	
	12:45	7/28/2006	0.6	0.8	19.0	79.6	
	10:58	8/8/2006	17.8	1.3	19.1	61.8	
	7:47	8/16/2006	0.1	0.2	19.5	80.2	
	7:33	8/21/2006	0.8	1.3	19.6	78.3	
	13:35	8/28/2006	0.0	0.0	19.1	80.9	
	10:47	9/13/2006	0.0	0.0	20.1	79.9	
	10:06	9/25/2006	0.0	0.0	17.5	82.5	
	7:26	10/10/2006	0.1	0.0	19.3	80.6	
	7:44	10/23/2006	0.7	1.4	19.6	78.3	
	13:20	11/2/2006	3.7	0.3	20.5	75.5	
	13:04	11/14/2006	0.1	4.2	15.1	80.6	
	10:45	11/27/2006	0.1	0.6	19.4	79.9	
	14:09	12/26/2006	0.3	0.8	19.2	79.7	
	12:15	1/27/2007	0.2	0.0	19.7	80.1	
	12:20	2/24/2007	0.3	5.2	12.8	81.8	
	15:47	3/28/2007	0.1	0.6	19.6	79.7	
	11:00	5/1/2007	0.0	8.5	7.6	83.9	
	12:20	5/30/2007	0.0	3.4	15.2	81.4	
	13:25	6/19/2007	0.0	0.6	20.2	79.2	
	11:10	8/13/2007	0.0	1.0	19.8	79.2	
	11:05	10/18/2007	0.1	6.0	11.5	82.4	
	11:38	1/23/2008	0.1	1.0	19.2	79.8	
	7:35	6/12/2008	0.0	0.6	20.7	78.7	
	10:50	7/21/2008	0.0	1.0	19.3	79.7	
	12:45	10/3/2008	0.0	0.4	20.9	78.7	
	10:10	10/13/2008	0.0	1.4	19.4	79.2	
	10:10	1/27/2009	0.3	1.8	19.0	78.9	
	10:51	4/9/2009	0.0	0.4	19.4	80.2	
10:27	7/22/2009	0.0	0.8	18.8	80.4		
10:00	10/28/2009	0.0	1.8	17.8	80.4		
9:30	1/26/2010	0.3	0.4	20.0	79.4		
8:25	5/25/2010	0.0	1.0	18.4	80.6		
9:11	9/28/2010	0.0	5.4	12.7	81.9		
11:15	1/25/2011	0.2	0.4	20.0	79.4		
7:40	4/25/2011	0.2	4.4	14.4	81.0		
7:23	7/13/2011	0.0	0.8	19.2	80.0		
7:30	10/26/2011	0.0	0.8	20.4	78.8		
7:27	1/25/2012	0.1	1.6	18.7	79.6		
9:25	4/2/2012	0.1	1.0	20.4	78.5		
11:07	7/25/2012	0.0	3.0	16.0	81.0		
11:15	10/15/2012	0.0	1.0	18.3	80.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-8	8:59	1/15/2013	0.0	3.2	16.8	80.0	
	7:49	4/29/2013	0.0	3.6	15.3	81.1	
	9:30	7/22/2013	0.0	3.0	16.5	80.5	
	9:10	10/14/2013	0.0	2.2	18.4	79.4	
	12:06	4/22/2014	0.0	3.6	15.0	81.4	
	7:50	4/22/2015	0.0	3.0	17.2	79.8	
	9:20	4/18/2016	0.05	3.0	16.6	80.4	
	9:17	4/12/2017	0.0	4.0	15.9	80.1	
	8:25	6/20/2018	0.0	5.0	11.9	83.1	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

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

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-10	10:20	1/15/2013	0.0	3.0	17.5	79.5	
	7:43	4/29/2013	0.0	3.0	17.1	79.9	
	8:33	7/22/2013	0.0	4.8	13.5	81.7	
	9:00	10/14/2013	0.0	3.6	17.9	78.5	
	11:29	4/22/2014	0.0	3.2	17.2	79.6	
	7:55	4/22/2015	0.0	3.6	17.1	79.3	
	8:55	4/18/2016	0.0	3.4	16.9	79.7	
	9:03	4/12/2017	0.0	4.2	17.2	78.6	
	8:56	6/20/2018	0.0	4.4	14.9	80.7	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-11	9:09	3/22/2006	0.0	3.5	17.6	78.9	pre-startup
	14:27	3/23/2006	0.0	3.4	17.6	79.0	
	14:40	3/30/2006	0.0	0.8	19.7	79.5	
	13:55	4/6/2006	0.0	1.7	18.0	80.3	
	14:00	4/11/2006	0.0	0.7	19.8	79.5	
	11:43	4/14/2006	0.0	0.5	18.9	80.6	
	10:55	4/17/2006	0.3	0.1	20.4	79.2	
	7:30	4/28/2006	0.0	0.7	20.2	79.1	
	14:05	5/4/2006	0.0	0.0	19.9	80.1	
	11:07	5/22/2006	2.6	0.3	20.4	76.7	
	12:34	6/2/2006	1.0	0.1	20.4	78.5	
	9:45	6/9/2006	4.9	0.6	20.2	74.3	
	13:23	6/14/2006	0.8	0.3	20.0	78.9	
	10:10	6/22/2006	0.6	0.0	20.4	79.0	
	12:41	7/5/2006	0.5	1.4	18.5	79.6	
	11:55	7/10/2006	0.6	2.5	18.6	78.3	
	11:21	7/17/2006	0.5	1.5	18.1	79.9	
	13:15	7/28/2006	0.1	0.2	18.2	81.5	
	10:36	8/8/2006	0.6	2.2	17.8	79.4	
	8:01	8/16/2006	0.1	0.0	17.9	82.0	
	7:46	8/21/2006	0.5	2.4	19.0	78.1	
	13:45	8/28/2006	0.6	2.6	18.6	78.2	
	10:55	9/13/2006	0.1	2.7	19.2	78.0	
	10:14	9/25/2006	0.7	2.1	19.0	78.2	
	8:00	10/10/2006	0.7	2.0	18.5	78.8	
	7:52	10/23/2006	0.7	1.0	20.6	77.7	
	13:34	11/2/2006	0.6	1.5	19.8	78.1	
	12:44	11/14/2006	0.1	2.0	18.4	79.6	
	10:58	11/27/2006	0.1	1.0	19.6	79.3	
	13:40	12/26/2006	0.3	2.0	18.4	79.4	
	12:41	1/27/2007	0.4	2.6	18.2	78.9	
	11:10	2/24/2007	0.4	2.6	18.1	78.9	
	16:14	3/28/2007	0.2	2.6	17.8	79.5	
	11:15	5/1/2007	0.0	3.4	15.9	80.7	
	12:06	5/30/2007	0.0	3.0	16.8	80.2	
	13:05	6/19/2007	0.1	2.8	18.3	78.8	
	11:27	8/13/2007	0.0	2.2	18.8	79.0	
	10:34	10/18/2007	0.1	2.8	17.0	80.1	
	12:10	1/23/2008	0.2	2.4	19.2	78.2	
	8:05	6/12/2008	0.0	2.6	18.0	79.4	
11:20	7/21/2008	0.0	3.4	16.6	80.0		
12:23	10/3/2008	0.0	2.0	19.4	78.6		
12:00	10/13/2008	0.0	2.2	19.1	78.7		
10:45	1/27/2009	0.3	3.0	18.5	78.2		
9:50	4/9/2009	0.0	3.4	16.8	79.8		
10:53	7/22/2009	0.0	2.0	18.1	79.9		
10:11	10/28/2009	0.0	2.4	17.9	79.7		
9:15	1/26/2010	0.3	2.6	18.5	78.6		
8:30	5/25/2010	0.0	3.2	16.5	80.3		
10:25	9/28/2010	0.0	3.0	16.8	80.2		
10:29	1/25/2011	0.2	3.6	16.6	79.6		
7:55	4/25/2011	0.2	4.0	17.2	78.6		
6:47	7/13/2011	0.0	2.8	18.3	78.9		
10:10	10/26/2011	0.0	3.0	18.5	78.5		
7:40	1/25/2012	0.1	2.6	18.4	78.9		
9:55	4/2/2012	0.1	3.6	17.9	78.4		
10:39	7/25/2012	0.0	1.8	17.9	80.3		
10:05	10/15/2012	0.0	1.6	18.2	80.2		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-11	7:40	1/15/2013	0.0	2.2	19.1	78.7	
	7:35	4/29/2013	0.0	2.6	17.4	80.0	
	8:40	7/22/2013	0.0	2.4	18.5	79.1	
	8:36	10/14/2013	0.0	1.8	20.8	77.4	
	11:46	4/22/2014	0.0	3.4	16.8	79.8	
	13:05	4/22/2015	0.0	1.8	19.5	78.7	
	8:40	4/18/2016	0.0	2.4	19.0	78.6	
	8:37	4/12/2017	0.0	2.6	18.8	78.6	
	8:30	6/20/2018	0.0	3.2	17.5	79.3	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-12	9:06	3/22/2006	0.0	5.7	13.0	81.3	pre-startup
	14:22	3/23/2006	0.0	5.5	13.2	81.3	
	14:20	3/30/2006	0.0	2.6	17.7	79.7	
	13:50	4/6/2006	0.2	2.1	17.3	80.4	
	13:50	4/11/2006	0.0	2.5	17.1	80.4	
	11:40	4/14/2006	0.0	2.5	15.5	82.0	
	10:45	4/17/2006	1.4	3.7	18.4	76.5	
	12:20	4/28/2006	0.0	2.4	18.0	79.6	
	13:54	5/4/2006	0.0	0.0	17.3	82.7	
	11:00	5/22/2006	1.4	2.7	17.5	78.4	
	12:28	6/2/2006	0.1	1.8	17.4	80.7	
	8:50	6/9/2006	0.9	2.1	19.2	77.8	
	13:10	6/14/2006	0.1	0.0	17.5	82.4	
	10:20	6/22/2006	0.5	2.2	18.2	79.1	
	11:57	7/5/2006	0.6	2.2	18.2	79.0	
	11:22	7/10/2006	0.6	2.7	18.2	78.5	
	10:39	7/17/2006	0.7	2.6	17.5	79.2	
	13:28	7/28/2006	0.6	1.5	18.2	79.7	
	11:22	8/8/2006	0.6	2.6	17.5	79.3	
	8:58	8/16/2006	4.1	18.6	10.0	67.3	
	8:44	8/21/2006	0.6	3.2	18.5	77.7	
	14:26	8/28/2006	0.0	0.0	19.4	80.6	
	11:42	9/13/2006	0.1	0.9	17.9	81.1	
	11:40	9/25/2006	0.8	3.4	16.8	79.0	
	8:47	10/10/2006	0.7	3.8	17.6	77.9	
	8:50	10/23/2006	0.7	4.1	16.4	78.8	
	14:55	11/2/2006	3.9	14.0	7.7	74.5	
	15:30	11/14/2006	0.3	3.6	16.7	79.5	
	11:05	11/27/2006	0.2	2.4	18.0	79.5	
	13:35	12/26/2006	0.3	3.8	15.7	80.3	
	13:18	1/27/2007	0.4	3.8	15.7	80.1	
	12:00	2/24/2007	0.2	3.2	16.6	80.0	
	17:40	3/28/2007	0.2	3.4	16.4	80.0	
	10:30	5/1/2007	0.1	2.6	16.1	81.3	
	12:02	5/30/2007	0.0	2.8	16.0	81.2	
	16:30	6/19/2007	0.0	2.8	18.1	79.1	
	11:35	8/13/2007	0.0	2.6	18.3	79.1	
	10:26	10/18/2007	0.1	4.0	15.2	80.7	
	13:08	1/23/2008	0.3	7.2	12.2	80.3	
	9:10	6/12/2008	0.0	2.4	17.1	80.5	
11:45	7/21/2008	0.0	2.6	17.0	80.4		
12:00	10/3/2008	0.0	4.0	17.6	78.4		
11:30	10/13/2008	0.0	3.0	18.0	79.0		
7:15	1/27/2009	0.2	5.6	15.3	78.9		
9:44	4/9/2009	0.0	3.4	15.8	80.8		
7:35	7/22/2009	0.0	2.4	17.9	79.7		
11:15	10/28/2009	0.0	3.2	16.4	80.4		
9:10	1/26/2010	0.3	5.2	14.9	79.7		
11:55	5/25/2010	0.0	2.4	16.1	81.5		
11:10	9/28/2010	0.0	4.0	15.3	80.7		
8:19	1/25/2011	0.3	5.4	14.6	79.7		
11:00	4/25/2011	0.1	3.2	16.1	80.6		
6:35	7/13/2011	0.0	2.4	17.5	80.1		
11:30	10/26/2011	0.0	3.6	17.8	78.6		
10:35	1/25/2012	0.1	4.6	14.8	80.5		
11:00	4/2/2012	0.1	3.2	16.1	80.6		
10:32	7/25/2012	0.0	2.6	16.9	80.5		
9:08	10/15/2012	0.0	3.2	16.1	80.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
GP-12	11:30	1/15/2013	0.0	5.4	13.6	81.0	
	8:12	4/29/2013	0.0	3.2	16.0	80.8	
	8:24	7/22/2013	0.0	3.2	16.8	80.0	
	8:10	10/14/2013	0.0	3.2	18.6	78.2	
	7:58	4/22/2014	0.0	2.6	17.8	79.6	
	9:15	4/22/2015	0.0	3.4	17.8	78.8	
	8:35	4/18/2016	0.0	2.4	17.1	80.5	
	8:25	4/12/2017	0.0	3.4	16.7	79.9	
	8:45	6/20/2018	0.0	2.4	18.1	79.5	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-101	9:24	3/23/2006	2.9	18.1	0.8	78.2	pre-startup
	14:25	3/30/2006	1.0	8.0	10.9	80.1	
	14:00	4/6/2006	0.8	0.2	20.0	79.0	
	14:05	4/11/2006	0.0	0.0	20.3	79.7	
	11:50	4/14/2006	0.0	1.8	17.9	80.3	
	10:58	4/17/2006	2.0	0.3	20.5	77.2	
	7:35	4/28/2006	0.0	0.0	20.7	79.3	
	14:10	5/4/2006	0.0	0.0	20.2	79.8	
	11:10	5/22/2006	0.0	0.0	20.5	79.5	
	12:38	6/2/2006	0.2	0.0	20.4	79.4	
	9:50	6/9/2006	1.1	0.2	20.5	78.2	
	13:48	6/14/2006	4.1	0.3	20.4	75.2	
	10:15	6/22/2006	0.0	0.0	20.4	79.6	
	12:46	7/5/2006	0.6	20.0	20.0	59.4	
	12:00	7/10/2006	0.6	0.0	20.0	79.4	
	11:30	7/17/2006	0.0	0.0	19.8	80.2	
	13:20	7/28/2006	0.6	0.0	19.3	80.1	
	10:41	8/8/2006	0.8	0.0	19.8	79.4	
	8:05	8/16/2006	0.1	0.0	19.6	80.3	
	7:52	8/21/2006	0.9	0.1	20.4	78.6	
	13:47	8/28/2006	0.6	0.1	20.2	79.1	
	10:57	9/13/2006	0.6	0.2	19.8	79.4	
	10:16	9/25/2006	0.6	0.2	20.2	79.0	
	8:03	10/10/2006	0.7	0.2	20.5	78.6	
	7:55	10/23/2006	0.9	0.7	19.8	78.6	
	15:00	11/2/2006	0.3	0.0	20.8	78.9	
	12:48	11/14/2006	0.1	0.4	19.4	80.1	
	11:00	11/27/2006	0.1	0.2	20.0	79.7	
	13:45	12/26/2006	0.3	0.0	19.3	80.5	
	12:45	1/27/2007	0.4	0.6	20.0	79.1	
	11:14	2/24/2007	0.5	0.6	20.1	78.9	
	16:18	3/28/2007	0.2	0.2	20.1	79.5	
	11:19	5/1/2007	0.0	0.2	18.8	81.0	
	12:08	5/30/2007	0.0	0.2	18.9	80.9	
	13:10	6/19/2007	0.1	0.0	20.9	79.1	
	11:30	8/13/2007	0.0	0.0	20.9	79.1	
	10:37	10/18/2007	0.1	0.0	19.6	80.4	
	12:18	1/23/2008	0.2	5.8	14.4	79.6	
	14:45	5/12/2008	0.0	0.0	19.8	80.2	
	8:15	6/12/2008	0.0	0.0	20.9	79.1	
	11:30	7/21/2008	0.0	0.0	20.9	79.1	
	12:20	10/3/2008	0.0	0.4	20.9	78.7	
	12:05	10/13/2008	0.0	0.0	20.9	79.1	
10:40	1/27/2009	0.3	4.8	15.7	79.3		
11:57	4/9/2009	0.0	0.0	19.9	80.1		
10:57	7/22/2009	0.0	0.0	19.4	80.6		
10:16	10/28/2009	0.0	0.6	19.6	79.8		
9:20	1/26/2010	0.3	0.8	19.4	79.5		
8:34	5/25/2010	0.0	0.0	19.3	80.7		
10:32	9/28/2010	0.0	1.0	17.7	81.3		
10:45	1/25/2011	0.2	0.4	20.0	79.4		
8:00	4/25/2011	0.2	0.4	20.9	78.5		
6:50	7/13/2011	0.0	0.0	20.5	79.5		
10:15	10/26/2011	0.0	0.6	20.4	79.0		
7:38	1/25/2012	0.1	0.6	19.5	79.8		
10:00	4/2/2012	0.1	0.2	20.9	78.8		
10:43	7/25/2012	0.0	0.0	19.1	80.9		
10:15	10/15/2012	0.0	0.4	18.9	80.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-101	7:50	1/15/2013	0.0	1.8	18.7	79.5	
	7:39	4/29/2013	0.0	0.4	20.9	78.7	
	8:45	7/22/2013	0.0	0.0	20.9	79.1	
	8:45	10/14/2013	0.0	0.4	20.9	78.7	
	11:56	4/22/2014	0.5	0.6	20.1	78.8	
	11:30	4/22/2015	0.0	0.4	20.7	78.9	
	8:45	4/18/2016	0.0	0.0	20.9	79.1	
	8:43	4/12/2017	0.0	0.0	20.9	79.1	
	8:32	6/20/2018	0.0	0.0	20.9	79.1	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-102	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		
8:08	1/25/2011	0.2	1.2	19.2	79.4		
10:10	4/25/2011	0.1	0.2	20.7	79.0		
6:30	7/13/2011	0.0	1.8	14.2	84.0		
12:08	10/26/2011	0.0	2.4	18.4	79.2		
10:30	1/25/2012	0.1	0.4	17.9	81.6		
10:37	4/2/2012	0.1	1.4	18.5	80.0		
10:28	7/25/2012	0.0	3.0	15.0	82.0		
9:05	10/15/2012	0.0	2.8	16.7	80.5		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-102	11:21	1/15/2013	0.0	1.6	19.6	78.8	
	10:05	4/29/2013	0.0	0.6	19.2	80.2	
	8:11	7/22/2013	0.0	2.2	14.3	83.5	
	7:59	10/14/2013	0.0	4.0	17.4	78.6	
	7:53	4/22/2014	0.0	0.4	20.5	79.1	
	9:08	4/22/2015	0.0	1.0	20.9	78.1	
	8:22	4/18/2016	0.0	0.4	19.9	79.7	
	8:18	4/12/2017	0.0	0.0	20.9	79.1	
	7:45	6/20/2018	0.0	0.8	19.1	80.1	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-103	7:49	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		
7:15	1/25/2011	0.0	0.2	19.4	80.4		
7:25	4/25/2011	0.2	3.0	17.5	79.3		
7:15	7/13/2011	0.0	0.0	20.5	79.5		
7:35	10/26/2011	0.0	0.0	20.9	79.1		
7:14	1/25/2012	0.2	2.6	16.9	80.3		
9:10	4/2/2012	0.0	0.0	20.9	79.1		
7:48	7/25/2012	0.0	3.4	15.5	81.1		
10:50	10/15/2012	0.0	0.2	18.9	80.9		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-103	11:05	1/15/2013	0.0	3.8	16.5	79.7	
	8:03	4/29/2013	0.0	0.6	20.9	78.5	
	9:15	7/22/2013	0.0	0.6	20.7	78.7	
	9:20	10/14/2013	0.0	0.2	20.9	78.9	
	12:14	4/22/2014	0.0	0.0	20.9	79.1	
	7:40	4/22/2015	0.0	0.0	20.9	79.1	
	9:30	4/18/2016	0.0	0.6	20.8	78.6	
	9:24	4/12/2017	0.0	0.0	20.9	79.1	
	8:09	6/20/2018	0.0	0.0	20.9	79.1	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-104	9:29	3/23/2006	12.8	18.5	0.8	67.9	pre-startup
	15:45	3/30/2006	0.0	0.0	20.7	79.3	
	13:10	4/6/2006	6.8	8.9	10.5	73.8	
	14:50	4/11/2006	4.1	7.1	9.2	79.6	
	11:40	4/17/2006	2.0	0.3	21.0	76.7	
	14:10	4/28/2006	0.0	0.0	20.7	79.3	
	15:40	5/4/2006	0.0	0.0	8.1	91.9	
	10:27	5/22/2006	0.0	0.1	19.9	80.0	
	8:32	6/9/2006	0.0	0.0	19.6	80.4	
	12:45	6/14/2006	3.2	0.8	18.8	77.2	
	10:54	6/22/2006	0.8	0.1	19.7	79.4	
	12:19	7/5/2006	0.6	0.0	20.0	79.4	
	11:40	7/10/2006	0.7	0.6	19.8	78.9	
	11:05	7/17/2006	0.1	0.0	19.6	80.3	
	12:38	7/28/2006	0.6	0.0	19.8	79.6	
	9:49	8/8/2006	0.6	0.0	20.0	79.4	
	9:14	8/16/2006	0.7	0.2	19.4	79.7	
	8:30	8/21/2006	0.1	0.3	18.1	81.5	
	14:16	8/28/2006	0.0	0.0	17.6	82.4	
	11:29	9/13/2006	0.7	0.2	16.8	82.3	
	11:27	9/25/2006	0.0	0.2	19.5	80.3	
	8:27	10/10/2006	0.7	13.1	4.3	81.9	
	8:30	10/23/2006	0.7	0.3	16.7	82.3	
	14:14	11/2/2006	0.3	0.0	20.6	79.1	
	15:06	11/14/2006	0.2	0.6	19.4	79.8	
	12:04	11/27/2006	0.2	3.0	17.6	79.2	
	13:15	12/26/2006	0.2	0.0	20.0	79.9	
	14:16	1/27/2007	0.1	0.0	19.4	80.5	
	11:35	2/24/2007	0.5	12.8	5.6	81.1	
	16:55	3/28/2007	0.2	0.2	20.0	79.6	
	11:45	5/1/2007	0.0	0.0	18.9	81.1	
	11:48	5/30/2007	0.0	0.0	19.0	81.0	
	15:30	6/19/2007	0.0	0.0	20.9	79.1	
	12:05	8/13/2007	0.0	0.0	20.9	79.1	
	9:50	10/18/2007	0.1	0.0	19.6	80.3	
	13:20	1/23/2008	0.3	0.6	20.6	78.5	
	9:25	6/12/2008	0.0	0.0	20.9	79.1	
	12:30	7/21/2008	0.0	0.0	20.9	79.1	
	11:37	10/3/2008	0.0	0.0	20.9	79.1	
	10:45	10/13/2008	0.0	0.2	20.9	78.9	
10:50	1/27/2009	0.2	14.6	3.9	81.3		
11:40	4/9/2009	0.0	1.2	19.2	79.6		
7:50	7/22/2009	0.0	0.0	19.6	80.4		
9:48	10/28/2009	0.0	0.0	20.0	80.0		
8:25	1/26/2010	0.4	0.2	20.4	79.1		
11:30	5/25/2010	0.0	0.0	19.3	80.7		
9:25	9/28/2010	0.0	0.2	18.6	81.2		
7:45	1/25/2011	0.2	0.6	19.6	79.6		
8:21	4/25/2011	0.2	0.4	20.5	78.9		
7:47	7/13/2011	0.0	0.0	20.5	79.5		
11:05	10/26/2011	0.0	0.2	20.4	79.4		
7:10	1/25/2012	0.1	1.0	18.5	80.4		
9:05	4/2/2012	0.0	0.0	20.9	79.1		
8:07	7/25/2012	0.0	11.0	3.9	85.1		
8:35	10/15/2012	0.0	0.0	18.1	81.9		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
MW-104	9:55	1/15/2013	0.0	0.6	20.9	78.5	
	10:00	4/29/2013	0.0	9.4	6.8	83.8	
	7:55	7/22/2013	0.0	5.0	14.2	80.8	
	7:40	10/14/2013	0.0	2.4	17.4	80.2	
	10:47	4/22/2014	0.0	0.2	20.7	79.1	
	10:26	4/22/2015	0.0	1.0	20.9	78.1	
	8:09	4/18/2016	0.0	0.2	20.9	78.9	
	8:06	4/12/2017	0.0	0.0	20.9	79.1	
	9:21	6/20/2018	0.0	0.2	20.9	78.9	

CH₄ = Methane
 CO₂ = Carbon Dioxide
 O₂ = Oxygen
 N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
System Exhaust	2:00	3/28/2006	4.4	4.0	17.8	73.8	
	12:52	5/4/2006	8.6	14.7	7.4	69.3	
	11:15	6/28/2006	5.9	14.5	9.5	70.1	
	11:45	7/5/2006	6.1	18.7	7.2	68.0	
	11:12	7/10/2006	6.7	21.7	5.1	66.5	
	10:31	7/17/2006	6.2	18.6	6.5	68.7	
	14:24	7/28/2006	2.1	19.2	6.1	72.6	
	10:23	8/8/2006	5.9	18.0	6.8	69.3	
	8:30	8/16/2006	6.8	17.3	7.3	68.6	
	8:07	8/21/2006	6.9	18.0	7.6	67.5	
	14:00	8/28/2006	7.1	18.6	7.3	67.0	
	11:13	9/13/2006	15.2	20.0	8.1	56.7	
	11:37	9/25/2006	14.2	24.3	4.8	56.7	
	8:09	10/10/2006	7.4	19.2	8.2	65.2	
	8:13	10/23/2006	12.8	16.3	9.1	61.8	
	9:00	11/2/2006	5.0	14.0	8.2	72.8	
	13:43	11/14/2006	4.4	10.4	10.6	74.6	
	11:19	11/27/2006	3.8	10.2	10.8	75.2	
	12:31	12/26/2006	6.5	14.8	6.9	71.8	
	13:30	1/27/2007	8.0	15.8	6.4	69.8	
	10:45	2/24/2007	6.0	11.6	10.0	72.4	
	7:35	3/5/2007	0.1	0.2	19.8	79.9	
	8:20	3/24/2007	9.0	12.6	9.7	68.7	
	17:10	3/24/2007	8.5	12.6	9.4	69.5	
	17:25	3/26/2007	6.5	11.4	9.8	72.3	
	7:39	3/27/2007	6.5	11.2	10.2	72.1	
	17:25	3/28/2007	6.5	10.0	11.6	71.9	
	8:16	3/29/2007	5.5	8.8	12.3	73.4	
	17:15	3/29/2007	5.0	8.6	12.3	74.1	
	16:09	6/19/2007	12.5	18.2	4.6	64.7	
	11:55	8/13/2007	13.5	20.2	4.1	62.2	
	9:12	10/19/2007	7.5	16.2	5.0	71.3	
	12:50	1/23/2008	8.5	15.6	7.1	68.8	
	8:55	6/12/2008	8.0	15.2	7.3	69.5	
	12:03	7/21/2008	9.5	17.0	5.6	67.9	
	11:15	10/13/2008	6.5	9.8	12.0	71.7	
	7:20	1/27/2009	3.8	6.4	15.7	74.2	
	9:37	4/9/2009	6.5	7.6	13.3	72.6	
	7:40	7/22/2009	5.0	7.8	12.8	74.4	
	10:35	10/28/2009	6.5	7.4	13.9	72.2	
7:20	1/27/2009	3.8	6.4	15.7	74.2		
13:15	5/25/2010	5.0	5.2	15.2	74.6		
10:45	9/28/2010	6.5	5.4	15.3	72.8		
8:11	1/25/2011	4.4	4.2	17.1	74.3		
10:40	4/25/2011	24.0	5.5	16.3	54.2		
8:24	7/13/2011	5.5	3.8	17.4	73.3		
16:15	9/15/2011	13.0	13.8	9.9	63.3		
8:22	9/21/2011	34.0	26.8	2.9	36.3		
9:28	9/21/2011	18.5	18.4	6.5	56.6		
9:20	9/22/2011	22.5	22.6	3.7	51.2		
10:05	9/22/2011	17.0	18.0	7.0	58.0		
10:51	9/22/2011	18.0	18.8	6.0	57.2		
10:32	10/3/2011	6.0	8.4	13.9	71.7		
13:43	10/24/2011	7.5	10.0	12.0	70.5		
10:50	10/26/2011	7.5	16.4	5.8	70.3		
10:33	11/7/2011	5.5	7.4	14.6	72.5		
9:11	11/14/2011	5.0	6.4	14.8	73.8		
10:20	12/12/2011	7.5	4.8	16.6	71.1		
10:10	12/27/2011	6.5	5.0	15.8	72.7		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
System Exhaust	9:10	1/10/2012	6.0	6.0	14.4	73.6	
	10:17	1/25/2012	3.1	2.4	17.6	76.9	
	9:08	2/20/2012	3.1	3.0	19.3	74.6	
	9:35	3/8/2012	8.0	7.2	14.8	70.0	
	10:15	4/2/2012	4.3	4.4	17.4	73.9	
	8:55	4/16/2012	5.0	4.8	16.4	73.8	
	9:45	4/30/2012	7.5	7.4	13.6	71.5	
	9:08	5/14/2012	7.5	7.6	14.2	70.7	
	9:00	5/29/2012	5.5	5.2	15.7	73.6	
	7:38	6/11/2012	7.0	6.0	15.5	71.5	
	9:35	6/25/2012	4.8	4.6	16.3	74.4	
	8:55	7/9/2012	5.0	5.0	15.6	74.4	
	8:20	7/23/2012	6.0	8.0	13.0	73.0	
	10:17	7/25/2012	7.0	8.9	12.1	72.0	
	8:49	8/6/2012	3.9	5.6	15.0	75.6	
	9:10	8/21/2012	4.7	6.6	14.2	74.6	
	9:07	9/4/2012	4.5	6.8	13.5	75.2	
	8:50	10/1/2012	4.4	7.6	13.0	75.1	
	8:25	10/15/2012	4.8	8.4	12.2	74.7	
	7:25	12/6/2012	8.5	9.8	11.6	70.1	
	9:50	12/17/2012	7.5	7.8	12.4	72.3	
	8:40	12/31/2012	10.5	9.0	12.5	68.0	
	8:30	1/9/2013	12.0	10.6	11.6	65.8	
	9:40	1/16/2013	13.5	9.8	11.3	65.4	
	8:55	1/28/2013	6.5	5.4	17.1	71.0	
	10:25	2/11/2013					have to fix drop tube for readings
	9:10	2/25/2013	1.0	0.8	20.9	77.3	
	7:20	3/8/2013					No readings
	8:40	3/22/2013					No readings
	13:40	4/8/2013	6.0	5.8	15.7	72.5	
	15:10	4/22/2013	6.5	7.2	14.9	71.4	
	9:35	4/29/2013	3.5	4.6	16.3	75.7	
	8:22	5/13/2013	3.0	4.4	16.6	76.0	
	13:08	5/28/2013	3.9	5.6	15.2	75.3	
	8:39	6/7/2013	4.5	6.6	14.3	74.6	
	8:09	6/21/2013	5.5	8.4	12.7	73.4	
	8:40	7/5/2013	4.8	7.8	12.9	74.6	
	7:44	7/22/2013	5.5	8.6	12.4	73.5	
	8:50	8/5/2013	6.5	9.0	12.3	72.2	
	8:08	8/19/2013	6.0	8.6	12.4	73.0	
	8:24	9/5/2013	5.0	7.8	13.6	73.6	
	8:38	9/16/2013	6.5	8.6	13.4	71.5	
	7:24	9/30/2013	12.0	10.8	11.9	65.3	
	7:24	10/14/2013	11.0	10.2	12.6	66.2	
	8:00	10/28/2013	11.5	9.8	14.0	64.7	
7:55	11/19/2013	8.5	7.4	15.5	68.6		
7:23	12/2/2013	11.5	7.8	15.1	65.6		
7:05	12/16/2013	9.5	7.2	15.3	68.0		
7:30	12/27/2013					Blower off	
7:02	1/13/2014	12.5	7.8	14.4	65.3		
7:05	1/30/2014	14.5	9.4	14.0	62.1		
7:21	2/12/2014	13.0	7.4	14.8	64.8		
7:40	2/24/2014	8.5	6.2	14.6	70.7		
8:07	3/10/2014	13.0	8.4	14.1	64.5		
9:15	3/24/2014	16.0	14.4	8.1	61.5		
7:45	4/7/2014	11.0	8.6	12.8	67.6		
7:42	4/22/2014	8.5	9.0	12.5	70.0		
7:28	5/7/2014	7.5	6.2	14.8	71.5		
7:38	5/19/2014	4.7	5.0	16.4	74.0		
7:05	5/30/2014	2.9	3.0	18.2	76.0		
8:00	6/16/2014	4.0	4.8	15.8	75.5		
7:40	6/30/2014	4.7	6.6	18.4	70.3		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
System Exhaust	7:48	7/14/2014	3.1	6.0	15.8	75.1	
	8:48	7/28/2014	3.0	6.0	15.8	75.2	
	8:05	8/11/2014	3.0	7.0	13.8	76.2	
	13:15	8/25/2014	3.1	7.8	13.2	76.0	
	7:37	9/8/2014	3.5	8.2	12.7	75.7	
	7:23	9/22/2014	3.1	7.0	14.5	75.4	
	7:35	10/7/2014	4.5	9.0	11.2	75.4	
	7:36	10/20/2014	5.5	10.2	10.8	73.5	
	7:21	11/3/2014	6.5	8.6	14.8	70.1	
	7:18	11/17/2014	10.0	11.4	10.3	68.3	
	7:25	12/2/2014	9.0	9.8	11.6	69.6	
	7:50	12/15/2014	NA	NA	NA	NA	Blower off
	8:05	12/18/2014	12.0	11.2	11.3	65.5	
	7:15	1/2/2015	11.5	11.2	11.6	65.7	
	7:12	1/16/2015	8.0	7.2	14.3	70.5	
	7:20	1/26/2015	11.0	14.0	7.8	67.2	
	7:21	2/9/2015	6.5	7.2	14.3	72.0	
	7:45	2/24/2015	13.0	8.4	13.4	65.2	
	8:14	3/9/2015	9.0	8.2	12.7	70.1	
	7:12	3/23/2015	7.5	8.8	11.3	72.4	
	7:22	4/6/2015	7.0	8.2	11.8	73.0	
	9:00	4/22/2015	5.0	8.0	12.7	74.3	
	7:08	5/4/2015	6.5	9.2	10.2	74.1	
	7:15	5/18/2015	8.0	10.6	10.2	71.2	
	7:08	6/1/2015	7.0	10.8	10.0	72.2	
	7:20	6/15/2015	9.0	11.4	9.1	70.5	
	7:21	6/29/2015	8.5	10.8	10.6	70.1	
	7:18	7/14/2015	7.5	11.4	9.8	71.3	
	7:11	7/27/2015	5.5	9.6	11.1	73.8	
	7:18	8/10/2015	6.0	10.0	10.2	73.8	
	7:15	8/24/2015	5.0	9.2	10.9	74.9	
	7:25	9/8/2015	8.0	12.6	9.1	70.3	
	7:40	9/21/2015	4.5	8.6	12.2	74.7	
	7:16	10/5/2015	7.0	11.4	10.4	71.2	
	7:22	10/19/2015	7.0	10.2	11.3	71.5	
	7:38	11/2/2015	4.7	8.4	12.4	74.5	
	7:20	11/16/2015	6.5	10.0	11.3	72.2	
	10:50	11/30/2015	7.4	10.2	12.0	70.4	
	7:10	12/15/2015	4.3	6.8	13.9	75.1	
	7:20	12/28/2015	5.5	7.2	14.3	73.0	
	8:05	1/9/2016	7.0	8.0	12.5	72.5	
	7:40	1/25/2016	6.5	6.2	15.5	71.8	
	7:35	2/8/2016	5.0	5.2	16.0	73.8	
	8:21	2/22/2016	7.0	6.4	14.7	71.9	
	7:35	3/7/2016	9.0	7.2	13.5	70.3	
	8:18	3/21/2016	6.5	6.6	14.7	72.2	
	7:40	4/4/2016	3.8	4.8	16.1	75.4	
	7:45	4/18/2016	3.8	4.0	16.8	75.5	
	8:50	5/3/2016	4.2	3.6	16.9	75.4	
	7:38	5/16/2016	4.0	3.4	17.6	75.1	
7:35	6/2/2016	2.6	2.8	17.9	76.7		
7:37	6/14/2016	3.1	3.0	18.0	75.9		
7:38	6/27/2016	2.2	2.4	18.1	77.4		
10:10	7/14/2016	2.5	3.0	17.8	76.7		
7:44	7/25/2016	2.1	3.0	18.0	76.9		
7:35	8/8/2016	2.7	3.4	17.6	76.4		
8:00	8/25/2016	2.6	3.6	17.2	76.6		
7:20	9/6/2016	3.0	3.6	17.4	76.1		
9:45	10/3/2016	3.4	4.8	16.5	75.3		
7:50	10/19/2016	2.8	4.4	16.9	76.0		
8:33	10/31/2016	3.7	16.1	5.4	74.8		
7:59	11/14/2016	4.1	5.6	16.0	74.3		
8:49	11/28/2016	6.5	7.4	14.3	71.8		
9:04	12/9/2016	3.7	4.8	17.2	74.3		
7:40	12/22/2016	4.6	5.4	15.9	74.1		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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

Monitoring Points	Time	Date	CH ₄ (%) variable	CO ₂ (%) variable	O ₂ (%) <5	N (%) <40	Comments target percentages
System Exhaust	7:40	1/4/2017	6.5	6.0	15.6	71.9	
	7:15	1/13/2017	6.8	6.2	14.8	72.2	
	7:08	1/27/2017	9.5	7.6	14.5	68.4	
	7:43	2/13/2017	7.5	5.8	14.8	71.9	
	7:40	2/27/2017	9.0	6.6	14.2	70.2	
	8:06	3/13/2017	11.5	7.0	15.4	66.1	
	7:07	3/28/2017	11.5	7.4	14.4	66.7	
	7:49	4/12/2017	9.0	7.4	14.8	68.8	
	6:50	4/18/2017	12.5	8.8	13.8	64.9	
	7:04	4/25/2017	12.5	13.9	8.4	65.2	
	7:07	5/8/2017	9.8	7.6	14.7	67.9	
	7:15	5/22/2017	9.0	7.6	13.9	69.5	
	7:26	6/5/2017	7.5	7.6	13.9	71.0	
	7:20	6/19/2017	5.0	6.8	14.6	73.6	
	8:23	7/4/2017	2.9	3.6	17.4	76.2	
	7:42	7/18/2017	1.8	2.4	18.6	77.2	
	7:43	3/1/1900	2.1	2.6	18.5	76.8	
	7:57	8/14/2017	2.5	2.8	18.6	76.2	
	8:04	8/29/2017	2.1	2.6	18.8	76.6	
	7:53	9/12/2017	2.5	2.8	18.8	75.9	
	8:03	9/25/2017	2.2	2.6	18.7	76.6	
	8:07	10/10/2017	1.9	2.2	14.4	81.6	
	7:46	10/23/2017	2.5	2.6	19.5	75.4	
	7:53	11/6/2017	1.6	1.8	20.0	76.7	
	8:01	11/17/2017	2.7	2.6	19.0	75.7	
	7:58	12/1/2017	1.7	1.8	19.4	77.1	
	8:07	12/18/2017	2.0	2.2	19.2	76.6	
	8:42	1/3/2018	0.1	1.0	20.8	78.1	
	7:54	1/11/2018	0.5	2.4	18.7	78.4	
	7:46	1/26/2018	8.0	9.6	12.4	70.0	
	8:01	2/13/2018	4.4	7.4	13.8	74.5	
	7:38	2/27/2018	3.2	4.6	15.9	76.3	
	7:36	3/13/2018	3.8	5.2	15.8	75.3	
	8:00	3/28/2018	0.1	3.8	17.3	78.8	
8:14	4/10/2018	2.3	2.6	18.6	76.6		
7:44	4/25/2018	2.6	3.2	17.5	76.8		
7:59	5/8/2018	2.8	3.6	17.0	76.6		
7:47	5/21/2018	2.6	3.4	17.5	76.6		
8:05	6/5/2018	3.0	3.8	17.1	76.2		
7:42	6/20/2018	3.7	4.2	16.7	75.4		
8:01	6/28/2018	3.1	4.0	17.0	76.0		

CH₄ = MethaneCO₂ = Carbon DioxideO₂ = Oxygen

N = Nitrogen

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-Trichlorotrifluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes			
GV-6	7/28/2006	172	117	373					1070	42.6			19		281	323					107	27.9		38				3590	649.5			
	11/2/2006	50.2	50.4	73.5					166	35.8					70.4	246					155					45	33.7	84.9	666			
	2/23/2007								111	24.4					44.3			7.4			7	33.5		17.6								
	5/30/2007	32		190					160	21			19		120	73					56							150	151			
	8/9/2007	75.8	127	255				27.6	119	35			22.4		72.5	543					84.6					98.9	88	54.5	1123			
	10/22/2007			32					82	68.9			33.9		23	16.3					41.1	29.9		42.3					29			
	1/23/2008			87.6					375	64.8			16		69.5							40		41.4								
	7/22/2008	15.3	16.8	84.7					95.5	83.1					58.4	66.2		22.8				63.4								112		
	10/7/2008			43					93.6						21.4																	
	1/27/2009																8						1.8									
	4/16/2009								3.1								238				1.7					0.85						
	7/27/2009								61.9	28					16.7		502		38.5													
	10/27/2009	17.7		78.7					40.6						77.7	34	32.7					48					39			107.60		
	2/25/2010								133						132																	
	5/25/2010			1.5					3	1.1							3					1.3										
	10/12/2010	1.9		11.8					5.3	1.6							23															
	1/25/2011																3.6															
	4/25/2011								192							184		4260				86										
	7/13/2011			6.2										10.7	2.9		15.7					4.6	0.96						4.2			
	10/26/2011								3.4								68.9					2.7										
	1/25/2012																					0.9										
	4/3/2012			37.8					53.3	6.3												1.1	5.1		3.3							
	7/25/2012								4.3						1.93				2.36			4.02										
	10/17/2012			15.6					19.6						10		9					1.5										
	1/15/2013			22.9					30.4								38.7															
	4/29/2013																	31.4														
	4/22/2014				0.48				0.47																		0.54					
4/22/2015	0.26		0.29	0.45				0.47									0.72		0.19		1.2			0.12						0.46		
5/3/2016	0.93		29				0.19	76.8	0.55			0.52		54.1		5.8					1.8			1.6		1.3	0.59		1.80			
4/18/2017	0.27		10.6					22.8						39.9	0.37	19.9				0.45	4.5			0.48						1.37		
6/6/2018			1.2				0.35	14				0.88		6.8							0.83			0.43				11				

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-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes	
LC-2	7/28/2006	447	404	265					1060				3850	48.7	408	2790	88.6			81	8920		238			191	143	166	13006	
	11/2/2006	221	96.9	216					1130						263	378					43.2					79.4	56		8532	
	2/23/2007	186	182	148				36.2	309						176	449		194			83.7					173	157		7088.5	
	5/30/2007	1.2		4.4					7.7				1.8		7.4	1.2					3.3							2.4	2.7	
	8/9/2007	24.9		75.9					75.6						40.6	17.3					25.9									38
	10/22/2007	236	112	344						14.3				16.4	90.5	335								14.8		38.2	27.3		1744.1	
	1/23/2008	282	54.7	426					956	19.1					274	200					80			82		77.7	24.1	18.4	1549.9	
	7/22/2008	354	114	535					840						286	400					119									1820
	10/7/2008	37.2		284					538						211		18.3													
	1/27/2009					1.2							1.8				9.7			1.3			8.8		3.2					
	4/16/2009			1.5					5.3								200				2									
	7/27/2009								1490							243														1270
	10/27/2009	578		637					595						422	375							777	995						1920
	2/25/2010			224					161						197															
	5/25/2010	16.1		64.1					10.7	1.2					39.2		11.8				2.3									
	10/12/2010			43.7					113						56.9		38.7													
	1/25/2011																2.6					1.1								
	4/25/2011																	10.3				3.6					0.83			
	7/13/2011	58							439																					
	10/26/2011	20		243					379						211															
	1/25/2012			2.3					4						3.1		79													
	4/3/2012								408						190															
	7/25/2012	22.6																	3.3		4.33									
	10/17/2012								0.95													1.2					1.8			
	1/15/2013																1.6						1.9							
	4/29/2013	9.4	31.4			9.8		12.5				3.9	3.9		2.3	1.2					35.8		1.5			6.3	3.6			23.4
4/22/2014	9.4		147					632	1.4					231	10					0.87			38.3							
4/22/2015				0.34				0.32								1.6					0.74									
5/3/2016				0.6				0.56								3.5					0.56		0.26							
4/18/2017								0.57								4.6					0.76									
6/6/2018	8	2.1	4.3					9.6					14	5.1	2.5					18		2.8						26	17.74	

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-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes	
LC-3	7/28/2006												516							1070										1340
	11/2/2006	1110	95.4					33.4	740	98.5		254	5840	228	115	526	1430		22.6	209	5030		912	184		158	85.1	1600	3310	
	2/23/2007	434							2810	81.6		166	43400		231	185	1440	21.1		63.2	10000		573 J	1210				11900	632	
	5/30/2007	610	110					71	5200	64		460	137000		260	18400	2700			260	146000		3200	270		260	150	172000	47400	
	8/9/2007	28.8							258	58.6			4960		25.9		197				328		64.1	19.3				4680		
	10/22/2007	162							447	21.6			38300	91.3	66.4	179	1370			20.7	16800		1770	45.4				10700	362.7	
	1/23/2008	4.5							44.2	1		10.4	1820		14.2		69.1				37.9		14.5	2.1				1220		
	7/22/2008	30.2	10.3	4.9				1.8	62.4	3.5	0.95	25	6050	13.1	14.3	320	196		15.2	12.6	5140		301	2.6		12.8	7.4	1920	931	
	10/7/2008												1.3				2.1						2.1							
	1/27/2009			1.6	2												3.2													
	4/16/2009																674				5.6									
	7/27/2009	26.7	13.2						9.1			24.5	4560		27	311	131			10	2730		289	6.2		0.86	5.5	1760	876	
	10/27/2009	256											66400		250	1900	450				33600		1500					9760	7150	
	2/25/2010												33.8				54.6											82.5		
	5/25/2010	24.1							94.1			24.5	2470		39	19.3	68.1				692		55.5					1670	41.8	
	10/12/2010								24.5			2.2	31.6		5.6		3.8						0.92	0.84					394	
	1/25/2011																2.4													
	4/25/2011												34600			3540					44400							27600	10370	
	7/13/2011	172							68.9			97.2	9120		49.8	75.9	305				3180		402					11000	159.9	
	10/26/2011																22.7													
	1/25/2012								1340				15800								1910							26300		
	4/3/2012								1420				13800								3260							27100		
	7/25/2012	3.2							19.3			1.69	52.1		1.8	2.06	4.02		2.61		43.3		6.96					85.1	3.42	
	10/17/2012	92.7							467			46.9	8300	25	52.6	99.5	92.6				2810		248	24.7				10200	237	
	1/15/2013																1.6													
	4/29/2013											3.9	3.9								1.1		25.6							
	4/22/2014								0.43																					
	4/22/2015	0.3		0.21	0.65				0.68				4.9				2.3				1.6						0.38	9.3	0.38	
5/3/2016	65.5	0.65	14.2				0.27	290		0.84	39.6	1770	16.2	83.3	15.3	40.3			1.5	1190	0.22		61.2	0.37		3220	29.7			
4/18/2017																19.2				1.2										
6/6/2018	110		34					310			30	1900	16	120	57	35				1600		320					3900	120		

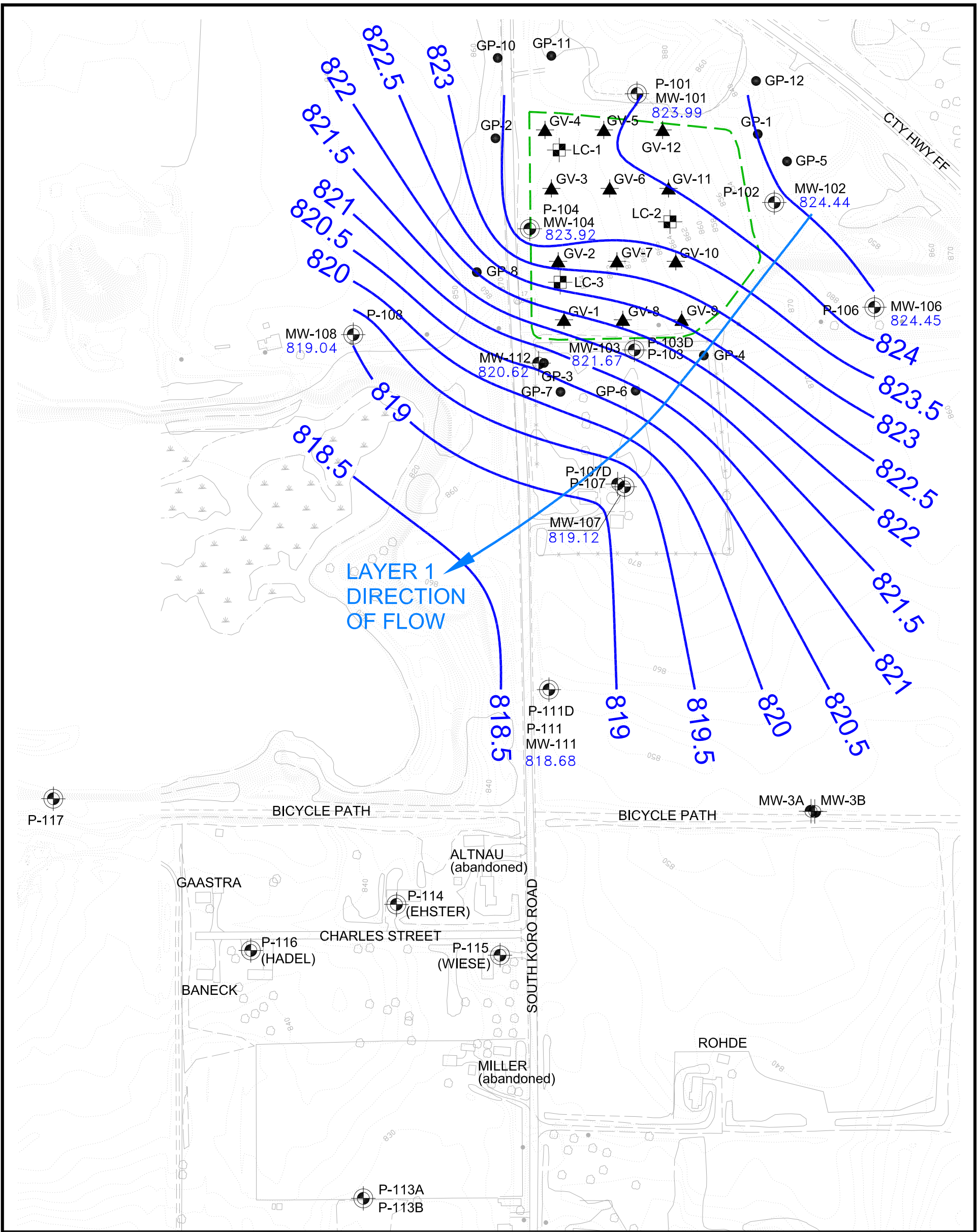
Values in ppbv (parts per billion by volume)

Analyzed using EPA Method TO-14A

Starting 6/6/2018 ALS Laboratories analyzed samples using EPA Method TO-15

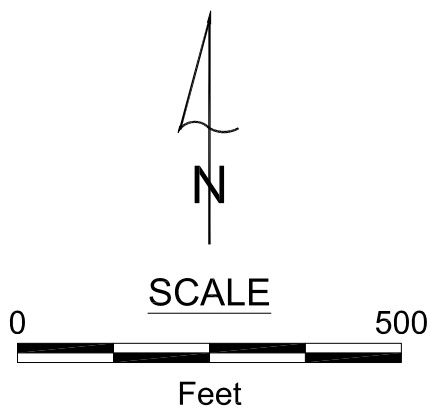
NA = Not Analyzed

FIGURES



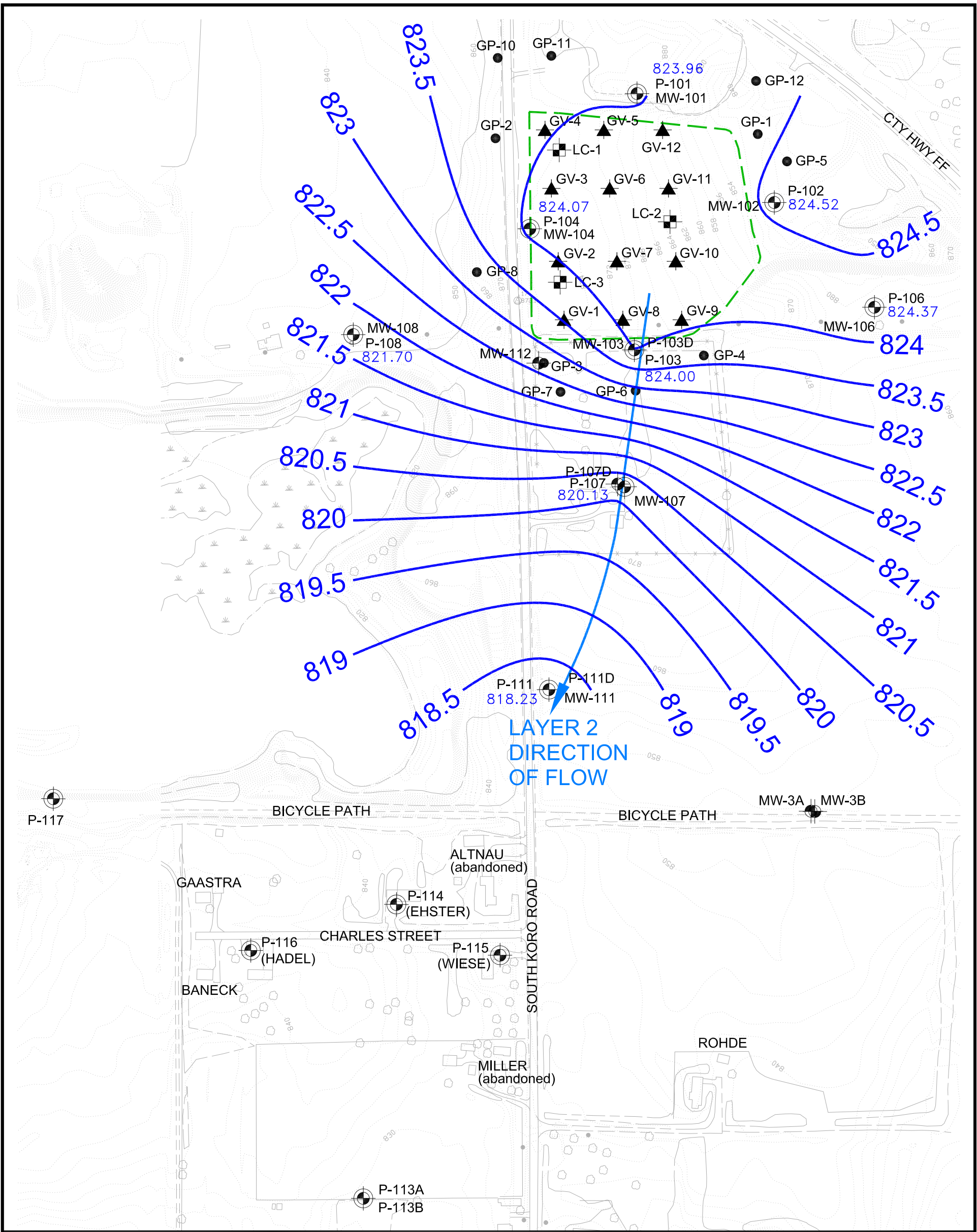
EXPLANATION

- P-104 MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- MW-104
- 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
- 818.68 GROUNDWATER ELEVATION










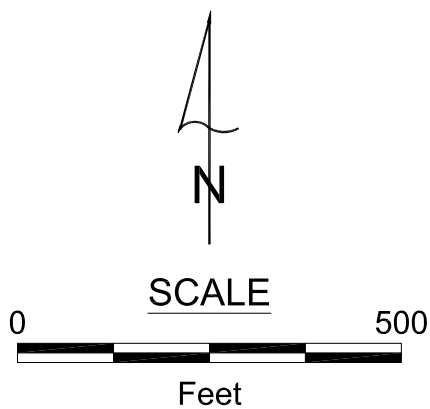
BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN		DATE: 8/14/18
GROUNDWATER ELEVATIONS LAYER 1 WELLS JUNE 2018		DESIGNED: AAW
		CHECKED: MRN
		APPROVED: MRN
		DRAWN: CMP
		PROJ.: 117-2202061
		Figure 1




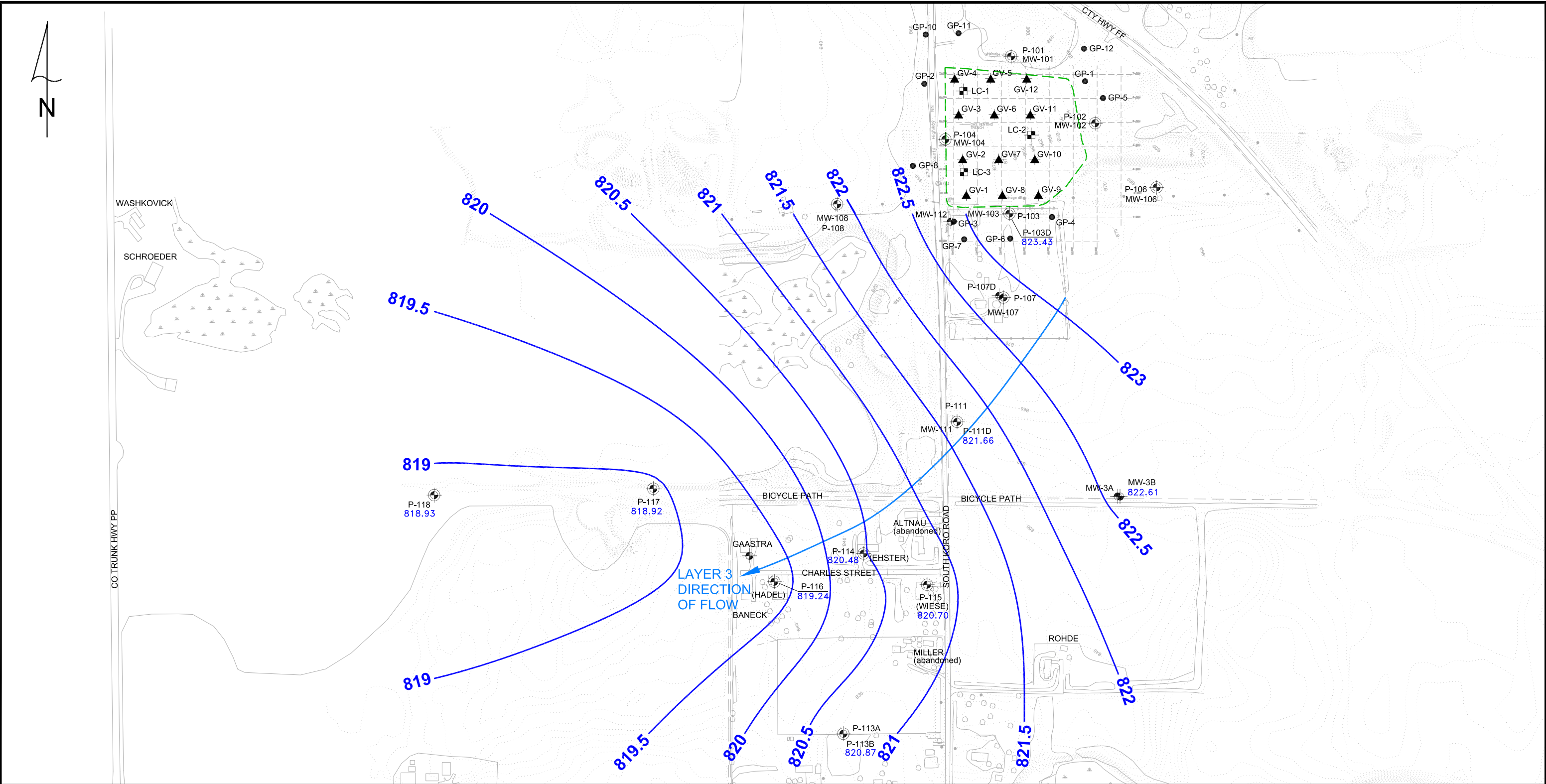
EXPLANATION

-  P-104 MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
-  MW-104
-  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
-  824.16 GROUNDWATER ELEVATION



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

FF/NN LANDFILL RIPON, WISCONSIN		DATE: 8/14/18
GROUNDWATER ELEVATIONS LAYER 2 WELLS JUNE 2018		DESIGNED: AAW
		CHECKED: MRN
		APPROVED: MRN
		DRAWN: CMP
		PROJ.: 117-2202061
		Figure 2

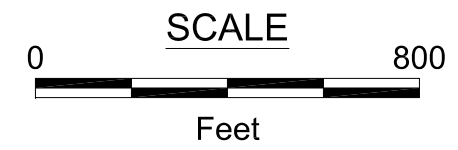


EXPLANATION

- P-104 MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- MW-104 MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL

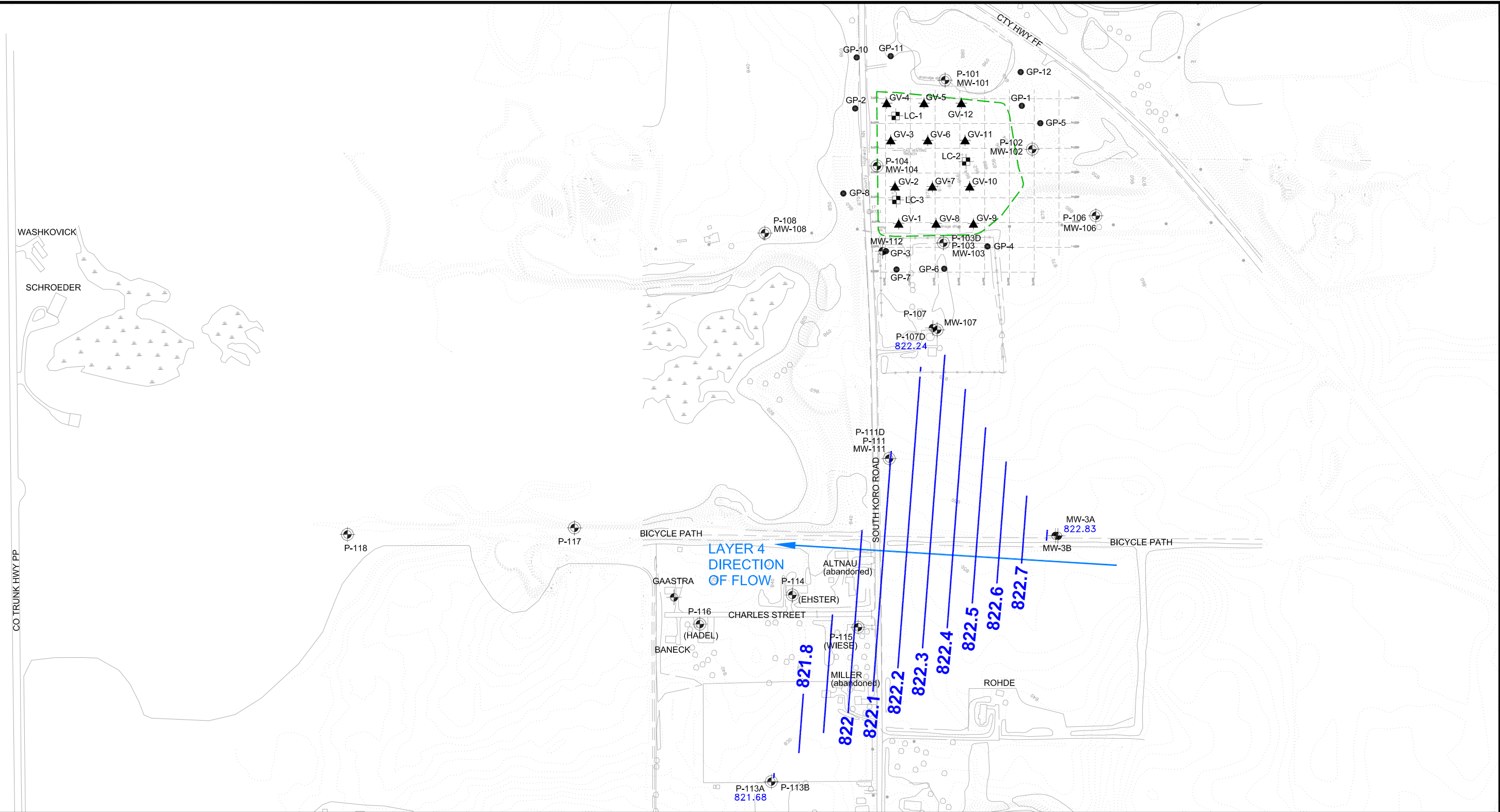
- GP-1 GAS PROBE LOCATION AND DESIGNATION
- GV-1 GAS VENT LOCATION AND DESIGNATION
- 820.87 GROUNDWATER ELEVATION

GROUNDWATER CONTOUR



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

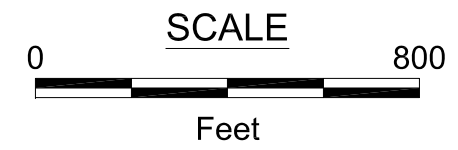
FF/NN LANDFILL RIPON, WISCONSIN		DATE: 8/14/18
GROUNDWATER ELEVATIONS LAYER 3 WELLS JUNE 2018		DESIGNED: AAW
		CHECKED: AAW
		APPROVED: MRN
		DRAWN: CMP
		PROJ.: 117-2202061
		Figure 3



EXPLANATION

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

GROUNDWATER CONTOUR



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

FF/NN LANDFILL RIPON, WISCONSIN		DATE: 8/14/18
GROUNDWATER ELEVATIONS LAYER 4 WELLS		DESIGNED: AAW
JUNE 2018		CHECKED: AAW
		APPROVED: MRN
		DRAWN: CMP
		PROJ.: 117-2202061

Figure 4

CHARTS

Chart 1: Layer 1 Historic Water Level Data

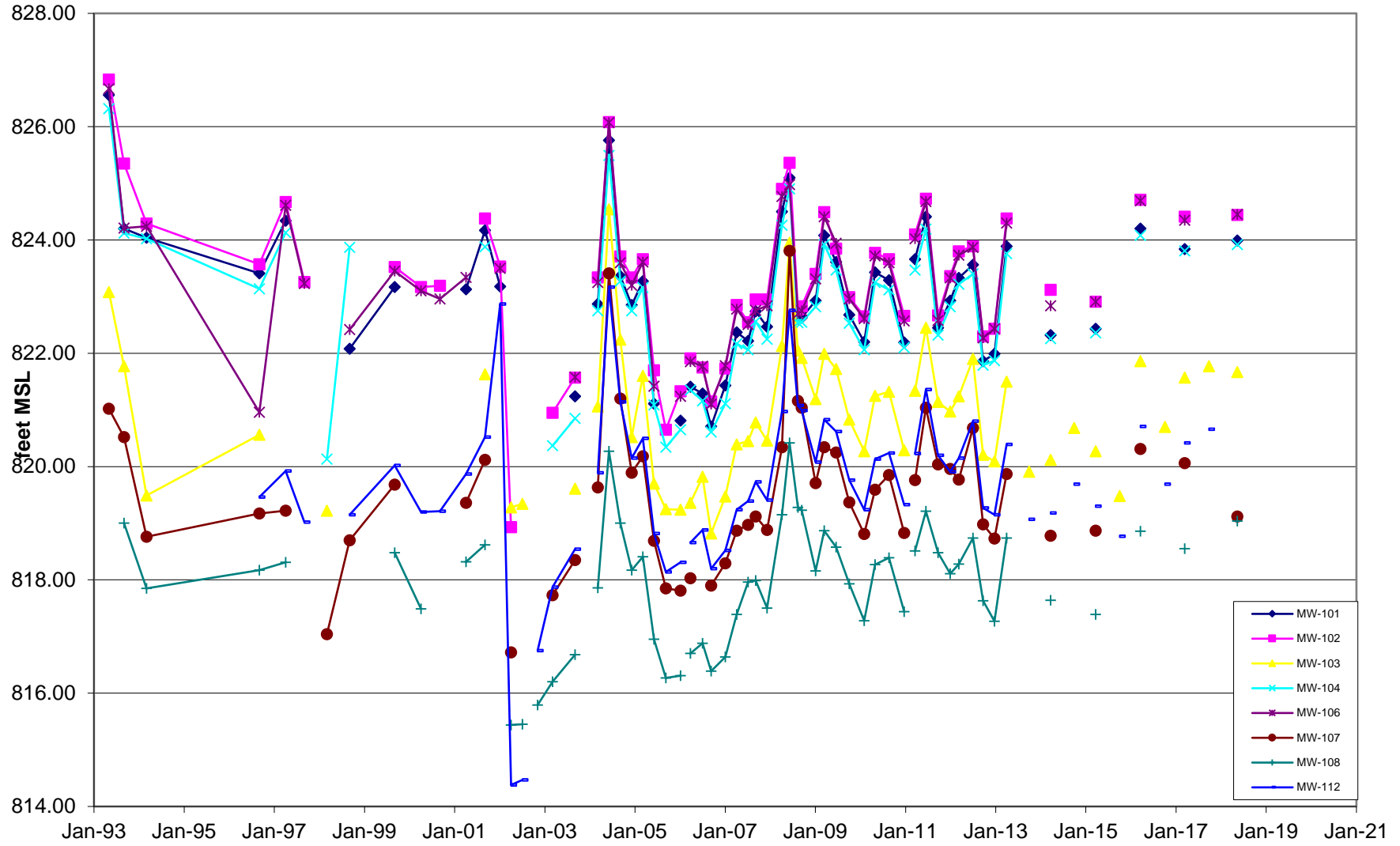


Chart 2: Layer 2 Historic Water Level Data

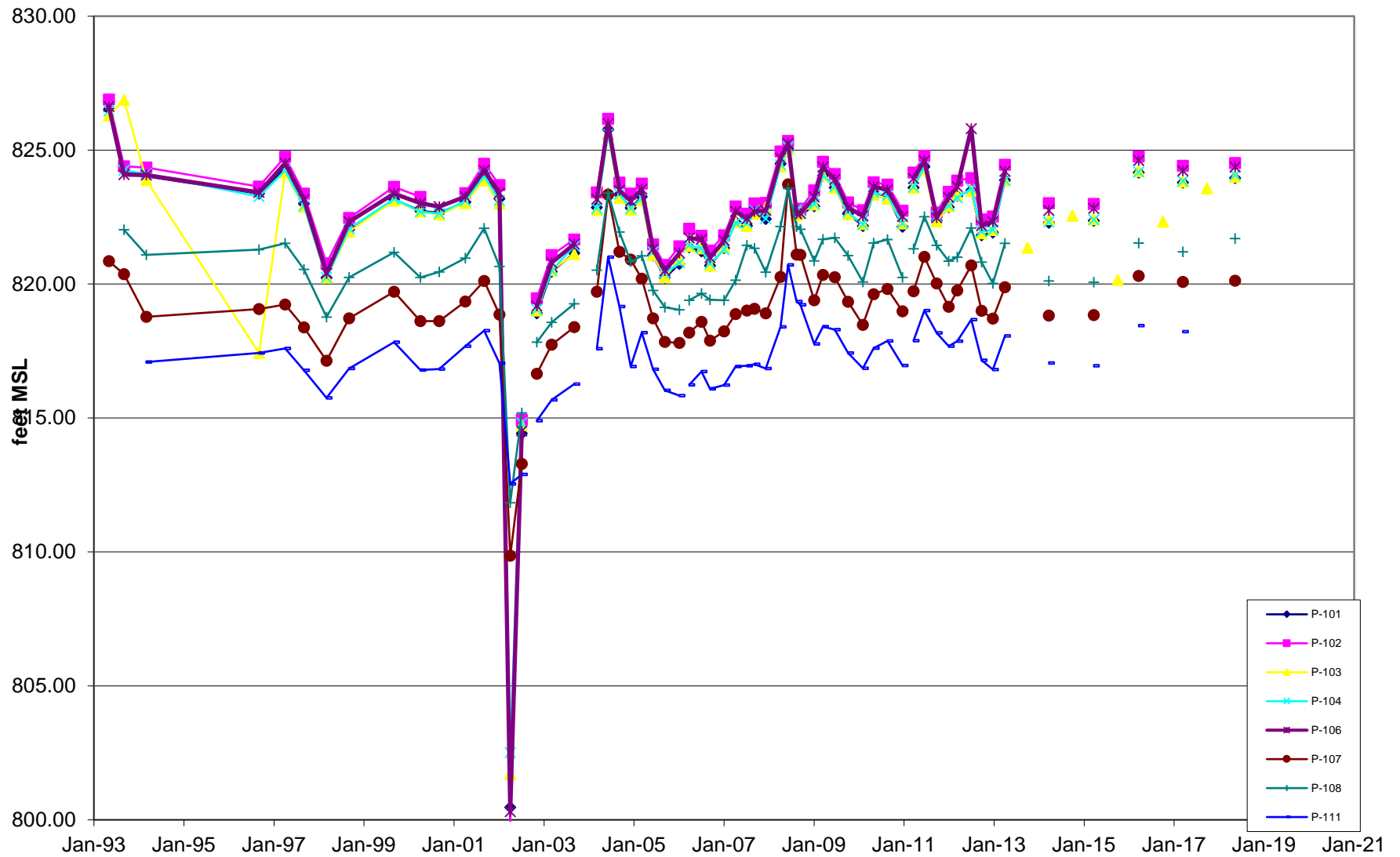


Chart 3: Layer 3 Historic Water Level Data

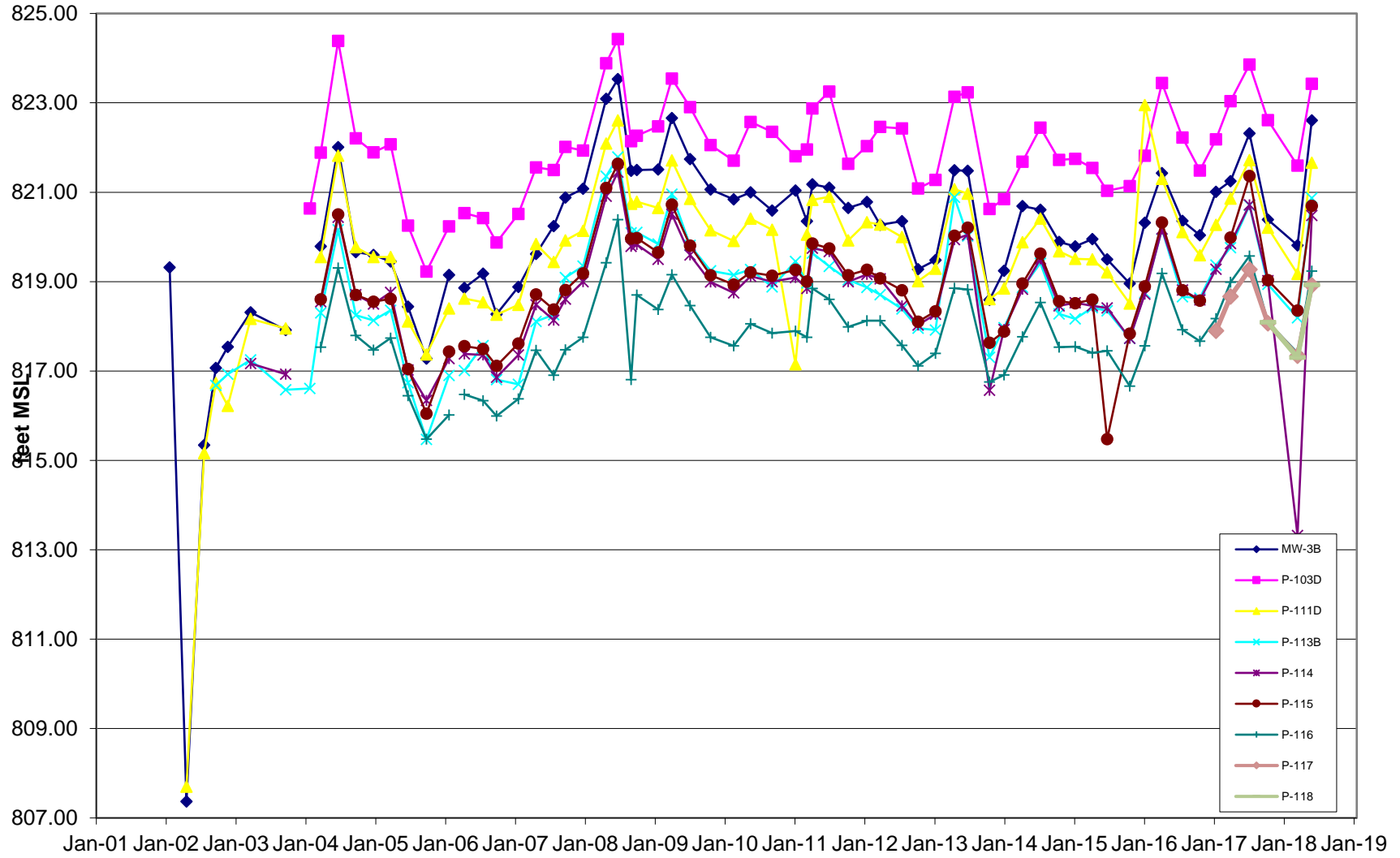


Chart 4: Layer 4 Historic Water Level Data

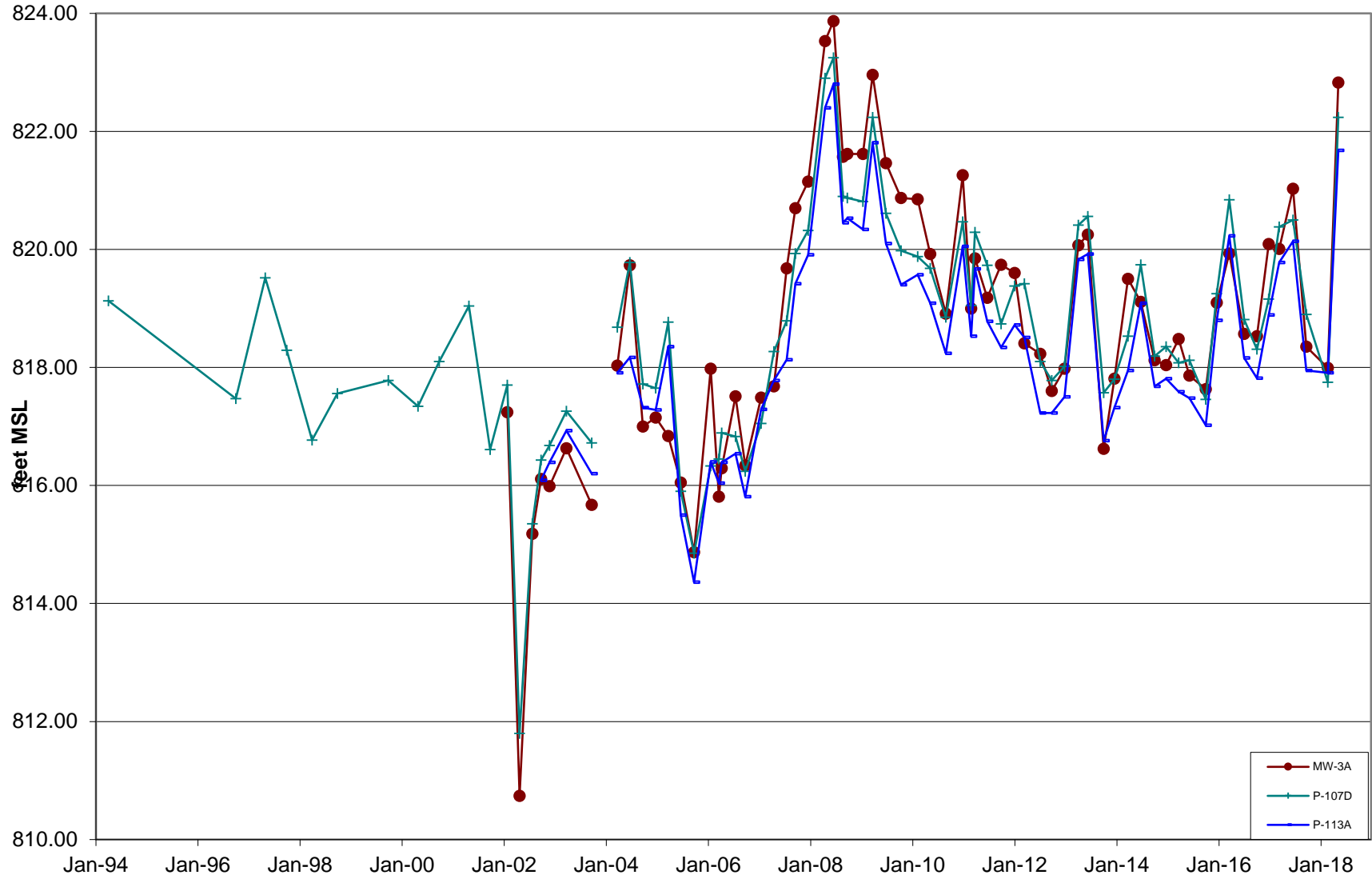


Chart 7: GV-6 Gas Concentrations

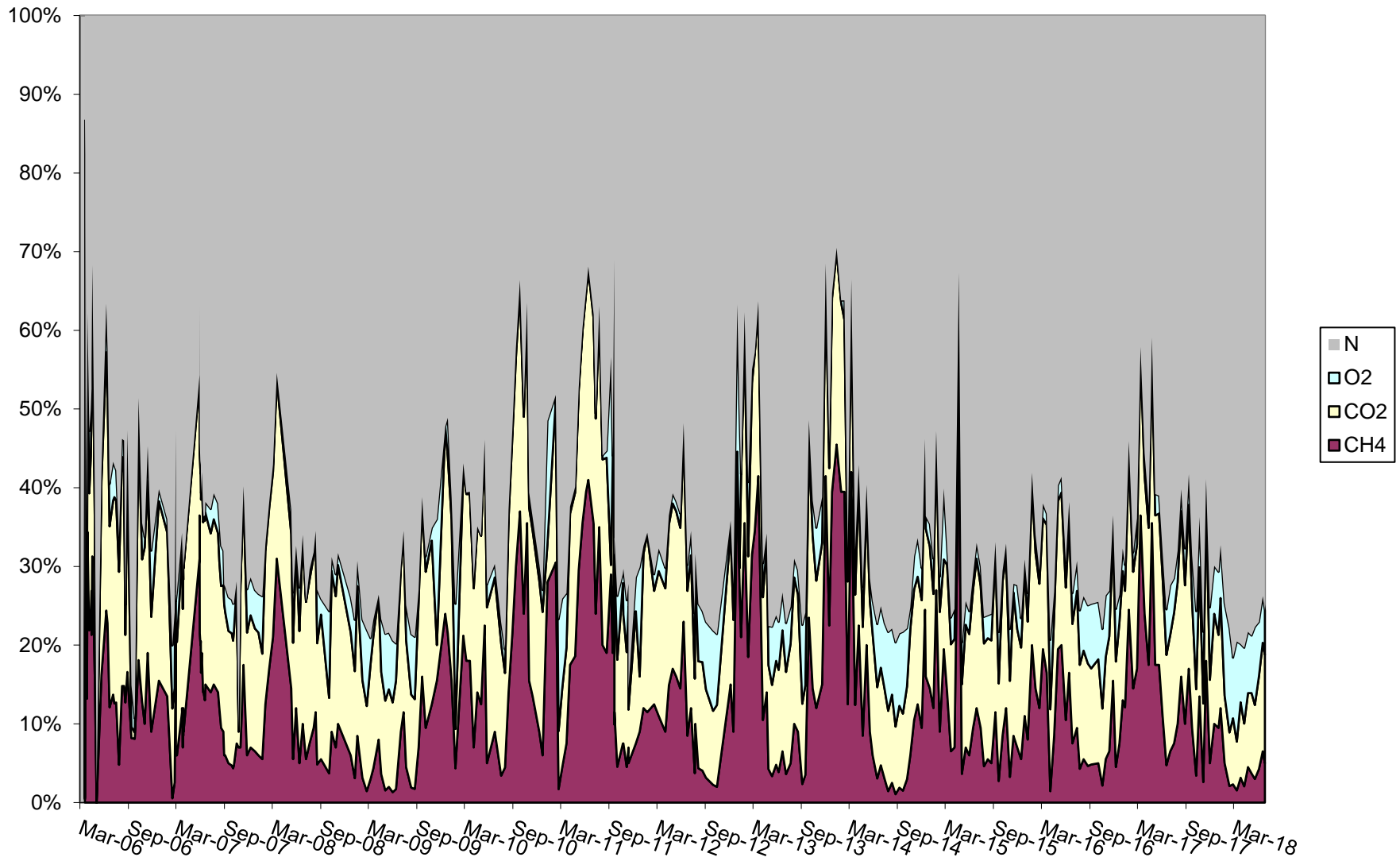


Chart 11: LC-1 Gas Concentrations

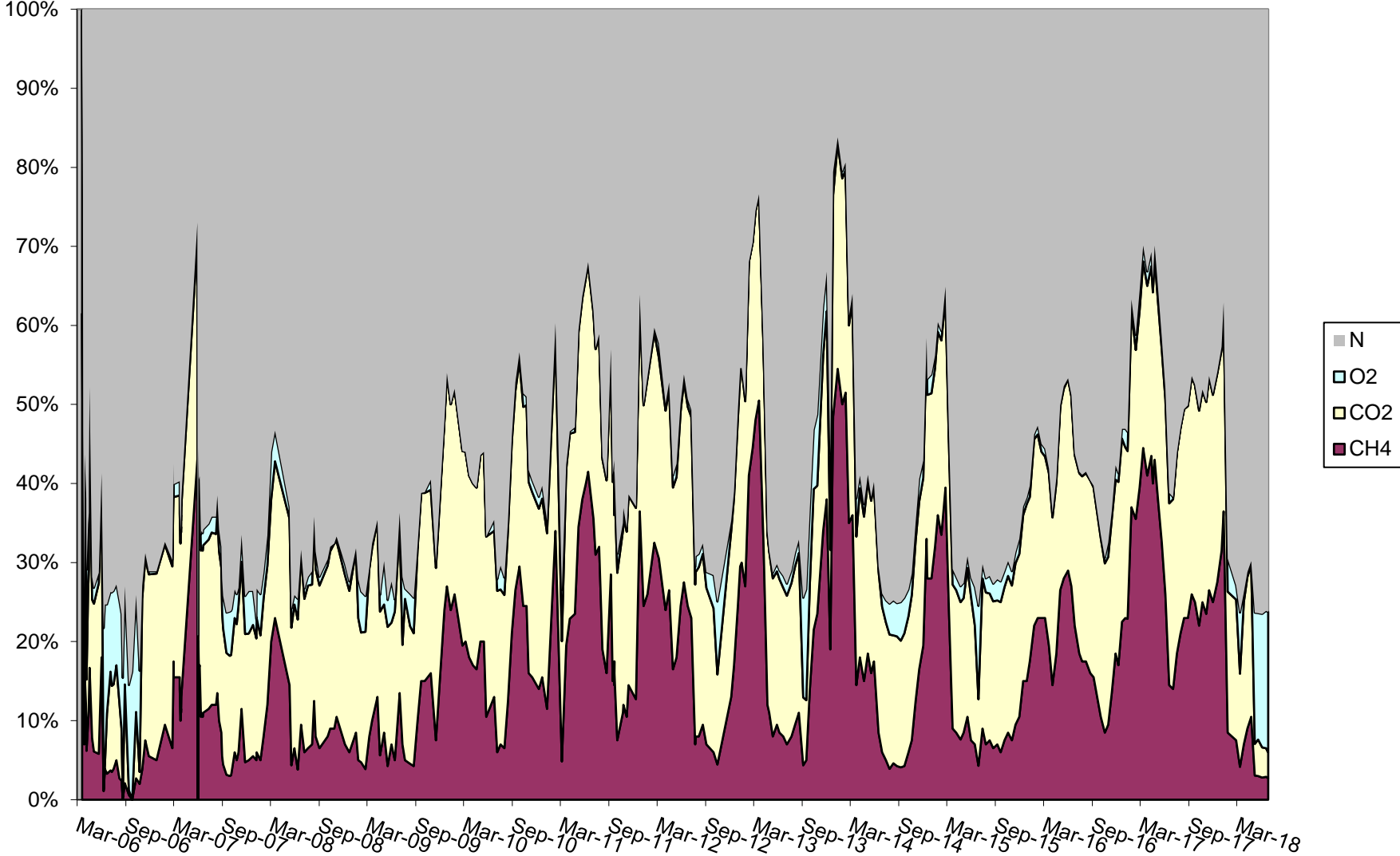


Chart 12: LC-2 Gas Concentrations

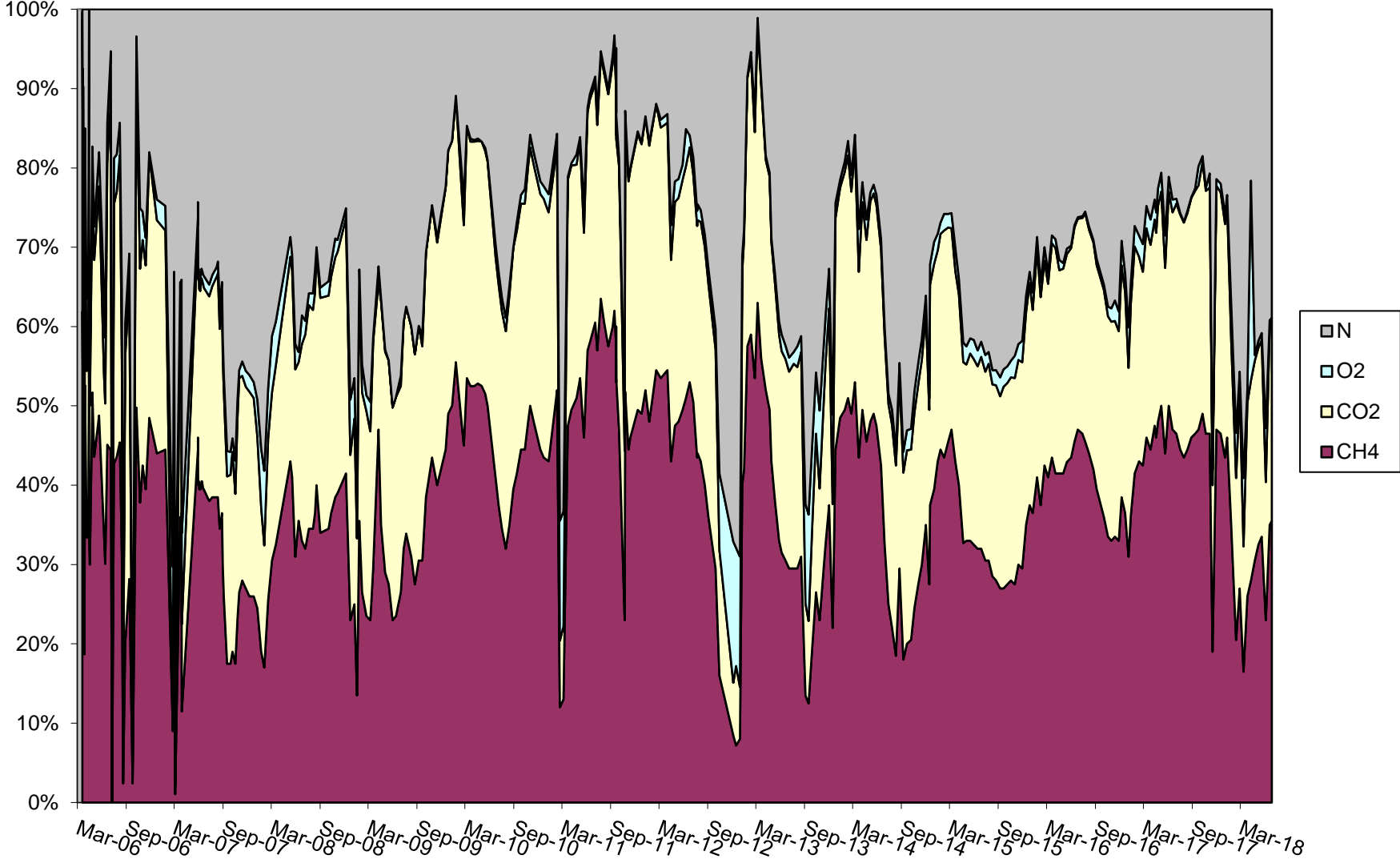


Chart 13: LC-3 Gas Concentrations

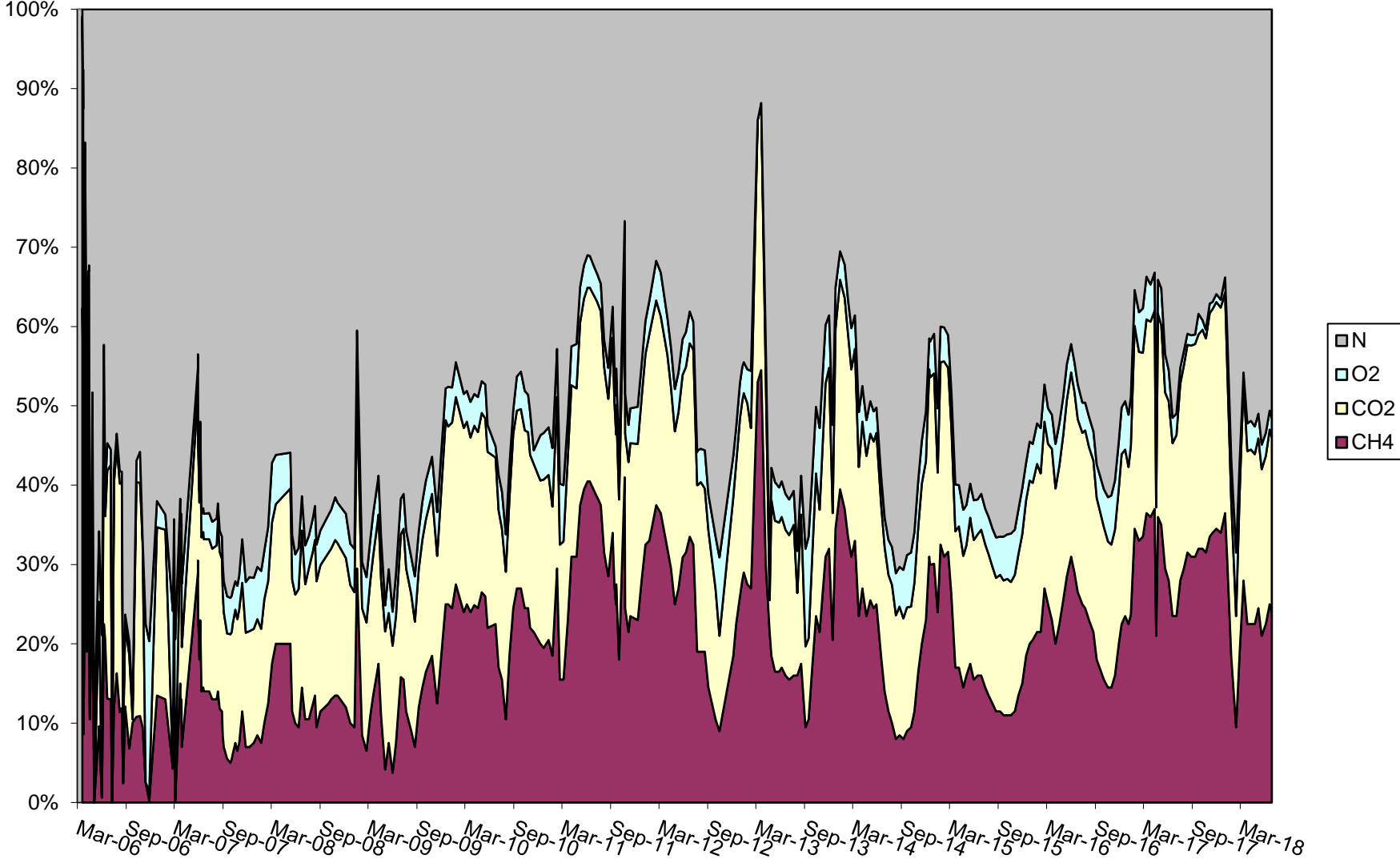


Chart 14: System Exhaust

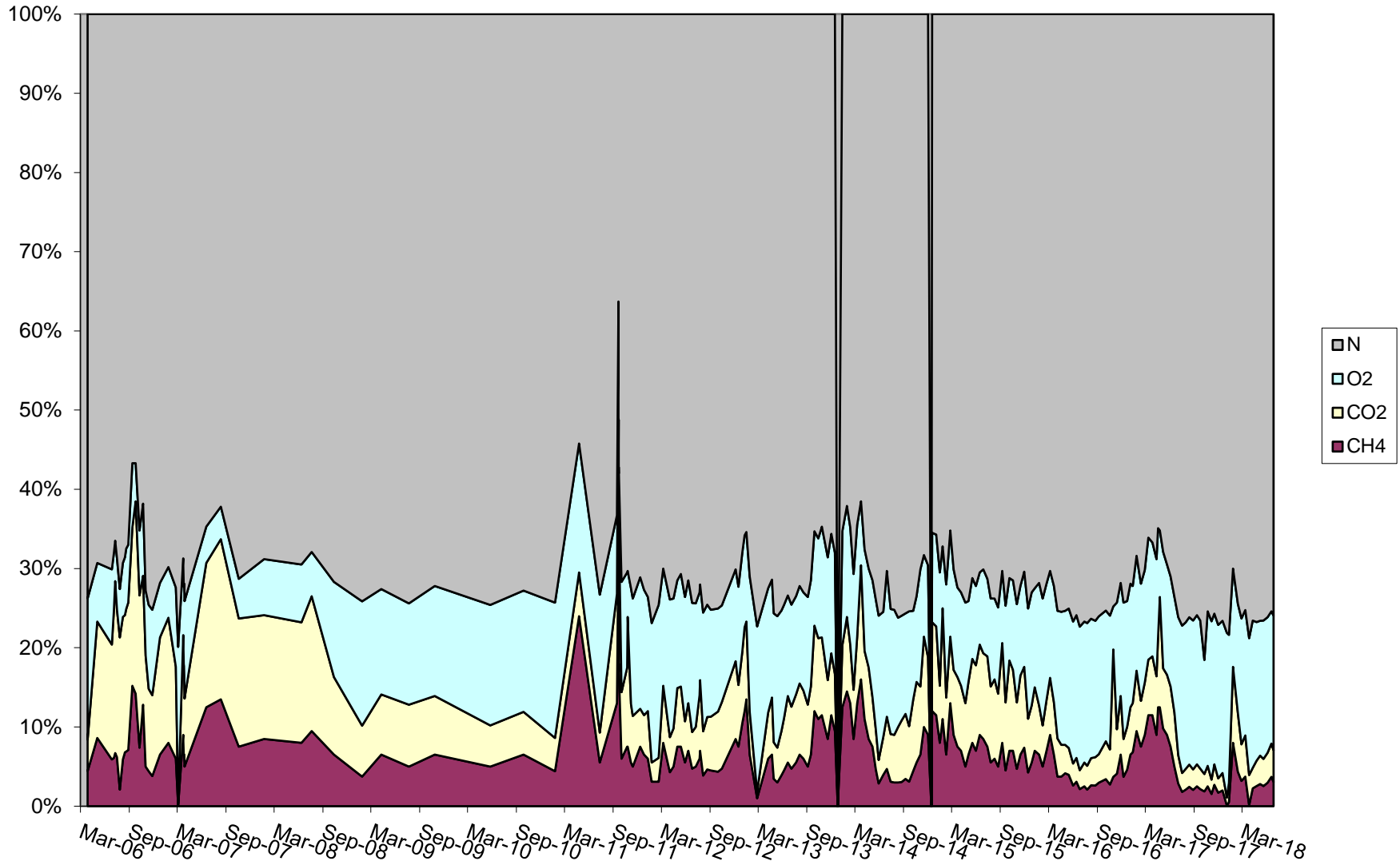


Chart 15: GP-1 Gas Concentrations

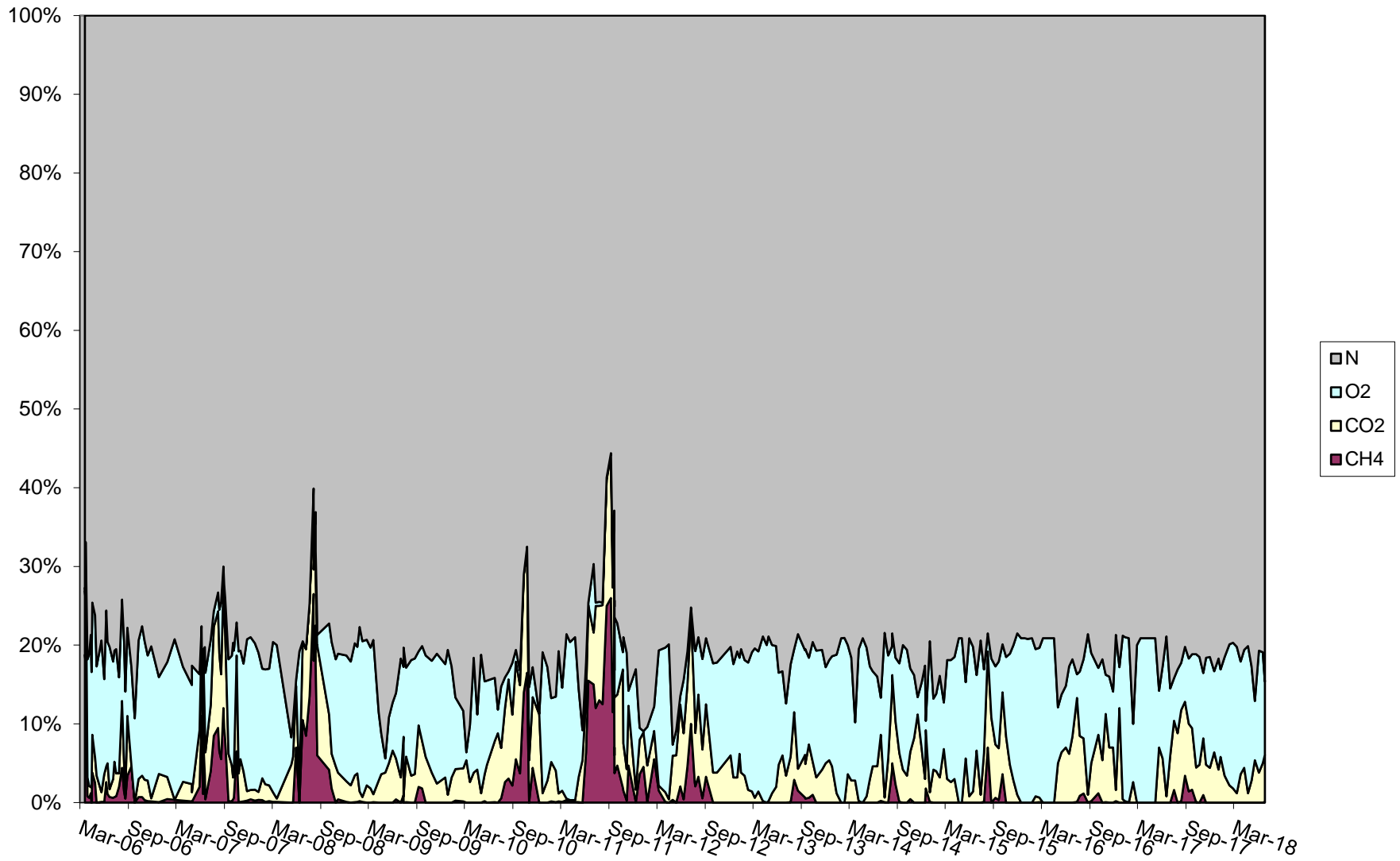


Chart 16: GP-2 Gas Concentrations

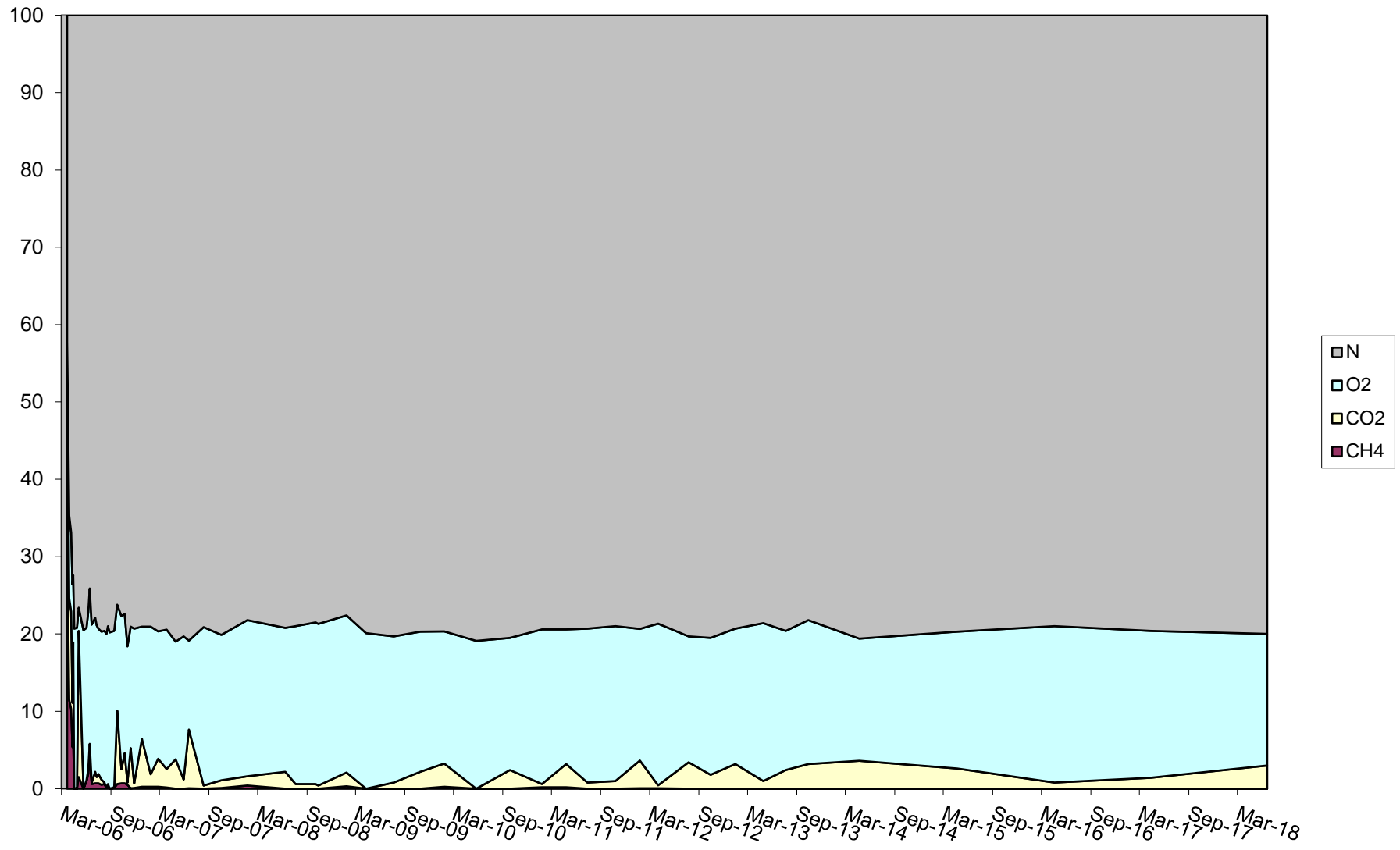


Chart 17: GP-3 Gas Concentrations

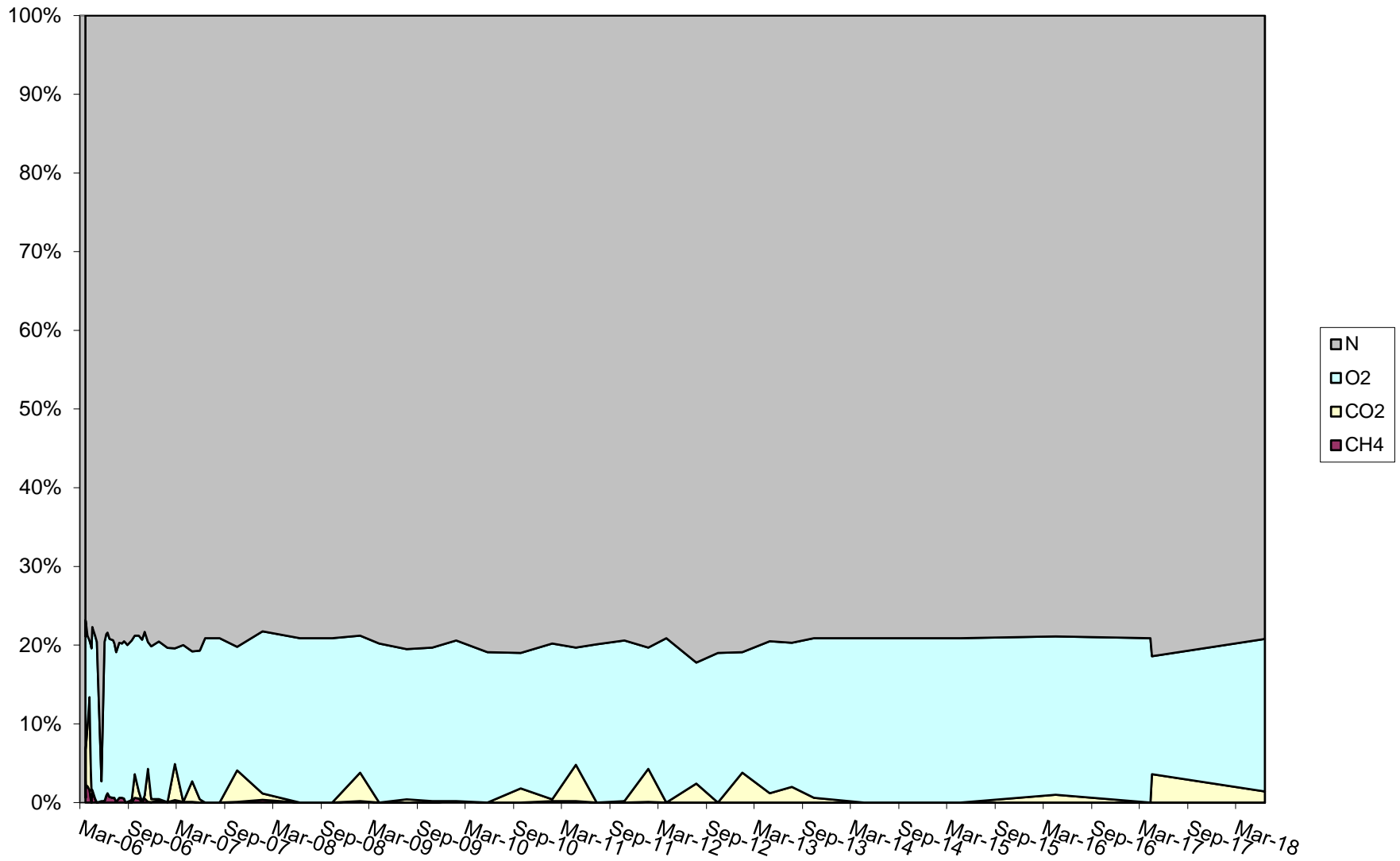


Chart 18: GP-4 Gas Concentrations

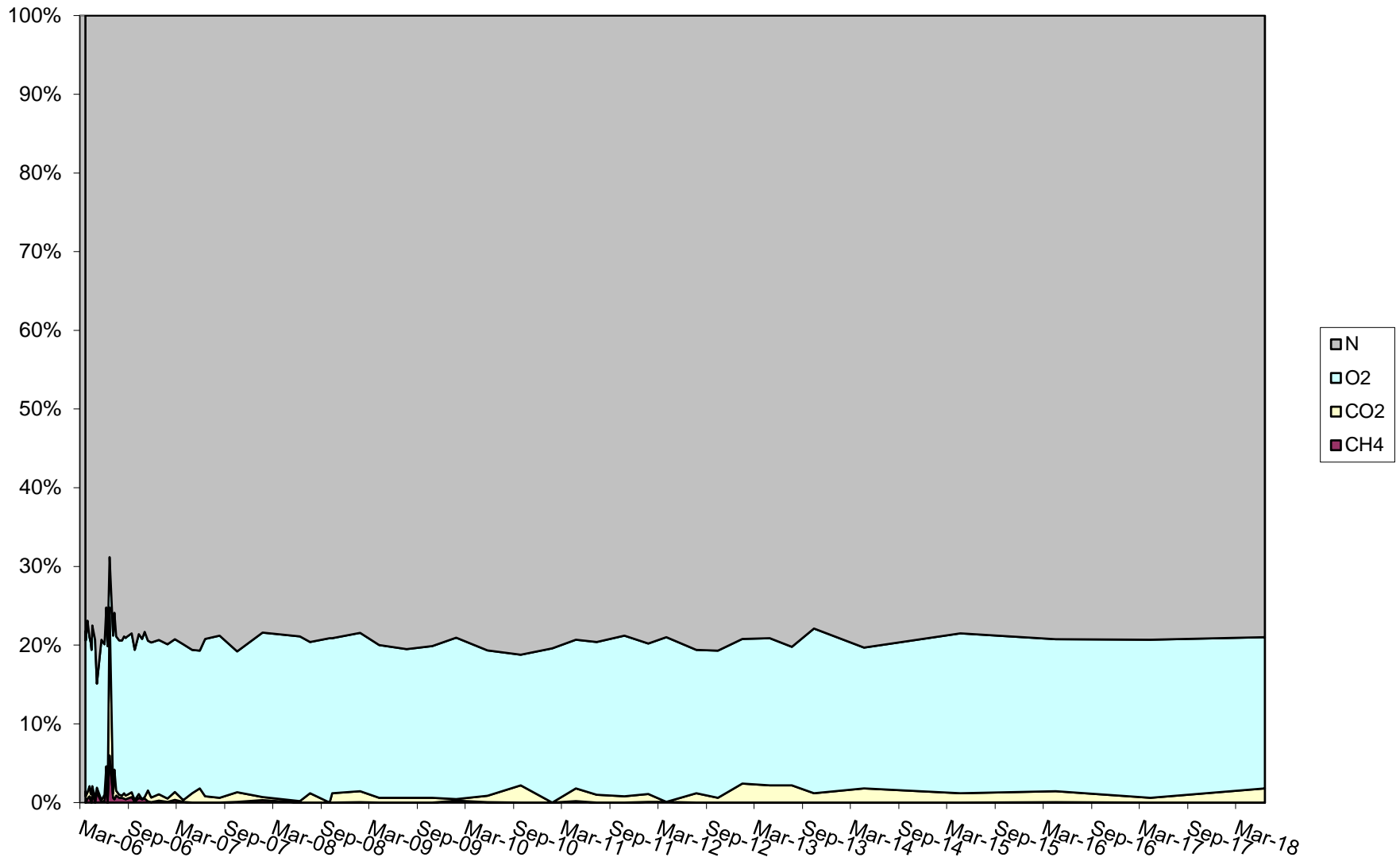


Chart 19: GP-5 Gas Concentrations

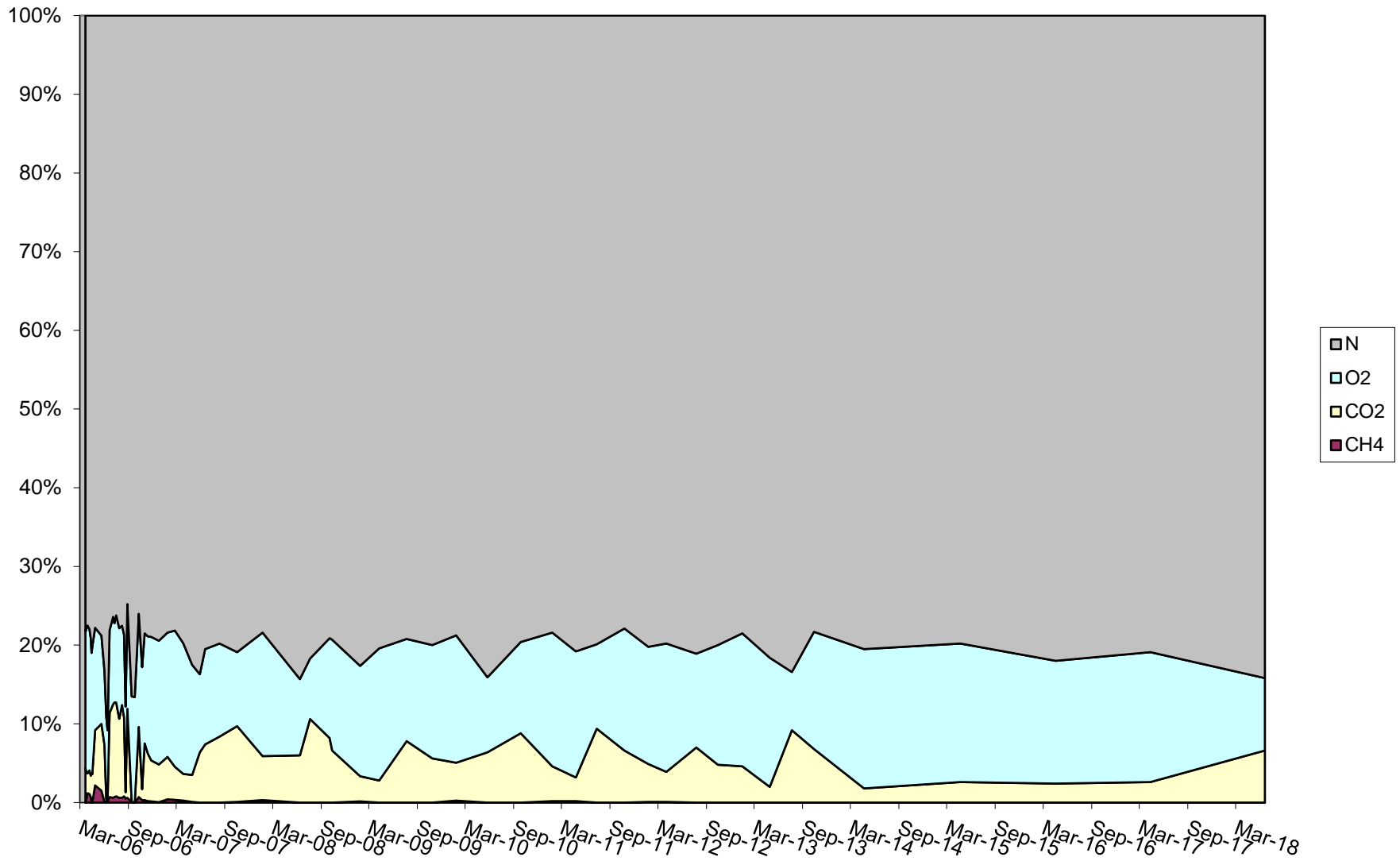


Chart 20: GP-6 Gas Concentrations

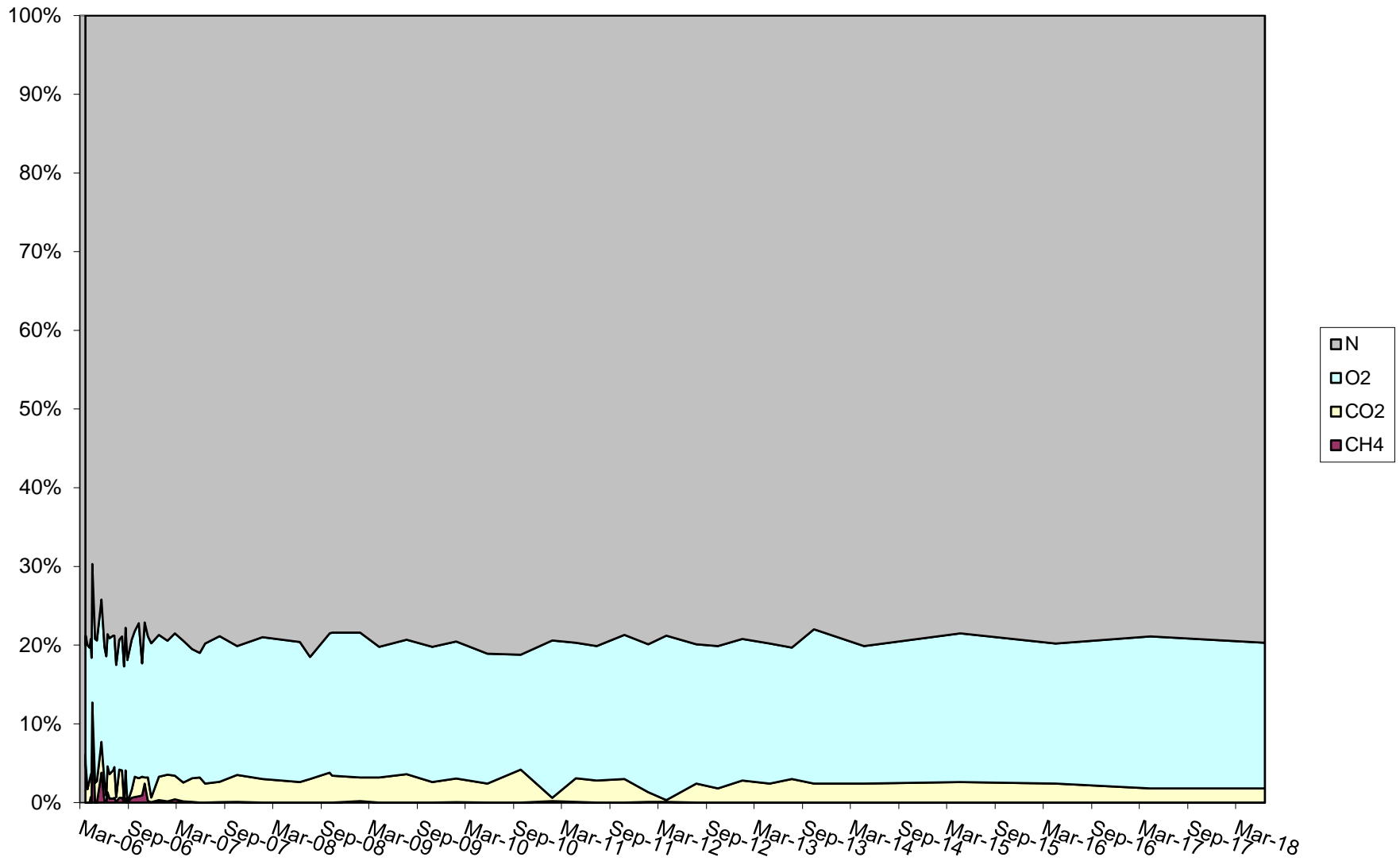


Chart 21: GP-7 Gas Concentrations

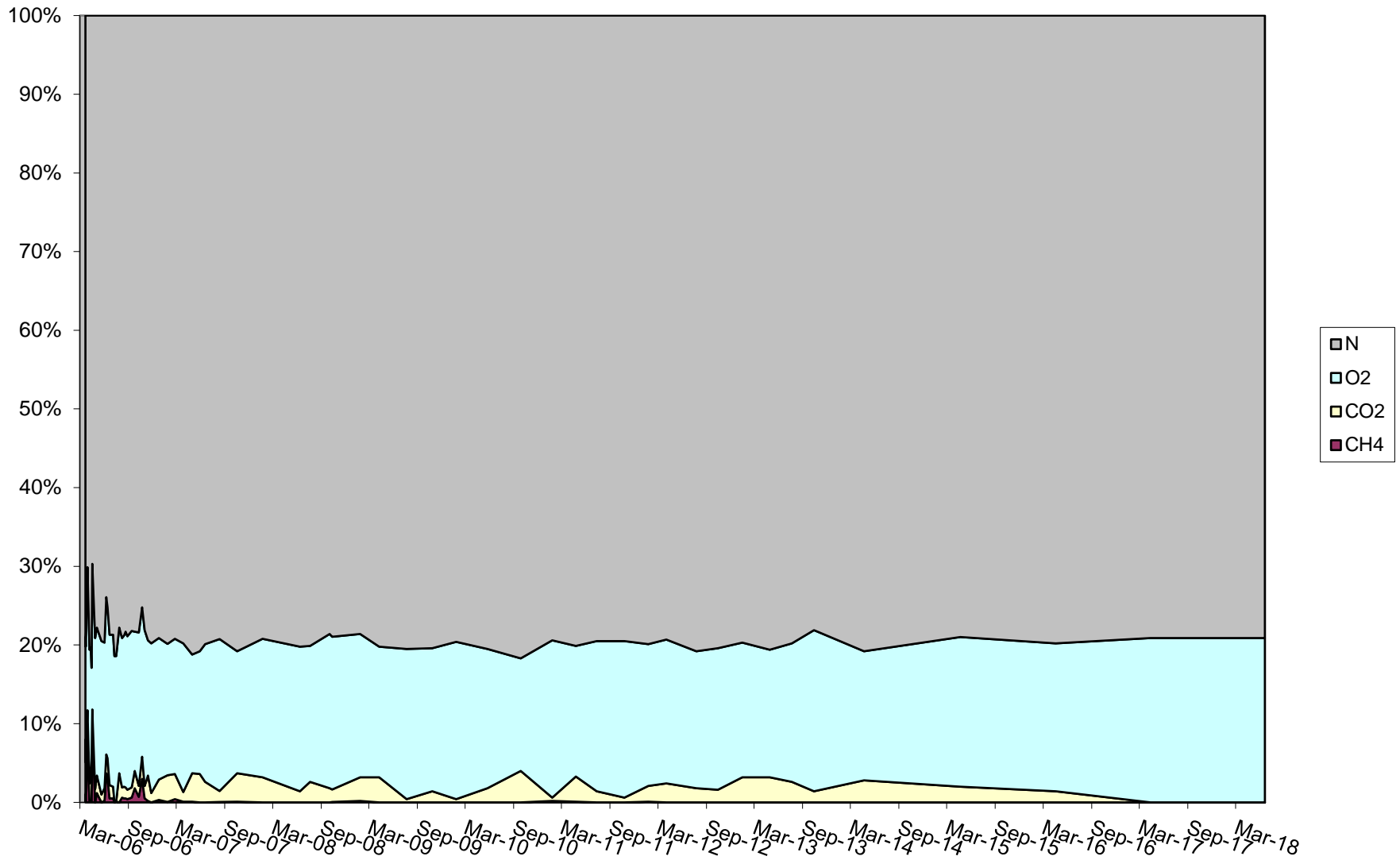


Chart 22: GP-8 Gas Concentrations

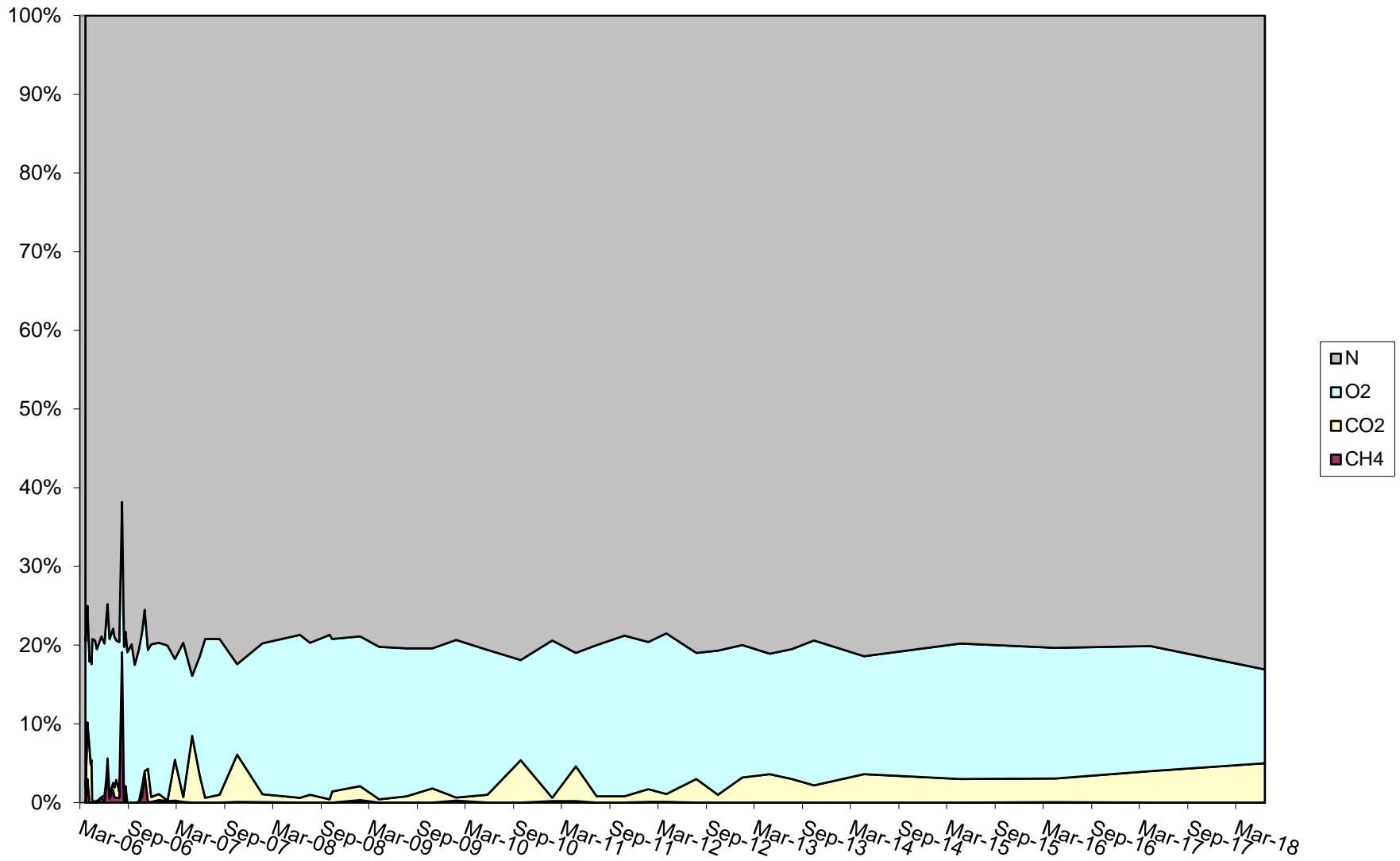


Chart 23: GP-10 Gas Concentrations

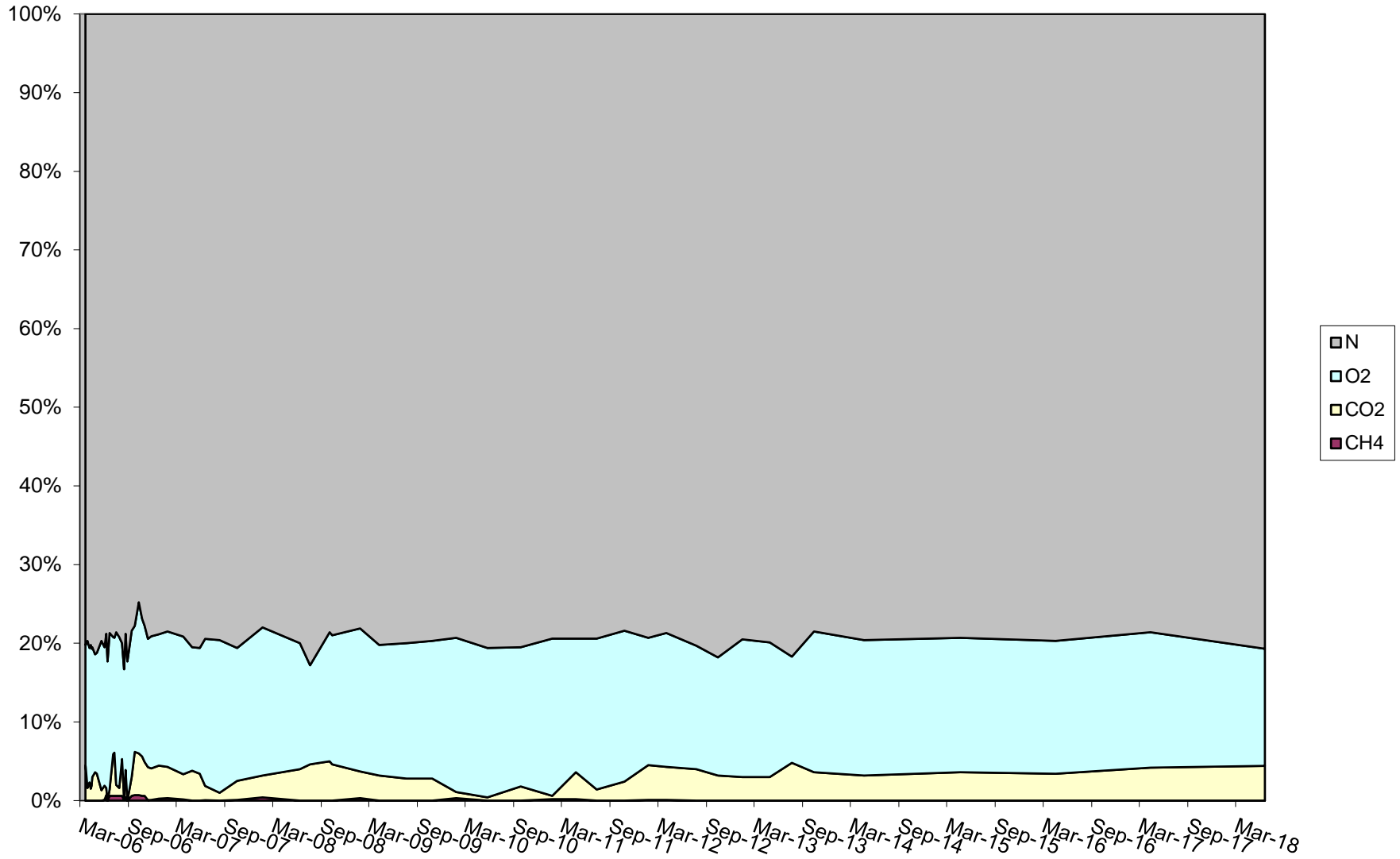


Chart 24: GP-11 Gas Concentrations

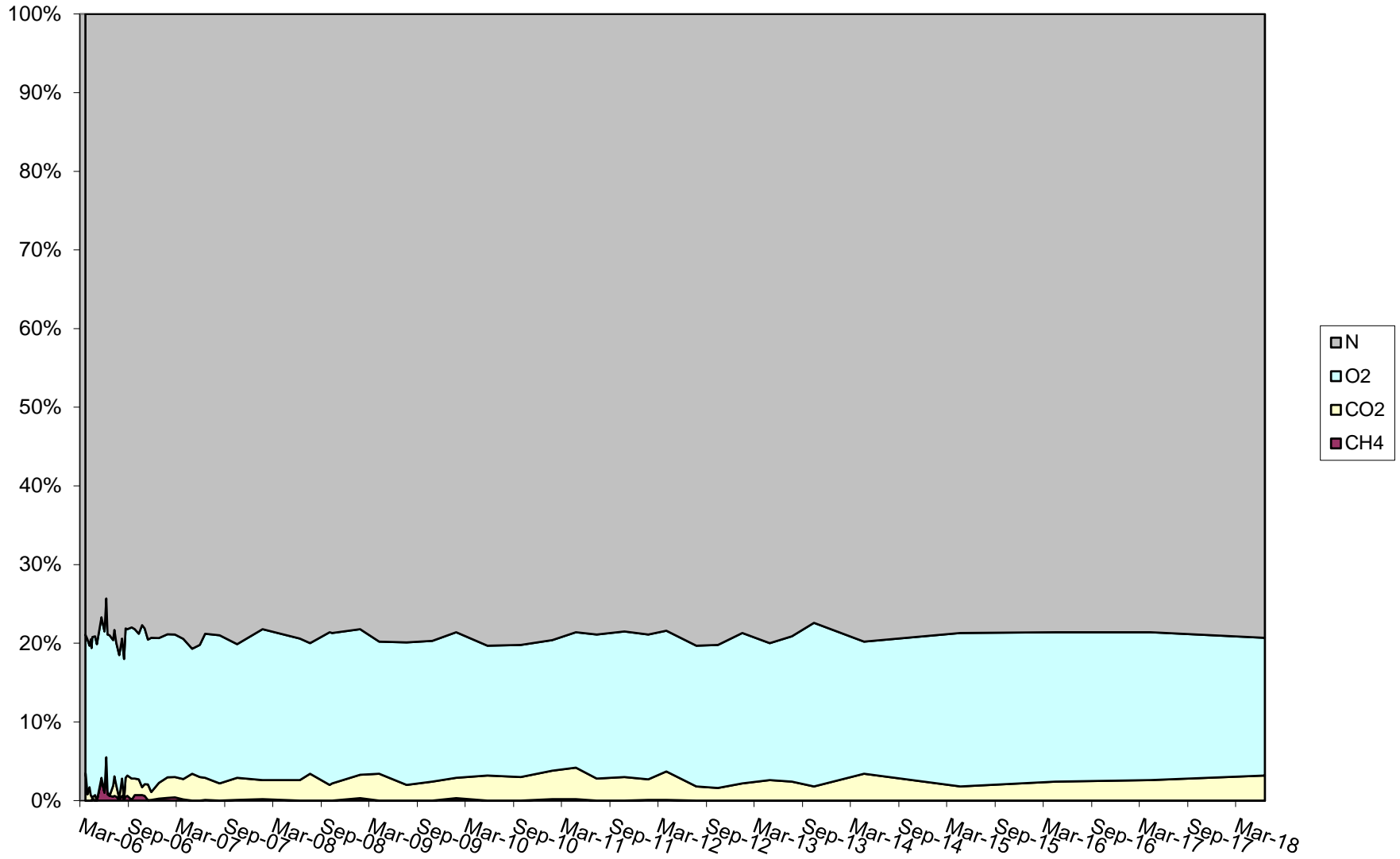


Chart 25: GP-12 Gas Concentrations

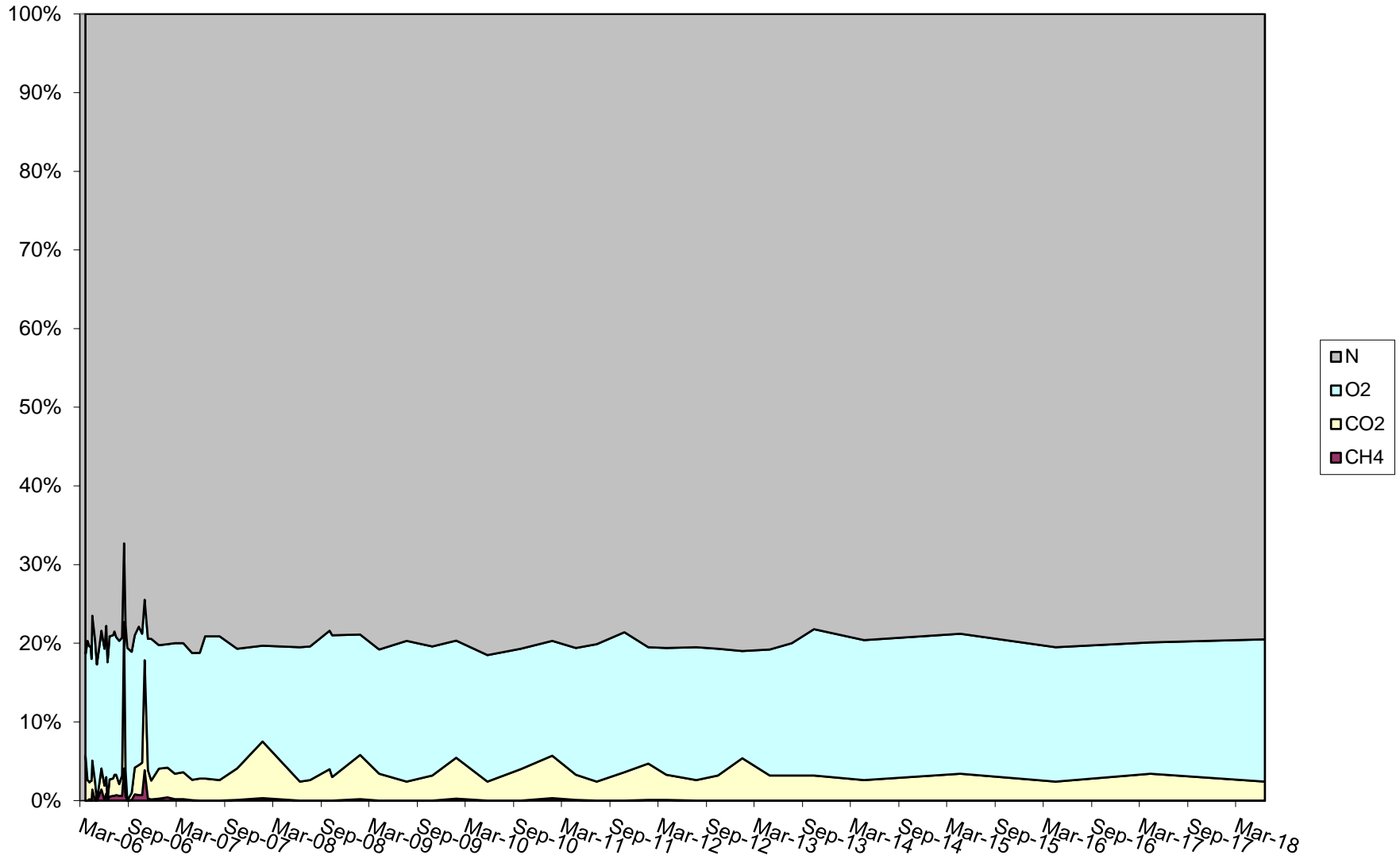


Chart 26: MW-101 Gas Concentrations

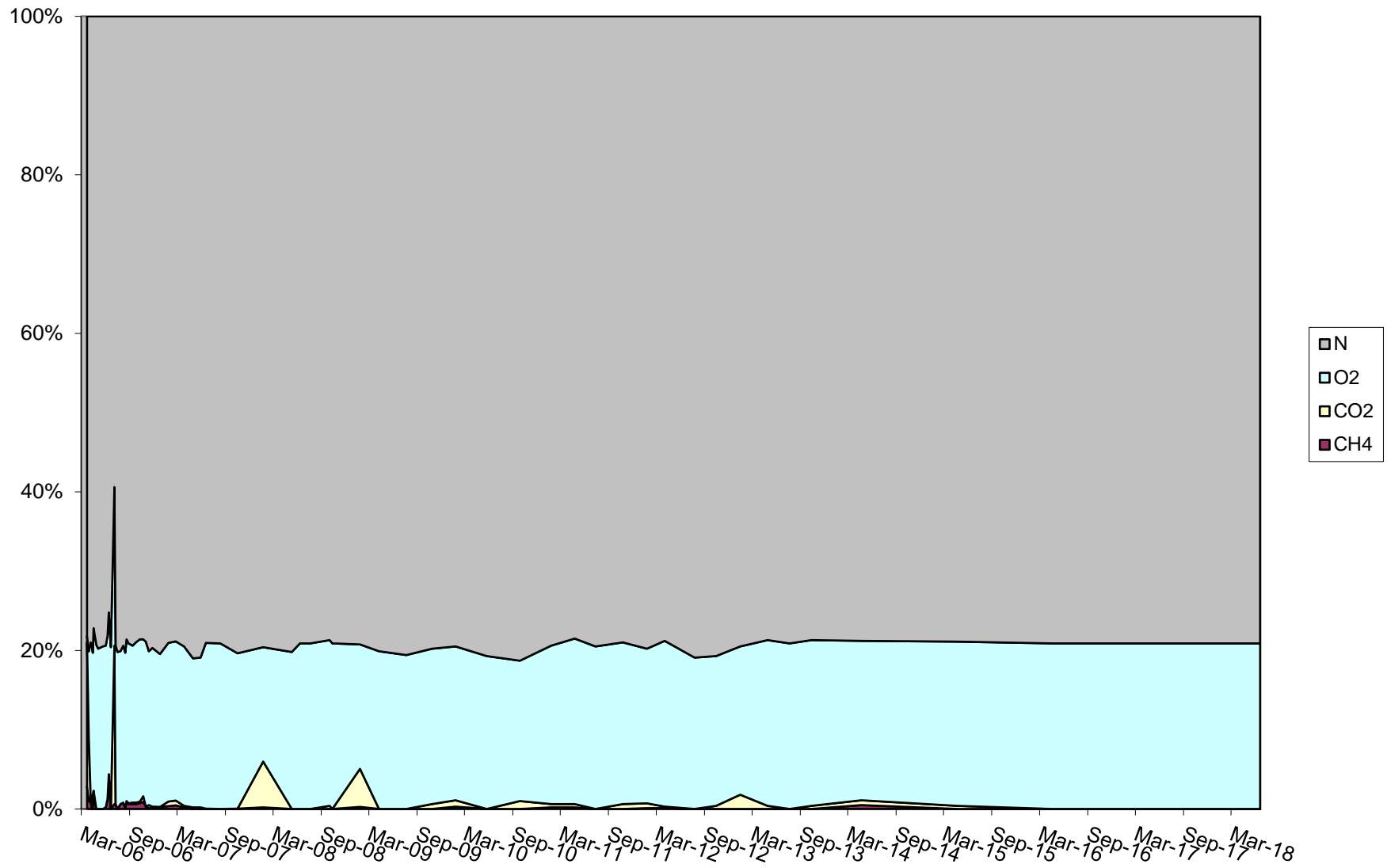


Chart 27: MW-102 Gas Concentrations

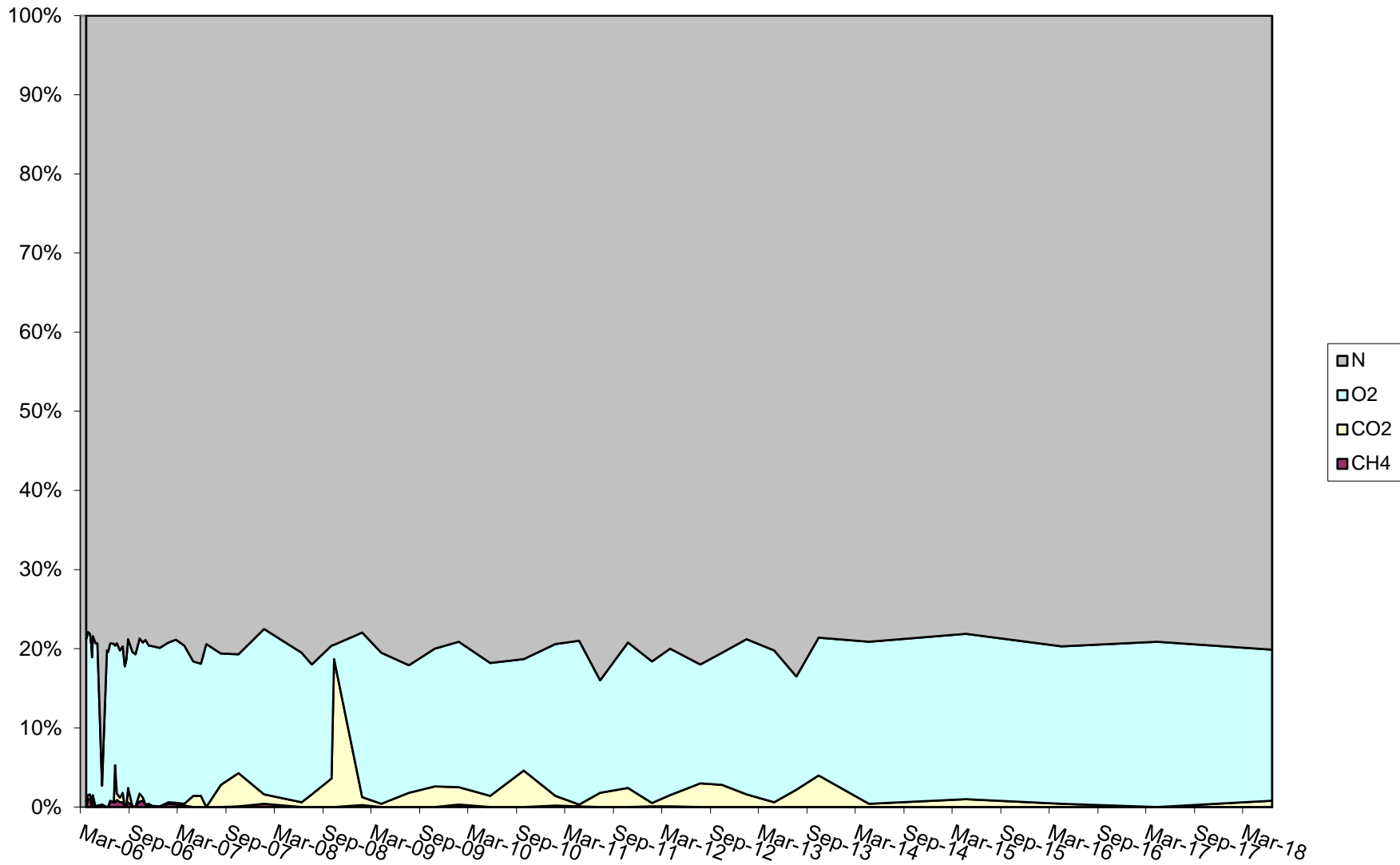


Chart 28: MW-103 Gas Concentrations

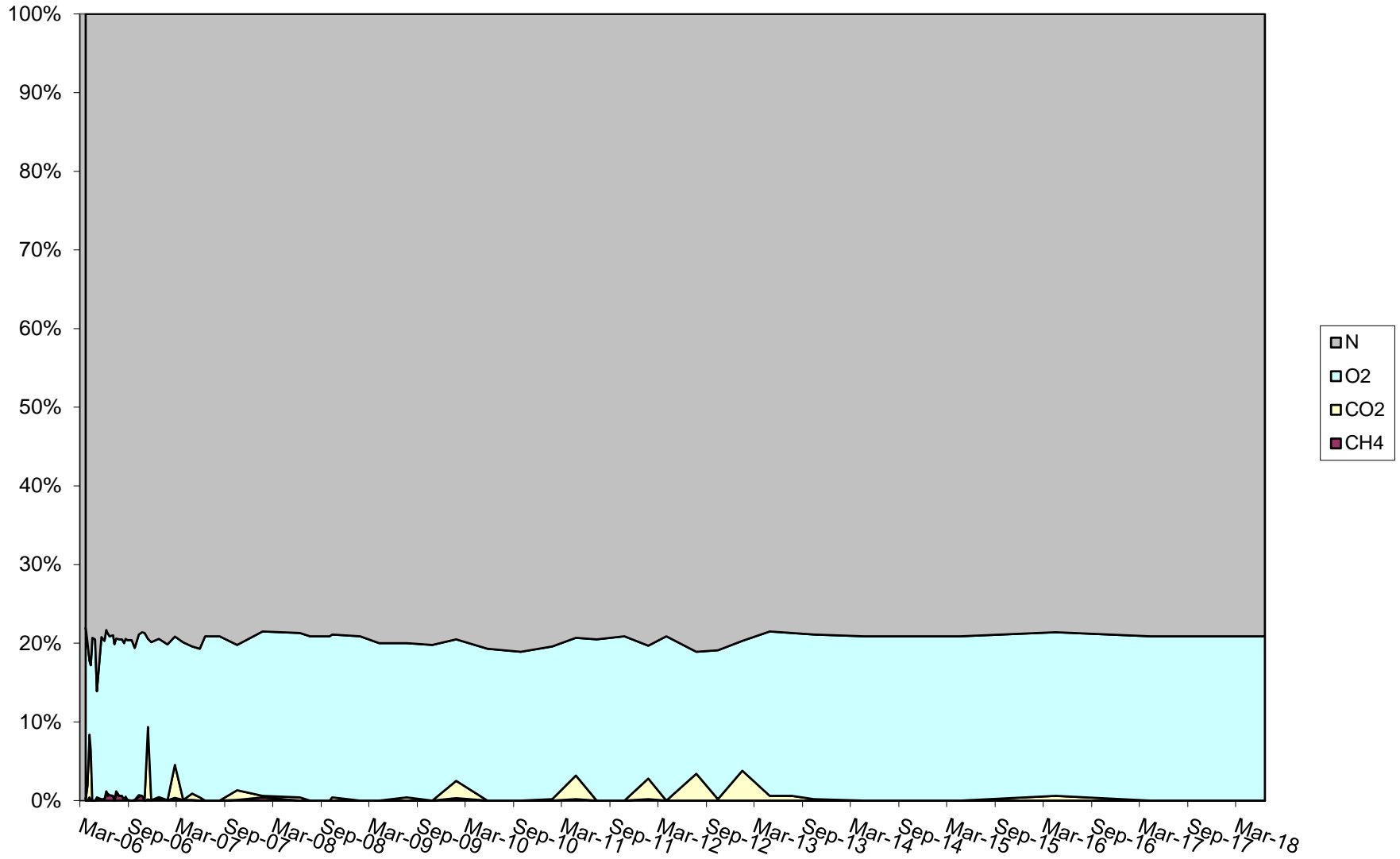
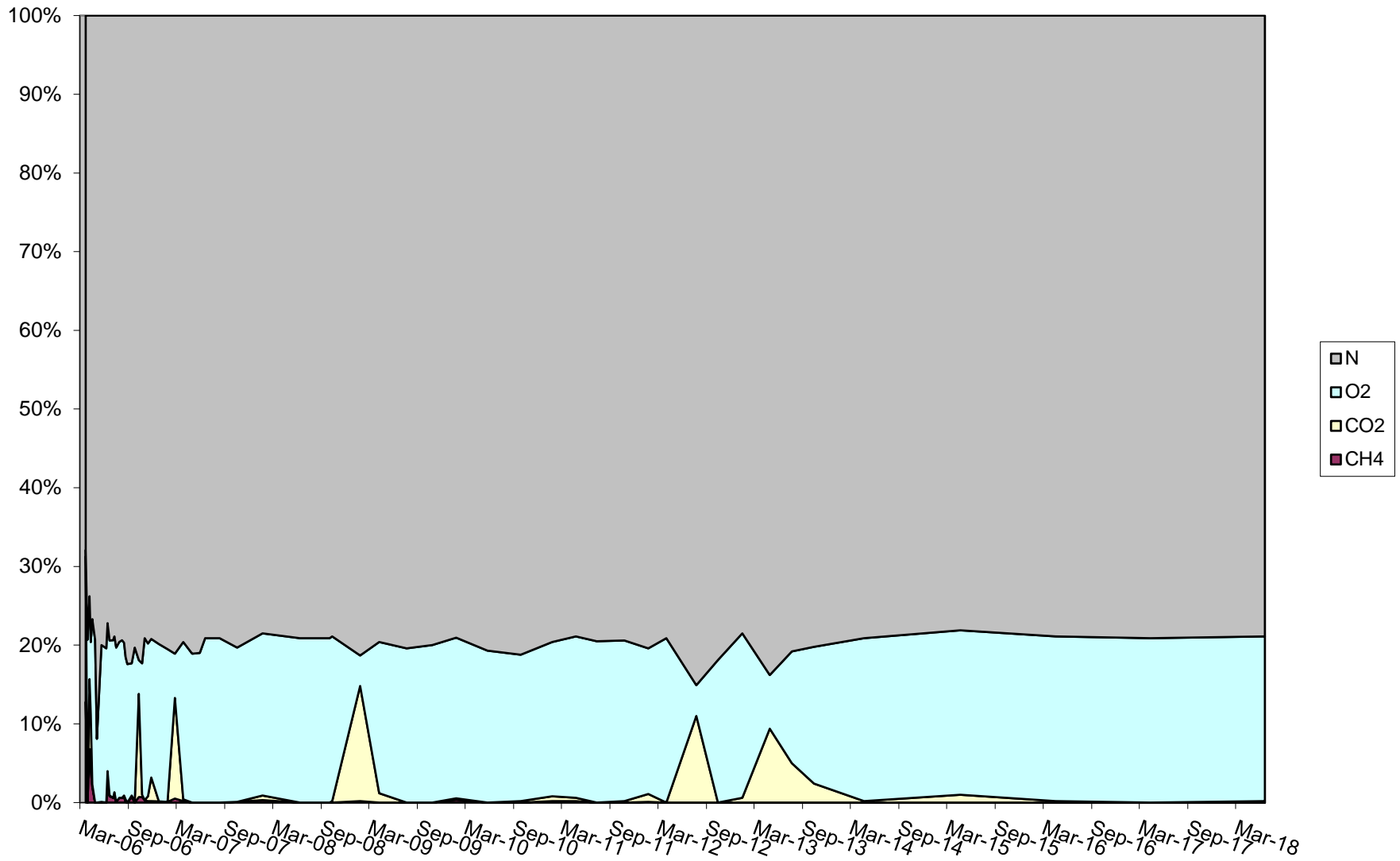
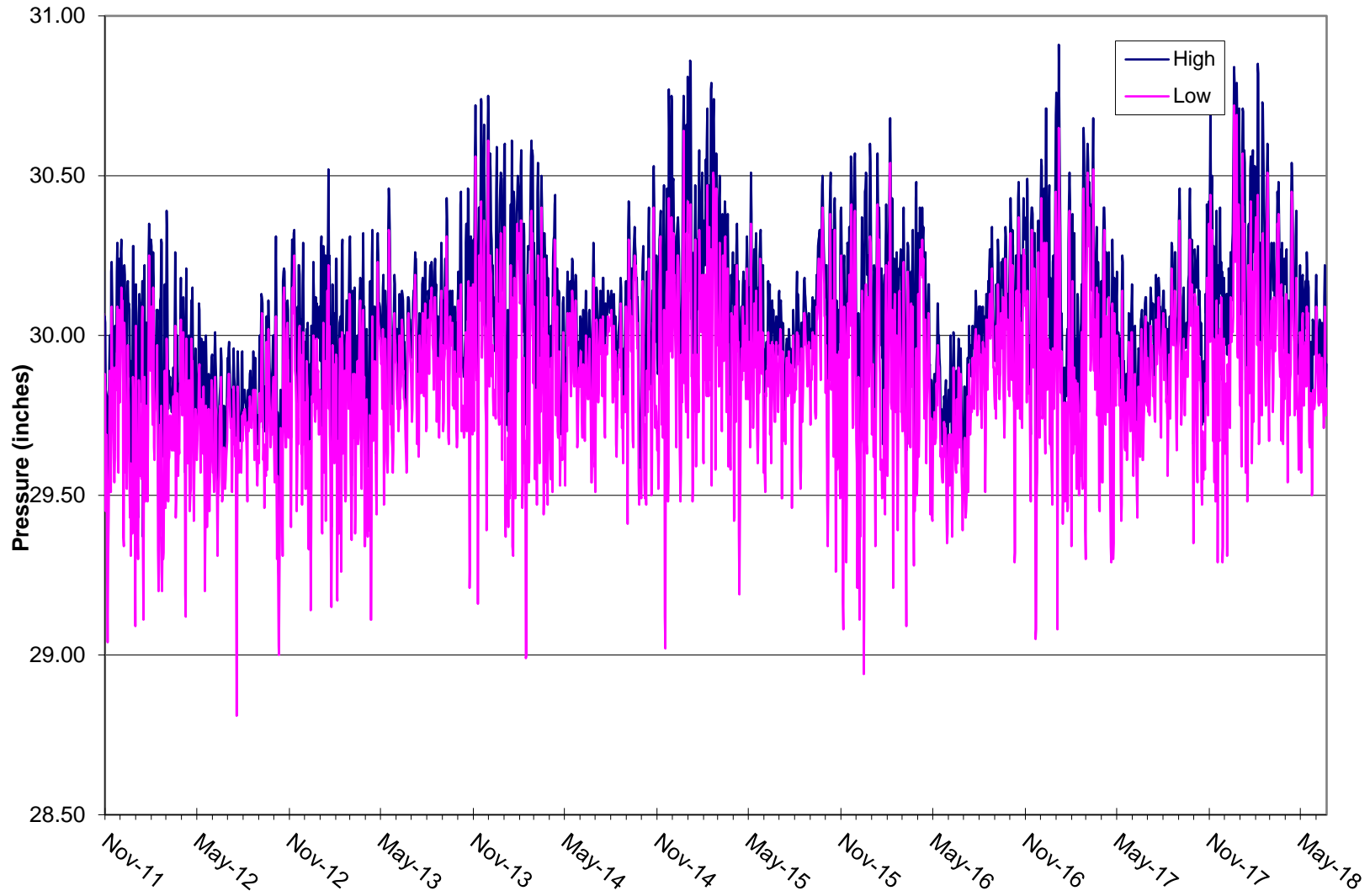


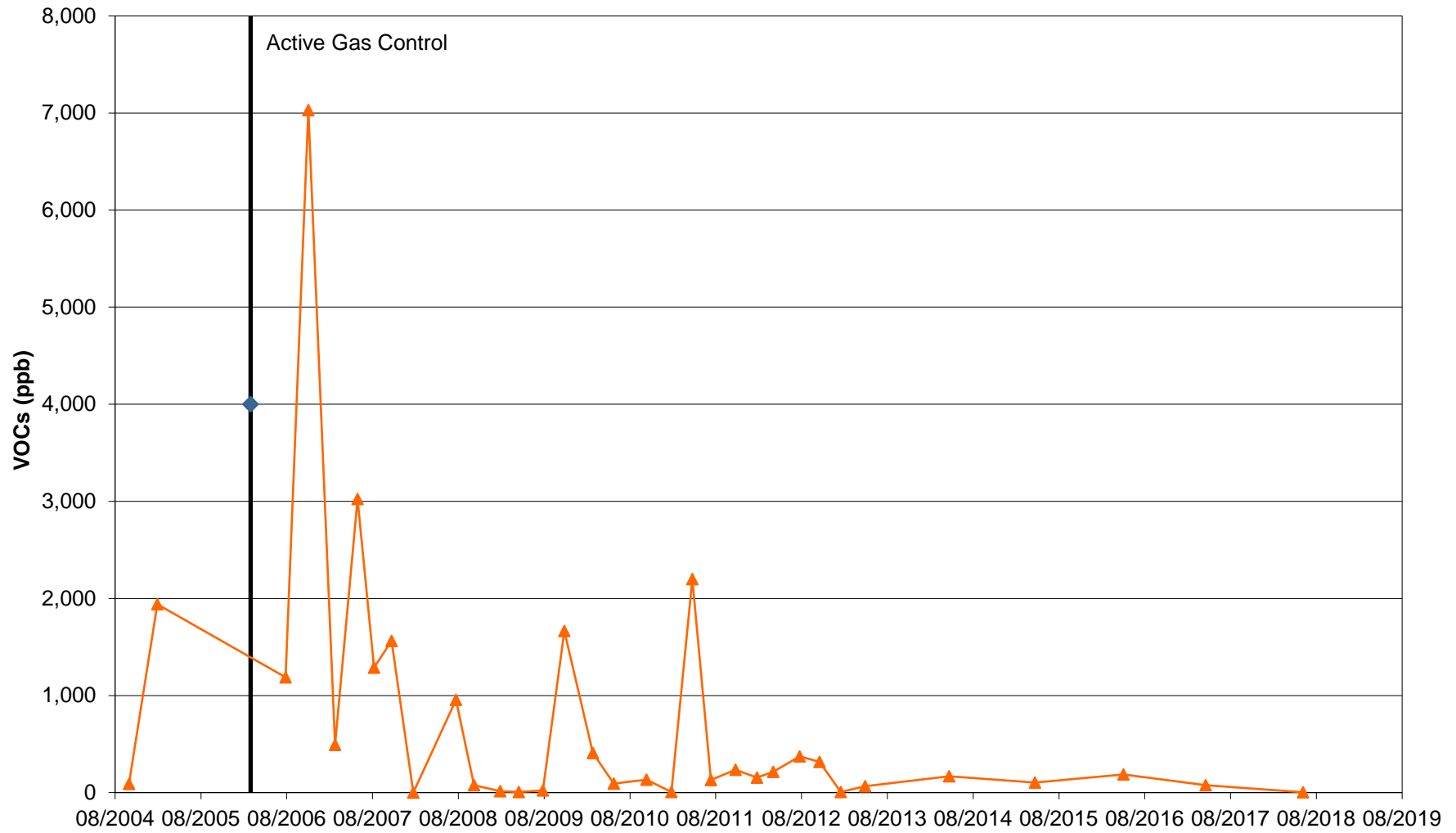
Chart 29: MW-104 Gas Concentrations



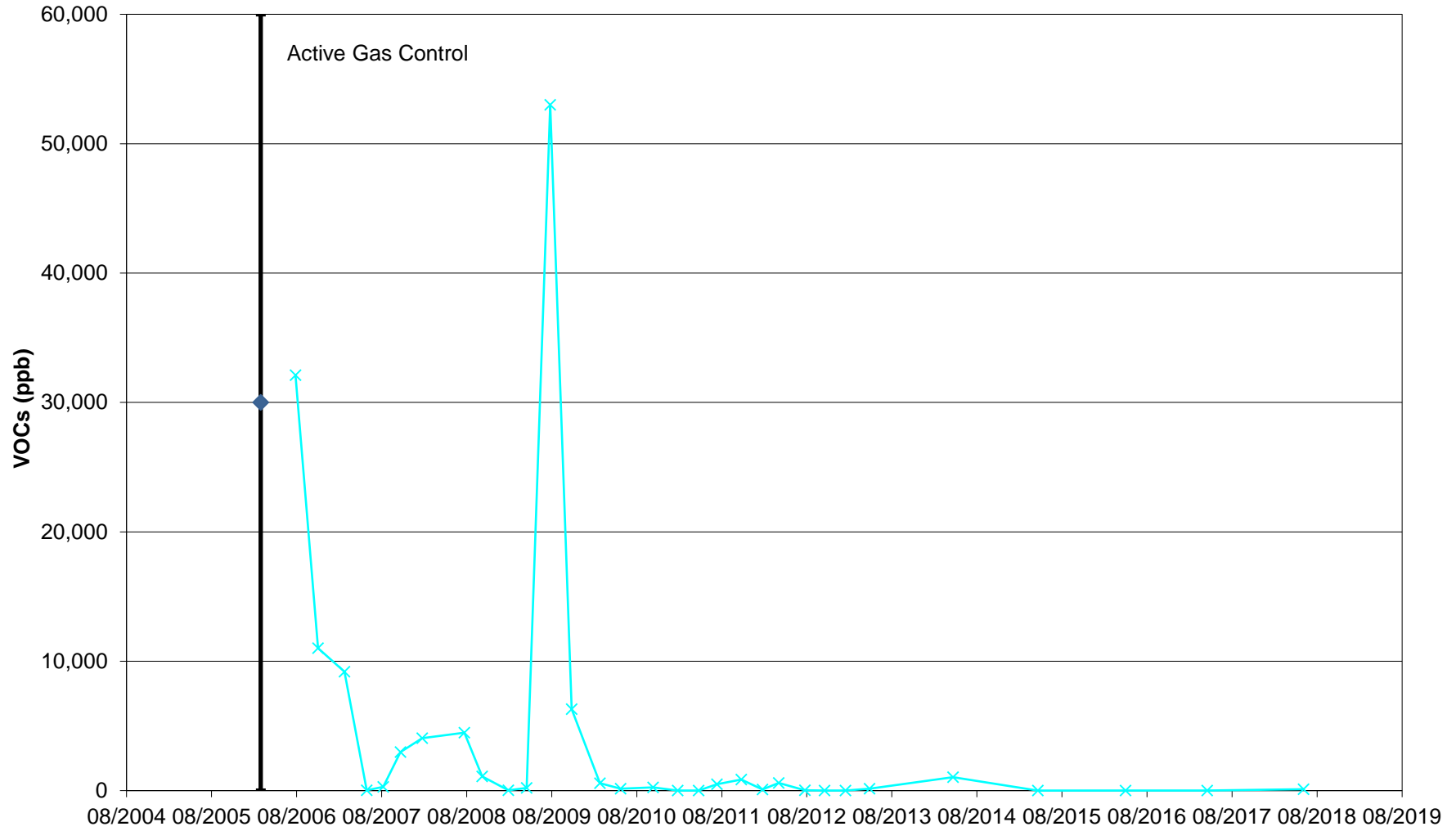
**Chart 30: Barometric Pressure
(Weather Station: Ripon, WI)**



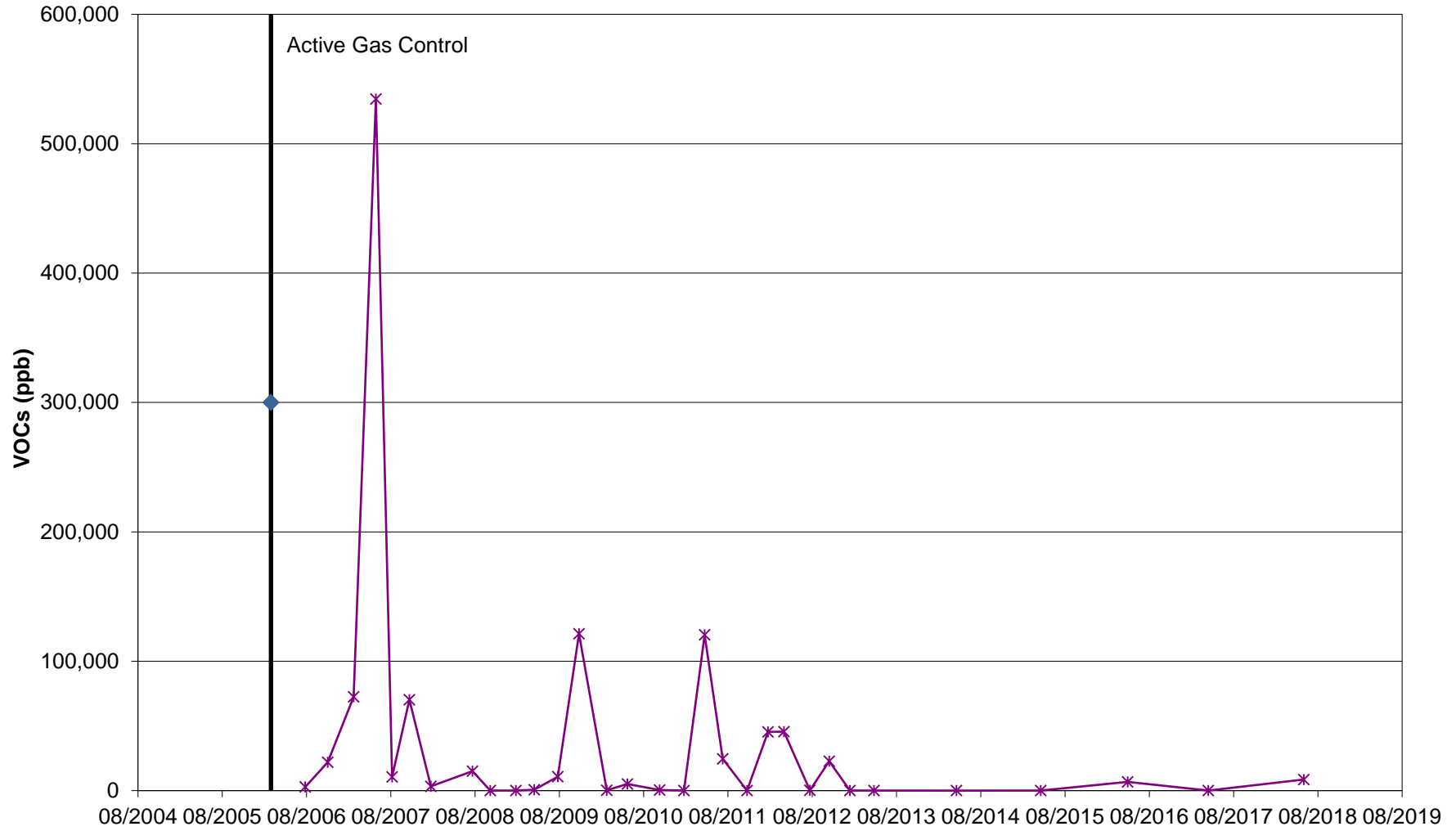
**Chart 31: LC-1
Total Gas VOCs**



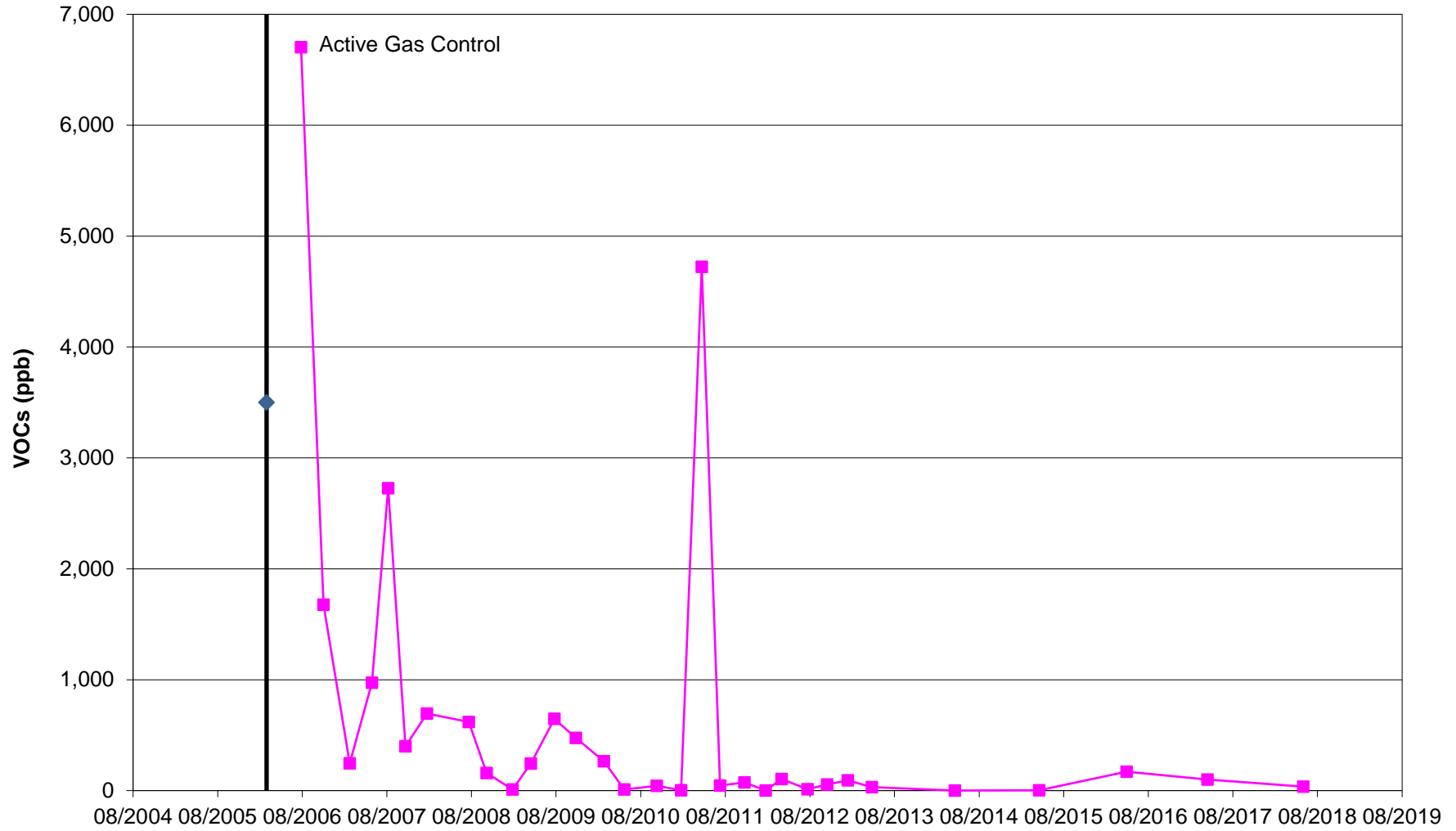
**Chart 32: LC-2
Total Gas VOCs**



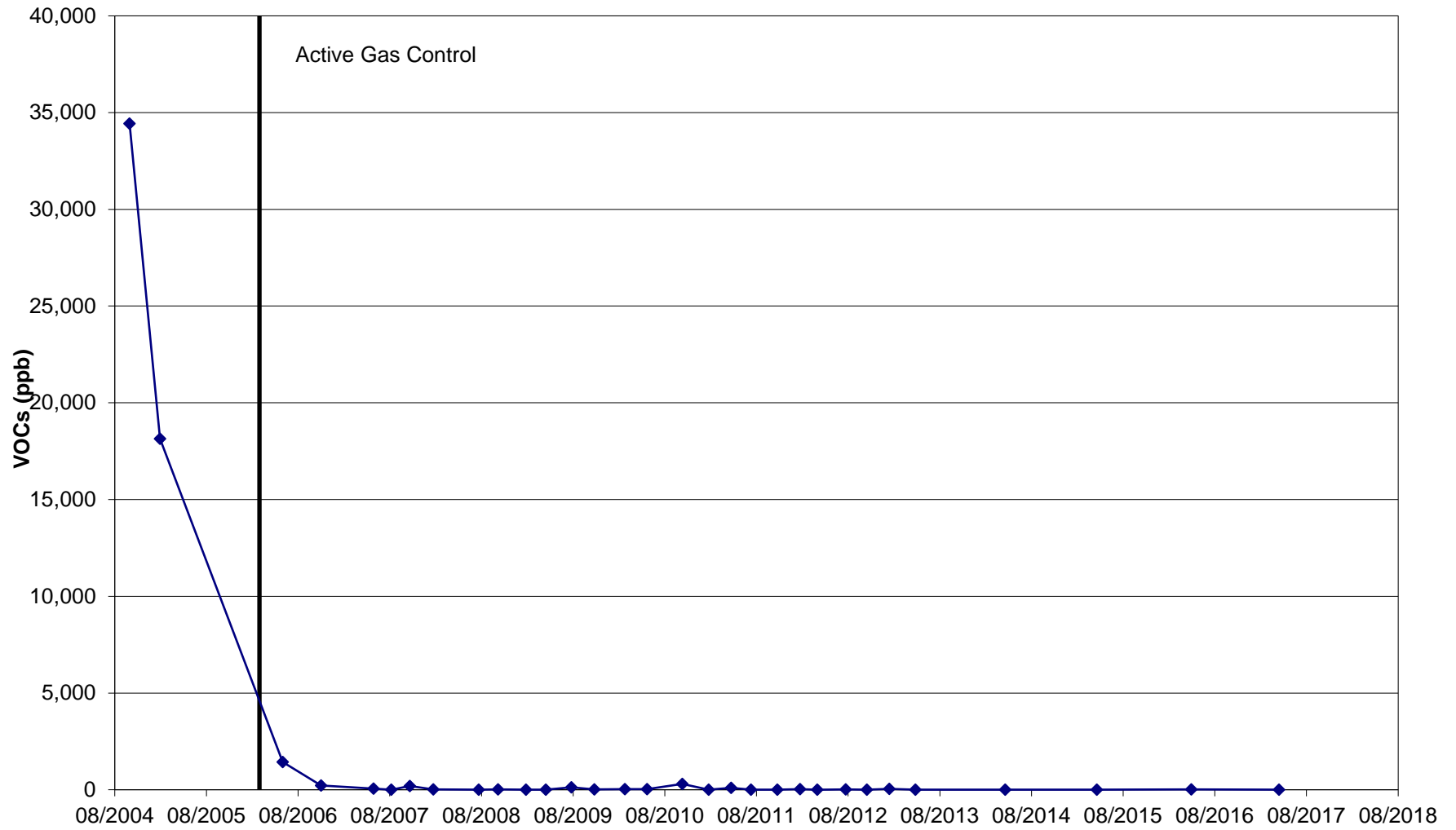
**Chart 33: LC-3
Total Gas VOCs**



**Chart 34: GV-6
Total Gas VOCs**



**Chart 35: GP-3
Total Gas VOCs**



**Chart 36: MW-101
Layer 1 Well**

Upgradient

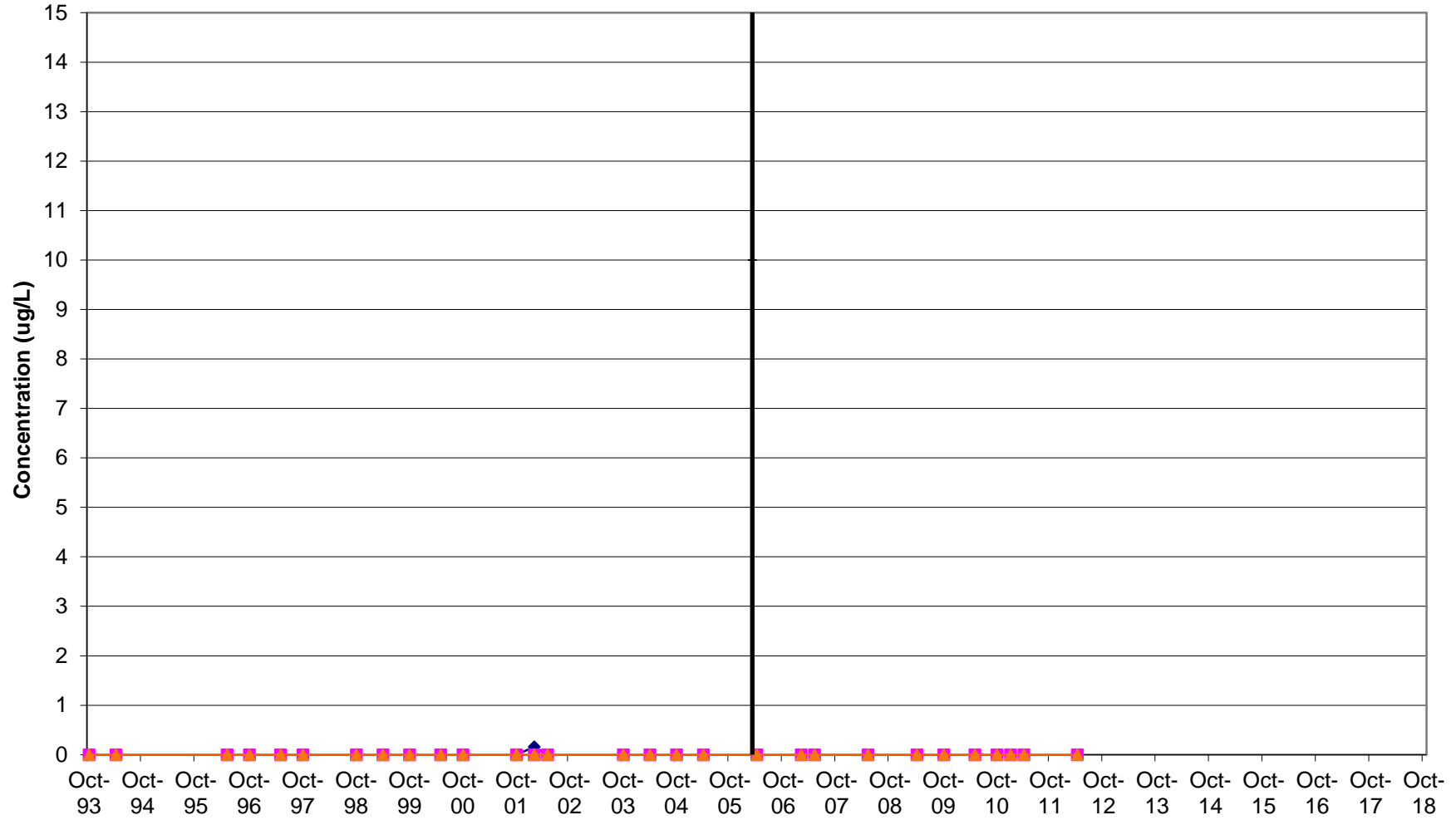
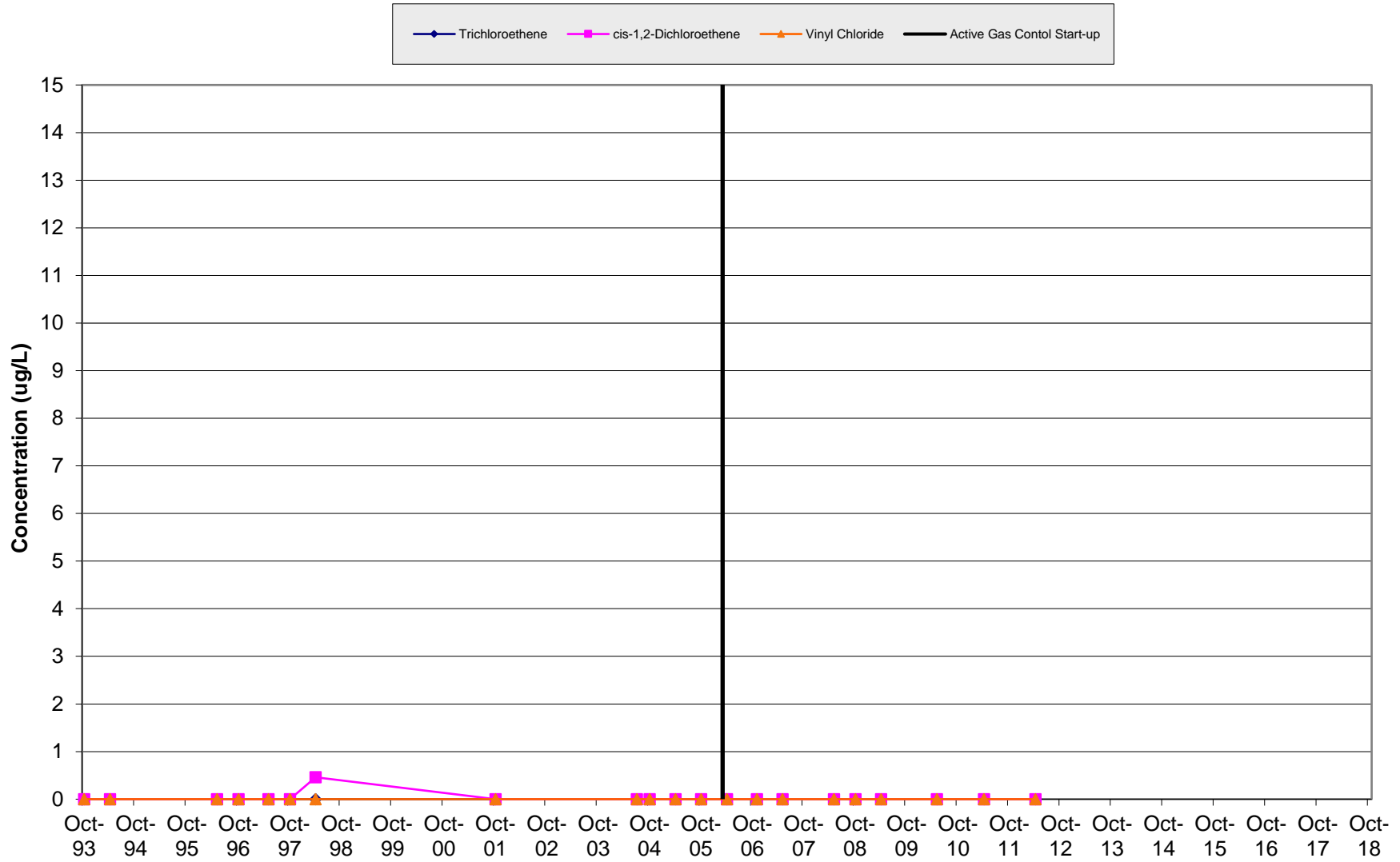


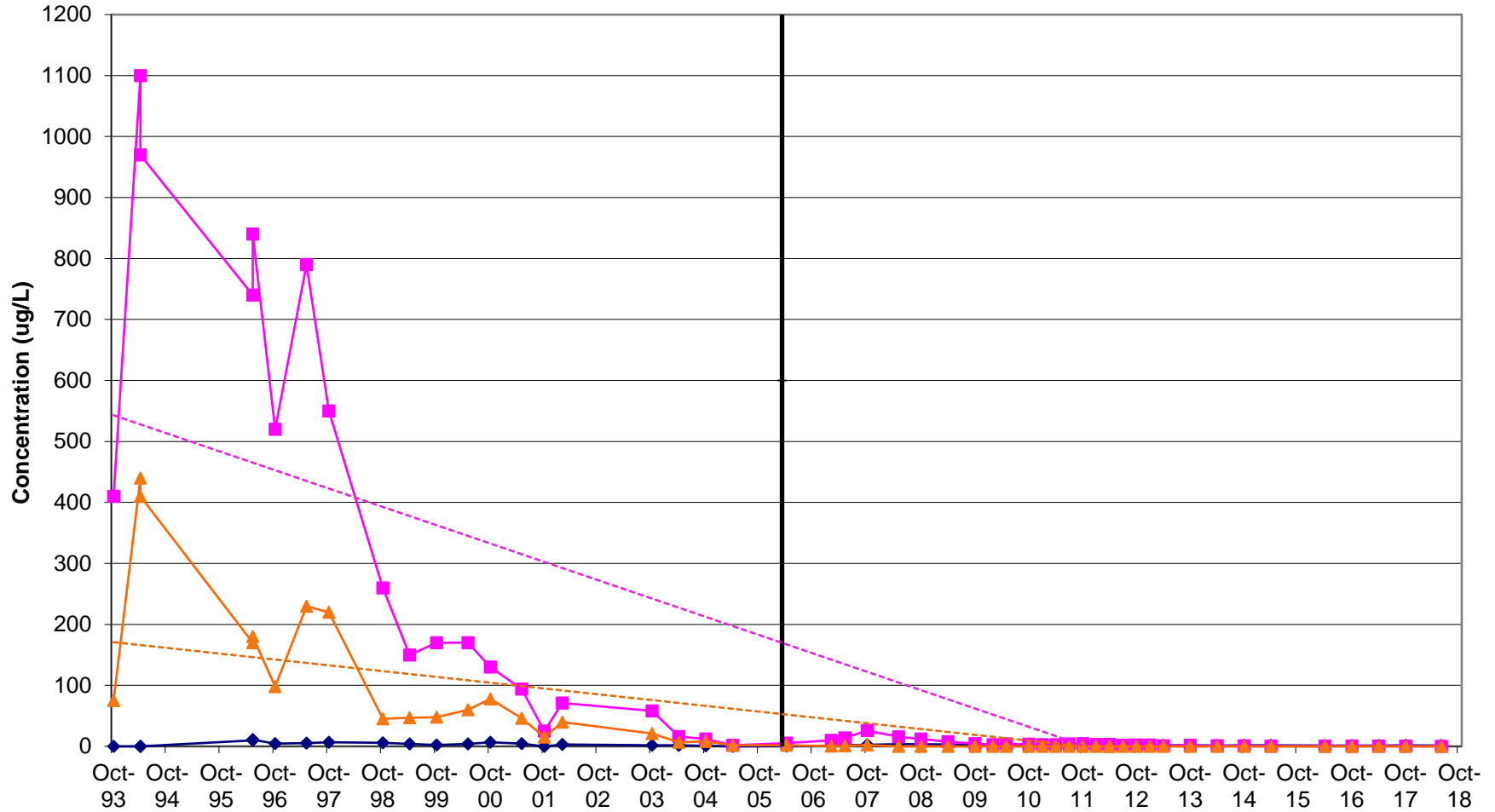
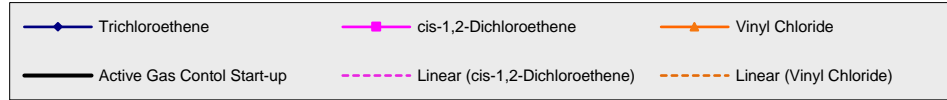
Chart 37: MW-102
Layer 1 Well

Side gradient



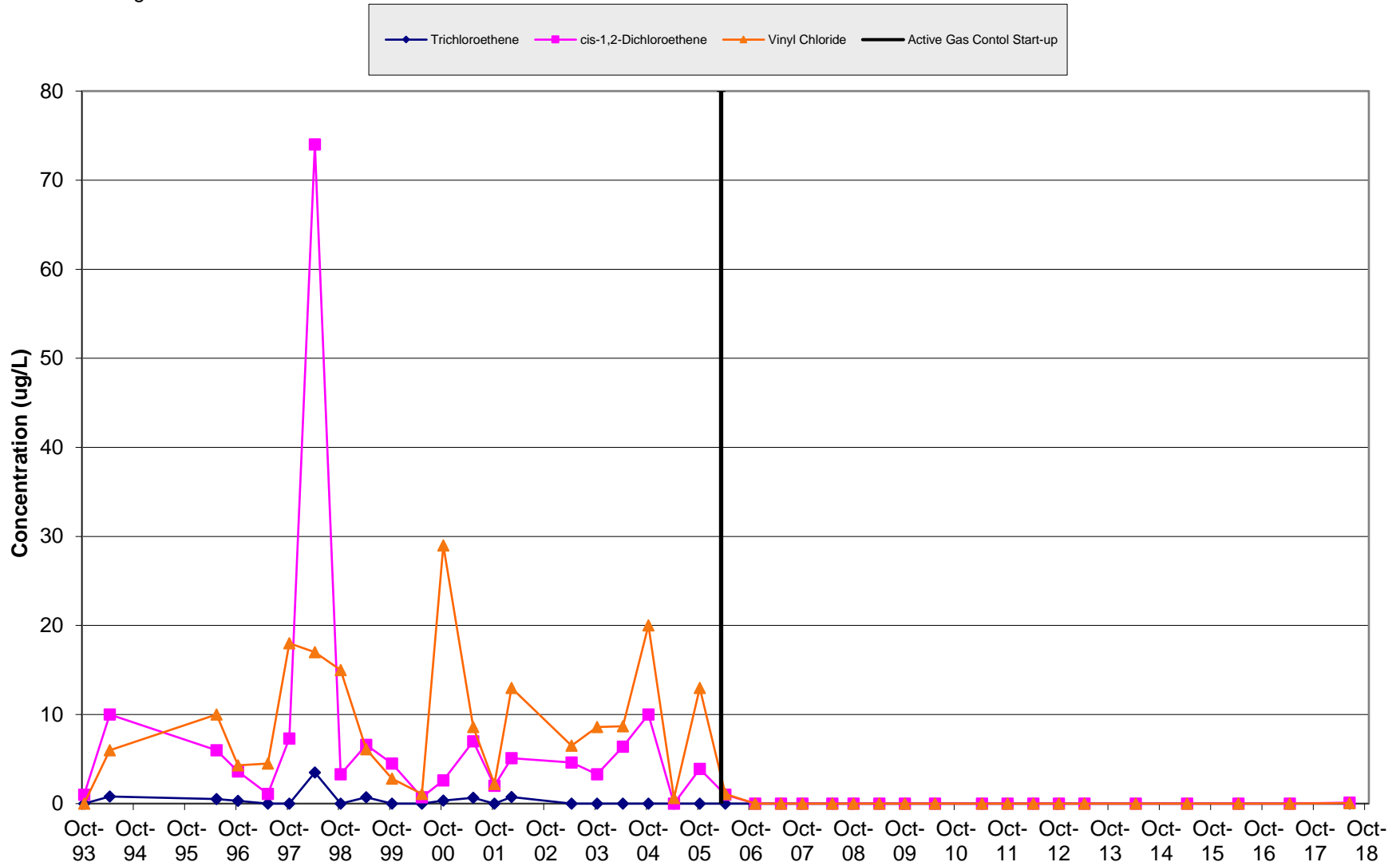
**Chart 38: MW-103
Layer 1 Well**

10' Down gradient



**Chart 39: MW-104
Layer 1 Well**

Side gradient



**Chart 40: MW-106
Layer 1 Well**

Side gradient

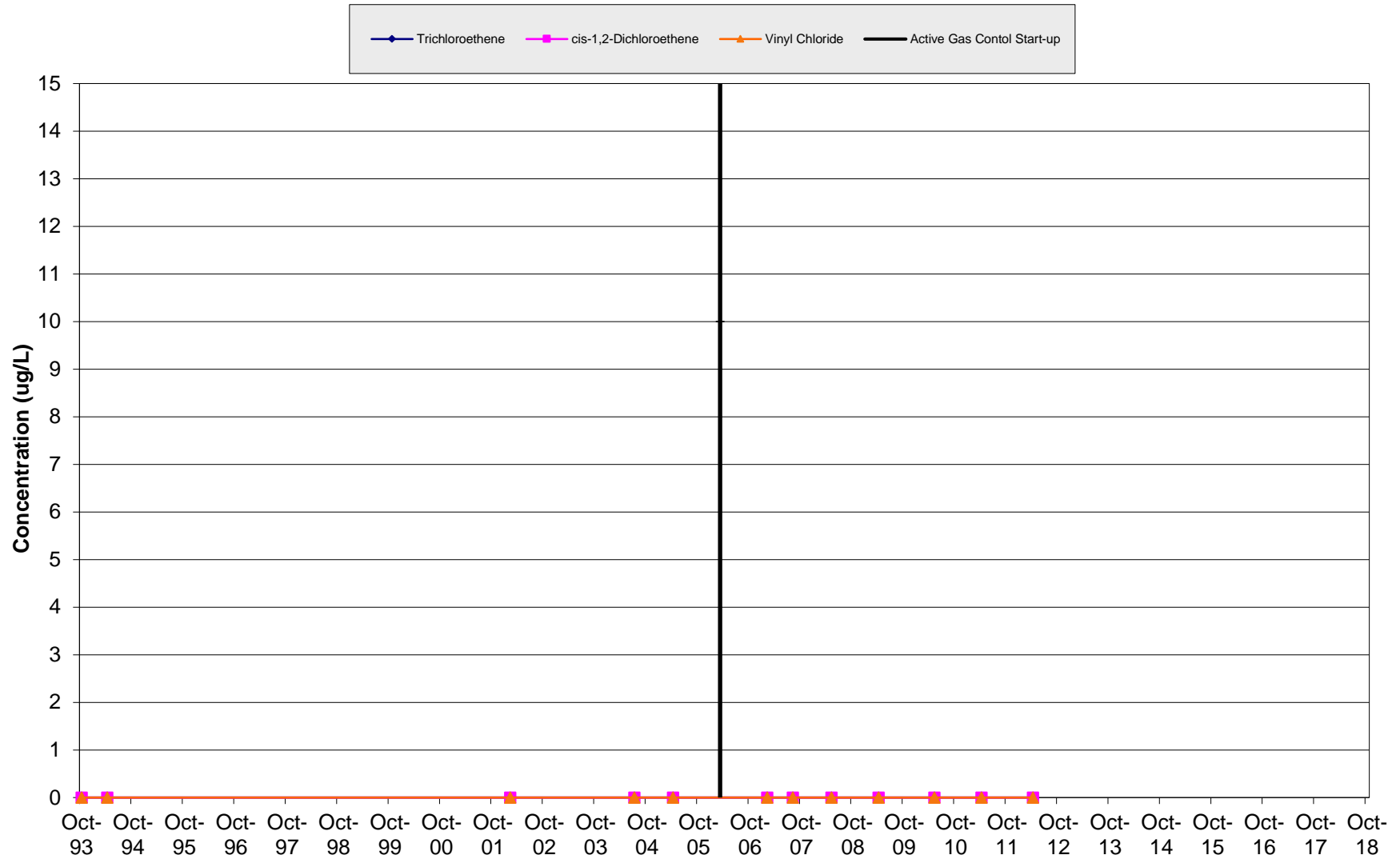


Chart 41: MW-107
Layer 1 Well

370' Down gradient

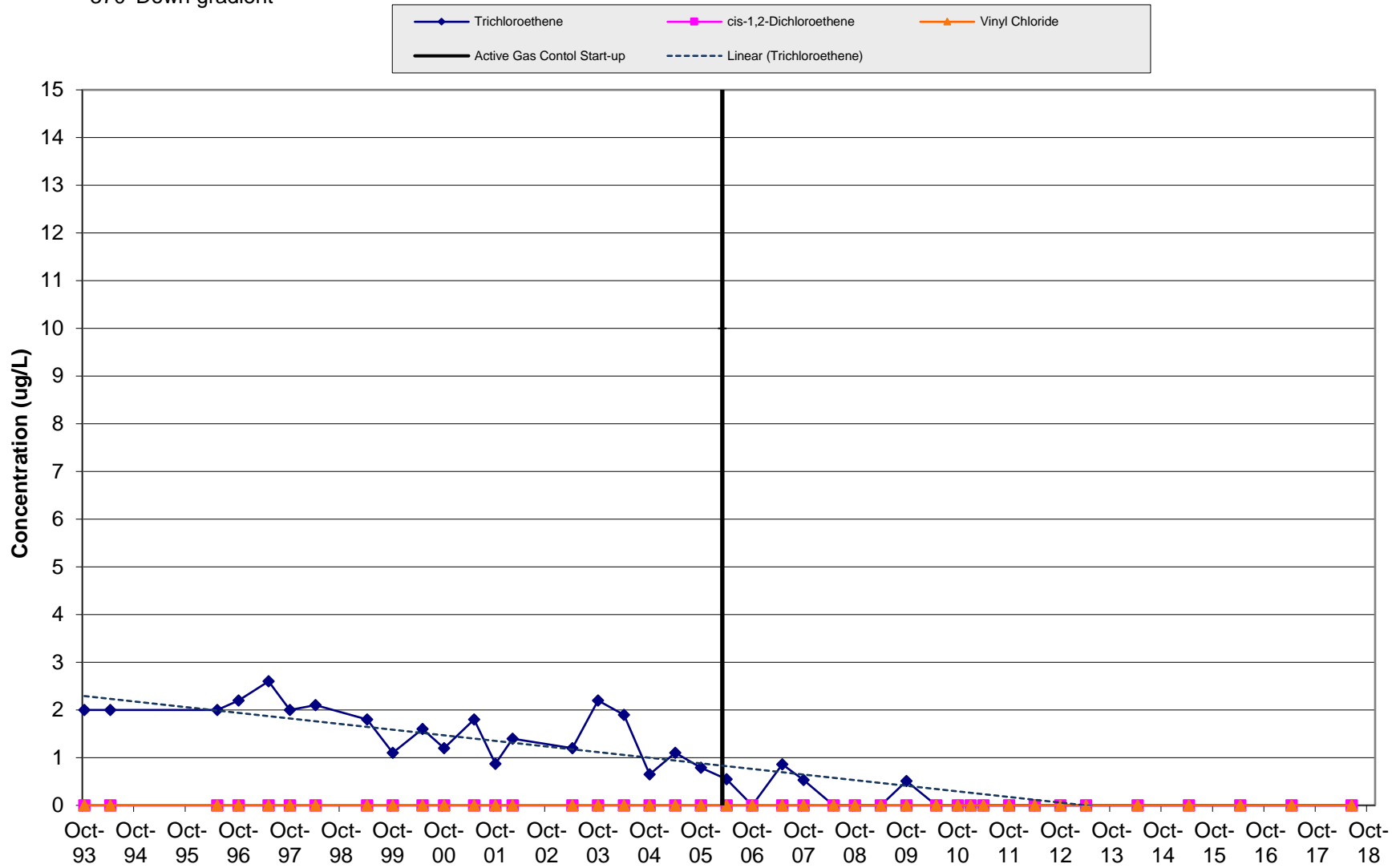
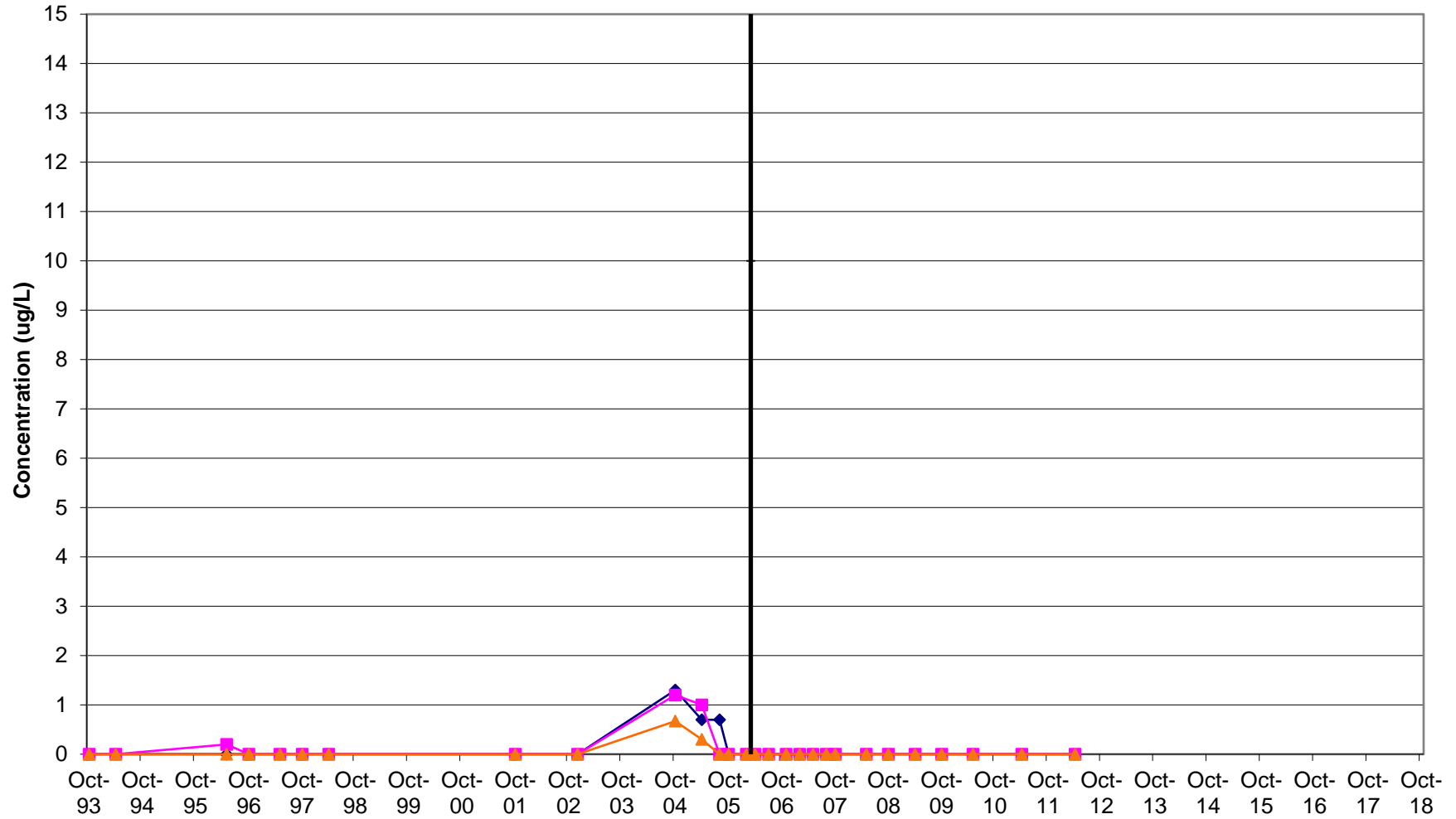


Chart 42: MW-108
Layer 1 Well

Side gradient



**Chart 43: MW-111
Layer 1 Well**

900' Down gradient

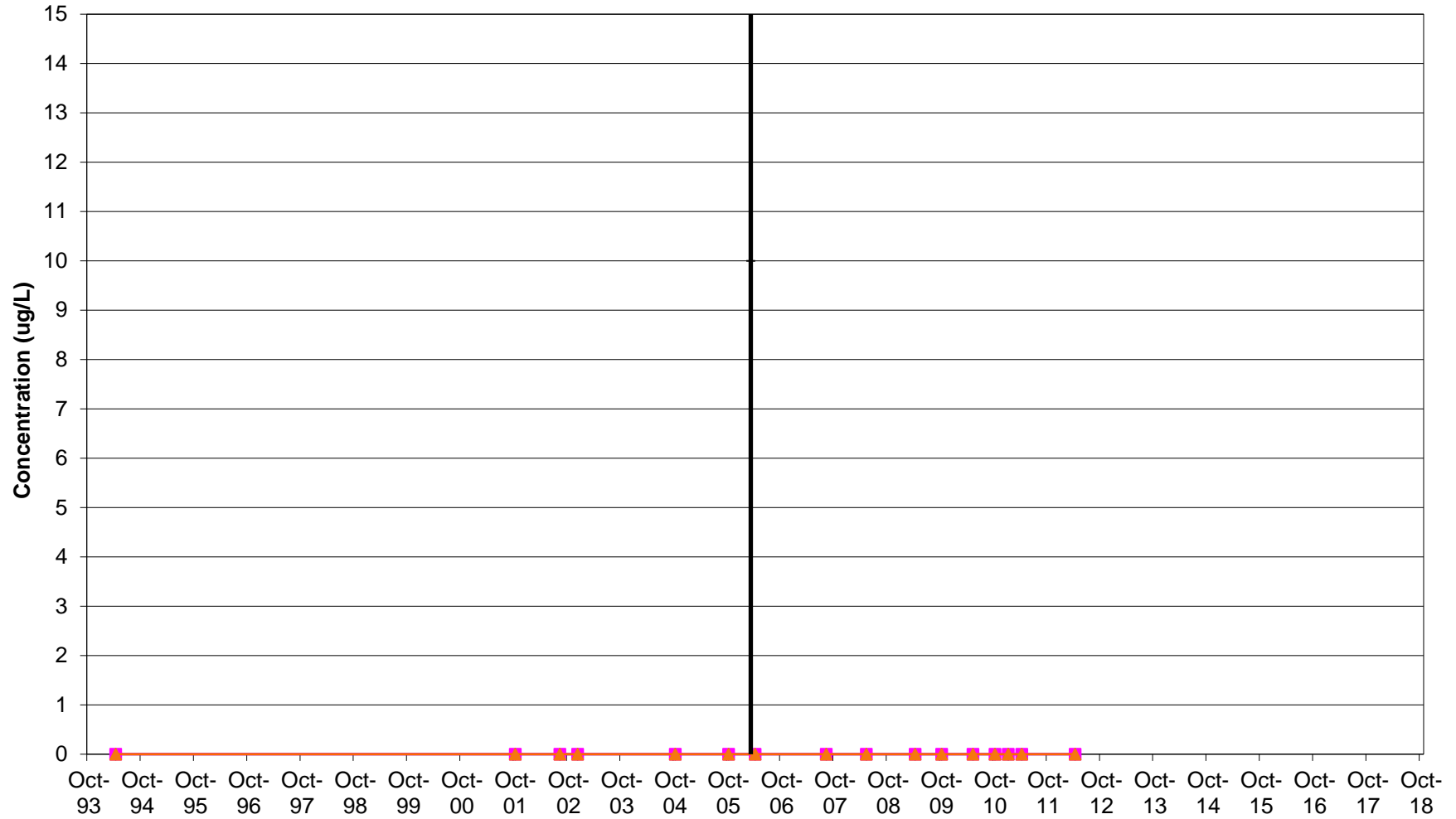


Chart 44: MW-112
Layer 1 Well

50' Down gradient

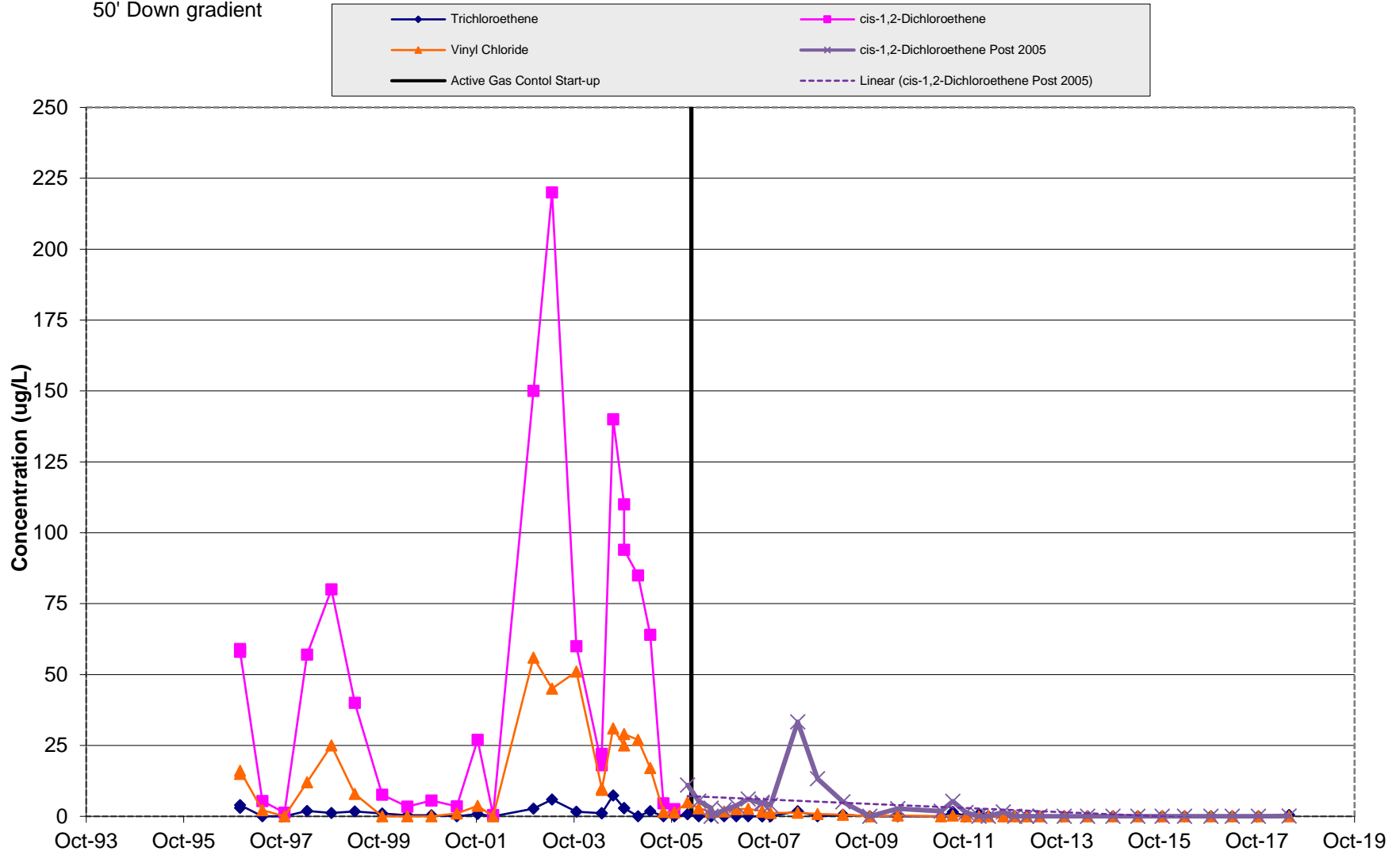


Chart 45: P-101
Layer 2 Well

Upgradient

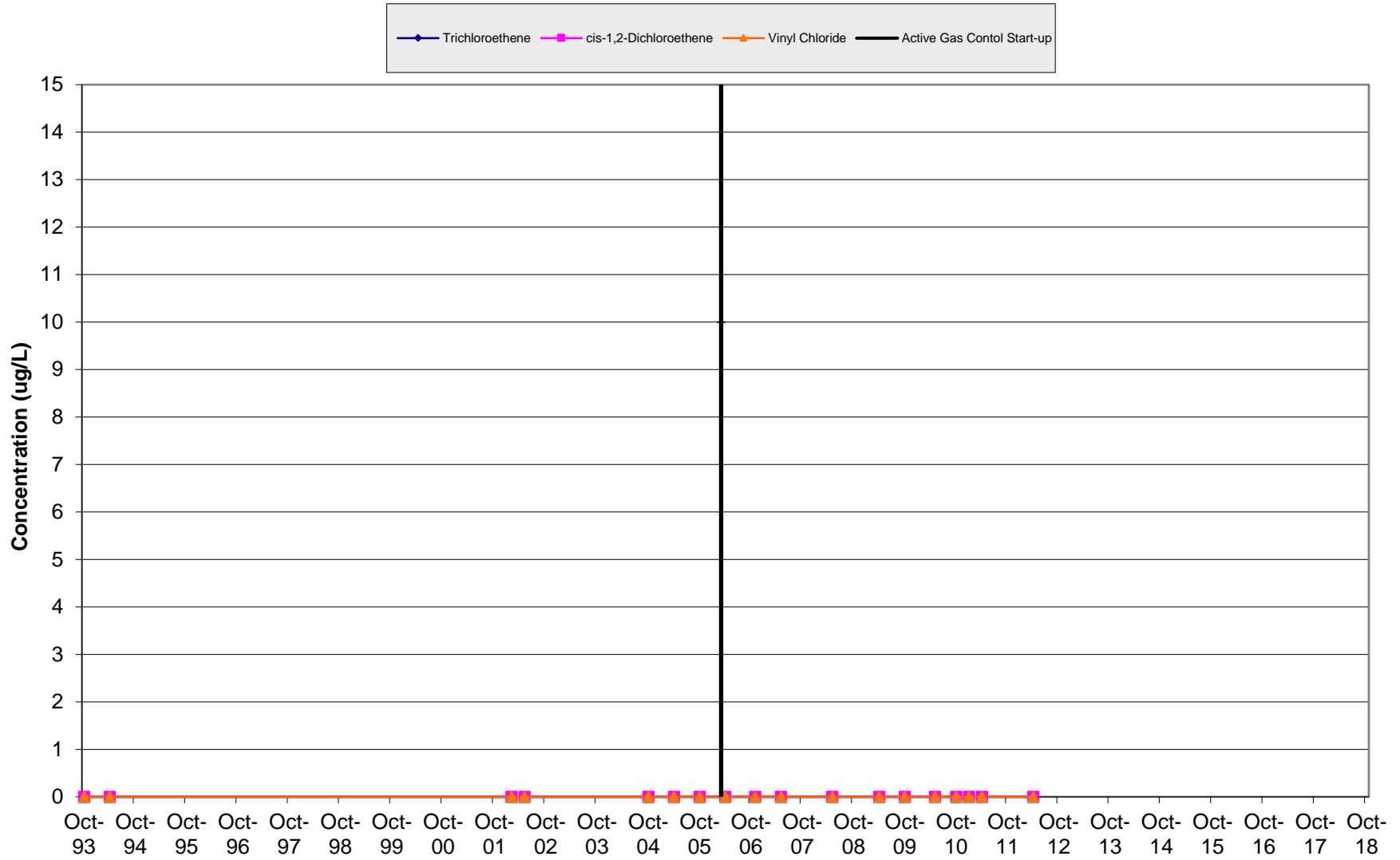


Chart 46: P-102
Layer 2 Well

Side gradient

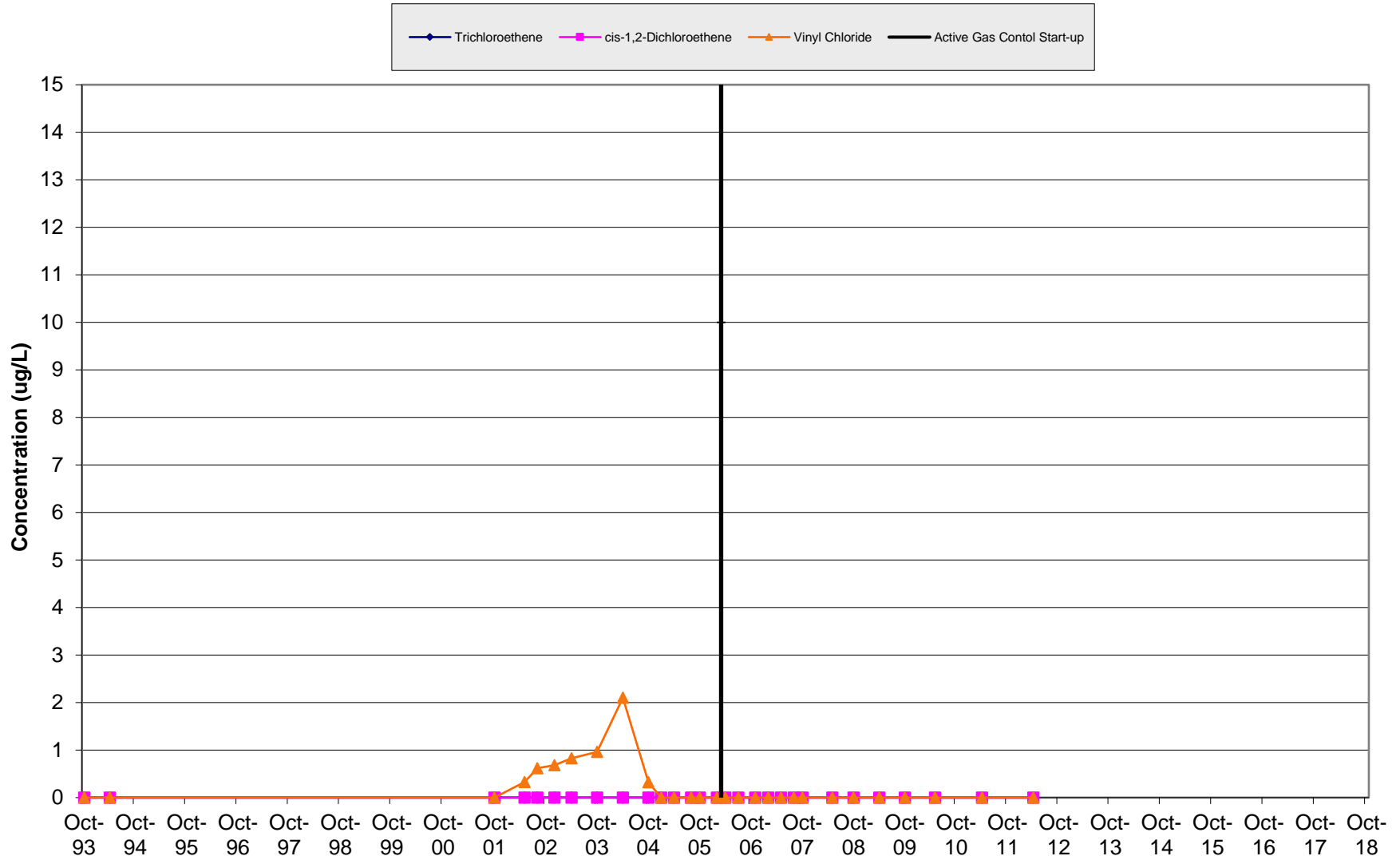


Chart 47: P-103
Layer 2 Well

10' Down gradient

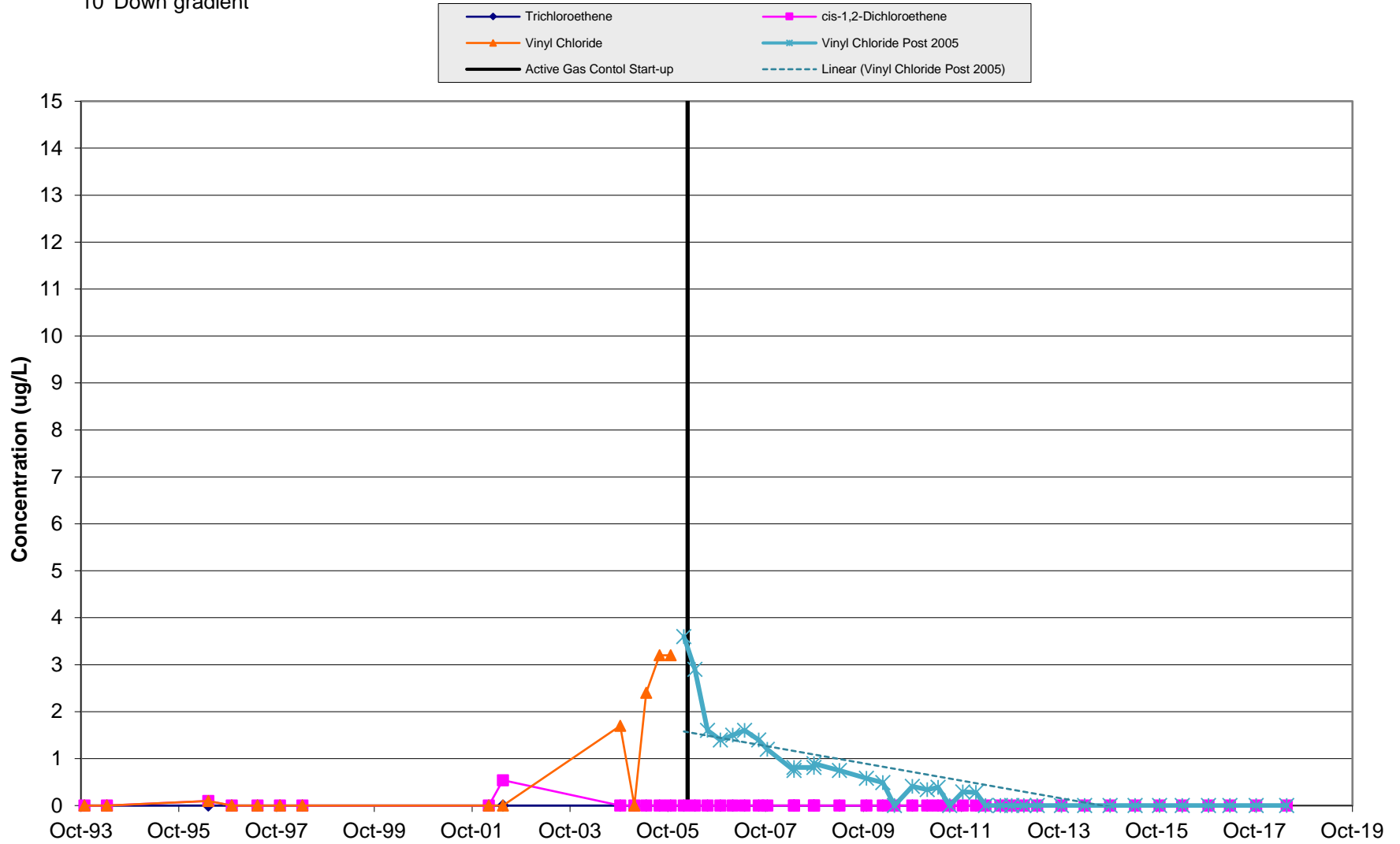
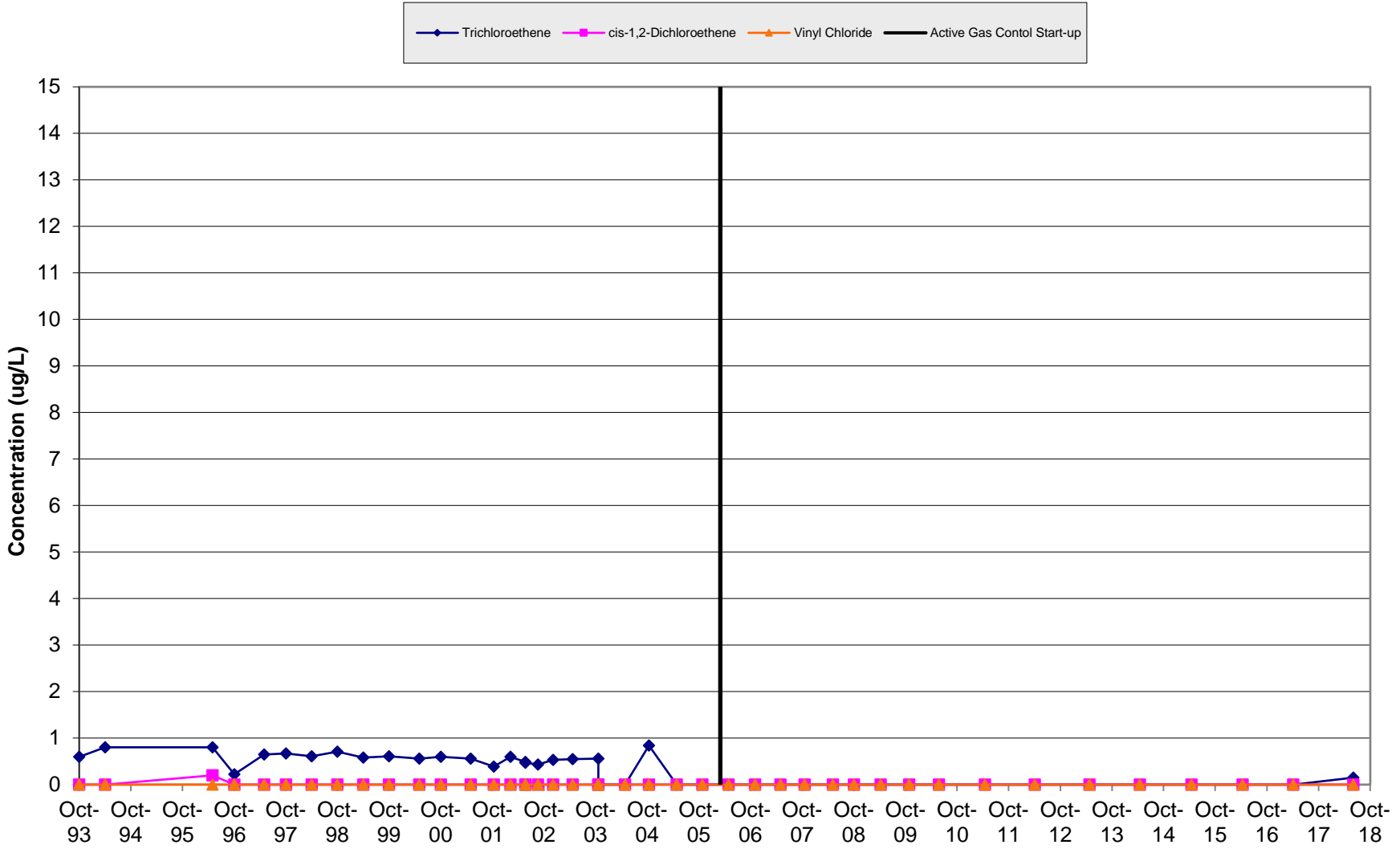


Chart 49: P-106
Layer 2 Well

Side gradient



**Chart 48: P-104
Layer 2 Well**

Side gradient

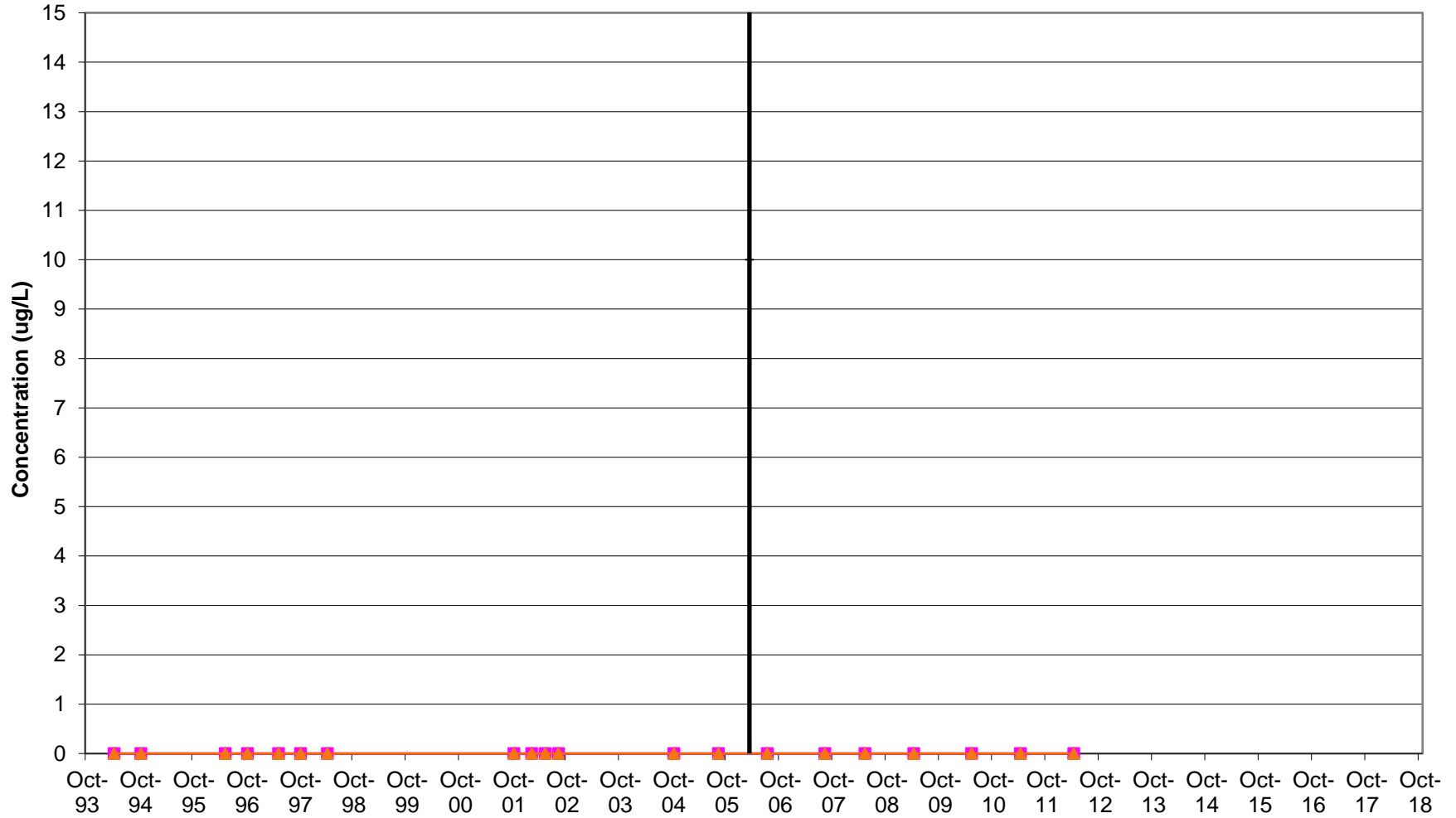


Chart 50: P-107
Layer 2 Well

370' Down gradient

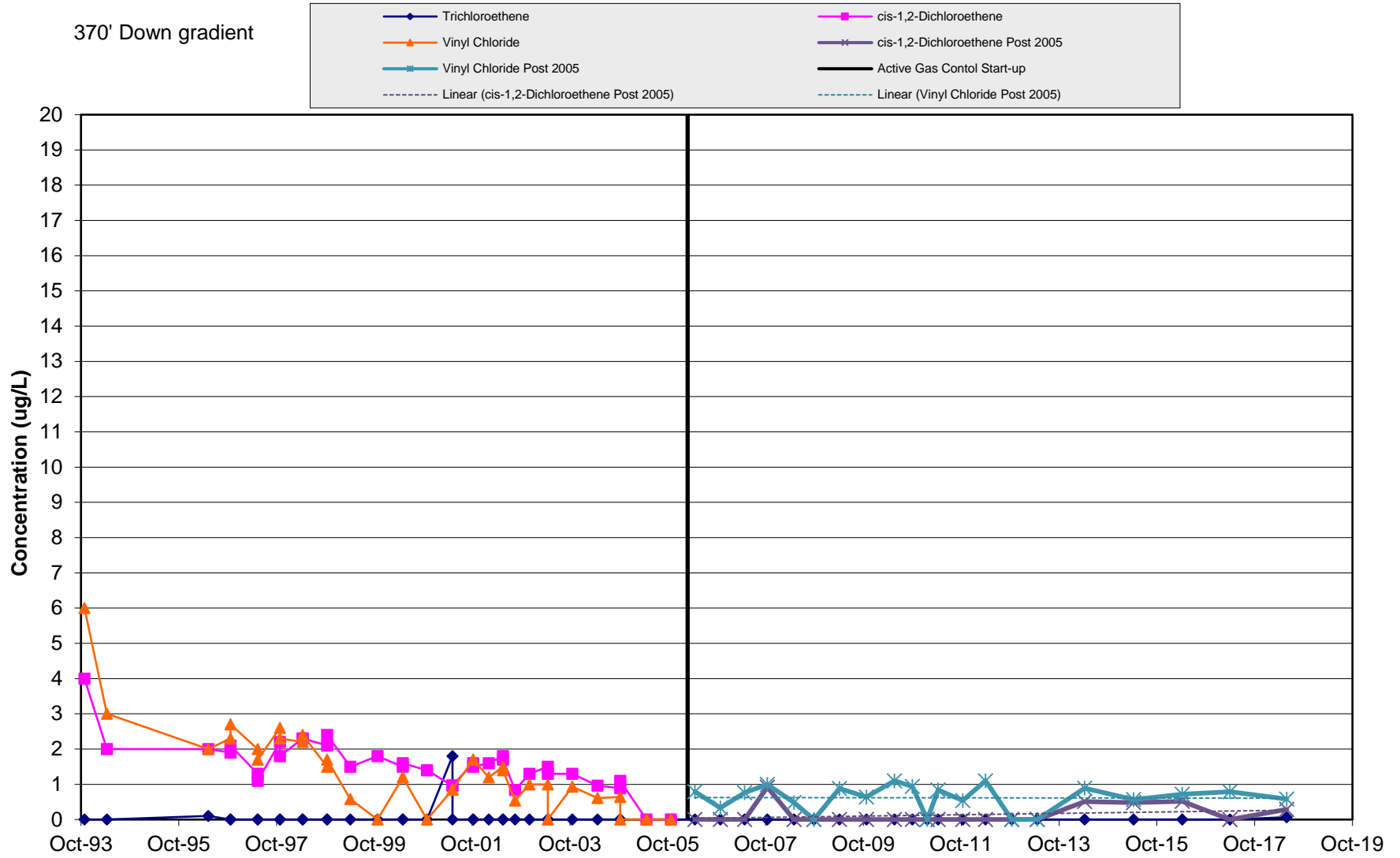


Chart 51: P-108
Layer 2 Well

Side gradient

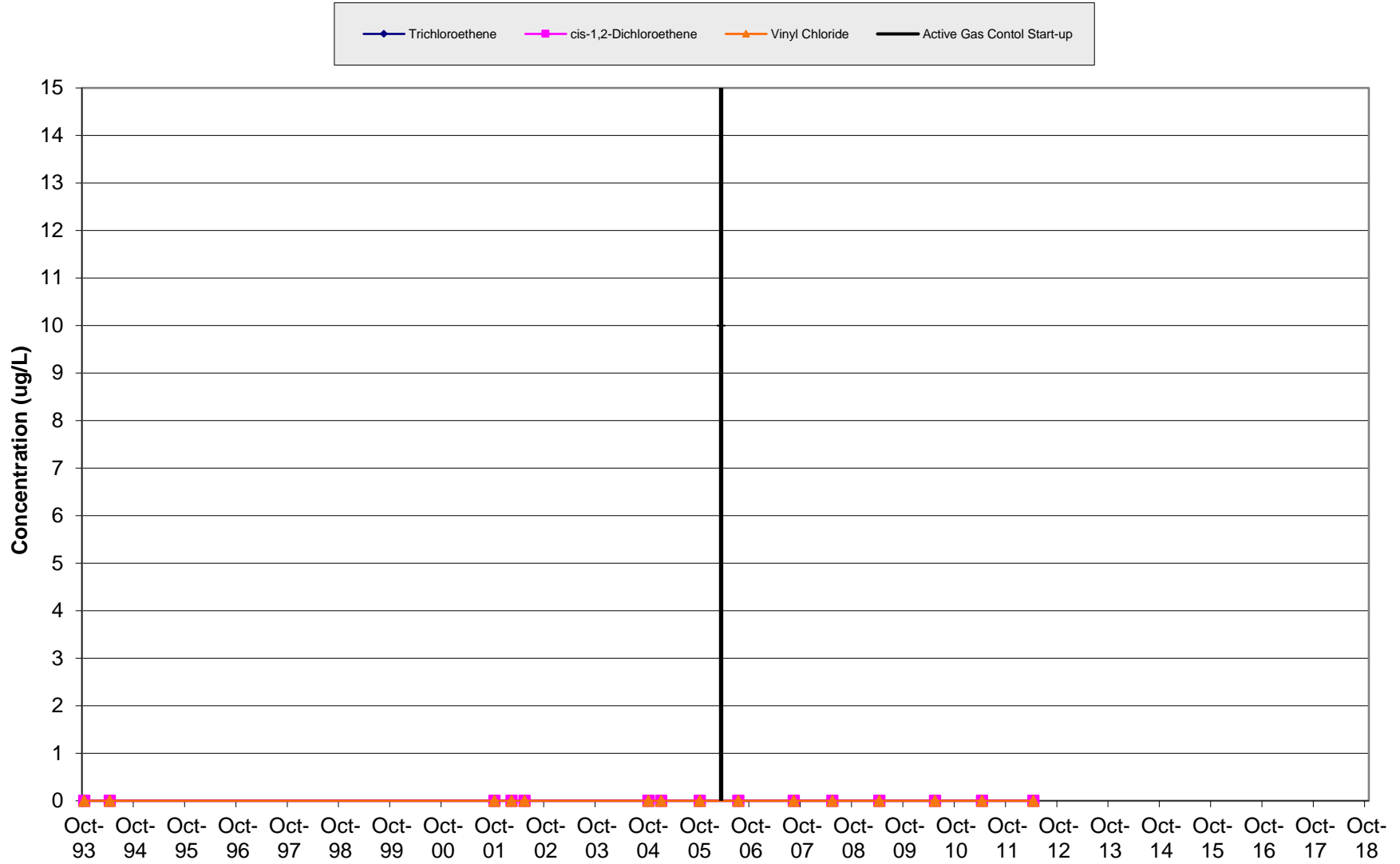


Chart 52: P-111
Layer 2 Well

900' Down gradient

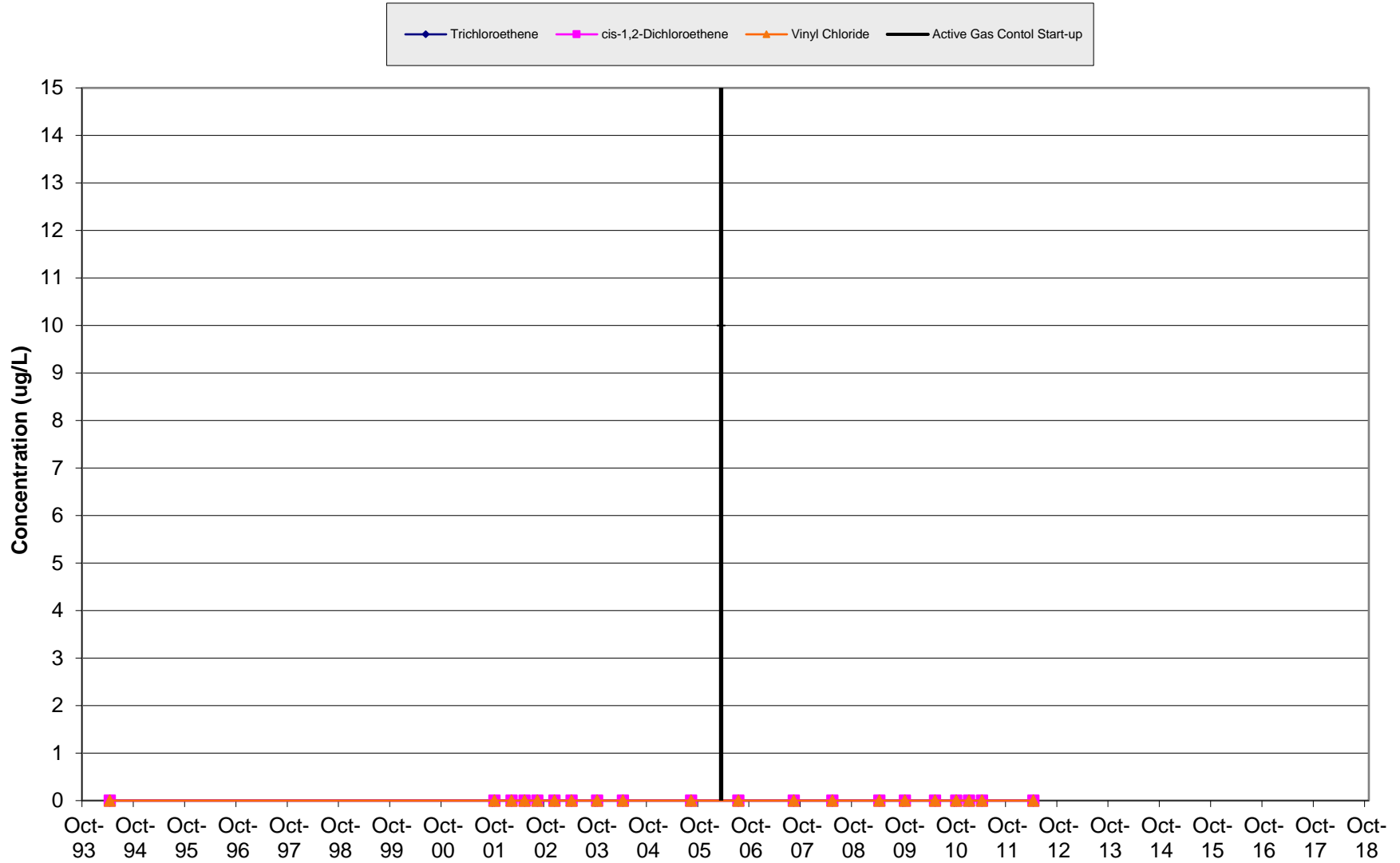


Chart 53: P-103D
Layer 3 Well

10' Down gradient

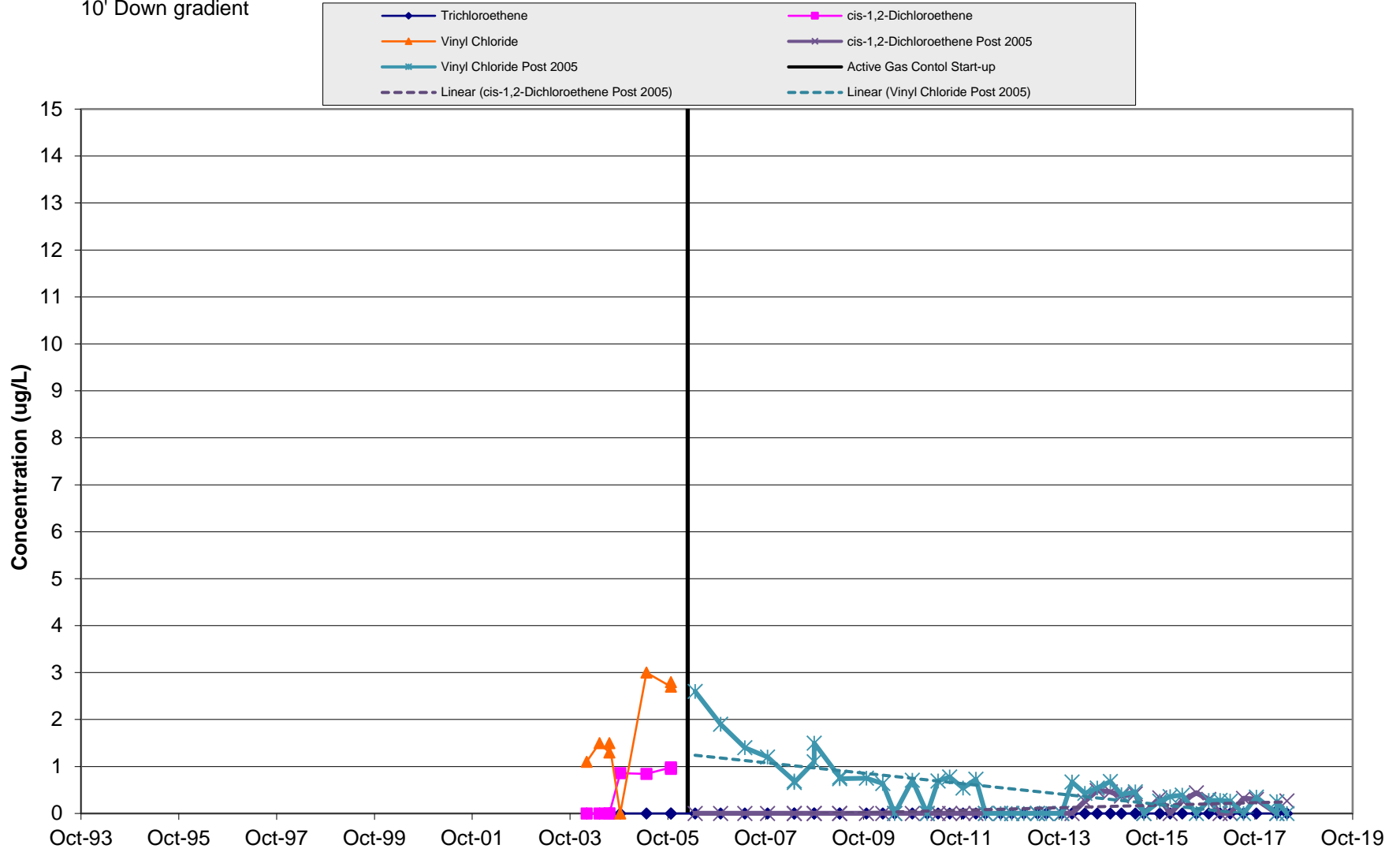


Chart 54: P-111D
Layer 3 Well

900' Down gradient

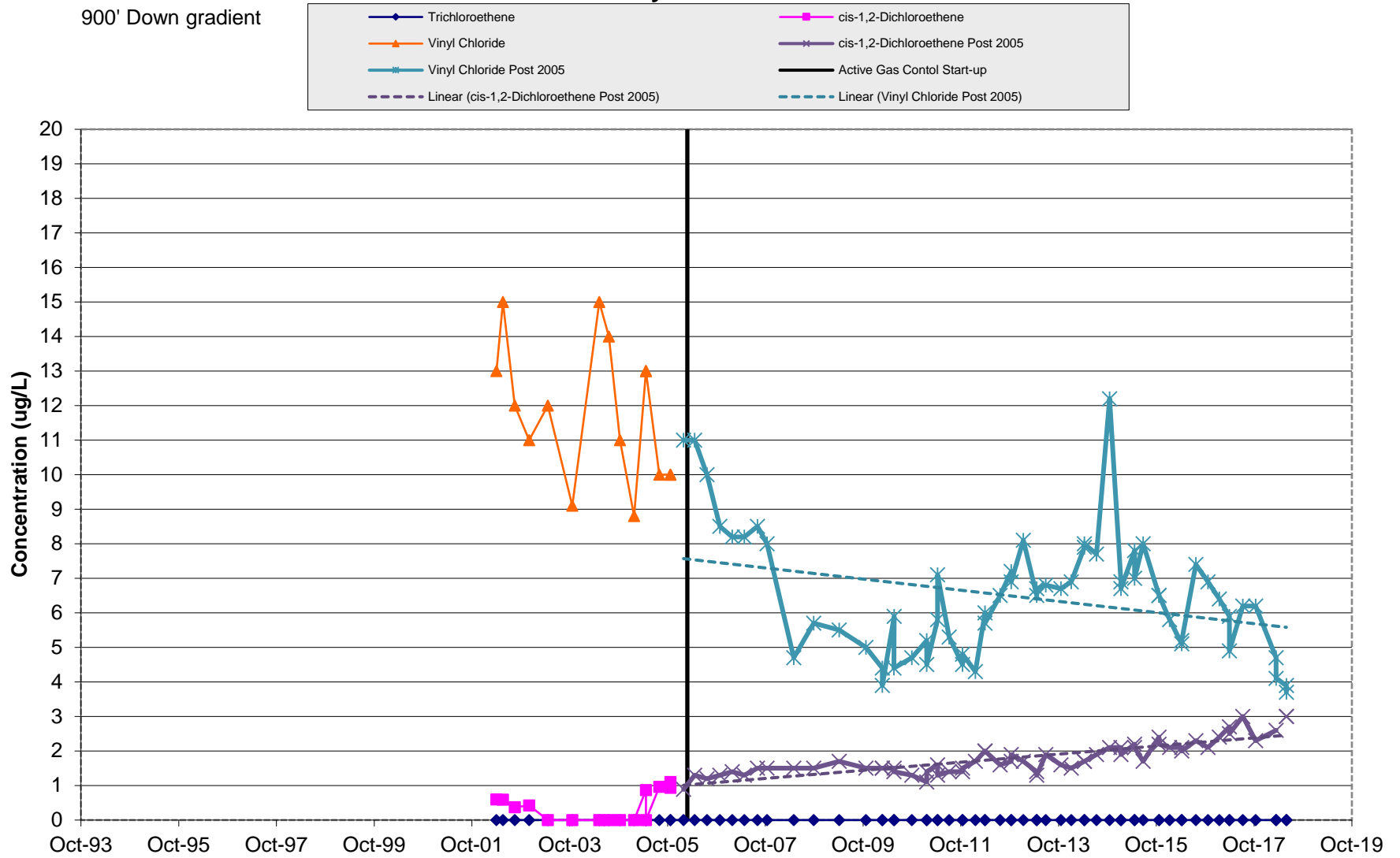


Chart 55: MW-3B
Layer 3 Well

1270' Side gradient

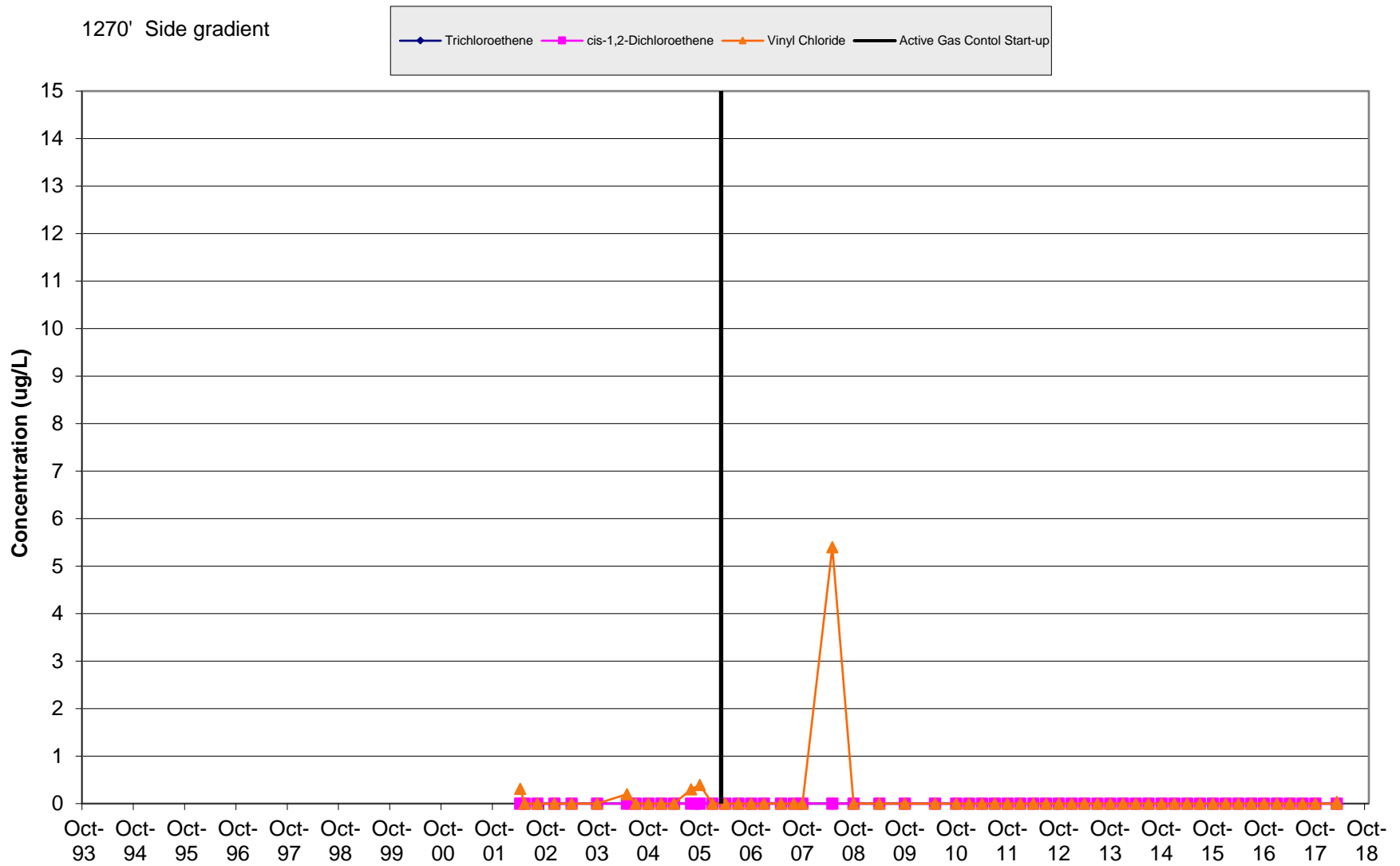


Chart 56: P-113B
Layer 3 Well

2250' Down gradient

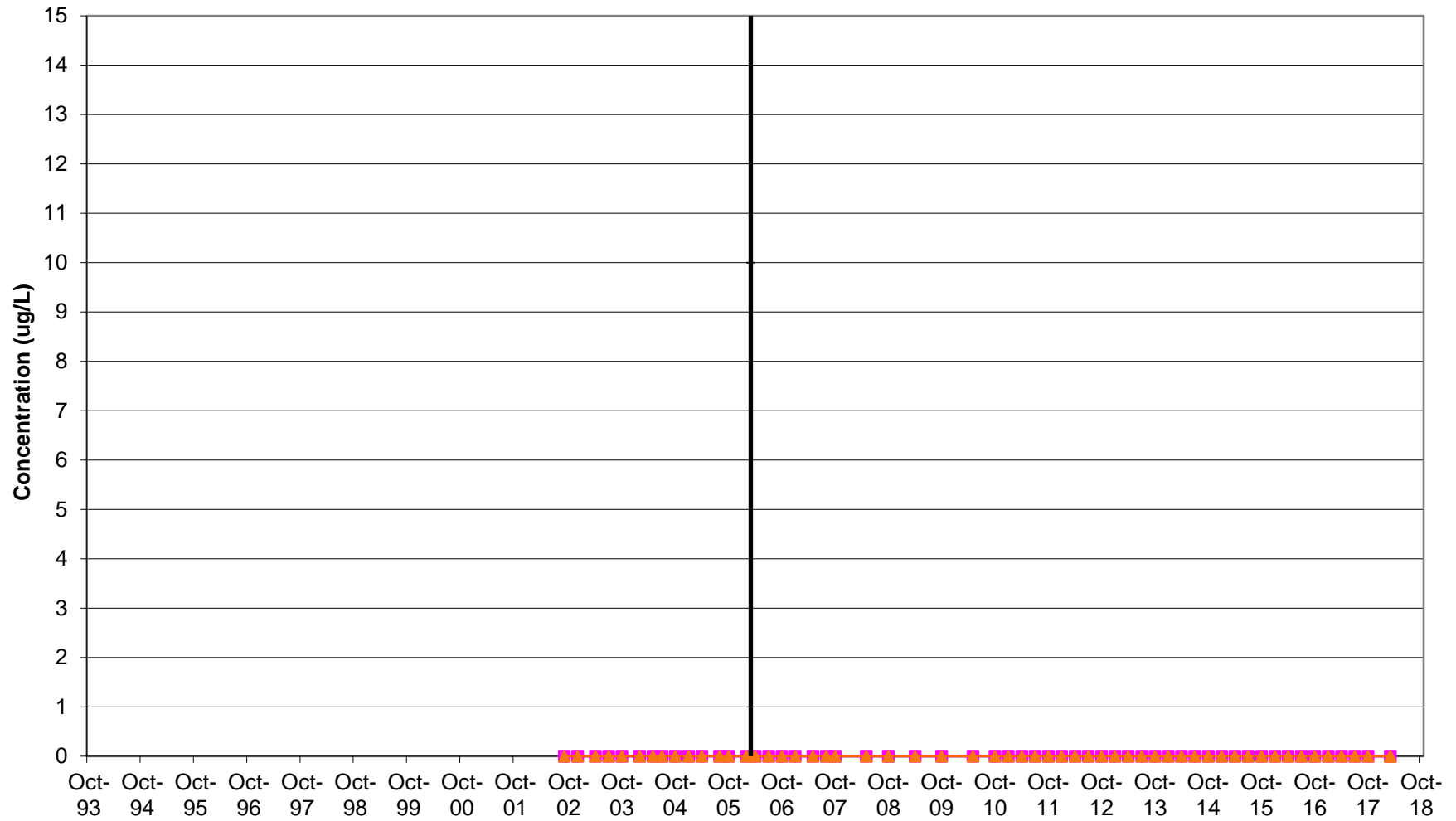


Chart 57: P-114
Layer 3 Well

1550' Down gradient

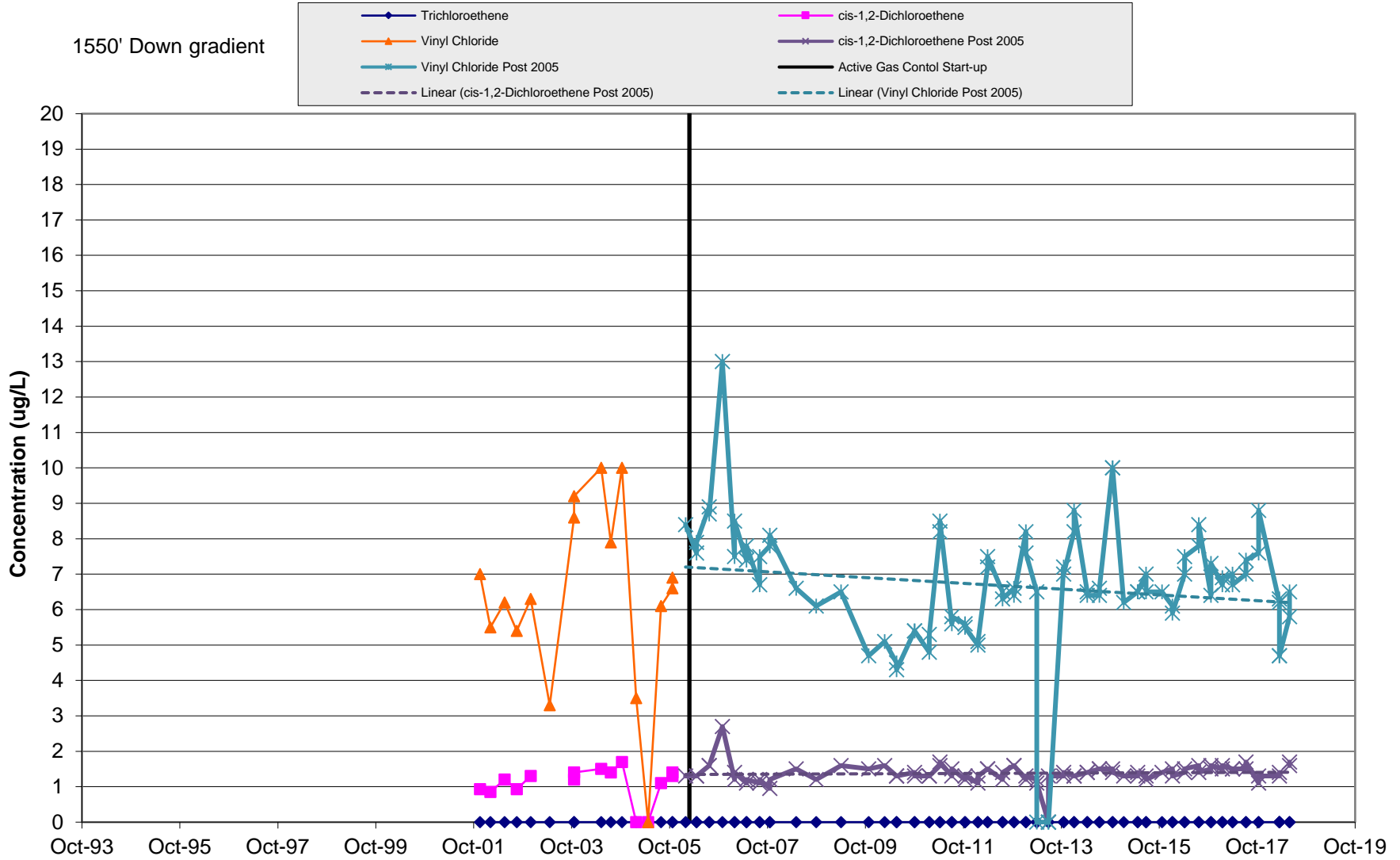


Chart 58: P-115
Layer 3 Well

1600' Down gradient

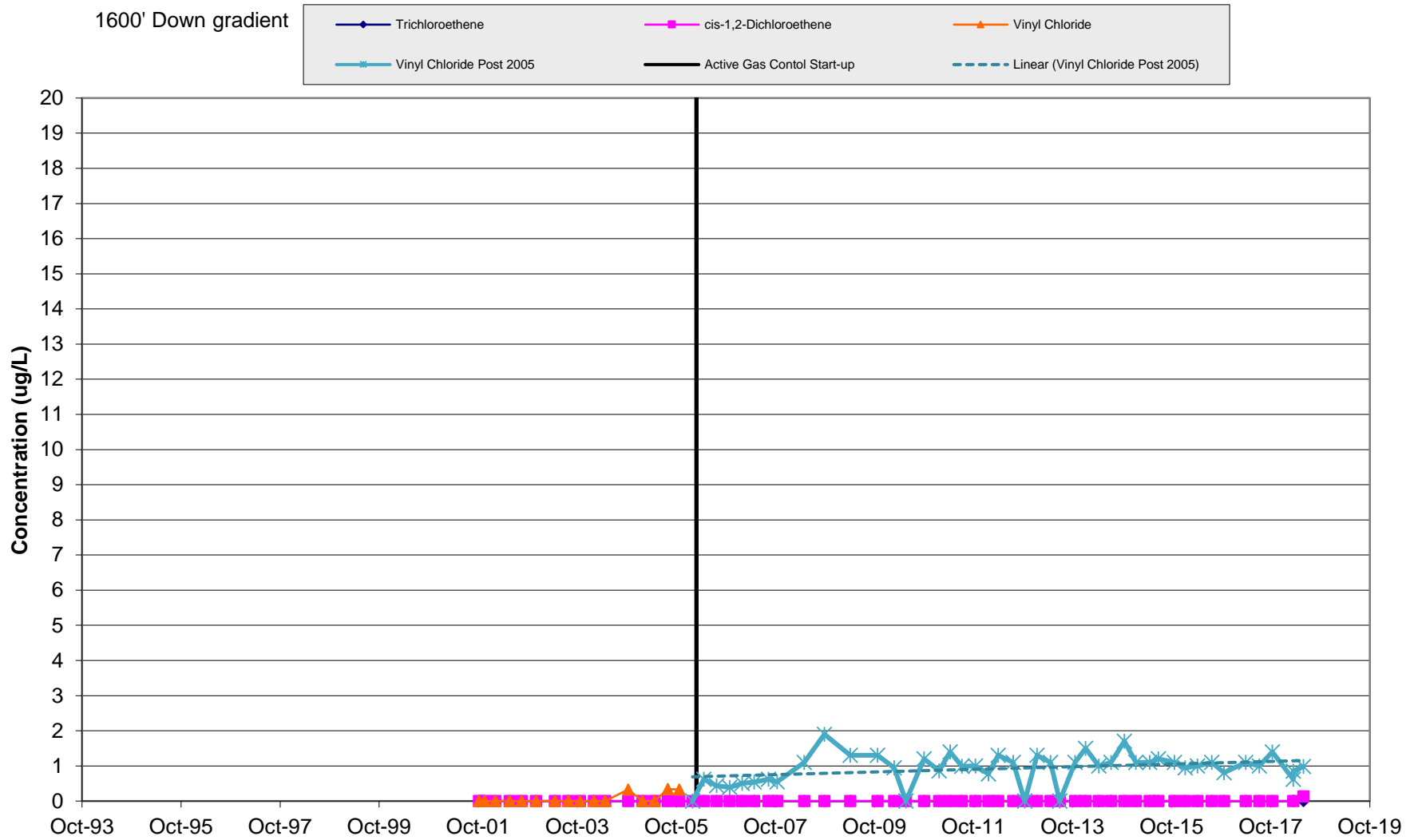


Chart 59: P-116
Layer 3 Well

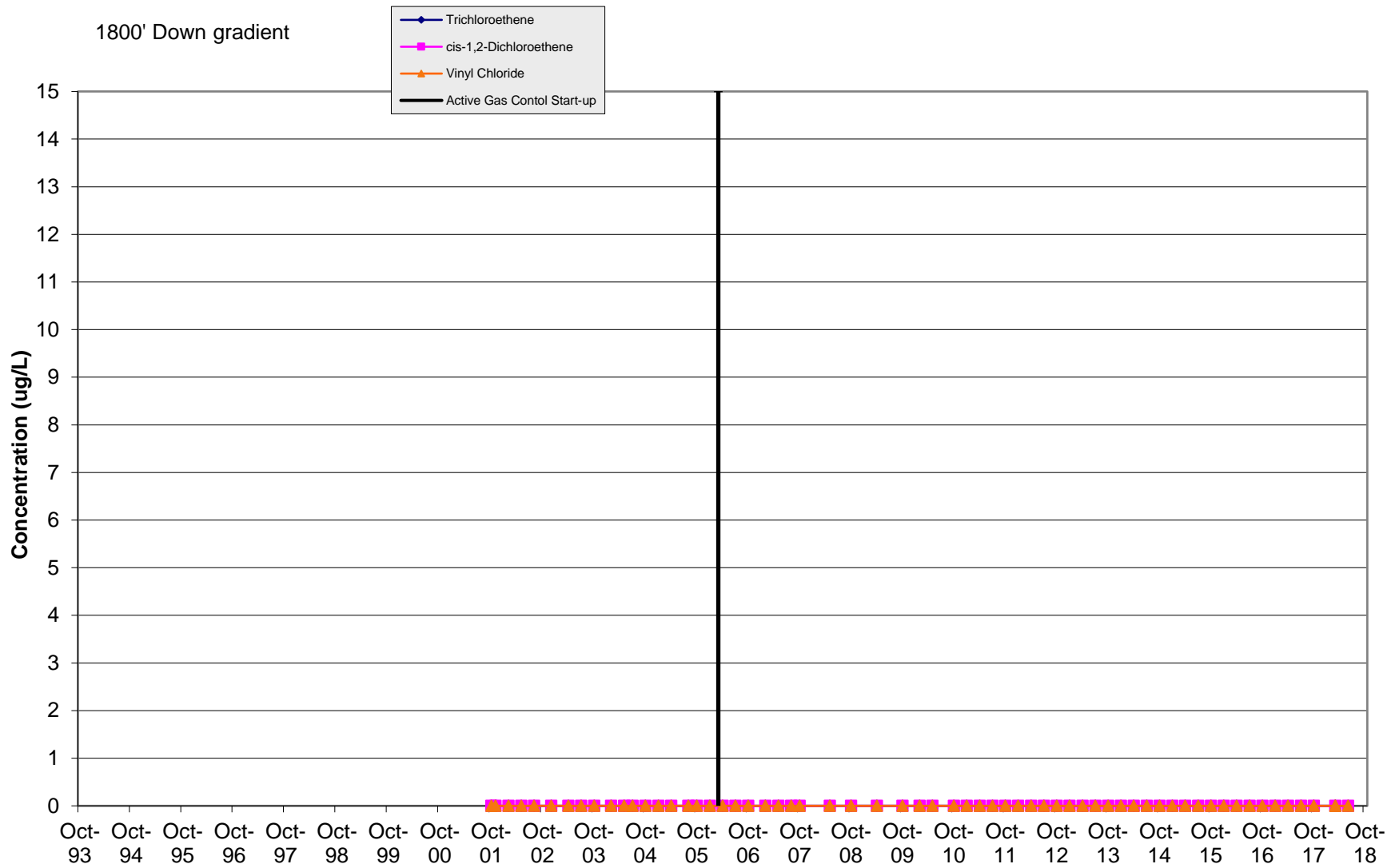


Chart 60: P-117
Layer 3 Well

1975' Downgradient

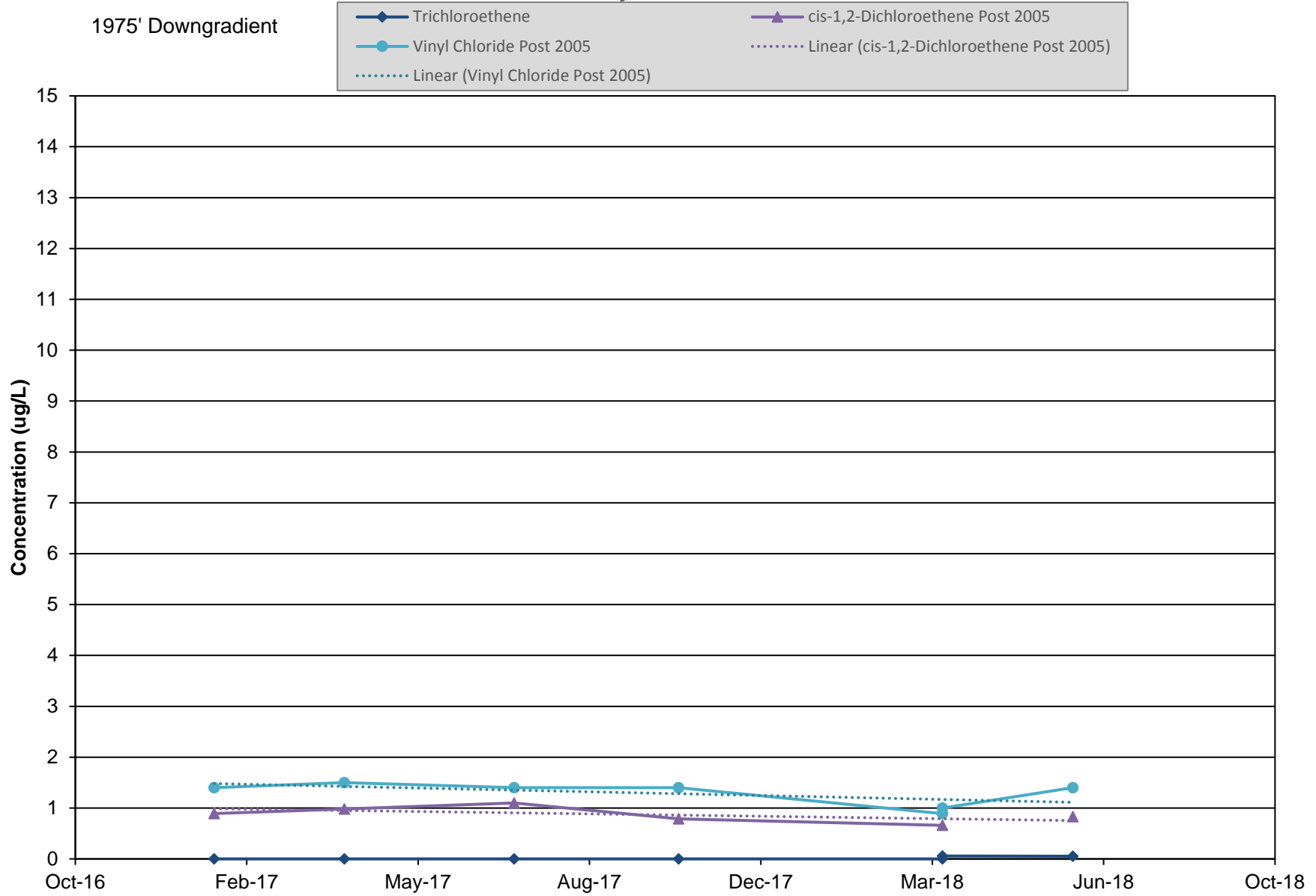


Chart 61: P-118
Layer 3 Well

2875' Downgradient

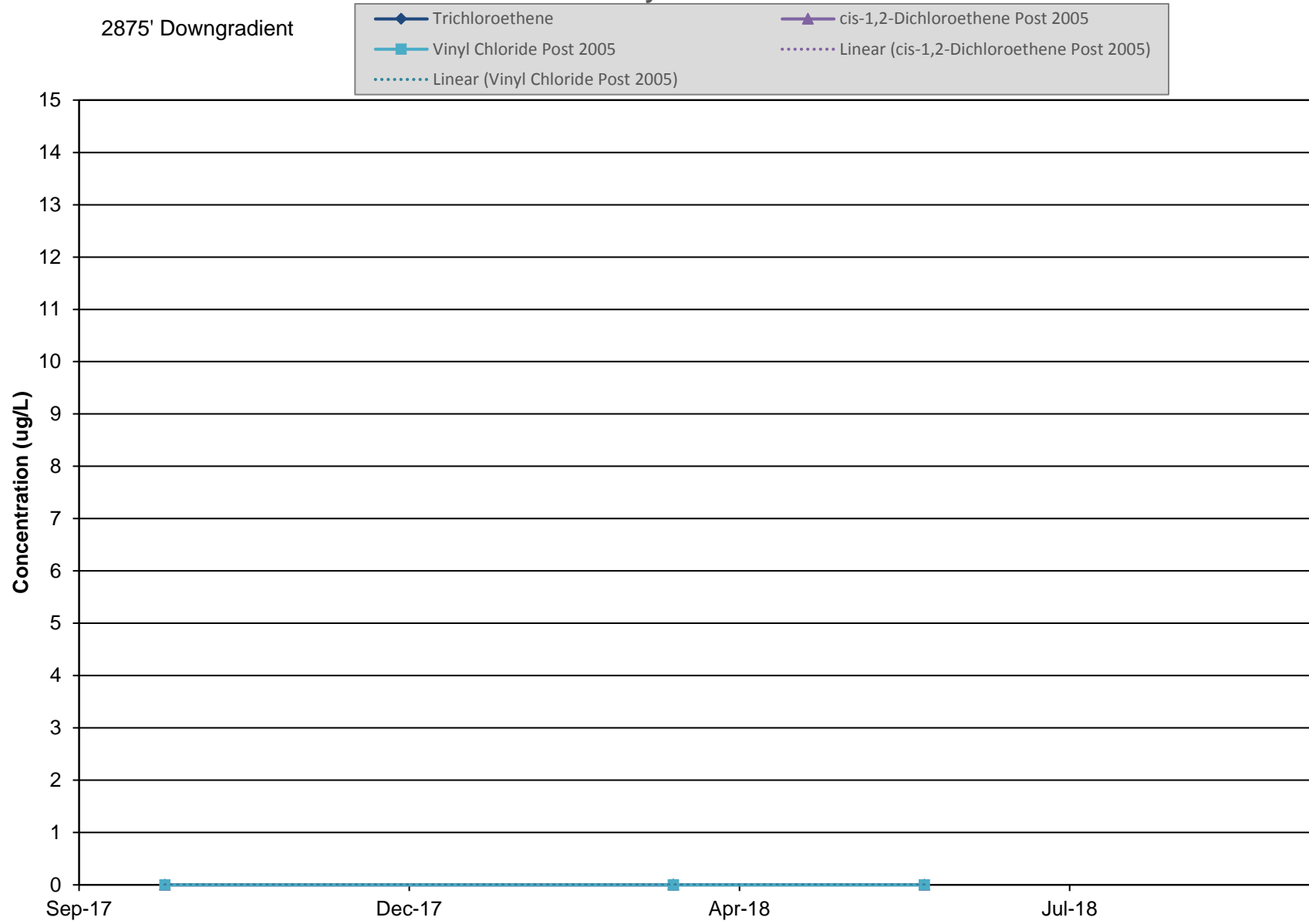


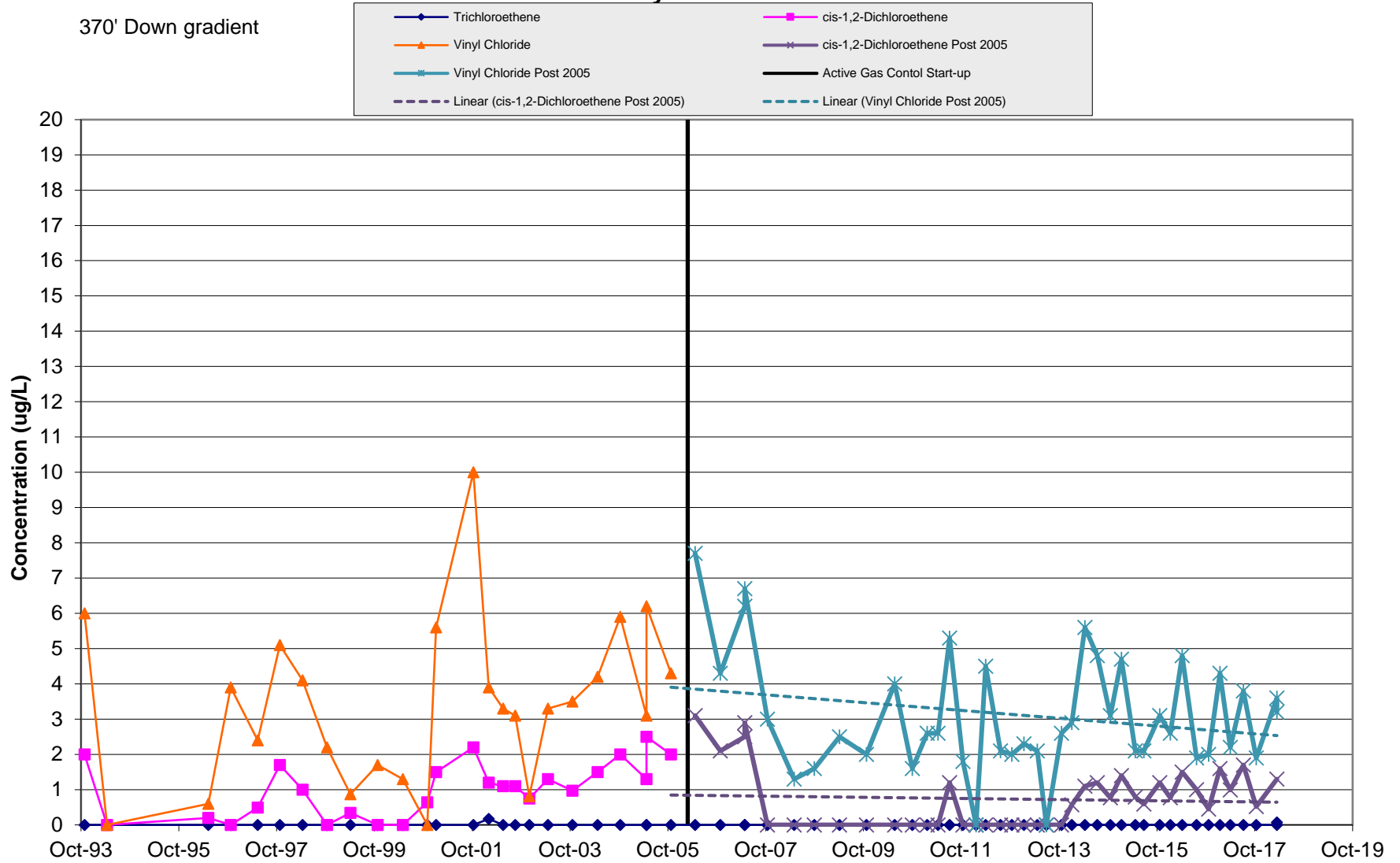
Chart 62: MW-3A
Layer 4 Well

1270' Side gradient



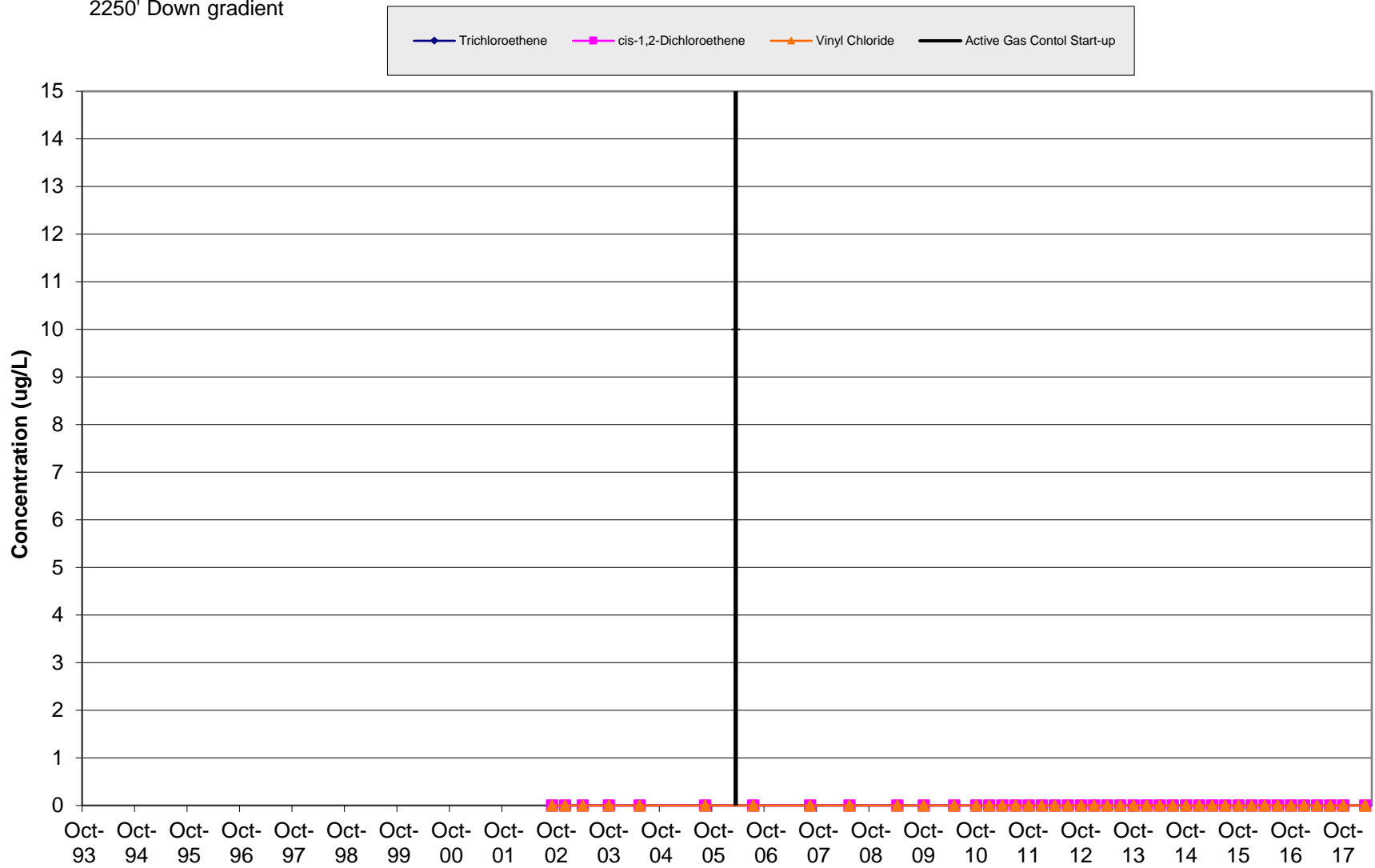
**Chart 63: P-107D
Layer 4 Well**

370' Down gradient



**Chart 64: P-113A
Layer 4 Well**

2250' Down gradient



ATTACHMENTS

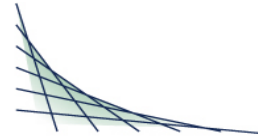
ATTACHMENT A
STRATIGRAPHIC GROUPING TABLE

**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
	P-117	673.7	sandstone
	P-118	665.5	dolomite
Layer 4 wells	MW-3A	570.0	sandstone
	P-107D	544.0	granite
	P-113A	507.8	sandstone

p:\ripon landfill\Stratigraphic groupings table.xls, Layers

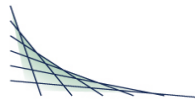
ATTACHMENT B
LABORATORY ANALYTICAL RESULTS



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)



ANALYTICAL REPORT

TETRA TECH
 ASHLEY WAGNER
 175 N. CORPORATE DR.
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: RIPON FF/NN LANDFILL
 Project Phase: RIPON, WI
 Contract #: 3183
 Project #: 117-2202061.01
 Folder #: 136797
 Purchase Order #:

Page 1 of 88
 Arrival Temperature: 2.2
 Report Date: 06/20/2018
 Date Received: 06/07/2018
 Reprint Date: 06/29/2018

CT LAB Sample#: 131161	Sample Description: P-103D	License/Well #: 467/141	Sampled: 06/04/2018 1025
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-31	mg/L	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	49.65	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.439	MV	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Conductivity (Field)	600	umhos/cm	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	823.43	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
pH (Field)	7.38	S.U.	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Temperature (Field)	10.67	Deg. C	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	06/10/2018 10:01	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 10:01	06/10/2018 10:01	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/10/2018 10:01	06/10/2018 10:01	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/10/2018 10:01	06/10/2018 10:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131161 Sample Description: P-103D

License/Well #: 467/141

Sampled: 06/04/2018 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 10:01	10:01	RLD	EPA 8260C
Benzene	0.025	ug/L	0.018 *	0.059	1		06/10/2018 10:01	10:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131161 Sample Description: P-103D

License/Well #: 467/141

Sampled: 06/04/2018 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	10:01	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018	10:01	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018	10:01	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018	10:01	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018	10:01	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018	10:01	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018	10:01	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	10:01	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/10/2018	10:01	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018	10:01	RLD	EPA 8260C
Chloromethane	0.041	ug/L	0.040 *	0.13	1	B	06/10/2018	10:01	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.27	ug/L	0.070	0.23	1		06/10/2018	10:01	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018	10:01	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018	10:01	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018	10:01	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018	10:01	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018	10:01	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	10:01	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018	10:01	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	10:01	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018	10:01	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018	10:01	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	10:01	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	10:01	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	10:01	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131161 Sample Description: P-103D License/Well #: 467/141 Sampled: 06/04/2018 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/10/2018 10:01	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:01	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:01	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:01	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:01	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:01	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/10/2018 10:01	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/10/2018 10:01	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:01	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:01	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 10:01	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 10:01	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1	M		06/10/2018 10:01	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 10:01	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 10:01	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:01	RLD	EPA 8260C

CT LAB Sample#: 131171 Sample Description: P-103 License/Well #: 467/114 Sampled: 06/04/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	96	mg/L	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	48.92	Feet	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.501	MV	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131171 Sample Description: P-103

License/Well #: 467/114 Sampled: 06/04/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Color (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Conductivity (Field)	4540	umhos/cm	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.00	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
pH (Field)	7.08	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	16.76	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 10:30	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 10:30	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:30	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 10:30	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 10:30	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 10:30	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:30	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:30	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:30	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 10:30	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:30	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 10:30	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:30	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131171 Sample Description: P-103

License/Well #: 467/114 Sampled: 06/04/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 10:30	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 10:30	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 10:30	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:30	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 10:30	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:30	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 10:30	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 10:30	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 10:30	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 10:30	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 10:30	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 10:30	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:30	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 10:30	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 10:30	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 10:30	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 10:30	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:30	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:30	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:30	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:30	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 10:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131171 Sample Description: P-103

License/Well #: 467/114 Sampled: 06/04/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018 10:30	06/10/2018 10:30	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131171 Sample Description: P-103 License/Well #: 467/114 Sampled: 06/04/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 10:30	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 10:30	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:30	RLD	EPA 8260C

CT LAB Sample#: 131172 Sample Description: MW-103 License/Well #: 467/112 Sampled: 06/04/2018 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	97	mg/L	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	50.75	Feet	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.509	MV	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Conductivity (Field)	4510	umhos/cm	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	821.67	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
pH (Field)	7.08	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	16.9	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 10:59	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 10:59	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:59	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 10:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131172 Sample Description: MW-103

License/Well #: 467/112 Sampled: 06/04/2018 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 10:59	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 10:59	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:59	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 10:59	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:59	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 10:59	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:59	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:59	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 10:59	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 10:59	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 10:59	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:59	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 10:59	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 10:59	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 10:59	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 10:59	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 10:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131172 Sample Description: MW-103

License/Well #: 467/112 Sampled: 06/04/2018 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 10:59	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 10:59	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 10:59	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 10:59	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 10:59	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 10:59	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:59	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:59	RLD	EPA 8260C
Chloromethane	0.048	ug/L	0.040 *	0.13	1	B		06/10/2018 10:59	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.21	ug/L	0.070 *	0.23	1			06/10/2018 10:59	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 10:59	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/10/2018 10:59	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 10:59	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 10:59	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/10/2018 10:59	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 10:59	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:59	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/10/2018 10:59	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/10/2018 10:59	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/10/2018 10:59	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/10/2018 10:59	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 10:59	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/10/2018 10:59	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131172 Sample Description: MW-103

License/Well #: 467/112 Sampled: 06/04/2018 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	10:59	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	10:59	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	10:59	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	10:59	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	10:59	RLD	EPA 8260C
Tetrachloroethene	0.27	ug/L	0.050	0.18	1		06/10/2018	10:59	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	10:59	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	10:59	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.052	ug/L	0.040 *	0.14	1		06/10/2018	10:59	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018	10:59	RLD	EPA 8260C
Trichloroethene	1.3	ug/L	0.050	0.17	1		06/10/2018	10:59	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018	10:59	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018	10:59	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/10/2018	10:59	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	10:59	RLD	EPA 8260C

CT LAB Sample#: 131173 Sample Description: MW-112

License/Well #: 467/121 Sampled: 06/04/2018 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-31	mg/L	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Depth to Groundwater (Field)	53.93	Feet	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
OX/REDOX (Field)	0.627	MV	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/05/2018	00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131173 Sample Description: MW-112

License/Well #: 467/121

Sampled: 06/04/2018 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Conductivity (Field)	1920	umhos/cm	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	820.62	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
pH (Field)	7.14	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	17.81	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 11:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 11:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 11:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 11:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 11:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 11:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:27	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 11:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:27	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131173 Sample Description: MW-112

License/Well #: 467/121

Sampled: 06/04/2018 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:27	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 11:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 11:27	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 11:27	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:27	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 11:27	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 11:27	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 11:27	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 11:27	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 11:27	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 11:27	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 11:27	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:27	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 11:27	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 11:27	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 11:27	RLD	EPA 8260C
Chlorobenzene	0.12	ug/L	0.040 *	0.15	1			06/10/2018 11:27	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:27	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:27	RLD	EPA 8260C
Chloromethane	0.042	ug/L	0.040 *	0.13	1	B		06/10/2018 11:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.081	ug/L	0.070 *	0.23	1			06/10/2018 11:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 11:27	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/10/2018 11:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131173 Sample Description: MW-112

License/Well #: 467/121

Sampled: 06/04/2018 1135

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Tetrachloroethene	0.084	ug/L	0.050 *	0.18	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Trichloroethene	0.43	ug/L	0.050	0.17	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018 11:27	06/10/2018 11:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131173	Sample Description: MW-112	License/Well #: 467/121	Sampled: 06/04/2018 1135
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 11:27	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:27	RLD	EPA 8260C

CT LAB Sample#: 131174	Sample Description: P-106	License/Well #: 467/116	Sampled: 06/04/2018 1330
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	-73	mg/L	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	54.54	Feet	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.481	MV	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Conductivity (Field)	570	umhos/cm	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.37	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
pH (Field)	7.52	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	10.66	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 11:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 11:56	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:56	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 11:56	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 11:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131174 Sample Description: P-106

License/Well #: 467/116 Sampled: 06/04/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 11:56	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 11:56	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:56	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 11:56	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:56	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:56	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 11:56	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 11:56	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 11:56	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:56	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 11:56	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 11:56	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 11:56	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 11:56	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 11:56	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 11:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131174 Sample Description: P-106

License/Well #: 467/116 Sampled: 06/04/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 11:56	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 11:56	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 11:56	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 11:56	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 11:56	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:56	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:56	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:56	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 11:56	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/10/2018 11:56	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 11:56	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 11:56	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 11:56	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:56	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/10/2018 11:56	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/10/2018 11:56	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:56	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:56	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/10/2018 11:56	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131174 Sample Description: P-106 License/Well #: 467/116 Sampled: 06/04/2018 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 11:56	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/10/2018 11:56	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/10/2018 11:56	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/10/2018 11:56	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 11:56	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 11:56	RLD	EPA 8260C
Trichloroethene	0.15	ug/L	0.050 *	0.17	1			06/10/2018 11:56	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 11:56	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 11:56	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 11:56	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 11:56	RLD	EPA 8260C

CT LAB Sample#: 131175 Sample Description: MW-107 License/Well #: 467/117 Sampled: 06/04/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	52.66	Feet	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	1.776	MV	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	819.12	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131175 Sample Description: MW-107

License/Well #: 467/117

Sampled: 06/04/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
pH (Field)	7.41	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	16.1	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 12:25	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 12:25	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 12:25	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 12:25	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 12:25	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 12:25	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 12:25	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 12:25	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 12:25	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 12:25	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 12:25	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 12:25	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 12:25	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 12:25	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 12:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131175 Sample Description: MW-107

License/Well #: 467/117

Sampled: 06/04/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 12:25	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 12:25	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 12:25	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 12:25	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 12:25	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 12:25	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 12:25	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 12:25	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 12:25	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 12:25	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 12:25	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 12:25	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 12:25	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 12:25	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 12:25	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 12:25	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 12:25	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 12:25	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 12:25	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/10/2018 12:25	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 12:25	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/10/2018 12:25	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 12:25	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 12:25	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/10/2018 12:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131175 Sample Description: MW-107

License/Well #: 467/117

Sampled: 06/04/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	12:25	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018	12:25	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	12:25	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018	12:25	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018	12:25	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	12:25	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	12:25	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	12:25	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018	12:25	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	12:25	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	12:25	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	12:25	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	12:25	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	12:25	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	12:25	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	12:25	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	12:25	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018	12:25	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018	12:25	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/10/2018	12:25	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018	12:25	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018	12:25	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/10/2018	12:25	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	12:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131176 Sample Description: P-107D

License/Well #: 467/119 Sampled: 06/04/2018 1435

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-32	mg/L	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Depth to Groundwater (Field)	49.74	Feet	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
OX/REDOX (Field)	0.378	MV	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Conductivity (Field)	440	umhos/cm	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Groundwater Elevation (Field)	822.24	Feet MSL	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
pH (Field)	7.56	S.U.	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Temperature (Field)	10.48	Deg. C	N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/05/2018	00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/10/2018	22:58	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/10/2018	22:58	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/10/2018	22:58	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/10/2018	22:58	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/10/2018	22:58	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/10/2018	22:58	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/10/2018	22:58	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1	Z	06/10/2018	22:58	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/10/2018	22:58	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	22:58	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	22:58	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		06/10/2018	22:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131176 Sample Description: P-107D

License/Well #: 467/119

Sampled: 06/04/2018 1435

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 22:58	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 22:58	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 22:58	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 22:58	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 22:58	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 22:58	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 22:58	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 22:58	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 22:58	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 22:58	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 22:58	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 22:58	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 22:58	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 22:58	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 22:58	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 22:58	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 22:58	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 22:58	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 22:58	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 22:58	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 22:58	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 22:58	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/10/2018 22:58	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 22:58	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 22:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131176 Sample Description: P-107D

License/Well #: 467/119

Sampled: 06/04/2018 1435

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroethane	0.86	ug/L	0.070	0.23	1		06/10/2018	22:58	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018	22:58	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018	22:58	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.78	ug/L	0.070	0.23	1		06/10/2018	22:58	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018	22:58	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018	22:58	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018	22:58	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018	22:58	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018	22:58	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	22:58	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1	Z	06/10/2018	22:58	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	22:58	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018	22:58	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018	22:58	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	22:58	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	22:58	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	22:58	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018	22:58	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	22:58	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	22:58	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	22:58	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	22:58	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	22:58	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	22:58	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	22:58	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131176 Sample Description: P-107D License/Well #: 467/119 Sampled: 06/04/2018 1435

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 22:58	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 22:58	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 22:58	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 22:58	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 22:58	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 22:58	RLD	EPA 8260C
Vinyl chloride	2.2	ug/L	0.019	0.064	1			06/10/2018 22:58	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 12:53	RLD	EPA 8260C

CT LAB Sample#: 131177 Sample Description: P-107 License/Well #: 467/118 Sampled: 06/04/2018 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-34	mg/L	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	51.25	Feet	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.418	MV	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Conductivity (Field)	1080	umhos/cm	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	820.13	Feet MSL	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
pH (Field)	7.37	S.U.	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Temperature (Field)	11.8	Deg. C	N/A	N/A	1			06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/05/2018 00:00	BMS	FIELD

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131177 Sample Description: P-107

License/Well #: 467/118 Sampled: 06/04/2018 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 13:22	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 13:22	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 13:22	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 13:22	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 13:22	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 13:22	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 13:22	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 13:22	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 13:22	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 13:22	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 13:22	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 13:22	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 13:22	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 13:22	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 13:22	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 13:22	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 13:22	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 13:22	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 13:22	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 13:22	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131177 Sample Description: P-107

License/Well #: 467/118 Sampled: 06/04/2018 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:22	RLD	EPA 8260C	
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 13:22	RLD	EPA 8260C	
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 13:22	RLD	EPA 8260C	
Benzene	0.024	ug/L	0.018 *	0.059	1		06/10/2018 13:22	RLD	EPA 8260C	
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 13:22	RLD	EPA 8260C	
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 13:22	RLD	EPA 8260C	
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 13:22	RLD	EPA 8260C	
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:22	RLD	EPA 8260C	
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 13:22	RLD	EPA 8260C	
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018 13:22	RLD	EPA 8260C	
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 13:22	RLD	EPA 8260C	
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 13:22	RLD	EPA 8260C	
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 13:22	RLD	EPA 8260C	
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 13:22	RLD	EPA 8260C	
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 13:22	RLD	EPA 8260C	
cis-1,2-Dichloroethene	0.29	ug/L	0.070	0.23	1		06/10/2018 13:22	RLD	EPA 8260C	
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 13:22	RLD	EPA 8260C	
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 13:22	RLD	EPA 8260C	
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 13:22	RLD	EPA 8260C	
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 13:22	RLD	EPA 8260C	
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 13:22	RLD	EPA 8260C	
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 13:22	RLD	EPA 8260C	
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 13:22	RLD	EPA 8260C	
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:22	RLD	EPA 8260C	
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 13:22	RLD	EPA 8260C	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131177 Sample Description: P-107 License/Well #: 467/118 Sampled: 06/04/2018 1455

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018	13:22	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	13:22	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	13:22	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:22	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018	13:22	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:22	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:22	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	13:22	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	13:22	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:22	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	13:22	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	13:22	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:22	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:22	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018	13:22	RLD	EPA 8260C
Trichloroethene	0.067	ug/L	0.050 *	0.17	1		06/10/2018	13:22	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018	13:22	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018	13:22	RLD	EPA 8260C
Vinyl chloride	0.58	ug/L	0.019	0.064	1		06/10/2018	13:22	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:22	RLD	EPA 8260C

CT LAB Sample#: 131178 Sample Description: LC-1 License/Well #: 467/301 Sampled: 06/04/2018 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131178 Sample Description: LC-1

License/Well #: 467/301

Sampled: 06/04/2018 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,1,1,2-Tetrachloroethane	<8.0	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1,1-Trichloroethane	<10	ug/L	10	34	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<3.4	ug/L	3.4	11	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1,2-Trichloroethane	17	ug/L	10 *	32	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1-Dichloroethane	<12	ug/L	12	38	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1-Dichloroethene	<12	ug/L	12	40	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,1-Dichloropropene	<12	ug/L	12	38	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2,3-Trichlorobenzene	340	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2,3-Trichloropropane	<8.0	ug/L	8.0	28	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<8.0	ug/L	8.0	24	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2,4-Trimethylbenzene	650	ug/L	20	60	500		06/11/2018 00:25	00:25	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<18	ug/L	18	58	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2-Dibromoethane	<14	ug/L	14	46	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2-Dichlorobenzene	<8.0	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2-Dichloroethane	<10	ug/L	10	36	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,2-Dichloropropane	<14	ug/L	14	46	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,3,5-Trimethylbenzene	1400	ug/L	10	32	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,3-Dichlorobenzene	<8.0	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,3-Dichloropropane	<8.0	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
1,4-Dichlorobenzene	130	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
2,2-Dichloropropane	<10	ug/L	10	30	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
2-Butanone	<100	ug/L	100	300	200		06/10/2018 18:10	18:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131178 Sample Description: LC-1

License/Well #: 467/301

Sampled: 06/04/2018 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
2-Chlorotoluene	<6.0	ug/L	6.0	22	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
2-Hexanone	<48	ug/L	48	160	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
4-Chlorotoluene	<8.0	ug/L	8.0	24	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
4-Methyl-2-pentanone	<48	ug/L	48	160	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Acetone	<60	ug/L	60	200	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Benzene	57	ug/L	3.6	12	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Bromobenzene	<8.0	ug/L	8.0	30	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Bromochloromethane	<6.0	ug/L	6.0	20	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Bromodichloromethane	<3.2	ug/L	3.2	11	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Bromoform	<8.0	ug/L	8.0	24	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Bromomethane	<16	ug/L	16	56	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Carbon disulfide	<14	ug/L	14	50	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Carbon tetrachloride	<10	ug/L	10	36	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Chlorobenzene	580	ug/L	8.0	30	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Chloroethane	<14	ug/L	14	46	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Chloroform	<6.0	ug/L	6.0	22	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Chloromethane	<8.0	ug/L	8.0	26	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
cis-1,2-Dichloroethene	<14	ug/L	14	46	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
cis-1,3-Dichloropropene	<2.2	ug/L	2.2	7.6	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Dibromochloromethane	<6.0	ug/L	6.0	20	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Dibromomethane	<10	ug/L	10	34	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Dichlorodifluoromethane	13	ug/L	12 *	38	200		06/10/2018 18:10	18:10	RLD	EPA 8260C
Diisopropyl ether	<8.0	ug/L	8.0	28	200		06/10/2018 18:10	18:10	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131178 Sample Description: LC-1

License/Well #: 467/301

Sampled: 06/04/2018 1525

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Ethylbenzene	620	ug/L	20	75	500		06/11/2018 00:25	06/11/2018 00:25	RLD	EPA 8260C
Hexachlorobutadiene	<10	ug/L	10	32	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Isopropylbenzene	360	ug/L	8.0	24	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
m & p-Xylene	2100	ug/L	35	120	500		06/11/2018 00:25	06/11/2018 00:25	RLD	EPA 8260C
Methyl tert-butyl ether	<8.0	ug/L	8.0	24	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Methylene chloride	<10	ug/L	10	32	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
n-Butylbenzene	1100	ug/L	6.0	22	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
n-Propylbenzene	310	ug/L	8.0	26	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Naphthalene	1800	ug/L	6.0	20	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
o-Xylene	580	ug/L	8.0	28	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
p-Isopropyltoluene	760	ug/L	8.0	26	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
sec-Butylbenzene	<10	ug/L	10	32	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Styrene	<6.0	ug/L	6.0	22	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
tert-Butylbenzene	<8.0	ug/L	8.0	28	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Tetrachloroethene	<10	ug/L	10	36	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Tetrahydrofuran	220	ug/L	80 *	300	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Toluene	85	ug/L	8.0	26	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
trans-1,2-Dichloroethene	<8.0	ug/L	8.0	28	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
trans-1,3-Dichloropropene	<3.8	ug/L	3.8	13	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Trichloroethene	<10	ug/L	10	34	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Trichlorofluoromethane	<18	ug/L	18	28	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Vinyl acetate	<44	ug/L	44	150	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Vinyl chloride	<3.8	ug/L	3.8	13	200		06/10/2018 18:10	06/10/2018 18:10	RLD	EPA 8260C
Total Xylene	2700	ug/L	20	70	500		06/11/2018 00:25	06/11/2018 00:25	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131179 Sample Description: MW-104

License/Well #: 467/113 Sampled: 06/04/2018 1540

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	51.23	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
OX/REDOX (Field)	1.124	MV	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	823.92	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
pH (Field)	6.95	S.U.	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Temperature (Field)	16.7	Deg. C	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2-Dichlorobenzene	0.042	ug/L	0.040 *	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131179 Sample Description: MW-104

License/Well #: 467/113 Sampled: 06/04/2018 1540

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,4-Dichlorobenzene	1.6	ug/L	0.040	0.13	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Benzene	0.099	ug/L	0.018	0.059	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Chlorobenzene	3.6	ug/L	0.040	0.15	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Chloroethane	0.50	ug/L	0.070	0.23	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 13:51	06/10/2018 13:51	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131179 Sample Description: MW-104

License/Well #: 467/113 Sampled: 06/04/2018 1540

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	0.051	ug/L	0.040 *	0.13	1	B	06/10/2018	13:51	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.12	ug/L	0.070 *	0.23	1		06/10/2018	13:51	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018	13:51	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018	13:51	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018	13:51	RLD	EPA 8260C
Dichlorodifluoromethane	0.15	ug/L	0.060 *	0.19	1		06/10/2018	13:51	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:51	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	13:51	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018	13:51	RLD	EPA 8260C
Isopropylbenzene	0.14	ug/L	0.040	0.12	1		06/10/2018	13:51	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018	13:51	RLD	EPA 8260C
Methyl tert-butyl ether	0.055	ug/L	0.040 *	0.12	1		06/10/2018	13:51	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	13:51	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	13:51	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:51	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018	13:51	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:51	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:51	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	13:51	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	13:51	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:51	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	13:51	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	13:51	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	13:51	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018	13:51	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131179 Sample Description: MW-104 License/Well #: 467/113 Sampled: 06/04/2018 1540

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 13:51	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 13:51	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 13:51	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 13:51	RLD	EPA 8260C
Vinyl chloride	0.041	ug/L	0.019 *	0.064	1			06/10/2018 13:51	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 13:51	RLD	EPA 8260C

CT LAB Sample#: 131180 Sample Description: LC-3 License/Well #: 467/303 Sampled: 06/04/2018 1555

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.40	ug/L	0.40	1.3	10			06/10/2018 23:27	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	10			06/10/2018 23:27	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.17	ug/L	0.17	0.57	10			06/10/2018 23:27	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1.6	10			06/10/2018 23:27	RLD	EPA 8260C
1,1-Dichloroethane	<0.60	ug/L	0.60	1.9	10			06/10/2018 23:27	RLD	EPA 8260C
1,1-Dichloroethene	<0.60	ug/L	0.60	2.0	10			06/10/2018 23:27	RLD	EPA 8260C
1,1-Dichloropropene	<0.60	ug/L	0.60	1.9	10			06/10/2018 23:27	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.40	ug/L	0.40	1.3	10	Z		06/10/2018 23:27	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.40	ug/L	0.40	1.4	10			06/10/2018 23:27	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.2	10			06/10/2018 23:27	RLD	EPA 8260C
1,2,4-Trimethylbenzene	2.6	ug/L	0.40	1.2	10			06/10/2018 23:27	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.90	ug/L	0.90	2.9	10			06/10/2018 23:27	RLD	EPA 8260C
1,2-Dibromoethane	<0.70	ug/L	0.70	2.3	10			06/10/2018 23:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131180 Sample Description: LC-3

License/Well #: 467/303

Sampled: 06/04/2018 1555

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.3	10			06/10/2018 23:27	RLD	EPA 8260C
1,2-Dichloroethane	<0.50	ug/L	0.50	1.8	10			06/10/2018 23:27	RLD	EPA 8260C
1,2-Dichloropropane	<0.70	ug/L	0.70	2.3	10			06/10/2018 23:27	RLD	EPA 8260C
1,3,5-Trimethylbenzene	1.8	ug/L	0.50	1.6	10			06/10/2018 23:27	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.40	ug/L	0.40	1.3	10			06/10/2018 23:27	RLD	EPA 8260C
1,3-Dichloropropane	<0.40	ug/L	0.40	1.3	10			06/10/2018 23:27	RLD	EPA 8260C
1,4-Dichlorobenzene	3.0	ug/L	0.40	1.3	10			06/10/2018 23:27	RLD	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.5	10			06/10/2018 23:27	RLD	EPA 8260C
2-Butanone	<5.0	ug/L	5.0	15	10			06/10/2018 23:27	RLD	EPA 8260C
2-Chlorotoluene	<0.30	ug/L	0.30	1.1	10			06/10/2018 23:27	RLD	EPA 8260C
2-Hexanone	<2.4	ug/L	2.4	8.1	10			06/10/2018 23:27	RLD	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	10			06/10/2018 23:27	RLD	EPA 8260C
4-Methyl-2-pentanone	<2.4	ug/L	2.4	8.2	10			06/10/2018 23:27	RLD	EPA 8260C
Acetone	200	ug/L	3.0	10	10			06/10/2018 23:27	RLD	EPA 8260C
Benzene	0.84	ug/L	0.18	0.59	10			06/10/2018 23:27	RLD	EPA 8260C
Bromobenzene	<0.40	ug/L	0.40	1.5	10			06/10/2018 23:27	RLD	EPA 8260C
Bromochloromethane	<0.30	ug/L	0.30	0.99	10			06/10/2018 23:27	RLD	EPA 8260C
Bromodichloromethane	<0.16	ug/L	0.16	0.54	10			06/10/2018 23:27	RLD	EPA 8260C
Bromoform	<0.40	ug/L	0.40	1.2	10			06/10/2018 23:27	RLD	EPA 8260C
Bromomethane	<0.80	ug/L	0.80	2.8	10			06/10/2018 23:27	RLD	EPA 8260C
Carbon disulfide	1.2	ug/L	0.70 *	2.5	10			06/10/2018 23:27	RLD	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.8	10			06/10/2018 23:27	RLD	EPA 8260C
Chlorobenzene	0.83	ug/L	0.40 *	1.5	10			06/10/2018 23:27	RLD	EPA 8260C
Chloroethane	<0.70	ug/L	0.70	2.3	10			06/10/2018 23:27	RLD	EPA 8260C
Chloroform	<0.30	ug/L	0.30	1.1	10			06/10/2018 23:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131180 Sample Description: LC-3

License/Well #: 467/303

Sampled: 06/04/2018 1555

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloromethane	0.52	ug/L	0.40 *	1.3	10	B	06/10/2018	23:27	RLD	EPA 8260C
cis-1,2-Dichloroethene	86	ug/L	0.70	2.3	10		06/10/2018	23:27	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.11	ug/L	0.11	0.38	10		06/10/2018	23:27	RLD	EPA 8260C
Dibromochloromethane	<0.30	ug/L	0.30	1.0	10		06/10/2018	23:27	RLD	EPA 8260C
Dibromomethane	<0.50	ug/L	0.50	1.7	10		06/10/2018	23:27	RLD	EPA 8260C
Dichlorodifluoromethane	<0.60	ug/L	0.60	1.9	10		06/10/2018	23:27	RLD	EPA 8260C
Diisopropyl ether	<0.40	ug/L	0.40	1.4	10		06/10/2018	23:27	RLD	EPA 8260C
Ethylbenzene	8.0	ug/L	0.40	1.5	10		06/10/2018	23:27	RLD	EPA 8260C
Hexachlorobutadiene	<0.50	ug/L	0.50	1.6	10	Z	06/10/2018	23:27	RLD	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.2	10		06/10/2018	23:27	RLD	EPA 8260C
m & p-Xylene	44	ug/L	0.70	2.3	10		06/10/2018	23:27	RLD	EPA 8260C
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.2	10		06/10/2018	23:27	RLD	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.6	10		06/10/2018	23:27	RLD	EPA 8260C
n-Butylbenzene	<0.30	ug/L	0.30	1.1	10		06/10/2018	23:27	RLD	EPA 8260C
n-Propylbenzene	<0.40	ug/L	0.40	1.3	10		06/10/2018	23:27	RLD	EPA 8260C
Naphthalene	<0.30	ug/L	0.30	1.0	10		06/10/2018	23:27	RLD	EPA 8260C
o-Xylene	19	ug/L	0.40	1.4	10		06/10/2018	23:27	RLD	EPA 8260C
p-Isopropyltoluene	0.64	ug/L	0.40 *	1.3	10		06/10/2018	23:27	RLD	EPA 8260C
sec-Butylbenzene	<0.50	ug/L	0.50	1.6	10		06/10/2018	23:27	RLD	EPA 8260C
Styrene	<0.30	ug/L	0.30	1.1	10		06/10/2018	23:27	RLD	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	10		06/10/2018	23:27	RLD	EPA 8260C
Tetrachloroethene	0.54	ug/L	0.50 *	1.8	10		06/10/2018	23:27	RLD	EPA 8260C
Tetrahydrofuran	40	ug/L	4.0	15	10		06/10/2018	23:27	RLD	EPA 8260C
Toluene	31	ug/L	0.40	1.3	10		06/10/2018	23:27	RLD	EPA 8260C
trans-1,2-Dichloroethene	0.50	ug/L	0.40 *	1.4	10		06/10/2018	23:27	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131180 Sample Description: LC-3 License/Well #: 467/303 Sampled: 06/04/2018 1555

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
trans-1,3-Dichloropropene	<0.19	ug/L	0.19	0.63	10			06/10/2018 23:27	RLD	EPA 8260C
Trichloroethene	5.7	ug/L	0.50	1.7	10			06/10/2018 23:27	RLD	EPA 8260C
Trichlorofluoromethane	<0.90	ug/L	0.90	1.4	10			06/10/2018 23:27	RLD	EPA 8260C
Vinyl acetate	<2.2	ug/L	2.2	7.3	10			06/10/2018 23:27	RLD	EPA 8260C
Vinyl chloride	14	ug/L	0.19	0.64	10			06/10/2018 23:27	RLD	EPA 8260C
Total Xylene	60	ug/L	2.0	7.0	50			06/10/2018 17:13	RLD	EPA 8260C

CT LAB Sample#: 131181 Sample Description: LC-2 License/Well #: 467/302 Sampled: 06/04/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Organic Results

Qualifiers applying to all Analytes of Method EPA 8260C: T

1,1,1,2-Tetrachloroethane	<0.80	ug/L	0.80	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,1,1-Trichloroethane	<1.0	ug/L	1.0	3.4	20			06/10/2018 23:56	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.34	ug/L	0.34	1.1	20			06/10/2018 23:56	RLD	EPA 8260C
1,1,2-Trichloroethane	<1.0	ug/L	1.0	3.2	20			06/10/2018 23:56	RLD	EPA 8260C
1,1-Dichloroethane	<1.2	ug/L	1.2	3.8	20			06/10/2018 23:56	RLD	EPA 8260C
1,1-Dichloroethene	<1.2	ug/L	1.2	4.0	20			06/10/2018 23:56	RLD	EPA 8260C
1,1-Dichloropropene	<1.2	ug/L	1.2	3.8	20			06/10/2018 23:56	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	20	Z		06/10/2018 23:56	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.80	ug/L	0.80	2.8	20			06/10/2018 23:56	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.80	ug/L	0.80	2.4	20			06/10/2018 23:56	RLD	EPA 8260C
1,2,4-Trimethylbenzene	86	ug/L	0.80	2.4	20			06/10/2018 23:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131181 Sample Description: LC-2

License/Well #: 467/302 Sampled: 06/04/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
1,2-Dibromo-3-chloropropane	<1.8	ug/L	1.8	5.8	20			06/10/2018 23:56	RLD	EPA 8260C
1,2-Dibromoethane	<1.4	ug/L	1.4	4.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.80	ug/L	0.80	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,2-Dichloroethane	<1.0	ug/L	1.0	3.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,2-Dichloropropane	<1.4	ug/L	1.4	4.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,3,5-Trimethylbenzene	21	ug/L	1.0	3.2	20			06/10/2018 23:56	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.80	ug/L	0.80	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,3-Dichloropropane	<0.80	ug/L	0.80	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
1,4-Dichlorobenzene	18	ug/L	0.80	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
2,2-Dichloropropane	<1.0	ug/L	1.0	3.0	20			06/10/2018 23:56	RLD	EPA 8260C
2-Butanone	<10	ug/L	10	30	20			06/10/2018 23:56	RLD	EPA 8260C
2-Chlorotoluene	<0.60	ug/L	0.60	2.2	20			06/10/2018 23:56	RLD	EPA 8260C
2-Hexanone	<4.8	ug/L	4.8	16	20			06/10/2018 23:56	RLD	EPA 8260C
4-Chlorotoluene	<0.80	ug/L	0.80	2.4	20			06/10/2018 23:56	RLD	EPA 8260C
4-Methyl-2-pentanone	<4.8	ug/L	4.8	16	20			06/10/2018 23:56	RLD	EPA 8260C
Acetone	15	ug/L	6.0 *	20	20			06/10/2018 23:56	RLD	EPA 8260C
Benzene	14	ug/L	0.36	1.2	20			06/10/2018 23:56	RLD	EPA 8260C
Bromobenzene	<0.80	ug/L	0.80	3.0	20			06/10/2018 23:56	RLD	EPA 8260C
Bromochloromethane	<0.60	ug/L	0.60	2.0	20			06/10/2018 23:56	RLD	EPA 8260C
Bromodichloromethane	<0.32	ug/L	0.32	1.1	20			06/10/2018 23:56	RLD	EPA 8260C
Bromoform	<0.80	ug/L	0.80	2.4	20			06/10/2018 23:56	RLD	EPA 8260C
Bromomethane	<1.6	ug/L	1.6	5.6	20			06/10/2018 23:56	RLD	EPA 8260C
Carbon disulfide	<1.4	ug/L	1.4	5.0	20			06/10/2018 23:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131181 Sample Description: LC-2

License/Well #: 467/302 Sampled: 06/04/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Carbon tetrachloride	<1.0	ug/L	1.0	3.6	20		06/10/2018	23:56	RLD	EPA 8260C
Chlorobenzene	75	ug/L	0.80	3.0	20		06/10/2018	23:56	RLD	EPA 8260C
Chloroethane	<1.4	ug/L	1.4	4.6	20		06/10/2018	23:56	RLD	EPA 8260C
Chloroform	<0.60	ug/L	0.60	2.2	20		06/10/2018	23:56	RLD	EPA 8260C
Chloromethane	<0.80	ug/L	0.80	2.6	20		06/10/2018	23:56	RLD	EPA 8260C
cis-1,2-Dichloroethene	<1.4	ug/L	1.4	4.6	20		06/10/2018	23:56	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.76	20		06/10/2018	23:56	RLD	EPA 8260C
Dibromochloromethane	<0.60	ug/L	0.60	2.0	20		06/10/2018	23:56	RLD	EPA 8260C
Dibromomethane	<1.0	ug/L	1.0	3.4	20		06/10/2018	23:56	RLD	EPA 8260C
Dichlorodifluoromethane	1.4	ug/L	1.2 *	3.8	20		06/10/2018	23:56	RLD	EPA 8260C
Diisopropyl ether	1.9	ug/L	0.80 *	2.8	20		06/10/2018	23:56	RLD	EPA 8260C
Ethylbenzene	21	ug/L	0.80	3.0	20		06/10/2018	23:56	RLD	EPA 8260C
Hexachlorobutadiene	<1.0	ug/L	1.0	3.2	20	Z	06/10/2018	23:56	RLD	EPA 8260C
Isopropylbenzene	11	ug/L	0.80	2.4	20		06/10/2018	23:56	RLD	EPA 8260C
m & p-Xylene	530	ug/L	1.4	4.6	20		06/10/2018	23:56	RLD	EPA 8260C
Methyl tert-butyl ether	1.4	ug/L	0.80 *	2.4	20		06/10/2018	23:56	RLD	EPA 8260C
Methylene chloride	<1.0	ug/L	1.0	3.2	20		06/10/2018	23:56	RLD	EPA 8260C
n-Butylbenzene	2.3	ug/L	0.60	2.2	20		06/10/2018	23:56	RLD	EPA 8260C
n-Propylbenzene	9.8	ug/L	0.80	2.6	20		06/10/2018	23:56	RLD	EPA 8260C
Naphthalene	12	ug/L	0.60	2.0	20		06/10/2018	23:56	RLD	EPA 8260C
o-Xylene	1.4	ug/L	0.80 *	2.8	20		06/10/2018	23:56	RLD	EPA 8260C
p-Isopropyltoluene	2.6	ug/L	0.80	2.6	20		06/10/2018	23:56	RLD	EPA 8260C
sec-Butylbenzene	1.2	ug/L	1.0 *	3.2	20		06/10/2018	23:56	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131181 Sample Description: LC-2 License/Well #: 467/302 Sampled: 06/04/2018 1610

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Qualifiers applying to all Analytes of Method EPA 8260C: T										
Styrene	<0.60	ug/L	0.60	2.2	20			06/10/2018 23:56	RLD	EPA 8260C
tert-Butylbenzene	<0.80	ug/L	0.80	2.8	20			06/10/2018 23:56	RLD	EPA 8260C
Tetrachloroethene	<1.0	ug/L	1.0	3.6	20			06/10/2018 23:56	RLD	EPA 8260C
Tetrahydrofuran	170	ug/L	8.0	30	20			06/10/2018 23:56	RLD	EPA 8260C
Toluene	1.1	ug/L	0.80 *	2.6	20			06/10/2018 23:56	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.80	ug/L	0.80	2.8	20			06/10/2018 23:56	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.38	ug/L	0.38	1.3	20			06/10/2018 23:56	RLD	EPA 8260C
Trichloroethene	<1.0	ug/L	1.0	3.4	20			06/10/2018 23:56	RLD	EPA 8260C
Trichlorofluoromethane	<1.8	ug/L	1.8	2.8	20			06/10/2018 23:56	RLD	EPA 8260C
Vinyl acetate	<4.4	ug/L	4.4	15	20			06/10/2018 23:56	RLD	EPA 8260C
Vinyl chloride	0.77	ug/L	0.38 *	1.3	20			06/10/2018 23:56	RLD	EPA 8260C
Total Xylene	590	ug/L	2.0	7.0	50			06/10/2018 17:41	RLD	EPA 8260C

CT LAB Sample#: 131189 Sample Description: P-111D License/Well #: 467/130 Sampled: 06/05/2018 0935

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-57	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	34.13	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.433	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	2040	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131189 Sample Description: P-111D

License/Well #: 467/130

Sampled: 06/05/2018 0935

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Groundwater Elevation (Field)	821.66	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.55	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.06	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:19	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 14:19	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 14:19	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 14:19	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 14:19	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 14:19	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 14:19	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:19	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 14:19	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 14:19	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 14:19	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 14:19	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 14:19	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:19	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 14:19	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 14:19	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 14:19	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:19	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131189 Sample Description: P-111D

License/Well #: 467/130

Sampled: 06/05/2018 0935

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Chloroethane	1.4	ug/L	0.070	0.23	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
cis-1,2-Dichloroethene	3.0	ug/L	0.070	0.23	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 14:19	14:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131189 Sample Description: P-111D

License/Well #: 467/130

Sampled: 06/05/2018 0935

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	0.066	ug/L	0.060 *	0.19	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018 14:19	14:19	RLD	EPA 8260C
Vinyl chloride	3.9	ug/L	0.019	0.064	1		06/10/2018 14:19	14:19	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131189 Sample Description: P-111D License/Well #: 467/130 Sampled: 06/05/2018 0935

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 14:19	RLD	EPA 8260C

CT LAB Sample#: 131190 Sample Description: P-111D DUP License/Well #: 467/130 Sampled: 06/05/2018 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:48	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 14:48	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 14:48	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 14:48	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 14:48	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 14:48	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 14:48	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:48	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 14:48	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 14:48	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 14:48	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 14:48	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 14:48	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:48	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 14:48	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 14:48	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 14:48	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 14:48	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131190 Sample Description: P-111D DUP

License/Well #: 467/130

Sampled: 06/05/2018 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Chloroethane	1.4	ug/L	0.070	0.23	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
cis-1,2-Dichloroethene	3.0	ug/L	0.070	0.23	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 14:48	14:48	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 14:48	14:48	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131190 Sample Description: P-111D DUP

License/Well #: 467/130

Sampled: 06/05/2018 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018	14:48	RLD	EPA 8260C
Dichlorodifluoromethane	0.065	ug/L	0.060 *	0.19	1		06/10/2018	14:48	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018	14:48	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018	14:48	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018	14:48	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018	14:48	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018	14:48	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018	14:48	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018	14:48	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018	14:48	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018	14:48	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018	14:48	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	14:48	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	14:48	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	14:48	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	14:48	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	14:48	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	14:48	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	14:48	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	14:48	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018	14:48	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018	14:48	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/10/2018	14:48	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018	14:48	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018	14:48	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131190	Sample Description: P-111D DUP	License/Well #: 467/130	Sampled: 06/05/2018 0940
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl chloride	3.7	ug/L	0.019	0.064	1			06/10/2018 14:48	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 14:48	RLD	EPA 8260C

CT LAB Sample#: 131191	Sample Description: MW-3A	License/Well #: 467/133	Sampled: 06/05/2018 1035
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	-56	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	27.94	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.345	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	1480	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	822.83	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	WEAK		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.48	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	11.3	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 15:17	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 15:17	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:17	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 15:17	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.20	1			06/10/2018 15:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131191 Sample Description: MW-3A

License/Well #: 467/133

Sampled: 06/05/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 15:17	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:17	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:17	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:17	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 15:17	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 15:17	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 15:17	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 15:17	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:17	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 15:17	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 15:17	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 15:17	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 15:17	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 15:17	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:17	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 15:17	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 15:17	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 15:17	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 15:17	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 15:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131191 Sample Description: MW-3A

License/Well #: 467/133

Sampled: 06/05/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Carbon disulfide	0.076	ug/L	0.070 *	0.25	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018 15:17	06/10/2018 15:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131191 Sample Description: MW-3A License/Well #: 467/133 Sampled: 06/05/2018 1035

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:17	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/10/2018 15:17	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:17	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/10/2018 15:17	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/10/2018 15:17	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:17	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:17	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 15:17	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 15:17	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 15:17	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 15:17	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 15:17	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:17	RLD	EPA 8260C

CT LAB Sample#: 131192 Sample Description: MW-3B License/Well #: 467/134 Sampled: 06/05/2018 1045

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-2	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	28.43	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.359	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	300	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131192 Sample Description: MW-3B

License/Well #: 467/134

Sampled: 06/05/2018 1045

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Groundwater Elevation (Field)	822.61	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	SOME		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.6	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	9.84	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 15:46	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 15:46	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:46	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 15:46	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 15:46	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 15:46	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:46	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:46	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 15:46	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 15:46	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 15:46	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 15:46	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:46	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131192 Sample Description: MW-3B

License/Well #: 467/134

Sampled: 06/05/2018 1045

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Carbon disulfide	0.17	ug/L	0.070 *	0.25	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 15:46	06/10/2018 15:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131192 Sample Description: MW-3B

License/Well #: 467/134

Sampled: 06/05/2018 1045

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 15:46	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 15:46	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:46	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:46	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/10/2018 15:46	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/10/2018 15:46	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:46	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/10/2018 15:46	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/10/2018 15:46	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 15:46	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/10/2018 15:46	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/10/2018 15:46	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/10/2018 15:46	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 15:46	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 15:46	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 15:46	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 15:46	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 15:46	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 15:46	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131192	Sample Description: MW-3B	License/Well #: 467/134	Sampled: 06/05/2018 1045
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 15:46	RLD	EPA 8260C

CT LAB Sample#: 131193	Sample Description: P-117	License/Well #: 467/144	Sampled: 06/05/2018 1120
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	-70	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	15.10	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.277	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	680	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	818.92	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.48	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.36	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:14	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 16:14	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/10/2018 16:14	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/10/2018 16:14	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 16:14	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/10/2018 16:14	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/10/2018 16:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131193 Sample Description: P-117

License/Well #: 467/144 Sampled: 06/05/2018 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Benzene	0.019	ug/L	0.018 *	0.059	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/10/2018 16:14	16:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131193 Sample Description: P-117

License/Well #: 467/144 Sampled: 06/05/2018 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromoform	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Chloroethane	0.55	ug/L	0.070	0.23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Chloromethane	0.044	ug/L	0.040 *	0.13	1	B	06/10/2018 16:14	16:14	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.83	ug/L	0.070	0.23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018 16:14	16:14	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:14	16:14	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131193 Sample Description: P-117 License/Well #: 467/144 Sampled: 06/05/2018 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/10/2018	16:14	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/10/2018	16:14	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/10/2018	16:14	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/10/2018	16:14	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/10/2018	16:14	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/10/2018	16:14	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/10/2018	16:14	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/10/2018	16:14	RLD	EPA 8260C
Trichloroethene	0.053	ug/L	0.050 *	0.17	1		06/10/2018	16:14	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/10/2018	16:14	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/10/2018	16:14	RLD	EPA 8260C
Vinyl chloride	1.4	ug/L	0.019	0.064	1		06/10/2018	16:14	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/10/2018	16:14	RLD	EPA 8260C

CT LAB Sample#: 131194 Sample Description: P-118 License/Well #: 467/145 Sampled: 06/05/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-14	mg/L	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Depth to Groundwater (Field)	8.00	Feet	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
OX/REDOX (Field)	0.205	MV	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Conductivity (Field)	280	umhos/cm	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Groundwater Elevation (Field)	818.93	Feet MSL	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131194 Sample Description: P-118

License/Well #: 467/145 Sampled: 06/05/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Odor (Field)	NONE		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.55	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.6	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/09/2018 12:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/09/2018 12:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/09/2018 12:43	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/09/2018 12:43	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/09/2018 12:43	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/09/2018 12:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/09/2018 12:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 12:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 12:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z		06/09/2018 12:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 12:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/09/2018 12:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/09/2018 12:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 12:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131194 Sample Description: P-118

License/Well #: 467/145 Sampled: 06/05/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/09/2018	12:43	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/09/2018	12:43	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/09/2018	12:43	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/09/2018	12:43	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/09/2018	12:43	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/09/2018	12:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/09/2018	12:43	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/09/2018	12:43	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/09/2018	12:43	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	12:43	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/09/2018	12:43	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/09/2018	12:43	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/09/2018	12:43	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/09/2018	12:43	RLD	EPA 8260C
Carbon disulfide	0.15	ug/L	0.070 *	0.25	1		06/09/2018	12:43	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/09/2018	12:43	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	12:43	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/09/2018	12:43	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/09/2018	12:43	RLD	EPA 8260C
Chloromethane	0.061	ug/L	0.040 *	0.13	1	B	06/09/2018	12:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		06/09/2018	12:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/09/2018	12:43	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/09/2018	12:43	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	12:43	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131194 Sample Description: P-118

License/Well #: 467/145 Sampled: 06/05/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/09/2018 12:43	12:43	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018 12:43	12:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131194	Sample Description: P-118	License/Well #: 467/145	Sampled: 06/05/2018 1150
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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CT LAB Sample#: 131195	Sample Description: P-113B	License/Well #: 467/138	Sampled: 06/05/2018 1225
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Dissolved Oxygen (Field)	-79	mg/L	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	12.23	Feet	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.215	MV	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	640	umhos/cm	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	820.87	Feet MSL	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
pH (Field)	7.67	S.U.	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.35	Deg. C	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD

Organic Results

1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/10/2018 16:43	06/10/2018 16:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131195 Sample Description: P-113B

License/Well #: 467/138

Sampled: 06/05/2018 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1			06/10/2018 16:43	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 16:43	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/10/2018 16:43	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/10/2018 16:43	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 16:43	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/10/2018 16:43	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/10/2018 16:43	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/10/2018 16:43	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/10/2018 16:43	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/10/2018 16:43	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/10/2018 16:43	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/10/2018 16:43	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/10/2018 16:43	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 16:43	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/10/2018 16:43	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/10/2018 16:43	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131195 Sample Description: P-113B

License/Well #: 467/138

Sampled: 06/05/2018 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/10/2018 16:43	RLD	EPA 8260C
Carbon disulfide	0.087	ug/L	0.070 *	0.25	1			06/10/2018 16:43	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/10/2018 16:43	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 16:43	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/10/2018 16:43	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/10/2018 16:43	RLD	EPA 8260C
Chloromethane	0.065	ug/L	0.040 *	0.13	1	B		06/10/2018 16:43	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/10/2018 16:43	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/10/2018 16:43	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/10/2018 16:43	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/10/2018 16:43	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/10/2018 16:43	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/10/2018 16:43	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/10/2018 16:43	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/10/2018 16:43	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/10/2018 16:43	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/10/2018 16:43	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/10/2018 16:43	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/10/2018 16:43	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/10/2018 16:43	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131195 Sample Description: P-113B License/Well #: 467/138 Sampled: 06/05/2018 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Styrene	<0.030	ug/L	0.030	0.11	1			06/10/2018 16:43	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/10/2018 16:43	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/10/2018 16:43	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1			06/10/2018 16:43	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/10/2018 16:43	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/10/2018 16:43	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/10/2018 16:43	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/10/2018 16:43	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/10/2018 16:43	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/10/2018 16:43	RLD	EPA 8260C

CT LAB Sample#: 131196 Sample Description: P-113A License/Well #: 467/136 Sampled: 06/05/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-14	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	11.41	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.232	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	920	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	821.68	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131196 Sample Description: P-113A

License/Well #: 467/136 Sampled: 06/05/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
pH (Field)	7.57	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	12.47	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/09/2018 13:12	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/09/2018 13:12	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:12	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/09/2018 13:12	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/09/2018 13:12	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/09/2018 13:12	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:12	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:12	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:12	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z		06/09/2018 13:12	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:12	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/09/2018 13:12	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:12	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:12	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:12	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/09/2018 13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131196 Sample Description: P-113A

License/Well #: 467/136

Sampled: 06/05/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/09/2018	13:12	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/09/2018	13:12	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/09/2018	13:12	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/09/2018	13:12	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:12	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/09/2018	13:12	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/09/2018	13:12	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/09/2018	13:12	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	13:12	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/09/2018	13:12	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/09/2018	13:12	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:12	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/09/2018	13:12	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/09/2018	13:12	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/09/2018	13:12	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	13:12	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/09/2018	13:12	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/09/2018	13:12	RLD	EPA 8260C
Chloromethane	0.090	ug/L	0.040 *	0.13	1	B	06/09/2018	13:12	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1		06/09/2018	13:12	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/09/2018	13:12	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/09/2018	13:12	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	13:12	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	13:12	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131196 Sample Description: P-113A

License/Well #: 467/136

Sampled: 06/05/2018 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	13:12	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/09/2018	13:12	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:12	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/09/2018	13:12	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:12	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/09/2018	13:12	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/09/2018	13:12	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	13:12	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/09/2018	13:12	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:12	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	13:12	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018	13:12	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/09/2018	13:12	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:12	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/09/2018	13:12	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018	13:12	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	13:12	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:12	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018	13:12	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018	13:12	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018	13:12	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018	13:12	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/09/2018	13:12	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:12	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131197 Sample Description: P-116

License/Well #: 467/143 Sampled: 06/05/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-67	mg/L	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Depth to Groundwater (Field)	26.10	Feet	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
OX/REDOX (Field)	0.243	MV	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Color (Field)	GRAYISH		N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Conductivity (Field)	1680	umhos/cm	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Groundwater Elevation (Field)	819.24	Feet MSL	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
pH (Field)	7.79	S.U.	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Temperature (Field)	11.67	Deg. C	N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/06/2018	00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/09/2018	13:40	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	13:40	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/09/2018	13:40	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/09/2018	13:40	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	13:40	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/09/2018	13:40	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/09/2018	13:40	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	13:40	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/09/2018	13:40	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:40	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	13:40	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z	06/09/2018	13:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131197 Sample Description: P-116

License/Well #: 467/143 Sampled: 06/05/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:40	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/09/2018 13:40	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:40	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:40	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/09/2018 13:40	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/09/2018 13:40	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/09/2018 13:40	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/09/2018 13:40	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/09/2018 13:40	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:40	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/09/2018 13:40	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/09/2018 13:40	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/09/2018 13:40	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 13:40	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/09/2018 13:40	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/09/2018 13:40	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:40	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/09/2018 13:40	RLD	EPA 8260C
Carbon disulfide	0.30	ug/L	0.070	0.25	1			06/09/2018 13:40	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/09/2018 13:40	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 13:40	RLD	EPA 8260C

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CT LAB Sample#: 131197 Sample Description: P-116

License/Well #: 467/143 Sampled: 06/05/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:40	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/09/2018 13:40	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:40	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/09/2018 13:40	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/09/2018 13:40	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/09/2018 13:40	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/09/2018 13:40	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:40	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 13:40	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:40	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:40	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/09/2018 13:40	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/09/2018 13:40	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:40	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/09/2018 13:40	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/09/2018 13:40	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:40	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 13:40	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/09/2018 13:40	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:40	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/09/2018 13:40	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1			06/09/2018 13:40	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131197 Sample Description: P-116 License/Well #: 467/143 Sampled: 06/05/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.040	ug/L	0.040	0.13	1			06/09/2018 13:40	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:40	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1			06/09/2018 13:40	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1			06/09/2018 13:40	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1			06/09/2018 13:40	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1			06/09/2018 13:40	RLD	EPA 8260C
Vinyl chloride	<0.019	ug/L	0.019	0.064	1			06/09/2018 13:40	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1			06/09/2018 13:40	RLD	EPA 8260C

CT LAB Sample#: 131198 Sample Description: P-114 License/Well #: 467/140 Sampled: 06/05/2018 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-80	mg/L	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	18.87	Feet	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.328	MV	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	280	umhos/cm	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	820.48	Feet MSL	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
pH (Field)	7.7	S.U.	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.33	Deg. C	N/A	N/A	1			06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1			06/06/2018 00:00	BMS	FIELD

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131198 Sample Description: P-114

License/Well #: 467/140 Sampled: 06/05/2018 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	14:09	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/09/2018	14:09	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/09/2018	14:09	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	14:09	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/09/2018	14:09	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/09/2018	14:09	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:09	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:09	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:09	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z	06/09/2018	14:09	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/09/2018	14:09	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/09/2018	14:09	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/09/2018	14:09	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018	14:09	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/09/2018	14:09	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/09/2018	14:09	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/09/2018	14:09	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/09/2018	14:09	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/09/2018	14:09	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131198 Sample Description: P-114

License/Well #: 467/140 Sampled: 06/05/2018 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:09	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/09/2018	14:09	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/09/2018	14:09	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/09/2018	14:09	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	14:09	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/09/2018	14:09	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/09/2018	14:09	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:09	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/09/2018	14:09	RLD	EPA 8260C
Carbon disulfide	0.086	ug/L	0.070 *	0.25	1		06/09/2018	14:09	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/09/2018	14:09	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	14:09	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/09/2018	14:09	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/09/2018	14:09	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:09	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.6	ug/L	0.070	0.23	1		06/09/2018	14:09	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/09/2018	14:09	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/09/2018	14:09	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	14:09	RLD	EPA 8260C
Dichlorodifluoromethane	0.061	ug/L	0.060 *	0.19	1		06/09/2018	14:09	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:09	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	14:09	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/09/2018	14:09	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:09	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/09/2018	14:09	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131198 Sample Description: P-114 License/Well #: 467/140 Sampled: 06/05/2018 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Vinyl chloride	5.8	ug/L	0.019	0.064	1		06/09/2018 14:09	14:09	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018 14:09	14:09	RLD	EPA 8260C

CT LAB Sample#: 131199 Sample Description: P-114 DUP License/Well #: 467/140 Sampled: 06/05/2018 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131199 Sample Description: P-114 DUP

License/Well #: 467/140

Sampled: 06/05/2018 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1			06/09/2018 14:38	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1			06/09/2018 14:38	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1			06/09/2018 14:38	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1			06/09/2018 14:38	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1			06/09/2018 14:38	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1			06/09/2018 14:38	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1			06/09/2018 14:38	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 14:38	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 14:38	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z		06/09/2018 14:38	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 14:38	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/09/2018 14:38	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/09/2018 14:38	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 14:38	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 14:38	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/09/2018 14:38	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/09/2018 14:38	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/09/2018 14:38	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/09/2018 14:38	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131199 Sample Description: P-114 DUP

License/Well #: 467/140

Sampled: 06/05/2018 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Chloroethane	0.27	ug/L	0.070	0.23	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
cis-1,2-Dichloroethene	1.7	ug/L	0.070	0.23	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/09/2018 14:38	14:38	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018 14:38	14:38	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131199 Sample Description: P-114 DUP

License/Well #: 467/140

Sampled: 06/05/2018 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/09/2018	14:38	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/09/2018	14:38	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/09/2018	14:38	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/09/2018	14:38	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:38	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/09/2018	14:38	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:38	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:38	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018	14:38	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/09/2018	14:38	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:38	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/09/2018	14:38	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018	14:38	RLD	EPA 8260C
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	14:38	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:38	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018	14:38	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018	14:38	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018	14:38	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018	14:38	RLD	EPA 8260C
Vinyl chloride	6.5	ug/L	0.019	0.064	1		06/09/2018	14:38	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	14:38	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131200 Sample Description: P-115 License/Well #: 467/142 Sampled: 06/05/2018 1445

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Dissolved Oxygen (Field)	-96	mg/L	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Depth to Groundwater (Field)	22.01	Feet	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
OX/REDOX (Field)	0.323	MV	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Conductivity (Field)	240	umhos/cm	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	820.70	Feet MSL	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
pH (Field)	7.77	S.U.	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Temperature (Field)	10.51	Deg. C	N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/06/2018 00:00	06/06/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z	06/09/2018 15:06	06/09/2018 15:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131200 Sample Description: P-115

License/Well #: 467/142 Sampled: 06/05/2018 1445

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 15:06	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 15:06	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1			06/09/2018 15:06	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1			06/09/2018 15:06	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 15:06	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 15:06	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1			06/09/2018 15:06	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 15:06	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1			06/09/2018 15:06	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1			06/09/2018 15:06	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1			06/09/2018 15:06	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1			06/09/2018 15:06	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1			06/09/2018 15:06	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1			06/09/2018 15:06	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1			06/09/2018 15:06	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1			06/09/2018 15:06	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1			06/09/2018 15:06	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 15:06	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1			06/09/2018 15:06	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1			06/09/2018 15:06	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1			06/09/2018 15:06	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1			06/09/2018 15:06	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1			06/09/2018 15:06	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1			06/09/2018 15:06	RLD	EPA 8260C
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 15:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131200 Sample Description: P-115

License/Well #: 467/142 Sampled: 06/05/2018 1445

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chloroethane	<0.070	ug/L	0.070	0.23	1		06/09/2018	15:06	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1		06/09/2018	15:06	RLD	EPA 8260C
Chloromethane	<0.040	ug/L	0.040	0.13	1		06/09/2018	15:06	RLD	EPA 8260C
cis-1,2-Dichloroethene	0.13	ug/L	0.070 *	0.23	1		06/09/2018	15:06	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1		06/09/2018	15:06	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1		06/09/2018	15:06	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	15:06	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	15:06	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1		06/09/2018	15:06	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018	15:06	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1		06/09/2018	15:06	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	15:06	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1		06/09/2018	15:06	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1		06/09/2018	15:06	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1		06/09/2018	15:06	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1		06/09/2018	15:06	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	15:06	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1		06/09/2018	15:06	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	15:06	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	15:06	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018	15:06	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1		06/09/2018	15:06	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1		06/09/2018	15:06	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1		06/09/2018	15:06	RLD	EPA 8260C
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018	15:06	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131200 Sample Description: P-115 License/Well #: 467/142 Sampled: 06/05/2018 1445

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018	15:06	RLD	EPA 8260C
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018	15:06	RLD	EPA 8260C
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018	15:06	RLD	EPA 8260C
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018	15:06	RLD	EPA 8260C
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018	15:06	RLD	EPA 8260C
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018	15:06	RLD	EPA 8260C
Vinyl chloride	0.98	ug/L	0.019	0.064	1		06/09/2018	15:06	RLD	EPA 8260C
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018	15:06	RLD	EPA 8260C

CT LAB Sample#: 131201 Sample Description: TRIP BLANK License/Well #: 467/999 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.040	ug/L	0.040	0.13	1		06/09/2018	11:17	RLD	EPA 8260C
1,1,1-Trichloroethane	<0.050	ug/L	0.050	0.17	1		06/09/2018	11:17	RLD	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.017	ug/L	0.017	0.057	1		06/09/2018	11:17	RLD	EPA 8260C
1,1,2-Trichloroethane	<0.050	ug/L	0.050	0.16	1		06/09/2018	11:17	RLD	EPA 8260C
1,1-Dichloroethane	<0.060	ug/L	0.060	0.19	1		06/09/2018	11:17	RLD	EPA 8260C
1,1-Dichloroethene	<0.060	ug/L	0.060	0.20	1		06/09/2018	11:17	RLD	EPA 8260C
1,1-Dichloropropene	<0.060	ug/L	0.060	0.19	1		06/09/2018	11:17	RLD	EPA 8260C
1,2,3-Trichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018	11:17	RLD	EPA 8260C
1,2,3-Trichloropropane	<0.040	ug/L	0.040	0.14	1		06/09/2018	11:17	RLD	EPA 8260C
1,2,4-Trichlorobenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	11:17	RLD	EPA 8260C
1,2,4-Trimethylbenzene	<0.040	ug/L	0.040	0.12	1		06/09/2018	11:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131201 Sample Description: TRIP BLANK

License/Well #: 467/999 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dibromo-3-chloropropane	<0.090	ug/L	0.090	0.29	1	Z	06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,2-Dibromoethane	<0.070	ug/L	0.070	0.23	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,2-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,2-Dichloroethane	<0.050	ug/L	0.050	0.18	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,2-Dichloropropane	<0.070	ug/L	0.070	0.23	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,3,5-Trimethylbenzene	<0.050	ug/L	0.050	0.16	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,3-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,3-Dichloropropane	<0.040	ug/L	0.040	0.13	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,4-Dichlorobenzene	<0.040	ug/L	0.040	0.13	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
1,4-Dioxane	<7.0	ug/L	7.0	23	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
2,2-Dichloropropane	<0.050	ug/L	0.050	0.15	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
2-Butanone	<0.50	ug/L	0.50	1.5	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
2-Chlorotoluene	<0.030	ug/L	0.030	0.11	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
2-Hexanone	<0.24	ug/L	0.24	0.81	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
4-Chlorotoluene	<0.040	ug/L	0.040	0.12	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
4-Methyl-2-pentanone	<0.24	ug/L	0.24	0.82	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Acetone	<0.30	ug/L	0.30	1.0	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Benzene	<0.018	ug/L	0.018	0.059	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Bromobenzene	<0.040	ug/L	0.040	0.15	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Bromochloromethane	<0.030	ug/L	0.030	0.099	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Bromodichloromethane	<0.016	ug/L	0.016	0.054	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Bromoform	<0.040	ug/L	0.040	0.12	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Bromomethane	<0.080	ug/L	0.080	0.28	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Carbon disulfide	<0.070	ug/L	0.070	0.25	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C
Carbon tetrachloride	<0.050	ug/L	0.050	0.18	1		06/09/2018 11:17	06/09/2018 11:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131201 Sample Description: TRIP BLANK

License/Well #: 467/999

Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 11:17	RLD	EPA 8260C
Chloroethane	<0.070	ug/L	0.070	0.23	1			06/09/2018 11:17	RLD	EPA 8260C
Chloroform	<0.030	ug/L	0.030	0.11	1			06/09/2018 11:17	RLD	EPA 8260C
Chloromethane	0.088	ug/L	0.040 *	0.13	1	B		06/09/2018 11:17	RLD	EPA 8260C
cis-1,2-Dichloroethene	<0.070	ug/L	0.070	0.23	1			06/09/2018 11:17	RLD	EPA 8260C
cis-1,3-Dichloropropene	<0.011	ug/L	0.011	0.038	1			06/09/2018 11:17	RLD	EPA 8260C
Dibromochloromethane	<0.030	ug/L	0.030	0.10	1			06/09/2018 11:17	RLD	EPA 8260C
Dibromomethane	<0.050	ug/L	0.050	0.17	1			06/09/2018 11:17	RLD	EPA 8260C
Dichlorodifluoromethane	<0.060	ug/L	0.060	0.19	1			06/09/2018 11:17	RLD	EPA 8260C
Diisopropyl ether	<0.040	ug/L	0.040	0.14	1			06/09/2018 11:17	RLD	EPA 8260C
Ethylbenzene	<0.040	ug/L	0.040	0.15	1			06/09/2018 11:17	RLD	EPA 8260C
Hexachlorobutadiene	<0.050	ug/L	0.050	0.16	1			06/09/2018 11:17	RLD	EPA 8260C
Isopropylbenzene	<0.040	ug/L	0.040	0.12	1			06/09/2018 11:17	RLD	EPA 8260C
m & p-Xylene	<0.070	ug/L	0.070	0.23	1			06/09/2018 11:17	RLD	EPA 8260C
Methyl tert-butyl ether	<0.040	ug/L	0.040	0.12	1			06/09/2018 11:17	RLD	EPA 8260C
Methylene chloride	<0.050	ug/L	0.050	0.16	1			06/09/2018 11:17	RLD	EPA 8260C
n-Butylbenzene	<0.030	ug/L	0.030	0.11	1			06/09/2018 11:17	RLD	EPA 8260C
n-Propylbenzene	<0.040	ug/L	0.040	0.13	1			06/09/2018 11:17	RLD	EPA 8260C
Naphthalene	<0.030	ug/L	0.030	0.10	1			06/09/2018 11:17	RLD	EPA 8260C
o-Xylene	<0.040	ug/L	0.040	0.14	1			06/09/2018 11:17	RLD	EPA 8260C
p-Isopropyltoluene	<0.040	ug/L	0.040	0.13	1			06/09/2018 11:17	RLD	EPA 8260C
sec-Butylbenzene	<0.050	ug/L	0.050	0.16	1			06/09/2018 11:17	RLD	EPA 8260C
Styrene	<0.030	ug/L	0.030	0.11	1			06/09/2018 11:17	RLD	EPA 8260C
tert-Butylbenzene	<0.040	ug/L	0.040	0.14	1			06/09/2018 11:17	RLD	EPA 8260C
Tetrachloroethene	<0.050	ug/L	0.050	0.18	1			06/09/2018 11:17	RLD	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 131201 Sample Description: TRIP BLANK License/Well #: 467/999 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Tetrahydrofuran	<0.40	ug/L	0.40	1.5	1		06/09/2018 11:17	RLD	EPA 8260C	
Toluene	<0.040	ug/L	0.040	0.13	1		06/09/2018 11:17	RLD	EPA 8260C	
trans-1,2-Dichloroethene	<0.040	ug/L	0.040	0.14	1		06/09/2018 11:17	RLD	EPA 8260C	
trans-1,3-Dichloropropene	<0.019	ug/L	0.019	0.063	1		06/09/2018 11:17	RLD	EPA 8260C	
Trichloroethene	<0.050	ug/L	0.050	0.17	1		06/09/2018 11:17	RLD	EPA 8260C	
Trichlorofluoromethane	<0.090	ug/L	0.090	0.14	1		06/09/2018 11:17	RLD	EPA 8260C	
Vinyl acetate	<0.22	ug/L	0.22	0.73	1		06/09/2018 11:17	RLD	EPA 8260C	
Vinyl chloride	<0.019	ug/L	0.019	0.064	1		06/09/2018 11:17	RLD	EPA 8260C	
Total Xylene	<0.040	ug/L	0.040	0.14	1		06/09/2018 11:17	RLD	EPA 8260C	

CT LAB Sample#: 142307 Sample Description: MW-101 License/Well #: 467/110 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	60.81	Feet	N/A	N/A	1		06/05/2018 00:00	BMS	FIELD	
Groundwater Elevation (Field)	823.99	Feet MSL	N/A	N/A	1		06/05/2018 00:00	BMS	FIELD	

CT LAB Sample#: 142308 Sample Description: P-101 License/Well #: 467/131 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	61.30	Feet	N/A	N/A	1		06/05/2018 00:00	BMS	FIELD	
Groundwater Elevation (Field)	823.96	Feet MSL	N/A	N/A	1		06/05/2018 00:00	BMS	FIELD	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 142309 Sample Description: MW-102 License/Well #: 467/111 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	18.61	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.44	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142310 Sample Description: P-102 License/Well #: 467/123 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	18.47	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.52	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142311 Sample Description: P-104 License/Well #: 467/115 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	51.41	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.07	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142312 Sample Description: MW-106 License/Well #: 467/132 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	54.45	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	824.45	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142313 Sample Description: MW-108 License/Well #: 467/120 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	26.21	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	819.04	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142314 Sample Description: P-108 License/Well #: 467/125 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	23.91	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	821.70	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142315 Sample Description: MW-111 License/Well #: 467/127 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	37.78	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	818.68	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

CT LAB Sample#: 142316 Sample Description: P-111 License/Well #: 467/129 Sampled: 06/05/2018

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Field Results

Depth to Groundwater (Field)	37.90	Feet	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Groundwater Elevation (Field)	818.23	Feet MSL	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
 Project Manager
 608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002

Preventative Action Limit (PAL) Exceedances

06/29/2018

Location/Landfill: **RIPON FF/NN LANDFILL**

License #: **467**

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Well Description: MW-103		Well #: 112		Sample Date		06/04/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Trichloroethene	39180	1.3	0.5	5	0.050	ug/L

Well Description: MW-104		Well #: 113		Sample Date		06/04/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	0.041	0.02	0.20	0.019	ug/L

Well Description: P-107		Well #: 118		Sample Date		06/04/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	0.58	0.02	0.20	0.019	ug/L

Well Description: P-107D		Well #: 119		Sample Date		06/04/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	2.2	0.02	0.20	0.019	ug/L

Well Description: P-111D		Well #: 130		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	3.9	0.02	0.20	0.019	ug/L

Well Description: P-111D DUP		Well #: 130		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	3.7	0.02	0.20	0.019	ug/L

Well Description: P-114		Well #: 140		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	5.8	0.02	0.20	0.019	ug/L

Well Description: P-114 DUP		Well #: 140		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	6.5	0.02	0.20	0.019	ug/L

Well Description: P-115		Well #: 142		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	0.98	0.02	0.20	0.019	ug/L

Well Description: P-117		Well #: 144		Sample Date		06/05/2018
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units

Preventative Action Limit (PAL) Exceedances

06/29/2018

Location/Landfill: **RIPON FF/NN LANDFILL**

License #: **467**

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Well Description: <i>P-117</i>		Well #: <i>144</i>		Sample Date		06/05/2018	
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units	
Vinyl chloride	39175	1.4	0.02	0.20	0.019	ug/L	

QC SUMMARY REPORT

TETRA TECH

Project Name: RIPON FF/NN LANDFILL

SDG #: 0

Folder #: 136797

Project #: 117-2202061.01

Lab Control Spike Water

Analytical Run #:	150006	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132717	Analysis Time:	08:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.24	ug/L			4.00	106	78 --- 121		20
1,1,1-Trichloroethane	4.38	ug/L			4.00	110	82 --- 122		20
1,1,2,2-Tetrachloroethane	4.01	ug/L			4.00	100	68 --- 128		20
1,1,2-Trichloroethane	4.13	ug/L			4.00	103	84 --- 114		20
1,1-Dichloroethane	4.10	ug/L			4.00	102	76 --- 122		20
1,1-Dichloroethene	4.03	ug/L			4.00	101	83 --- 123		20
1,1-Dichloropropene	4.32	ug/L			4.00	108	85 --- 120		20
1,2 Dichloroethane-d4	92.0	% Recovery			100	92.0	87 --- 107		
1,2,3-Trichlorobenzene	3.93	ug/L			4.00	98	78 --- 121		20
1,2,3-Trichloropropane	3.66	ug/L			4.00	92	62 --- 129		20
1,2,4-Trichlorobenzene	4.27	ug/L			4.00	107	80 --- 120		20
1,2,4-Trimethylbenzene	4.26	ug/L			4.00	106	76 --- 125		20
1,2-Dibromo-3-chloropropane	3.71	ug/L			4.00	93	69 --- 125		20
1,2-Dibromoethane	3.93	ug/L			4.00	98	80 --- 118		20
1,2-Dichlorobenzene	3.97	ug/L			4.00	99	80 --- 117		20
1,2-Dichloroethane	4.18	ug/L			4.00	104	78 --- 118		20
1,2-Dichloropropane	4.07	ug/L			4.00	102	78 --- 121		20
1,3,5-Trimethylbenzene	4.25	ug/L			4.00	106	76 --- 126		20
1,3-Dichlorobenzene	4.21	ug/L			4.00	105	78 --- 119		20
1,3-Dichloropropane	3.89	ug/L			4.00	97	82 --- 117		20
1,4-Dichlorobenzene	3.97	ug/L			4.00	99	77 --- 118		20
1,4-Dioxane	267	ug/L			200	134	11 --- 220		20
2,2-Dichloropropane	4.50	ug/L			4.00	112	71 --- 133		20
2-Butanone	40.1	ug/L			40.0	100	80 --- 120		20
2-Chlorotoluene	4.16	ug/L			4.00	104	73 --- 124		20
2-Hexanone	40.6	ug/L			40.0	102	73 --- 127		20
4-Chlorotoluene	4.14	ug/L			4.00	104	74 --- 125		20
4-Methyl-2-pentanone	40.5	ug/L			40.0	101	77 --- 125		20
Acetone	36.0	ug/L			40.0	90	72 --- 117		20
Benzene	4.23	ug/L			4.00	106	82 --- 118		20
Bromobenzene	4.06	ug/L			4.00	102	77 --- 118		20
Bromochloromethane	3.98	ug/L			4.00	100	81 --- 116		20
Bromodichloromethane	4.13	ug/L			4.00	103	80 --- 122		20
Bromofluorobenzene	98.0	% Recovery			100	98.0	90 --- 108		
Bromoform	3.77	ug/L			4.00	94	72 --- 124		20

Lab Control Spike Water

Analytical Run #:	150006	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132717	Analysis Time:	08:35	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Bromomethane	5.33	ug/L			4.00	133	25 --- 156		20
Carbon disulfide	8.54	ug/L			8.00	107	81 --- 124		20
Carbon tetrachloride	4.45	ug/L			4.00	111	87 --- 129		20
Chlorobenzene	4.13	ug/L			4.00	103	78 --- 118		20
Chloroethane	4.39	ug/L			4.00	110	73 --- 126		20
Chloroform	4.25	ug/L			4.00	106	76 --- 119		20
Chloromethane	4.25	ug/L			4.00	106	70 --- 121		20
cis-1,2-Dichloroethene	4.17	ug/L			4.00	104	82 --- 118		20
cis-1,3-Dichloropropene	4.14	ug/L			4.00	104	81 --- 123		20
d8-Toluene	98.0	% Recovery			100	98.0	93 --- 108		
Dibromochloromethane	4.00	ug/L			4.00	100	76 --- 124		20
Dibromofluoromethane	97.0	% Recovery			100	97.0	93 --- 106		
Dibromomethane	4.33	ug/L			4.00	108	83 --- 115		20
Dichlorodifluoromethane	4.33	ug/L			4.00	108	78 --- 126		20
Diisopropyl ether	4.00	ug/L			4.00	100	75 --- 125		20
Ethylbenzene	4.31	ug/L			4.00	108	78 --- 125		20
Hexachlorobutadiene	4.37	ug/L			4.00	109	79 --- 123		20
Isopropylbenzene	4.31	ug/L			4.00	108	81 --- 124		20
m & p-Xylene	8.68	ug/L			8.00	108	80 --- 123		20
Methyl tert-butyl ether	3.86	ug/L			4.00	96	82 --- 116		20
Methylene chloride	4.46	ug/L			4.00	112	73 --- 128		20
n-Butylbenzene	4.23	ug/L			4.00	106	76 --- 127		20
n-Propylbenzene	4.23	ug/L			4.00	106	75 --- 129		20
Naphthalene	3.93	ug/L			4.00	98	64 --- 129		20
o-Xylene	4.18	ug/L			4.00	104	81 --- 121		20
p-Isopropyltoluene	4.29	ug/L			4.00	107	79 --- 126		20
sec-Butylbenzene	4.31	ug/L			4.00	108	76 --- 128		20
Styrene	4.23	ug/L			4.00	106	81 --- 122		20
tert-Butylbenzene	4.23	ug/L			4.00	106	76 --- 125		20
Tetrachloroethene	4.26	ug/L			4.00	106	82 --- 123		20
Tetrahydrofuran	39.9	ug/L			40.0	100	69 --- 122		20
Toluene	4.06	ug/L			4.00	102	82 --- 119		20
trans-1,2-Dichloroethene	4.02	ug/L			4.00	100	80 --- 122		20
trans-1,3-Dichloropropene	3.97	ug/L			4.00	99	83 --- 119		20
Trichloroethene	4.12	ug/L			4.00	103	82 --- 120		20
Trichlorofluoromethane	4.49	ug/L			4.00	112	78 --- 130		20
Vinyl acetate	42.4	ug/L			40.0	106	63 --- 136		20
Vinyl chloride	3.95	ug/L			4.00	99	73 --- 127		20

Method Blank Water

Analytical Run #: 150006	Analysis Date: 06/10/2018	Prep Batch #:	Matrix: LIQUID
CTLab #: 132723	Analysis Time: 09:33	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.04	ug/L		U	0		0.04		
1,1,1-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1,2,2-Tetrachloroethane	0.017	ug/L		U	0		0.017		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.06	ug/L		U	0		0.06		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	100	% Recovery			100	100	68 --- 120		
1,2,3-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.04	ug/L		U	0		0.04		
1,2-Dibromo-3-chloropropane	0.09	ug/L		U	0		0.09		
1,2-Dibromoethane	0.07	ug/L		U	0		0.07		
1,2-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,2-Dichloroethane	0.05	ug/L		U	0		0.05		
1,2-Dichloropropane	0.07	ug/L		U	0		0.07		
1,3,5-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,3-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,4-Dioxane	7	ug/L		U	0		7		
2,2-Dichloropropane	0.05	ug/L		U	0		0.05		
2-Butanone	0.5	ug/L		U	0		0.5		
2-Chlorotoluene	0.03	ug/L		U	0		0.03		
2-Hexanone	0.24	ug/L		U	0		0.24		
4-Chlorotoluene	0.04	ug/L		U	0		0.04		
4-Methyl-2-pentanone	0.24	ug/L		U	0		0.24		
Acetone	0.30	ug/L		U	0		0.30		
Benzene	0.018	ug/L		U	0		0.018		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.030	ug/L		U	0		0.030		
Bromodichloromethane	0.016	ug/L		U	0		0.016		
Bromofluorobenzene	99.0	% Recovery			100	99.0	68 --- 120		
Bromoform	0.04	ug/L		U	0		0.04		
Bromomethane	0.08	ug/L		U	0		0.08		
Carbon disulfide	0.07	ug/L		U	0		0.07		
Carbon tetrachloride	0.05	ug/L		U	0		0.05		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.07	ug/L		U	0		0.07		
Chloroform	0.03	ug/L		U	0		0.03		
Chloromethane	0.0804	ug/L			0		0.04		

Method Blank Water

Analytical Run #:	150006	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132723	Analysis Time:	09:33	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.07	ug/L		U	0				0.07
cis-1,3-Dichloropropene	0.011	ug/L		U	0				0.011
d8-Toluene	100	% Recovery			100	100	71 ---		117
Dibromochloromethane	0.03	ug/L		U	0				0.03
Dibromofluoromethane	96.0	% Recovery			100	96.0	67 ---		122
Dibromomethane	0.05	ug/L		U	0				0.05
Dichlorodifluoromethane	0.06	ug/L		U	0				0.06
Diisopropyl ether	0.04	ug/L		U	0				0.04
Ethylbenzene	0.04	ug/L		U	0				0.04
Hexachlorobutadiene	0.05	ug/L		U	0				0.05
Isopropylbenzene	0.04	ug/L		U	0				0.04
m & p-Xylene	0.07	ug/L		U	0				0.07
Methyl tert-butyl ether	0.04	ug/L		U	0				0.04
Methylene chloride	0.05	ug/L		U	0				0.05
n-Butylbenzene	0.03	ug/L		U	0				0.03
n-Propylbenzene	0.04	ug/L		U	0				0.04
Naphthalene	0.03	ug/L		U	0				0.03
o-Xylene	0.04	ug/L		U	0				0.04
p-Isopropyltoluene	0.04	ug/L		U	0				0.04
sec-Butylbenzene	0.05	ug/L		U	0				0.05
Styrene	0.03	ug/L		U	0				0.03
tert-Butylbenzene	0.04	ug/L		U	0				0.04
Tetrachloroethene	0.05	ug/L		U	0				0.05
Tetrahydrofuran	0.4	ug/L		U	0				0.4
Toluene	0.04	ug/L		U	0				0.04
trans-1,2-Dichloroethene	0.04	ug/L		U	0				0.04
trans-1,3-Dichloropropene	0.019	ug/L		U	0				0.019
Trichloroethene	0.05	ug/L		U	0				0.05
Trichlorofluoromethane	0.09	ug/L		U	0				0.09
Vinyl acetate	0.22	ug/L		U	0				0.22
Vinyl chloride	0.019	ug/L		U	0				0.019

Matrix Spike Duplicate Water

Analytical Run #:	150006	Analysis Date:	06/11/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	136795	Analysis Time:	01:51	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	132756	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.01	ug/L	BDL		4.00	100	67 --- 122	1	21
1,1,1-Trichloroethane	3.64	ug/L	BDL		4.00	91	69 --- 128	2	20
1,1,2,2-Tetrachloroethane	3.91	ug/L	BDL		4.00	98	54 --- 130	0	22
1,1,2-Trichloroethane	3.73	ug/L	BDL		4.00	93	67 --- 116	9	25
1,1-Dichloroethane	3.43	ug/L	BDL		4.00	86	64 --- 124	0	25
1,1-Dichloroethene	3.82	ug/L	BDL		4.00	96	70 --- 130	0	24
1,1-Dichloropropene	4.43	ug/L	BDL		4.00	111	74 --- 127	9	21
1,2 Dichloroethane-d4	84.0	% Recovery		S	100	84.0	86 --- 106		7
1,2,3-Trichlorobenzene	2.91	ug/L	BDL		4.00	73	56 --- 134	22	31
1,2,3-Trichloropropane	3.36	ug/L	BDL		4.00	84	54 --- 117	2	26
1,2,4-Trichlorobenzene	3.45	ug/L	BDL		4.00	86	56 --- 133	20	29
1,2,4-Trimethylbenzene	4.42	ug/L	BDL		4.00	110	63 --- 132	7	36
1,2-Dibromo-3-chloropropane	3.38	ug/L	BDL		4.00	84	48 --- 121	10	34
1,2-Dibromoethane	3.81	ug/L	BDL		4.00	95	66 --- 114	0	22
1,2-Dichlorobenzene	4.01	ug/L	BDL		4.00	100	63 --- 124	4	23
1,2-Dichloroethane	3.16	ug/L	BDL		4.00	79	60 --- 117	2	21
1,2-Dichloropropane	3.63	ug/L	BDL		4.00	91	67 --- 121	0	19
1,3,5-Trimethylbenzene	4.50	ug/L	BDL		4.00	112	68 --- 130	6	34
1,3-Dichlorobenzene	4.28	ug/L	BDL		4.00	107	66 --- 126	4	22
1,3-Dichloropropane	3.50	ug/L	BDL		4.00	88	67 --- 114	10	23
1,4-Dichlorobenzene	4.10	ug/L	BDL		4.00	102	65 --- 125	6	22
1,4-Dioxane	190	ug/L	BDL		200	95	19 --- 208	20	20
2,2-Dichloropropane	3.21	ug/L	BDL		4.00	80	57 --- 136	1	21
2-Butanone	33.0	ug/L	BDL		40.0	82	67 --- 110	3	29
2-Chlorotoluene	4.50	ug/L	BDL		4.00	112	61 --- 134	5	20
2-Hexanone	32.1	ug/L	BDL		40.0	80	51 --- 128	2	28
4-Chlorotoluene	4.41	ug/L	BDL		4.00	110	65 --- 129	5	22
4-Methyl-2-pentanone	31.7	ug/L	BDL		40.0	79	55 --- 125	10	29
Acetone	22.8	ug/L	BDL		40.0	57	41 --- 101	0	39
Benzene	3.89	ug/L	0.025		4.00	97	71 --- 120	2	17
Bromobenzene	4.33	ug/L	BDL		4.00	108	63 --- 129	3	20
Bromochloromethane	3.71	ug/L	BDL		4.00	93	69 --- 113	4	22
Bromodichloromethane	3.68	ug/L	BDL		4.00	92	66 --- 119	2	20
Bromofluorobenzene	106	% Recovery			100	106	75 --- 124		7
Bromoform	3.23	ug/L	BDL		4.00	81	57 --- 116	8	28
Bromomethane	3.86	ug/L	BDL		4.00	96	11 --- 144	0	34
Carbon disulfide	7.36	ug/L	BDL		8.00	92	62 --- 136	4	31
Carbon tetrachloride	3.68	ug/L	BDL		4.00	92	80 --- 133	5	20
Chlorobenzene	4.10	ug/L	BDL		4.00	102	69 --- 120	2	21
Chloroethane	3.93	ug/L	BDL		4.00	98	61 --- 129	11	26
Chloroform	3.68	ug/L	BDL		4.00	92	64 --- 121	0	18
Chloromethane	3.02	ug/L	0.041		4.00	74	58 --- 120	15	21

Matrix Spike Duplicate Water

Analytical Run #:	150006	Analysis Date:	06/11/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	136795	Analysis Time:	01:51	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	132756	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.19	ug/L	0.27		4.00	98	71 --- 117	1	21
cis-1,3-Dichloropropene	3.63	ug/L	BDL		4.00	91	66 --- 116	7	21
d8-Toluene	101	% Recovery			100	101	94 --- 105		7
Dibromochloromethane	3.74	ug/L	BDL		4.00	94	64 --- 115	1	23
Dibromofluoromethane	93.0	% Recovery			100	93.0	90 --- 108		7
Dibromomethane	3.62	ug/L	BDL		4.00	90	68 --- 111	4	21
Dichlorodifluoromethane	3.41	ug/L	BDL		4.00	85	68 --- 141	22	22
Diisopropyl ether	3.25	ug/L	BDL		4.00	81	57 --- 129	1	27
Ethylbenzene	4.23	ug/L	BDL		4.00	106	70 --- 128	2	24
Hexachlorobutadiene	3.28	ug/L	BDL		4.00	82	57 --- 146	26	30
Isopropylbenzene	4.34	ug/L	BDL		4.00	108	72 --- 131	4	24
m & p-Xylene	8.71	ug/L	BDL		8.00	109	70 --- 128	2	28
Methyl tert-butyl ether	3.12	ug/L	BDL		4.00	78	60 --- 116	1	33
Methylene chloride	3.04	ug/L	BDL		4.00	76	29 --- 139	5	36
n-Butylbenzene	4.34	ug/L	BDL		4.00	108	67 --- 136	9	24
n-Propylbenzene	4.56	ug/L	BDL		4.00	114	64 --- 143	6	23
Naphthalene	3.24	ug/L	BDL		4.00	81	58 --- 122	14	31
o-Xylene	4.17	ug/L	BDL		4.00	104	71 --- 123	4	26
p-Isopropyltoluene	4.57	ug/L	BDL		4.00	114	71 --- 135	9	27
sec-Butylbenzene	4.57	ug/L	BDL		4.00	114	71 --- 137	8	23
Styrene	4.06	ug/L	BDL		4.00	102	70 --- 125	0	40
tert-Butylbenzene	4.57	ug/L	BDL		4.00	114	70 --- 133	7	22
Tetrachloroethene	4.36	ug/L	BDL		4.00	109	75 --- 127	16	21
Tetrahydrofuran	28.4	ug/L	BDL		40.0	71	48 --- 111	2	28
Toluene	4.13	ug/L	BDL		4.00	103	71 --- 120	15	19
trans-1,2-Dichloroethene	3.82	ug/L	BDL		4.00	96	72 --- 121	2	28
trans-1,3-Dichloropropene	3.35	ug/L	BDL		4.00	84	69 --- 109	6	21
Trichloroethene	4.10	ug/L	BDL		4.00	102	73 --- 118	6	19
Trichlorofluoromethane	3.34	ug/L	BDL		4.00	84	75 --- 134	17	23
Vinyl acetate	30.9	ug/L	BDL		40.0	77	55 --- 127	2	25
Vinyl chloride	3.32	ug/L	0.22		4.00	78	61 --- 130	11	21

Matrix Spike Water

Analytical Run #:	150006	Analysis Date:	06/11/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	132756	Analysis Time:	01:22	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	131161	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.98	ug/L	BDL		4.00	100	67 --- 122		21
1,1,1-Trichloroethane	3.55	ug/L	BDL		4.00	89	69 --- 128		20
1,1,2,2-Tetrachloroethane	3.89	ug/L	BDL		4.00	97	54 --- 130		22
1,1,2-Trichloroethane	3.39	ug/L	BDL		4.00	85	67 --- 116		25
1,1-Dichloroethane	3.43	ug/L	BDL		4.00	86	64 --- 124		25
1,1-Dichloroethene	3.82	ug/L	BDL		4.00	96	70 --- 130		24
1,1-Dichloropropene	4.07	ug/L	BDL		4.00	102	74 --- 127		21
1,2 Dichloroethane-d4	93.0	% Recovery			100	93.0	86 --- 106		7
1,2,3-Trichlorobenzene	2.32	ug/L	BDL		4.00	58	56 --- 134		31
1,2,3-Trichloropropane	3.42	ug/L	BDL		4.00	86	54 --- 117		26
1,2,4-Trichlorobenzene	2.82	ug/L	BDL		4.00	70	56 --- 133		29
1,2,4-Trimethylbenzene	4.13	ug/L	BDL		4.00	103	63 --- 132		36
1,2-Dibromo-3-chloropropane	3.05	ug/L	BDL		4.00	76	48 --- 121		34
1,2-Dibromoethane	3.81	ug/L	BDL		4.00	95	66 --- 114		22
1,2-Dichlorobenzene	3.83	ug/L	BDL		4.00	96	63 --- 124		23
1,2-Dichloroethane	3.10	ug/L	BDL		4.00	78	60 --- 117		21
1,2-Dichloropropane	3.61	ug/L	BDL		4.00	90	67 --- 121		19
1,3,5-Trimethylbenzene	4.23	ug/L	BDL		4.00	106	68 --- 130		34
1,3-Dichlorobenzene	4.11	ug/L	BDL		4.00	103	66 --- 126		22
1,3-Dichloropropane	3.17	ug/L	BDL		4.00	79	67 --- 114		23
1,4-Dichlorobenzene	3.85	ug/L	BDL		4.00	96	65 --- 125		22
1,4-Dioxane	155	ug/L	BDL		200	78	19 --- 208		20
2,2-Dichloropropane	3.16	ug/L	BDL		4.00	79	57 --- 136		21
2-Butanone	34.0	ug/L	BDL		40.0	85	67 --- 110		29
2-Chlorotoluene	4.26	ug/L	BDL		4.00	106	61 --- 134		20
2-Hexanone	32.8	ug/L	BDL		40.0	82	51 --- 128		28
4-Chlorotoluene	4.20	ug/L	BDL		4.00	105	65 --- 129		22
4-Methyl-2-pentanone	28.8	ug/L	BDL		40.0	72	55 --- 125		29
Acetone	22.7	ug/L	BDL		40.0	57	41 --- 101		39
Benzene	3.82	ug/L	0.025		4.00	95	71 --- 120		17
Bromobenzene	4.21	ug/L	BDL		4.00	105	63 --- 129		20
Bromochloromethane	3.87	ug/L	BDL		4.00	97	69 --- 113		22
Bromodichloromethane	3.61	ug/L	BDL		4.00	90	66 --- 119		20
Bromofluorobenzene	104	% Recovery			100	104	75 --- 124		7
Bromoform	3.49	ug/L	BDL		4.00	87	57 --- 116		28
Bromomethane	3.86	ug/L	BDL		4.00	96	11 --- 144		34
Carbon disulfide	7.07	ug/L	BDL		8.00	88	62 --- 136		31
Carbon tetrachloride	3.51	ug/L	BDL		4.00	88	80 --- 133		20
Chlorobenzene	4.01	ug/L	BDL		4.00	100	69 --- 120		21
Chloroethane	3.53	ug/L	BDL		4.00	88	61 --- 129		26
Chloroform	3.67	ug/L	BDL		4.00	92	64 --- 121		18
Chloromethane	2.60	ug/L	0.041		4.00	64	58 --- 120		21

Matrix Spike Water

Analytical Run #:	150006	Analysis Date:	06/11/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	132756	Analysis Time:	01:22	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	131161	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.24	ug/L	0.27		4.00	99	71 --- 117		21
cis-1,3-Dichloropropene	3.39	ug/L	BDL		4.00	85	66 --- 116		21
d8-Toluene	89.0	% Recovery		S	100	89.0	94 --- 105		7
Dibromochloromethane	3.78	ug/L	BDL		4.00	94	64 --- 115		23
Dibromofluoromethane	95.0	% Recovery			100	95.0	90 --- 108		7
Dibromomethane	3.49	ug/L	BDL		4.00	87	68 --- 111		21
Dichlorodifluoromethane	2.72	ug/L	BDL		4.00	68	68 --- 141		22
Diisopropyl ether	3.20	ug/L	BDL		4.00	80	57 --- 129		27
Ethylbenzene	4.15	ug/L	BDL		4.00	104	70 --- 128		24
Hexachlorobutadiene	2.52	ug/L	BDL		4.00	63	57 --- 146		30
Isopropylbenzene	4.17	ug/L	BDL		4.00	104	72 --- 131		24
m & p-Xylene	8.55	ug/L	BDL		8.00	107	70 --- 128		28
Methyl tert-butyl ether	3.10	ug/L	BDL		4.00	78	60 --- 116		33
Methylene chloride	3.20	ug/L	BDL		4.00	80	29 --- 139		36
n-Butylbenzene	3.95	ug/L	BDL		4.00	99	67 --- 136		24
n-Propylbenzene	4.30	ug/L	BDL		4.00	108	64 --- 143		23
Naphthalene	2.82	ug/L	BDL		4.00	70	58 --- 122		31
o-Xylene	4.00	ug/L	BDL		4.00	100	71 --- 123		26
p-Isopropyltoluene	4.19	ug/L	BDL		4.00	105	71 --- 135		27
sec-Butylbenzene	4.22	ug/L	BDL		4.00	106	71 --- 137		23
Styrene	4.05	ug/L	BDL		4.00	101	70 --- 125		40
tert-Butylbenzene	4.26	ug/L	BDL		4.00	106	70 --- 133		22
Tetrachloroethene	3.70	ug/L	BDL		4.00	92	75 --- 127		21
Tetrahydrofuran	29.1	ug/L	BDL		40.0	73	48 --- 111		28
Toluene	3.57	ug/L	BDL		4.00	89	71 --- 120		19
trans-1,2-Dichloroethene	3.75	ug/L	BDL		4.00	94	72 --- 121		28
trans-1,3-Dichloropropene	3.16	ug/L	BDL		4.00	79	69 --- 109		21
Trichloroethene	3.86	ug/L	BDL		4.00	96	73 --- 118		19
Trichlorofluoromethane	2.80	ug/L	BDL		4.00	70	75 --- 134		23
Vinyl acetate	30.2	ug/L	BDL		40.0	76	55 --- 127		25
Vinyl chloride	2.97	ug/L	0.22		4.00	69	61 --- 130		21

Lab Control Spike Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132502	Analysis Time:	09:21	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.21	ug/L			4.00	105	78 --- 121		20
1,1,1-Trichloroethane	4.21	ug/L			4.00	105	82 --- 122		20
1,1,2,2-Tetrachloroethane	4.35	ug/L			4.00	109	68 --- 128		20
1,1,2-Trichloroethane	4.26	ug/L			4.00	106	84 --- 114		20
1,1-Dichloroethane	4.03	ug/L			4.00	101	76 --- 122		20
1,1-Dichloroethene	3.92	ug/L			4.00	98	83 --- 123		20
1,1-Dichloropropene	4.30	ug/L			4.00	108	85 --- 120		20
1,2 Dichloroethane-d4	108	% Recovery		S	100	108	87 --- 107		
1,2,3-Trichlorobenzene	3.60	ug/L			4.00	90	78 --- 121		20
1,2,3-Trichloropropane	4.19	ug/L			4.00	105	62 --- 129		20
1,2,4-Trichlorobenzene	3.72	ug/L			4.00	93	80 --- 120		20
1,2,4-Trimethylbenzene	4.10	ug/L			4.00	102	76 --- 125		20
1,2-Dibromo-3-chloropropane	3.17	ug/L			4.00	79	69 --- 125		20
1,2-Dibromoethane	4.37	ug/L			4.00	109	80 --- 118		20
1,2-Dichlorobenzene	3.97	ug/L			4.00	99	80 --- 117		20
1,2-Dichloroethane	4.13	ug/L			4.00	103	78 --- 118		20
1,2-Dichloropropane	4.23	ug/L			4.00	106	78 --- 121		20
1,3,5-Trimethylbenzene	4.12	ug/L			4.00	103	76 --- 126		20
1,3-Dichlorobenzene	4.11	ug/L			4.00	103	78 --- 119		20
1,3-Dichloropropane	4.04	ug/L			4.00	101	82 --- 117		20
1,4-Dichlorobenzene	4.01	ug/L			4.00	100	77 --- 118		20
1,4-Dioxane	202	ug/L			200	101	11 --- 220		20
2,2-Dichloropropane	4.25	ug/L			4.00	106	71 --- 133		20
2-Butanone	44.6	ug/L			40.0	112	80 --- 120		20
2-Chlorotoluene	4.08	ug/L			4.00	102	73 --- 124		20
2-Hexanone	45.9	ug/L			40.0	115	73 --- 127		20
4-Chlorotoluene	4.09	ug/L			4.00	102	74 --- 125		20
4-Methyl-2-pentanone	44.5	ug/L			40.0	111	77 --- 125		20
Acetone	40.5	ug/L			40.0	101	72 --- 117		20
Benzene	4.13	ug/L			4.00	103	82 --- 118		20
Bromobenzene	4.19	ug/L			4.00	105	77 --- 118		20
Bromochloromethane	3.82	ug/L			4.00	96	81 --- 116		20
Bromodichloromethane	4.23	ug/L			4.00	106	80 --- 122		20
Bromofluorobenzene	99.0	% Recovery			100	99.0	90 --- 108		
Bromoform	4.77	ug/L			4.00	119	72 --- 124		20
Bromomethane	4.29	ug/L			4.00	107	25 --- 156		20
Carbon disulfide	8.12	ug/L			8.00	102	81 --- 124		20
Carbon tetrachloride	4.28	ug/L			4.00	107	87 --- 129		20
Chlorobenzene	4.06	ug/L			4.00	102	78 --- 118		20
Chloroethane	4.01	ug/L			4.00	100	73 --- 126		20
Chloroform	4.18	ug/L			4.00	104	76 --- 119		20
Chloromethane	4.38	ug/L			4.00	110	70 --- 121		20

Lab Control Spike Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132502	Analysis Time:	09:21	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.18	ug/L			4.00	104	82 --- 118		20
cis-1,3-Dichloropropene	4.18	ug/L			4.00	104	81 --- 123		20
d8-Toluene	100	% Recovery			100	100	93 --- 108		
Dibromochloromethane	4.39	ug/L			4.00	110	76 --- 124		20
Dibromofluoromethane	99.0	% Recovery			100	99.0	93 --- 106		
Dibromomethane	4.27	ug/L			4.00	107	83 --- 115		20
Dichlorodifluoromethane	4.07	ug/L			4.00	102	78 --- 126		20
Diisopropyl ether	4.01	ug/L			4.00	100	75 --- 125		20
Ethylbenzene	4.25	ug/L			4.00	106	78 --- 125		20
Hexachlorobutadiene	3.50	ug/L			4.00	88	79 --- 123		20
Isopropylbenzene	4.76	ug/L			4.00	119	81 --- 124		20
m & p-Xylene	8.53	ug/L			8.00	107	80 --- 123		20
Methyl tert-butyl ether	4.20	ug/L			4.00	105	82 --- 116		20
Methylene chloride	4.43	ug/L			4.00	111	73 --- 128		20
n-Butylbenzene	3.95	ug/L			4.00	99	76 --- 127		20
n-Propylbenzene	4.10	ug/L			4.00	102	75 --- 129		20
Naphthalene	3.74	ug/L			4.00	94	64 --- 129		20
o-Xylene	4.75	ug/L			4.00	119	81 --- 121		20
p-Isopropyltoluene	4.14	ug/L			4.00	104	79 --- 126		20
sec-Butylbenzene	4.18	ug/L			4.00	104	76 --- 128		20
Styrene	4.74	ug/L			4.00	118	81 --- 122		20
tert-Butylbenzene	4.11	ug/L			4.00	103	76 --- 125		20
Tetrachloroethene	4.24	ug/L			4.00	106	82 --- 123		20
Tetrahydrofuran	43.2	ug/L			40.0	108	69 --- 122		20
Toluene	4.06	ug/L			4.00	102	82 --- 119		20
trans-1,2-Dichloroethene	3.94	ug/L			4.00	98	80 --- 122		20
trans-1,3-Dichloropropene	4.32	ug/L			4.00	108	83 --- 119		20
Trichloroethene	4.08	ug/L			4.00	102	82 --- 120		20
Trichlorofluoromethane	4.04	ug/L			4.00	101	78 --- 130		20
Vinyl acetate	46.0	ug/L			40.0	115	63 --- 136		20
Vinyl chloride	3.98	ug/L			4.00	100	73 --- 127		20

Method Blank Water

Analytical Run #: 150007	Analysis Date: 06/09/2018	Prep Batch #:	Matrix: LIQUID
CTLab #: 136703	Analysis Time: 10:19	Prep Date/Time:	Method: SW8260C
Parent Sample #:	Analyst: RLD	Prep Analyst:	

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.04	ug/L		U	0		0.04		
1,1,1-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1,2,2-Tetrachloroethane	0.017	ug/L		U	0		0.017		
1,1,2-Trichloroethane	0.05	ug/L		U	0		0.05		
1,1-Dichloroethane	0.06	ug/L		U	0		0.06		
1,1-Dichloroethene	0.06	ug/L		U	0		0.06		
1,1-Dichloropropene	0.06	ug/L		U	0		0.06		
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	68 --- 120		
1,2,3-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,3-Trichloropropane	0.04	ug/L		U	0		0.04		
1,2,4-Trichlorobenzene	0.04	ug/L		U	0		0.04		
1,2,4-Trimethylbenzene	0.04	ug/L		U	0		0.04		
1,2-Dibromo-3-chloropropane	0.09	ug/L		U	0		0.09		
1,2-Dibromoethane	0.07	ug/L		U	0		0.07		
1,2-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,2-Dichloroethane	0.05	ug/L		U	0		0.05		
1,2-Dichloropropane	0.07	ug/L		U	0		0.07		
1,3,5-Trimethylbenzene	0.05	ug/L		U	0		0.05		
1,3-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,3-Dichloropropane	0.04	ug/L		U	0		0.04		
1,4-Dichlorobenzene	0.04	ug/L		U	0		0.04		
1,4-Dioxane	7	ug/L		U	0		7		
2,2-Dichloropropane	0.05	ug/L		U	0		0.05		
2-Butanone	0.5	ug/L		U	0		0.5		
2-Chlorotoluene	0.03	ug/L		U	0		0.03		
2-Hexanone	0.24	ug/L		U	0		0.24		
4-Chlorotoluene	0.04	ug/L		U	0		0.04		
4-Methyl-2-pentanone	0.24	ug/L		U	0		0.24		
Acetone	0.30	ug/L		U	0		0.30		
Benzene	0.018	ug/L		U	0		0.018		
Bromobenzene	0.04	ug/L		U	0		0.04		
Bromochloromethane	0.030	ug/L		U	0		0.030		
Bromodichloromethane	0.016	ug/L		U	0		0.016		
Bromofluorobenzene	101	% Recovery			100	101	68 --- 120		
Bromoform	0.04	ug/L		U	0		0.04		
Bromomethane	0.08	ug/L		U	0		0.08		
Carbon disulfide	0.07	ug/L		U	0		0.07		
Carbon tetrachloride	0.05	ug/L		U	0		0.05		
Chlorobenzene	0.04	ug/L		U	0		0.04		
Chloroethane	0.07	ug/L		U	0		0.07		
Chloroform	0.03	ug/L		U	0		0.03		
Chloromethane	0.0930	ug/L			0		0.04		

Method Blank Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	136703	Analysis Time:	10:19	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.07	ug/L		U	0		0.07		
cis-1,3-Dichloropropene	0.011	ug/L		U	0		0.011		
d8-Toluene	100	% Recovery			100	100	71 --- 117		
Dibromochloromethane	0.03	ug/L		U	0		0.03		
Dibromofluoromethane	100	% Recovery			100	100	67 --- 122		
Dibromomethane	0.05	ug/L		U	0		0.05		
Dichlorodifluoromethane	0.06	ug/L		U	0		0.06		
Diisopropyl ether	0.04	ug/L		U	0		0.04		
Ethylbenzene	0.04	ug/L		U	0		0.04		
Hexachlorobutadiene	0.05	ug/L		U	0		0.05		
Isopropylbenzene	0.04	ug/L		U	0		0.04		
m & p-Xylene	0.07	ug/L		U	0		0.07		
Methyl tert-butyl ether	0.04	ug/L		U	0		0.04		
Methylene chloride	0.05	ug/L		U	0		0.05		
n-Butylbenzene	0.03	ug/L		U	0		0.03		
n-Propylbenzene	0.04	ug/L		U	0		0.04		
Naphthalene	0.03	ug/L		U	0		0.03		
o-Xylene	0.04	ug/L		U	0		0.04		
p-Isopropyltoluene	0.04	ug/L		U	0		0.04		
sec-Butylbenzene	0.05	ug/L		U	0		0.05		
Styrene	0.03	ug/L		U	0		0.03		
tert-Butylbenzene	0.04	ug/L		U	0		0.04		
Tetrachloroethene	0.05	ug/L		U	0		0.05		
Tetrahydrofuran	0.4	ug/L		U	0		0.4		
Toluene	0.04	ug/L		U	0		0.04		
trans-1,2-Dichloroethene	0.04	ug/L		U	0		0.04		
trans-1,3-Dichloropropene	0.019	ug/L		U	0		0.019		
Trichloroethene	0.05	ug/L		U	0		0.05		
Trichlorofluoromethane	0.09	ug/L		U	0		0.09		
Vinyl acetate	0.22	ug/L		U	0		0.22		
Vinyl chloride	0.019	ug/L		U	0		0.019		

Matrix Spike Duplicate Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	136730	Analysis Time:	19:52	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	132713	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.78	ug/L	BDL		4.00	94	67 --- 122	14	21
1,1,1-Trichloroethane	4.18	ug/L	BDL		4.00	104	69 --- 128	1	20
1,1,2,2-Tetrachloroethane	3.55	ug/L	BDL		4.00	89	54 --- 130	14	22
1,1,2-Trichloroethane	3.56	ug/L	BDL		4.00	89	67 --- 116	16	25
1,1-Dichloroethane	3.74	ug/L	BDL		4.00	94	64 --- 124	7	25
1,1-Dichloroethene	3.89	ug/L	BDL		4.00	97	70 --- 130	10	24
1,1-Dichloropropene	4.12	ug/L	BDL		4.00	103	74 --- 127	4	21
1,2 Dichloroethane-d4	100	% Recovery			100	100	86 --- 106		7
1,2,3-Trichlorobenzene	3.90	ug/L	BDL		4.00	98	56 --- 134	8	31
1,2,3-Trichloropropane	3.09	ug/L	BDL		4.00	77	54 --- 117	17	26
1,2,4-Trichlorobenzene	4.06	ug/L	BDL		4.00	102	56 --- 133	7	29
1,2,4-Trimethylbenzene	4.09	ug/L	BDL		4.00	102	63 --- 132	3	36
1,2-Dibromo-3-chloropropane	3.13	ug/L	BDL		4.00	78	48 --- 121	5	34
1,2-Dibromoethane	3.61	ug/L	BDL		4.00	90	66 --- 114	14	22
1,2-Dichlorobenzene	3.92	ug/L	BDL		4.00	98	63 --- 124	5	23
1,2-Dichloroethane	3.73	ug/L	BDL		4.00	93	60 --- 117	3	21
1,2-Dichloropropane	3.76	ug/L	BDL		4.00	94	67 --- 121	8	19
1,3,5-Trimethylbenzene	4.07	ug/L	BDL		4.00	102	68 --- 130	3	34
1,3-Dichlorobenzene	3.92	ug/L	BDL		4.00	98	66 --- 126	6	22
1,3-Dichloropropane	3.39	ug/L	BDL		4.00	85	67 --- 114	16	23
1,4-Dichlorobenzene	3.90	ug/L	BDL		4.00	98	65 --- 125	3	22
1,4-Dioxane	158	ug/L	BDL		200	79	19 --- 208	7	20
2,2-Dichloropropane	3.94	ug/L	BDL		4.00	98	57 --- 136	6	21
2-Butanone	34.6	ug/L	BDL		40.0	86	67 --- 110	17	29
2-Chlorotoluene	3.96	ug/L	BDL		4.00	99	61 --- 134	4	20
2-Hexanone	34.3	ug/L	BDL		40.0	86	51 --- 128	16	28
4-Chlorotoluene	4.15	ug/L	BDL		4.00	104	65 --- 129	0	22
4-Methyl-2-pentanone	33.5	ug/L	BDL		40.0	84	55 --- 125	15	29
Acetone	27.4	ug/L	BDL		40.0	68	41 --- 101	12	39
Benzene	3.94	ug/L	BDL		4.00	98	71 --- 120	5	17
Bromobenzene	3.83	ug/L	BDL		4.00	96	63 --- 129	9	20
Bromochloromethane	3.58	ug/L	BDL		4.00	90	69 --- 113	14	22
Bromodichloromethane	3.76	ug/L	BDL		4.00	94	66 --- 119	9	20
Bromofluorobenzene	99.0	% Recovery			100	99.0	75 --- 124		7
Bromoform	3.12	ug/L	BDL		4.00	78	57 --- 116	23	28
Bromomethane	5.04	ug/L	BDL		4.00	126	11 --- 144	28	34
Carbon disulfide	8.09	ug/L	BDL		8.00	101	62 --- 136	6	31
Carbon tetrachloride	4.26	ug/L	BDL		4.00	106	80 --- 133	2	20
Chlorobenzene	3.78	ug/L	BDL		4.00	94	69 --- 120	12	21
Chloroethane	4.58	ug/L	0.092		4.00	112	61 --- 129	5	26
Chloroform	3.78	ug/L	BDL		4.00	94	64 --- 121	8	18
Chloromethane	4.12	ug/L	BDL		4.00	103	58 --- 120	11	21

Matrix Spike Duplicate Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	136730	Analysis Time:	19:52	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	132713	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.04	ug/L	0.13		4.00	98	71 --- 117	12	21
cis-1,3-Dichloropropene	3.57	ug/L	BDL		4.00	89	66 --- 116	9	21
d8-Toluene	99.0	% Recovery			100	99.0	94 --- 105		7
Dibromochloromethane	3.61	ug/L	BDL		4.00	90	64 --- 115	13	23
Dibromofluoromethane	100	% Recovery			100	100	90 --- 108		7
Dibromomethane	3.70	ug/L	BDL		4.00	92	68 --- 111	10	21
Dichlorodifluoromethane	4.42	ug/L	BDL		4.00	110	68 --- 141	7	22
Diisopropyl ether	3.57	ug/L	BDL		4.00	89	57 --- 129	6	27
Ethylbenzene	4.03	ug/L	BDL		4.00	101	70 --- 128	7	24
Hexachlorobutadiene	4.23	ug/L	BDL		4.00	106	57 --- 146	9	30
Isopropylbenzene	4.04	ug/L	BDL		4.00	101	72 --- 131	9	24
m & p-Xylene	8.25	ug/L	BDL		8.00	103	70 --- 128	8	28
Methyl tert-butyl ether	3.42	ug/L	BDL		4.00	86	60 --- 116	6	33
Methylene chloride	3.22	ug/L	BDL		4.00	80	29 --- 139	16	36
n-Butylbenzene	4.18	ug/L	BDL		4.00	104	67 --- 136	4	24
n-Propylbenzene	4.17	ug/L	BDL		4.00	104	64 --- 143	2	23
Naphthalene	3.68	ug/L	BDL		4.00	92	58 --- 122	6	31
o-Xylene	3.80	ug/L	BDL		4.00	95	71 --- 123	9	26
p-Isopropyltoluene	4.27	ug/L	BDL		4.00	107	71 --- 135	2	27
sec-Butylbenzene	4.37	ug/L	BDL		4.00	109	71 --- 137	1	23
Styrene	3.81	ug/L	BDL		4.00	95	70 --- 125	9	40
tert-Butylbenzene	4.21	ug/L	BDL		4.00	105	70 --- 133	1	22
Tetrachloroethene	4.16	ug/L	BDL		4.00	104	75 --- 127	6	21
Tetrahydrofuran	32.5	ug/L	BDL		40.0	81	48 --- 111	17	28
Toluene	3.93	ug/L	BDL		4.00	98	71 --- 120	6	19
trans-1,2-Dichloroethene	3.84	ug/L	BDL		4.00	96	72 --- 121	10	28
trans-1,3-Dichloropropene	3.23	ug/L	BDL		4.00	81	69 --- 109	14	21
Trichloroethene	3.89	ug/L	BDL		4.00	97	73 --- 118	9	19
Trichlorofluoromethane	4.42	ug/L	BDL		4.00	110	75 --- 134	11	23
Vinyl acetate	35.6	ug/L	BDL		40.0	89	55 --- 127	10	25
Vinyl chloride	4.87	ug/L	0.98		4.00	97	61 --- 130	11	21

Matrix Spike Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	132713	Analysis Time:	19:24	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	131200	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.33	ug/L	BDL		4.00	108	67 --- 122		21
1,1,1-Trichloroethane	4.24	ug/L	BDL		4.00	106	69 --- 128		20
1,1,2,2-Tetrachloroethane	4.09	ug/L	BDL		4.00	102	54 --- 130		22
1,1,2-Trichloroethane	4.19	ug/L	BDL		4.00	105	67 --- 116		25
1,1-Dichloroethane	4.00	ug/L	BDL		4.00	100	64 --- 124		25
1,1-Dichloroethene	4.31	ug/L	BDL		4.00	108	70 --- 130		24
1,1-Dichloropropene	4.31	ug/L	BDL		4.00	108	74 --- 127		21
1,2-Dichloroethane-d4	102	% Recovery			100	102	86 --- 106		7
1,2,3-Trichlorobenzene	3.58	ug/L	BDL		4.00	90	56 --- 134		31
1,2,3-Trichloropropane	3.67	ug/L	BDL		4.00	92	54 --- 117		26
1,2,4-Trichlorobenzene	3.77	ug/L	BDL		4.00	94	56 --- 133		29
1,2,4-Trimethylbenzene	4.20	ug/L	BDL		4.00	105	63 --- 132		36
1,2-Dibromo-3-chloropropane	3.30	ug/L	BDL		4.00	82	48 --- 121		34
1,2-Dibromoethane	4.16	ug/L	BDL		4.00	104	66 --- 114		22
1,2-Dichlorobenzene	4.12	ug/L	BDL		4.00	103	63 --- 124		23
1,2-Dichloroethane	3.83	ug/L	BDL		4.00	96	60 --- 117		21
1,2-Dichloropropane	4.06	ug/L	BDL		4.00	102	67 --- 121		19
1,3,5-Trimethylbenzene	4.18	ug/L	BDL		4.00	104	68 --- 130		34
1,3-Dichlorobenzene	4.14	ug/L	BDL		4.00	104	66 --- 126		22
1,3-Dichloropropane	3.98	ug/L	BDL		4.00	100	67 --- 114		23
1,4-Dichlorobenzene	4.03	ug/L	BDL		4.00	101	65 --- 125		22
1,4-Dioxane	171	ug/L	BDL		200	86	19 --- 208		20
2,2-Dichloropropane	4.17	ug/L	BDL		4.00	104	57 --- 136		21
2-Butanone	41.0	ug/L	BDL		40.0	102	67 --- 110		29
2-Chlorotoluene	4.13	ug/L	BDL		4.00	103	61 --- 134		20
2-Hexanone	40.1	ug/L	BDL		40.0	100	51 --- 128		28
4-Chlorotoluene	4.15	ug/L	BDL		4.00	104	65 --- 129		22
4-Methyl-2-pentanone	39.1	ug/L	BDL		40.0	98	55 --- 125		29
Acetone	30.9	ug/L	BDL		40.0	77	41 --- 101		39
Benzene	4.14	ug/L	BDL		4.00	104	71 --- 120		17
Bromobenzene	4.19	ug/L	BDL		4.00	105	63 --- 129		20
Bromochloromethane	4.13	ug/L	BDL		4.00	103	69 --- 113		22
Bromodichloromethane	4.12	ug/L	BDL		4.00	103	66 --- 119		20
Bromofluorobenzene	98.0	% Recovery			100	98.0	75 --- 124		7
Bromoform	3.94	ug/L	BDL		4.00	98	57 --- 116		28
Bromomethane	3.81	ug/L	BDL		4.00	95	11 --- 144		34
Carbon disulfide	8.59	ug/L	BDL		8.00	107	62 --- 136		31
Carbon tetrachloride	4.34	ug/L	BDL		4.00	108	80 --- 133		20
Chlorobenzene	4.27	ug/L	BDL		4.00	107	69 --- 120		21
Chloroethane	4.33	ug/L	0.092		4.00	106	61 --- 129		26
Chloroform	4.10	ug/L	BDL		4.00	102	64 --- 121		18
Chloromethane	3.70	ug/L	BDL		4.00	92	58 --- 120		21

Matrix Spike Water

Analytical Run #:	150007	Analysis Date:	06/09/2018	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	132713	Analysis Time:	19:24	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	131200	Analyst:	RLD	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	4.56	ug/L	0.13		4.00	111	71 --- 117		21
cis-1,3-Dichloropropene	3.89	ug/L	BDL		4.00	97	66 --- 116		21
d8-Toluene	102	% Recovery			100	102	94 --- 105		7
Dibromochloromethane	4.09	ug/L	BDL		4.00	102	64 --- 115		23
Dibromofluoromethane	99.0	% Recovery			100	99.0	90 --- 108		7
Dibromomethane	4.07	ug/L	BDL		4.00	102	68 --- 111		21
Dichlorodifluoromethane	4.13	ug/L	BDL		4.00	103	68 --- 141		22
Diisopropyl ether	3.80	ug/L	BDL		4.00	95	57 --- 129		27
Ethylbenzene	4.33	ug/L	BDL		4.00	108	70 --- 128		24
Hexachlorobutadiene	3.86	ug/L	BDL		4.00	96	57 --- 146		30
Isopropylbenzene	4.44	ug/L	BDL		4.00	111	72 --- 131		24
m & p-Xylene	8.92	ug/L	BDL		8.00	112	70 --- 128		28
Methyl tert-butyl ether	3.65	ug/L	BDL		4.00	91	60 --- 116		33
Methylene chloride	3.79	ug/L	BDL		4.00	95	29 --- 139		36
n-Butylbenzene	4.35	ug/L	BDL		4.00	109	67 --- 136		24
n-Propylbenzene	4.26	ug/L	BDL		4.00	106	64 --- 143		23
Naphthalene	3.46	ug/L	BDL		4.00	86	58 --- 122		31
o-Xylene	4.16	ug/L	BDL		4.00	104	71 --- 123		26
p-Isopropyltoluene	4.35	ug/L	BDL		4.00	109	71 --- 135		27
sec-Butylbenzene	4.33	ug/L	BDL		4.00	108	71 --- 137		23
Styrene	4.18	ug/L	BDL		4.00	104	70 --- 125		40
tert-Butylbenzene	4.17	ug/L	BDL		4.00	104	70 --- 133		22
Tetrachloroethene	4.40	ug/L	BDL		4.00	110	75 --- 127		21
Tetrahydrofuran	38.5	ug/L	BDL		40.0	96	48 --- 111		28
Toluene	4.15	ug/L	BDL		4.00	104	71 --- 120		19
trans-1,2-Dichloroethene	4.23	ug/L	BDL		4.00	106	72 --- 121		28
trans-1,3-Dichloropropene	3.70	ug/L	BDL		4.00	92	69 --- 109		21
Trichloroethene	4.27	ug/L	BDL		4.00	107	73 --- 118		19
Trichlorofluoromethane	3.94	ug/L	BDL		4.00	98	75 --- 134		23
Vinyl acetate	39.2	ug/L	BDL		40.0	98	55 --- 127		25
Vinyl chloride	4.35	ug/L	0.98		4.00	84	61 --- 130		21

Sample Condition Report

Folder #: 136797	Print Date / Time: 06/08/2018 13:08
Client: TETRA TECH	Received Date / Time / By: 06/07/2018 12:12 BNA
Project Name: RIPON FF/NN LANDFILL	Log-In Date / Time / By: 06/07/2018 13:11 BNA
Project Phase: RIPON, WI	Project #: 117-2202061.01 PM: BMS
Coolers: 5868	Temperature: 2.2 C On Ice: Y
Custody Seals Present :	COC Present?: Y Complete?: Y
Seal Intact?	Numbers: N/A
Ship Method: FEDEX	Tracking Number: 772413388418
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131161 P-103D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131171 P-103	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131172 MW-103	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131173 MW-112	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131174 P-106

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131175 MW-107

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131176 P-107D

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131177 P-107

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131178 LC-1

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131179 MW-104

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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131180 LC-3

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131181 LC-2	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131189 P-111D	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131190 P-111D DUP	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131191 MW-3A	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131192 MW-3B	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131193 P-117	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131194 P-118	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

VOA HCL 1 / VOC
Total # of Containers of Type (VOA HCL) = 4

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131195 P-113B	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131196 P-113A	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131197 P-116	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131198 P-114	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131199 P-114 DUP	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131200 P-115	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 4			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
131201 TRIP BLANK				

Trip Blank	1	/	VOC
Trip Blank	1	/	VOC
Total # of Containers of Type	(Trip Blank) = 2		

<u>Condition Code</u>	<u>Condition Description</u>
1	Sample Received OK

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: 262-792-1282x226
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley A. Wagner

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To: Ashley.Wagner@tetrattech.com
 EMAIL: Mike.Noel@tetrattech.com
 cliveris@cityofripon.com lrich@cityofripon.com
 jeff.tracy@bisgroup.com

 Folder #: 136797
 Company: TETRA TECH
 Project: RIPON FF/NN LANDFIL
 Logged By: BNA PM: BM

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045
 Invoice To: * Ashley.Wagner@tetrattech.com
 EMAIL: Mike.Noel@tetrattech.com
 Company: Tetra Tech
 Address: Same as above

PO #

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
 Please provide GEMS report to Ashley.wagner@tetrattech.com

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	
	Low Level	VOCS													

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time																				
6/4/18	1025	GW	G	1	P-103 D	N	✓											4	131161		
	1635			2	P-103		✓											4	131171		
	1055			3	MW-103		✓											4	131172		
	1135			4	MW-112		✓											4	131173		
	1330			5	P-106		✓											4	131174		
	1425			6	MW-107		✓											4	131175		
	1435			7	P-107 D		✓											4	131176		
	1455			8	P-107		✓											4	131177		
	1525			9	LC-1		✓											4	131178		
	1540			10	MW-104		✓											4	131179 131179		
	1555			11	LC-3		✓											4	131180		
	1610			12	LC-2		✓											4	131181		

Relinquished By: *Ashley Wagner*
 Received by: _____

Date/Time: 6-6-18 1500
 Date/Time: _____

Received By: *[Signature]*
 Received for Laboratory by: *[Signature]*

Date/Time: 6-7-18 1212
 Date/Time: 6-7-18 1311

Lab Use Only
 Ice Present Yes No
 Temp 2.2 IR Gun 24
 Cooler # 5868

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: 262-792-1282x226
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley A. Wagner

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Lab Use Only
 Place Header Sticker Here:

136797

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

PO # _____

Report To: Ashley.Wagner@tetrattech.com
 EMAIL: Mike.Noel@tetrattech.com
 cliveris@cityofripon.com lrich@cityofripon.com
 jeff.tracy@bisgroup.com

Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045

Invoice To: * Ashley.Wagner@tetrattech.com
 EMAIL: Mike.Noel@tetrattech.com
 Company: Tetra Tech
 Address: Same as above

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions
 Please provide GEMS report to Ashley.wagner@tetrattech.com

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	
	Low Level	VOCs													

Turnaround Time
 Normal RUSH*
 Date Needed: _____

Rush analysis requires prior CT Laboratories' approval

Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test												CT Lab ID # <i>Lab use only</i>
Date	Time																		
6-5-18	935	GW	G	13	P-111 D	N	✓											4	131189
	940			14	P-111 D Dup		✓											4	131190
	1035			15	MW-3A		✓											4	131191
	1045			16	MW-3B		✓											4	131192
	1120			17	P-117		✓											4	131193
	1150			18	P-118		✓											4	131194
	1225			19	P-113B		✓											4	131195
	1245			20	P-113A		✓											4	131196
	1335			21	P-116		✓												131197
	1410			22	P-114		✓												131198
	1415			23	P-114 Dup		✓												131199
	1445			24	P-115		✓												131200

Relinquished By: *Ashley Wagner*
 Received by: _____

Date/Time: 6-6-18 1500
 Date/Time: _____

Received By: *Ben*
 Received for Laboratory by: *Ben*

Date/Time: 6-7-18 1212
 Date/Time: 6-7-18 1311

Lab Use Only
 Ice Present Yes No
 Temp 2.2 IR Gun 24
 Cooler # 5868

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: 262-792-1282x226
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley A. Wagner

CT LABORATORIES

Lab Use Only
Place Header Sticker Here:

136797

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

PO # _____

Report To: Ashley.Wagner@tetratech.com
 EMAIL: Mike.Noel@tetratech.com
 cliveris@cityofripon.com lrich@cityofripon.com
 jeff.tracy@bisgroup.com

Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045

Invoice To: * Ashley.Wagner@tetratech.com
 EMAIL: Mike.Noel@tetratech.com
 Company: Tetra Tech
 Address: Same as above

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

Client Special Instructions
 Please provide GEMS report to Ashley.wagner@tetratech.com

Filtered? Y/N	ANALYSES REQUESTED															Total # Containers	Designated MS/MSD
	Low Level VOCs																

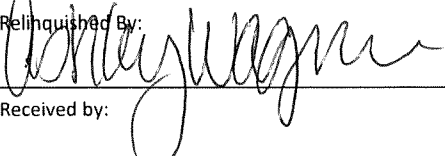
Turnaround Time
 Normal RUSH*
 Date Needed: _____

Rush analysis requires prior CT Laboratories' approval

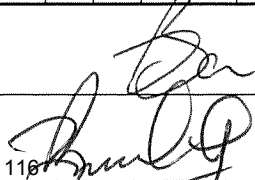
Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered?	Fill in Spaces with Bottles per Test															CT Lab ID # <i>Lab use only</i>
Date	Time						Low Level VOCs															
—	—	GW DI	G	—	Trip Blank	N	2	Lab prepared										2	131201			

Relinquished By: 
 Received by: _____

Date/Time: 6-6-18 1500
 Date/Time: _____

Received By: 
 Received for Laboratory by: _____

Date/Time: 6-7-18 1212
 Date/Time: 6-7-18 1311

Lab Use Only
 Ice Present Yes No
 Temp 2.2 IR Gun 24
 Cooler # 5868

FROM: (252) 792-1282
 Ashley Wagner
 Tetra Tech
 175 N CORPORATE DRIVE
 STE 100
 BROOKFIELD WI 53045
 US

SHIP DATE: 06 JUN 18
 ACT WGT: 45.00 LB
 CAD: 1104355NINET3980
 BILL SENDER

TO: Brett Szymanski
 CT LABORATORIES
 1230 Lange Court

BARABOO WI 53913
 (608) 356-2766

REF 117-2202061 01

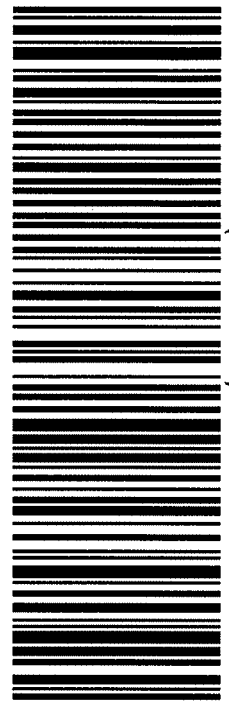
PO: INV: DEPT:

(US)
 552J148E5/DCA5



TRK# 7724 1338 8418

9622 0019 0 (000 000 0000) 0 00 7724 1338 8418



53913

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

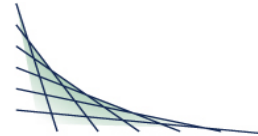
Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Ice Present Yes No
 Temperature 2.2
 Initials BA
 Date 6-7-18 Time 1212
 Cooler # 5868

CT LABORATORIES

delivering more than data from your environmental analyses



ANALYTICAL REPORT

This report at a minimum contains the following information:

- Analytical Report of Test Results
- Description of QC Qualifiers
- Chain of Custody (copy)
- Quality Control Summary
- Case Narrative (if applicable)
- Correspondence with Client (if applicable)

ANALYTICAL REPORT

TETRA TECH
 ASHLEY WAGNER
 175 N. CORPORATE DR.
 SUITE 100
 BROOKFIELD, WI 53045

Project Name: RIPON FF/NN LANDFILL
 Project Phase: RIPON, WI
 Contract #: 3183
 Project #: 117-2202061.01
 Folder #: 136846
 Purchase Order #:

Page 1 of 4
 Arrival Temperature: 2.2
 Report Date: 06/12/2018
 Date Received: 06/08/2018
 Reprint Date: 06/29/2018

CT LAB Sample#: 132159	Sample Description: ROHDE	License/Well #: 467/207	Sampled: 06/04/2018 1400
------------------------	---------------------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
OX/REDOX (Field)	0.59	MV	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Color (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Odor (Field)	NONE		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
pH (Field)	7.81	S.U.	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Temperature (Field)	15.28	Deg. C	N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Turbidity (Field)	CLEAR		N/A	N/A	1		06/05/2018 00:00	06/05/2018 00:00	BMS	FIELD
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 132159 Sample Description: ROHDE

License/Well #: 467/207

Sampled: 06/04/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1			06/10/2018 11:28	AGK	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1			06/10/2018 11:28	AGK	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1			06/10/2018 11:28	AGK	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1			06/10/2018 11:28	AGK	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1			06/10/2018 11:28	AGK	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1			06/10/2018 11:28	AGK	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1			06/10/2018 11:28	AGK	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			06/10/2018 11:28	AGK	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1			06/10/2018 11:28	AGK	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1			06/10/2018 11:28	AGK	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1			06/10/2018 11:28	AGK	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1			06/10/2018 11:28	AGK	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1			06/10/2018 11:28	AGK	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1			06/10/2018 11:28	AGK	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1			06/10/2018 11:28	AGK	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1			06/10/2018 11:28	AGK	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1			06/10/2018 11:28	AGK	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1			06/10/2018 11:28	AGK	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1			06/10/2018 11:28	AGK	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1			06/10/2018 11:28	AGK	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1			06/10/2018 11:28	AGK	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1			06/10/2018 11:28	AGK	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1			06/10/2018 11:28	AGK	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1			06/10/2018 11:28	AGK	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1			06/10/2018 11:28	AGK	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 132159 Sample Description: ROHDE

License/Well #: 467/207

Sampled: 06/04/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1		06/10/2018 11:28	06/10/2018 11:28	AGK	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski
Project Manager
608-356-2760

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

QC SUMMARY REPORT

TETRA TECH

Project Name: RIPON FF/NN LANDFILL

SDG #: 0

Folder #: 136846

Project #: 117-2202061.01

Duplicate

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	DRINKING WATER
CTLab #:	132722	Analysis Time:	11:57	Prep Date/Time:	Method:	524
Parent Sample #:	132159	Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.170	ug/L	0	U				0	20
1,1,1-Trichloroethane	0.170	ug/L	0	U				0	20
1,1,2,2-Tetrachloroethane	0.170	ug/L	0	U				0	20
1,1,2-Trichloroethane	0.170	ug/L	0	U				0	20
1,1-Dichloroethane	0.170	ug/L	0	U				0	20
1,1-Dichloroethene	0.170	ug/L	0	U				0	20
1,1-Dichloropropene	0.170	ug/L	0	U				0	20
1,2,3-Trichlorobenzene	0.170	ug/L	0	U				0	20
1,2,3-Trichloropropane	0.170	ug/L	0	U				0	20
1,2,4-Trichlorobenzene	0.170	ug/L	0	U				0	20
1,2,4-Trimethylbenzene	0.170	ug/L	0	U				0	20
1,2-Dichlorobenzene	0.170	ug/L	0	U				0	20
1,2-Dichlorobenzene-d4	107	% Recovery			100	107	80 --- 120		
1,2-Dichloroethane	0.170	ug/L	0	U				0	20
1,2-Dichloropropane	0.170	ug/L	0	U				0	20
1,3,5-Trimethylbenzene	0.170	ug/L	0	U				0	20
1,3-Dichlorobenzene	0.170	ug/L	0	U				0	20
1,3-Dichloropropane	0.170	ug/L	0	U				0	20
1,4-Dichlorobenzene	0.170	ug/L	0	U				0	20
2,2-Dichloropropane	0.170	ug/L	0	U				0	20
2-Chlorotoluene	0.170	ug/L	0	U				0	20
4-Chlorotoluene	0.170	ug/L	0	U				0	20
Benzene	0.170	ug/L	0	U				0	20
Bromobenzene	0.170	ug/L	0	U				0	20
Bromochloromethane	0.170	ug/L	0	U				0	20
Bromodichloromethane	0.170	ug/L	0	U				0	20
Bromofluorobenzene	94.0	% Recovery			100	94.0	80 --- 120		
Bromoform	0.170	ug/L	0	U				0	20
Bromomethane	0.170	ug/L	0	U				0	20
Carbon tetrachloride	0.170	ug/L	0	U				0	20
Chlorobenzene	0.170	ug/L	0	U				0	20
Chlorodibromomethane	0.170	ug/L	0	U				0	20
Chloroethane	0.170	ug/L	0	U				0	20
Chloroform	0.170	ug/L	0	U				0	20
Chloromethane	0.170	ug/L	0	U				0	20

Duplicate

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	DRINKING WATER
CTLab #:	132722	Analysis Time:	11:57	Prep Date/Time:	Method:	524
Parent Sample #:	132159	Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	0.170	ug/L	0	U				0	20
cis-1,3-Dichloropropene	0.170	ug/L	0	U				0	20
Dibromomethane	0.170	ug/L	0	U				0	20
Dichlorodifluoromethane	0.170	ug/L	0	U				0	20
Ethylbenzene	0.170	ug/L	0	U				0	20
Hexachlorobutadiene	0.170	ug/L	0	U				0	20
Isopropylbenzene	0.170	ug/L	0	U				0	20
Methyl tert-butyl ether	0.170	ug/L	0	U				0	20
Methylene chloride	0.170	ug/L	0	U				0	20
n-Butylbenzene	0.170	ug/L	0	U				0	20
n-Propylbenzene	0.170	ug/L	0	U				0	20
Naphthalene	0.170	ug/L	0	U				0	20
p-Isopropyltoluene	0.170	ug/L	0	U				0	20
sec-Butylbenzene	0.170	ug/L	0	U				0	20
Styrene	0.170	ug/L	0	U				0	20
tert-Butylbenzene	0.170	ug/L	0	U				0	20
Tetrachloroethene	0.170	ug/L	0	U				0	20
Toluene	0.170	ug/L	0	U				0	20
trans-1,2-Dichloroethene	0.170	ug/L	0	U				0	20
trans-1,3-Dichloropropene	0.170	ug/L	0	U				0	20
Trichloroethene	0.170	ug/L	0	U				0	20
Trichlorofluoromethane	0.170	ug/L	0	U				0	20
Vinyl chloride	0.170	ug/L	0	U				0	20

Lab Control Spike Water

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132719	Analysis Time:	08:58	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	3.85	ug/L			4.00	96	80 --- 120		20
1,1,1-Trichloroethane	4.13	ug/L			4.00	103	80 --- 120		20
1,1,2,2-Tetrachloroethane	3.75	ug/L			4.00	94	80 --- 120		20
1,1,2-Trichloroethane	4.09	ug/L			4.00	102	80 --- 120		20
1,1-Dichloroethane	4.10	ug/L			4.00	102	80 --- 120		20
1,1-Dichloroethene	4.15	ug/L			4.00	104	80 --- 120		20
1,1-Dichloropropene	4.11	ug/L			4.00	103	80 --- 120		20
1,2,3-Trichlorobenzene	4.07	ug/L			4.00	102	80 --- 120		20
1,2,3-Trichloropropane	3.93	ug/L			4.00	98	80 --- 120		20
1,2,4-Trichlorobenzene	4.02	ug/L			4.00	100	80 --- 120		20
1,2,4-Trimethylbenzene	4.07	ug/L			4.00	102	80 --- 120		20
1,2-Dichlorobenzene	3.80	ug/L			4.00	95	80 --- 120		20
1,2-Dichlorobenzene-d4	99.0	% Recovery			100	99.0	80 --- 120		20
1,2-Dichloroethane	4.02	ug/L			4.00	100	80 --- 120		20
1,2-Dichloropropane	4.14	ug/L			4.00	104	80 --- 120		20
1,3,5-Trimethylbenzene	3.96	ug/L			4.00	99	80 --- 120		20
1,3-Dichlorobenzene	4.03	ug/L			4.00	101	80 --- 120		20
1,3-Dichloropropane	4.08	ug/L			4.00	102	80 --- 120		20
1,4-Dichlorobenzene	3.67	ug/L			4.00	92	80 --- 120		20
2,2-Dichloropropane	4.13	ug/L			4.00	103	80 --- 120		20
2-Chlorotoluene	3.98	ug/L			4.00	100	80 --- 120		20
4-Chlorotoluene	4.07	ug/L			4.00	102	80 --- 120		20
Benzene	4.05	ug/L			4.00	101	80 --- 120		20
Bromobenzene	3.72	ug/L			4.00	93	80 --- 120		20
Bromochloromethane	4.30	ug/L			4.00	108	80 --- 120		20
Bromodichloromethane	4.13	ug/L			4.00	103	80 --- 120		20
Bromofluorobenzene	98.0	% Recovery			100	98.0	80 --- 120		20
Bromoform	3.96	ug/L			4.00	99	80 --- 120		20
Bromomethane	3.34	ug/L			4.00	84	80 --- 120		20
Carbon tetrachloride	4.34	ug/L			4.00	108	80 --- 120		20
Chlorobenzene	4.09	ug/L			4.00	102	80 --- 120		20
Chlorodibromomethane	4.15	ug/L			4.00	104	80 --- 120		20
Chloroethane	3.97	ug/L			4.00	99	80 --- 120		20
Chloroform	3.84	ug/L			4.00	96	80 --- 120		20
Chloromethane	3.79	ug/L			4.00	95	80 --- 120		20
cis-1,2-Dichloroethene	4.30	ug/L			4.00	108	80 --- 120		20
cis-1,3-Dichloropropene	3.95	ug/L			4.00	99	80 --- 120		20
Dibromomethane	4.37	ug/L			4.00	109	80 --- 120		20
Dichlorodifluoromethane	4.08	ug/L			4.00	102	80 --- 120		20
Ethylbenzene	3.90	ug/L			4.00	98	80 --- 120		20
Hexachlorobutadiene	4.17	ug/L			4.00	104	80 --- 120		20
Isopropylbenzene	4.14	ug/L			4.00	104	80 --- 120		20

Lab Control Spike Water

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132719	Analysis Time:	08:58	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	3.85	ug/L			4.00	96	80 --- 120		20
Methylene chloride	3.35	ug/L			4.00	84	80 --- 120		20
n-Butylbenzene	3.94	ug/L			4.00	98	80 --- 120		20
n-Propylbenzene	3.87	ug/L			4.00	97	80 --- 120		20
Naphthalene	3.77	ug/L			4.00	94	80 --- 120		20
p-Isopropyltoluene	3.89	ug/L			4.00	97	80 --- 120		20
sec-Butylbenzene	3.93	ug/L			4.00	98	80 --- 120		20
Styrene	4.10	ug/L			4.00	102	80 --- 120		20
tert-Butylbenzene	3.93	ug/L			4.00	98	80 --- 120		20
Tetrachloroethene	4.30	ug/L			4.00	108	80 --- 120		20
Toluene	4.17	ug/L			4.00	104	80 --- 120		20
trans-1,2-Dichloroethene	4.21	ug/L			4.00	105	80 --- 120		20
trans-1,3-Dichloropropene	4.28	ug/L			4.00	107	80 --- 120		20
Trichloroethene	4.04	ug/L			4.00	101	80 --- 120		20
Trichlorofluoromethane	4.18	ug/L			4.00	104	80 --- 120		20
Vinyl chloride	4.04	ug/L			4.00	101	80 --- 120		20

Method Blank Water

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132721	Analysis Time:	09:58	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.3	ug/L		U	0		0.3		
1,1,1-Trichloroethane	0.28	ug/L		U	0		0.28		
1,1,2,2-Tetrachloroethane	0.5	ug/L		U	0		0.5		
1,1,2-Trichloroethane	0.4	ug/L		U	0		0.4		
1,1-Dichloroethane	0.28	ug/L		U	0		0.28		
1,1-Dichloroethene	0.3	ug/L		U	0		0.3		
1,1-Dichloropropene	0.3	ug/L		U	0		0.3		
1,2,3-Trichlorobenzene	0.5	ug/L		U	0		0.5		
1,2,3-Trichloropropane	0.25	ug/L		U	0		0.25		
1,2,4-Trichlorobenzene	0.4	ug/L		U	0		0.4		
1,2,4-Trimethylbenzene	0.3	ug/L		U	0		0.3		
1,2-Dichlorobenzene	0.4	ug/L		U	0		0.4		
1,2-Dichlorobenzene-d4	104	% Recovery			100	104	80 ---	120	
1,2-Dichloroethane	0.23	ug/L		U	0		0.23		
1,2-Dichloropropane	0.3	ug/L		U	0		0.3		
1,3,5-Trimethylbenzene	0.29	ug/L		U	0		0.29		
1,3-Dichlorobenzene	0.26	ug/L		U	0		0.26		
1,3-Dichloropropane	0.3	ug/L		U	0		0.3		
1,4-Dichlorobenzene	0.29	ug/L		U	0		0.29		
2,2-Dichloropropane	0.4	ug/L		U	0		0.4		
2-Chlorotoluene	0.3	ug/L		U	0		0.3		
4-Chlorotoluene	0.4	ug/L		U	0		0.4		
Benzene	0.26	ug/L		U	0		0.26		
Bromobenzene	0.4	ug/L		U	0		0.4		
Bromochloromethane	0.4	ug/L		U	0		0.4		
Bromodichloromethane	0.24	ug/L		U	0		0.24		
Bromofluorobenzene	97.0	% Recovery			100	97.0	80 ---	120	
Bromoform	0.4	ug/L		U	0		0.4		
Bromomethane	0.4	ug/L		U	0		0.4		
Carbon tetrachloride	0.28	ug/L		U	0		0.28		
Chlorobenzene	0.25	ug/L		U	0		0.25		
Chlorodibromomethane	0.4	ug/L		U	0		0.4		
Chloroethane	0.4	ug/L		U	0		0.4		
Chloroform	0.23	ug/L		U	0		0.23		
Chloromethane	0.19	ug/L		U	0		0.19		
cis-1,2-Dichloroethene	0.28	ug/L		U	0		0.28		
cis-1,3-Dichloropropene	0.22	ug/L		U	0		0.22		
Dibromomethane	0.3	ug/L		U	0		0.3		
Dichlorodifluoromethane	0.3	ug/L		U	0		0.3		
Ethylbenzene	0.27	ug/L		U	0		0.27		
Hexachlorobutadiene	0.4	ug/L		U	0		0.4		
Isopropylbenzene	0.29	ug/L		U	0		0.29		

Method Blank Water

Analytical Run #:	150044	Analysis Date:	06/10/2018	Prep Batch #:	Matrix:	LIQUID
CTLab #:	132721	Analysis Time:	09:58	Prep Date/Time:	Method:	524
Parent Sample #:		Analyst:	AGK	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.26	ug/L		U	0		0.26		
Methylene chloride	0.30	ug/L		U	0		0.30		
n-Butylbenzene	0.3	ug/L		U	0		0.3		
n-Propylbenzene	0.26	ug/L		U	0		0.26		
Naphthalene	0.5	ug/L		U	0		0.5		
p-Isopropyltoluene	0.25	ug/L		U	0		0.25		
sec-Butylbenzene	0.26	ug/L		U	0		0.26		
Styrene	0.3	ug/L		U	0		0.3		
tert-Butylbenzene	0.24	ug/L		U	0		0.24		
Tetrachloroethene	0.26	ug/L		U	0		0.26		
Toluene	0.25	ug/L		U	0		0.25		
trans-1,2-Dichloroethene	0.23	ug/L		U	0		0.23		
trans-1,3-Dichloropropene	0.28	ug/L		U	0		0.28		
Trichloroethene	0.3	ug/L		U	0		0.3		
Trichlorofluoromethane	0.24	ug/L		U	0		0.24		
Vinyl chloride	0.17	ug/L		U	0		0.17		

Sample Condition Report

Folder #: 136846	Print Date / Time: 06/08/2018 13:11
Client: TETRA TECH	Received Date / Time / By: 06/07/2018 12:12 BNA
Project Name: RIPON FF/NN LANDFILL	Log-In Date / Time / By: 06/07/2018 13:11 BNA
Project Phase: RIPON, WI	Project #: 117-2202061.01 PM: BMS
Coolers: 5868	Temperature: 2.2 C On Ice: Y
Custody Seals Present :	COC Present?: Y Complete?: Y
Seal Intact?	Numbers: N/A
Ship Method: FEDEX	Tracking Number: 772413388418
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: THE SAMPLE WAS RECEIVED IN GOOD CONDITION ON ICE.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
132159 ROHDE	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type (VOA HCL) = 3			

<u>Condition Code</u>	<u>Condition Description</u>
1	Sample Received OK

Company: Tetra Tech
 Project Contact: Ashley Wagner
 Telephone: 262-792-1282x226
 Project Name: Ripon FF/NN Landfill
 Project #: 117-2202061.01
 Location: Ripon, WI
 Sampled By: Ashley A. Wagner

CT LABORATORIES

 Folder #: 136846
 Company: TETRA TECH
 Project: RIPON FF/NN LANDFIL
 Logged By: JLS PM: BM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com
 Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO #

Report To: Ashley.Wagner@tetratech.com
 EMAIL: Mike.Noel@tetratech.com
 cliveris@cityofripon.com lrich@cityofripon.com
 jeff.tracy@bisgroup.com
 Company: Tetra Tech
 Address: 175 N. Corporate Dr. Suite 100
 Brookfield, WI 53045
Invoice To:* Ashley.Wagner@tetratech.com
 EMAIL: Mike.Noel@tetratech.com
 Company: Tetra Tech
 Address: Same as above
 *Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
 Please provide GEMS report to Ashley.wagner@tetratech.com

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD	
	1	2	3	4	5	6	7	8	9	10	11	12			
N														3	

Handwritten notes in table: AW, VOC 524.2

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time						1	2	3	4	5	6	7	8	9	10	11	12			
6-4-18	1400	GW	G	1	Ronde	N												3	131149 132159		

Relinquished By: *[Signature]*
 Received by: *[Signature]*

Date/Time: 6-6-18 1500
 Date/Time:

Received By: *[Signature]*
 Received for Laboratory by: *[Signature]*

Date/Time: 6-7-18 1212
 Date/Time: 6-7-18 1311

Lab Use Only
 Ice Present Yes No
 Temp 2.2 IR Gun 24
 Cooler # 5868

FROM: (252) 792-1282
 Ashley Wagner
 Tetra Tech
 175 N CORPORATE DRIVE
 STE 100
 BROOKFIELD WI 53045
 US

SHIP DATE: 06 JUN 18
 ACT WT: 45.00 LB
 CAD: 1104355NINET3980
 BILL SENDER

TO: Brett Szymanski
 CT LABORATORIES
 1230 Lange Court

BARABOO WI 53913
 (608) 356-2766

REF 117-2202061 01

PO: INV: DEPT:

(US)

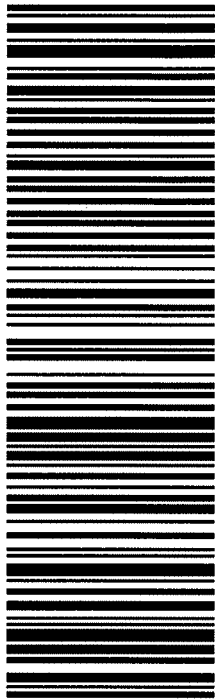
552J148E5/DCA5



TRK# 7724 1338 8418

53913

9622 0019 0 (000 000 0000) 0 00 7724 1338 8418



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Ice Present Yes No
 Temperature 2.2
 Initials BA
 Date 6-7-18 Time 1212
 Cooler # 5868



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

August 10, 2018

Dennis Linley
CT Laboratories
1230 Lange Court
Baraboo, WI 53913

RE: FF/NN Landfill / 117-2202061.01

Dear Dennis:

Your report number P1802966 has been amended for the samples submitted to our laboratory on June 8, 2018. The data was re-processed to add Trichloroethene to the list of analytes. The affected pages have been indicated by the "Revised Page" footer located at the bottom right of each page.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 12:50 pm, Aug 10, 2018

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: CT Laboratories
Project: FF/NN Landfill / 117-2202061.01

Service Request No: P1802966

CASE NARRATIVE

The samples were received intact under chain of custody on June 8, 2018 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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 Simi Valley, CA 93065
 T: +1 805 526 7161
 F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1347317
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-005
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-17-8
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 7-8
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: CT Laboratories
 Project ID: FF/NN Landfill / 117-2202061.01

Service Request: P1802966

Date Received: 6/8/2018
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
LC-1	P1802966-001	Air	6/6/2018	10:33	1SS00164	-2.54	5.43	X
LC-2	P1802966-002	Air	6/6/2018	10:37	1SS00584	-2.24	6.19	X
LC-3	P1802966-003	Air	6/6/2018	10:31	1SC01379	-1.58	6.42	X
GV-6	P1802966-004	Air	6/6/2018	10:36	1SC01248	-1.94	5.19	X
GP-3	P1802966-005	Air	6/6/2018	10:27	1SS00047	-2.50	5.46	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard

ALS Project No. 1802965

Company Name & Address (Reporting Information)
Tetra Tech Geo
175 Corporate Drive Suite 100
Brockfield, WI

Project Manager
Mike Noel

Phone **262-792-1282** Fax _____

Email Address for Result Reporting _____

Project Name
FF/NN Landfill

Project Number
117-220201.01

P.O. # / Billing Information
Jeff Tracy
Cooper Industries
Houston, TX

Sampler (Print & Sign)
McKala Kiessling

ALS Contact: _____

Analysis Method _____

Comments
e.g. Actual
Preservative
or
specific
instructions

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure *Hg	Canister End Pressure *Hg/psig	Sample Volume		
LC-1	420020370	6-6-18	0930-1033	ISS00164	0A00189	-28.61	-5	1 L	TO-14+39 VOC's	
LC-2	420020370	6-6-18	0934-1037	ISS00584	0A02004	-28.59	-7	1 L	TO-14+39 VOC's	
LC-3	420020370	6-6-18	0928-1031	ISS01379	0A00195	-28.79	-6	1 L	TO-14+39 VOC's	
GV-6	420020370	6-6-18	0933-1036	ISS01248	0A02120	-28.75	-5	1 L	TO-14+39 VOC's	
GP-3	420020370	6-6-18	0927-1027	ISS00047	0A00553	-29.16	-5	1 L	TO-14+39 VOC's	

1
2
3
5 of 23
4

Report Tier Levels - please select
 Tier I - Results (Default in not specified) _____
 Tier II (Results + QC Summaries) _____
 Tier III (Results + QC & Calibration Summaries) _____
 Tier IV (Date Validation Package) 10% Surcharge _____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) McKala Date: 6-6-18 Time: 1125
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: 6/8/18 Time: 0730
 Received by: (Signature) _____ Date: _____ Time: _____

Cooler / Blank Temperature _____ °C

ALS Environmental Sample Acceptance Check Form

Client: CT Laboratories

Work order: P1802966

Project: FF/NN Landfill / 117-2202064.01

Sample(s) received on: 6/8/18

Date opened: 6/8/18

by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1802966-001.01	1.0 L Source Silonite Canister					
P1802966-002.01	1.0 L Source Silonite Canister					
P1802966-003.01	1.0 L Source Can					
P1802966-004.01	1.0 L Source Can					
P1802966-005.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories
Client Sample ID: LC-1
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00164

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 5.43

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	12	2.2	2.4	0.44	
74-87-3	Chloromethane	ND	2.1	ND	1.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	3.5	2.1	0.50	0.30	
75-01-4	Vinyl Chloride	ND	2.2	ND	0.84	
74-83-9	Bromomethane	ND	2.1	ND	0.53	
75-00-3	Chloroethane	ND	2.1	ND	0.80	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.2	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.55	
75-09-2	Methylene Chloride	ND	2.2	ND	0.63	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.2	ND	0.29	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ND	0.57	
75-34-3	1,1-Dichloroethane	ND	2.1	ND	0.52	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	ND	0.62	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ND	0.55	
110-54-3	n-Hexane	3.7	2.2	1.1	0.62	
67-66-3	Chloroform	ND	2.2	ND	0.45	
107-06-2	1,2-Dichloroethane	ND	2.2	ND	0.54	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ND	0.41	
71-43-2	Benzene	ND	2.2	ND	0.69	
56-23-5	Carbon Tetrachloride	ND	2.2	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: LC-1
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00164

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 5.43

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	2.2	ND	0.48	
79-01-6	Trichloroethene	ND	2.2	ND	0.41	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ND	0.51	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ND	0.48	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ND	0.40	
108-88-3	Toluene	ND	2.2	ND	0.58	
106-93-4	1,2-Dibromoethane	ND	2.2	ND	0.29	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.32	
108-90-7	Chlorobenzene	ND	2.2	ND	0.48	
100-41-4	Ethylbenzene	ND	2.2	ND	0.51	
179601-23-1	m,p-Xylenes	ND	4.6	ND	1.1	
100-42-5	Styrene	ND	2.2	ND	0.52	
95-47-6	o-Xylene	ND	2.2	ND	0.51	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	ND	0.44	
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	ND	0.45	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ND	0.37	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	ND	0.31	
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories
Client Sample ID: LC-2
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00584

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.19

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	48	2.2	9.6	0.44	
74-87-3	Chloromethane	ND	2.1	ND	1.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	35	2.1	5.1	0.31	
75-01-4	Vinyl Chloride	66	2.2	26	0.85	
74-83-9	Bromomethane	ND	2.1	ND	0.54	
75-00-3	Chloroethane	11	2.1	4.3	0.81	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.2	ND	0.40	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.56	
75-09-2	Methylene Chloride	ND	2.2	ND	0.64	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.2	ND	0.29	
156-60-5	trans-1,2-Dichloroethene	ND	2.3	ND	0.57	
75-34-3	1,1-Dichloroethane	ND	2.1	ND	0.53	
1634-04-4	Methyl tert-Butyl Ether	ND	2.3	ND	0.63	
156-59-2	cis-1,2-Dichloroethene	54	2.2	14	0.56	
110-54-3	n-Hexane	150	2.2	44	0.63	
67-66-3	Chloroform	ND	2.2	ND	0.46	
107-06-2	1,2-Dichloroethane	ND	2.2	ND	0.55	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ND	0.42	
71-43-2	Benzene	26	2.2	8.0	0.70	
56-23-5	Carbon Tetrachloride	ND	2.2	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: LC-2
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00584

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.19

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	2.2	ND	0.48	
79-01-6	Trichloroethene	2.8	2.2	0.52	0.41	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ND	0.52	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ND	0.49	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ND	0.41	
108-88-3	Toluene	69	2.2	18	0.59	
106-93-4	1,2-Dibromoethane	ND	2.2	ND	0.29	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.33	
108-90-7	Chlorobenzene	9.6	2.2	2.1	0.48	
100-41-4	Ethylbenzene	11	2.2	2.5	0.51	
179601-23-1	m,p-Xylenes	73	4.6	17	1.1	
100-42-5	Styrene	ND	2.2	ND	0.52	
95-47-6	o-Xylene	3.2	2.2	0.74	0.51	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	ND	0.44	
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	ND	0.45	
541-73-1	1,3-Dichlorobenzene	ND	2.3	ND	0.38	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.37	
95-50-1	1,2-Dichlorobenzene	ND	2.3	ND	0.38	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	ND	0.31	
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: CT Laboratories
Client Sample ID: LC-3
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01379

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -1.58 Final Pressure (psig): 6.42

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1,500	56	310	11	
74-87-3	Chloromethane	ND	54	ND	26	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	810	55	120	7.8	
75-01-4	Vinyl Chloride	9,900	56	3,900	22	
74-83-9	Bromomethane	ND	54	ND	14	
75-00-3	Chloroethane	90	55	34	21	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	57	ND	10	
75-35-4	1,1-Dichloroethene	120	57	30	14	
75-09-2	Methylene Chloride	120	57	35	16	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	57	ND	7.4	
156-60-5	trans-1,2-Dichloroethene	64	58	16	15	
75-34-3	1,1-Dichloroethane	ND	55	ND	14	
1634-04-4	Methyl tert-Butyl Ether	ND	58	ND	16	
156-59-2	cis-1,2-Dichloroethene	7,700	57	1,900	14	
110-54-3	n-Hexane	2,000	57	550	16	
67-66-3	Chloroform	ND	57	ND	12	
107-06-2	1,2-Dichloroethane	ND	57	ND	14	
71-55-6	1,1,1-Trichloroethane	ND	58	ND	11	
71-43-2	Benzene	340	57	110	18	
56-23-5	Carbon Tetrachloride	ND	57	ND	9.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: LC-3
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01379

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -1.58 Final Pressure (psig): 6.42

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	57	ND	12	
79-01-6	Trichloroethene	320	57	60	11	
10061-01-5	cis-1,3-Dichloropropene	ND	60	ND	13	
10061-02-6	trans-1,3-Dichloropropene	ND	57	ND	13	
79-00-5	1,1,2-Trichloroethane	ND	57	ND	10	
108-88-3	Toluene	6,100	57	1,600	15	
106-93-4	1,2-Dibromoethane	ND	57	ND	7.4	
127-18-4	Tetrachloroethene	ND	57	ND	8.4	
108-90-7	Chlorobenzene	ND	57	ND	12	
100-41-4	Ethylbenzene	250	57	57	13	
179601-23-1	m,p-Xylenes	520	120	120	27	
100-42-5	Styrene	ND	57	ND	13	
95-47-6	o-Xylene	ND	57	ND	13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	57	ND	8.3	
108-67-8	1,3,5-Trimethylbenzene	ND	56	ND	11	
95-63-6	1,2,4-Trimethylbenzene	ND	57	ND	12	
541-73-1	1,3-Dichlorobenzene	ND	58	ND	9.6	
106-46-7	1,4-Dichlorobenzene	ND	57	ND	9.5	
95-50-1	1,2-Dichlorobenzene	ND	58	ND	9.6	
120-82-1	1,2,4-Trichlorobenzene	ND	59	ND	8.0	
87-68-3	Hexachlorobutadiene	ND	57	ND	5.3	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories
Client Sample ID: GV-6
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01248

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 5.19

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	69	2.0	14	0.41	
74-87-3	Chloromethane	ND	2.0	ND	0.94	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	47	2.0	6.8	0.28	
75-01-4	Vinyl Chloride	27	2.0	11	0.79	
74-83-9	Bromomethane	ND	2.0	ND	0.50	
75-00-3	Chloroethane	3.1	2.0	1.2	0.75	
75-69-4	Trichlorofluoromethane (CFC 11)	2.4	2.1	0.43	0.37	
75-35-4	1,1-Dichloroethene	ND	2.1	ND	0.52	
75-09-2	Methylene Chloride	ND	2.1	ND	0.60	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.1	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	ND	0.53	
75-34-3	1,1-Dichloroethane	ND	2.0	ND	0.49	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	ND	0.58	
156-59-2	cis-1,2-Dichloroethene	3.5	2.1	0.88	0.52	
110-54-3	n-Hexane	2.7	2.1	0.77	0.59	
67-66-3	Chloroform	ND	2.1	ND	0.42	
107-06-2	1,2-Dichloroethane	ND	2.1	ND	0.51	
71-55-6	1,1,1-Trichloroethane	ND	2.1	ND	0.39	
71-43-2	Benzene	ND	2.1	ND	0.65	
56-23-5	Carbon Tetrachloride	ND	2.1	ND	0.33	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: GV-6
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01248

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 5.19

Container Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	2.1	ND	0.45	
79-01-6	Trichloroethene	ND	2.1	ND	0.38	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ND	0.48	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ND	0.46	
79-00-5	1,1,2-Trichloroethane	ND	2.1	ND	0.38	
108-88-3	Toluene	3.1	2.1	0.83	0.55	
106-93-4	1,2-Dibromoethane	ND	2.1	ND	0.27	
127-18-4	Tetrachloroethene	ND	2.1	ND	0.30	
108-90-7	Chlorobenzene	ND	2.1	ND	0.45	
100-41-4	Ethylbenzene	ND	2.1	ND	0.48	
179601-23-1	m,p-Xylenes	ND	4.3	ND	0.99	
100-42-5	Styrene	ND	2.1	ND	0.49	
95-47-6	o-Xylene	ND	2.1	ND	0.48	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	ND	0.30	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ND	0.41	
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	ND	0.42	
541-73-1	1,3-Dichlorobenzene	ND	2.1	ND	0.35	
106-46-7	1,4-Dichlorobenzene	2.1	2.1	0.35	0.34	
95-50-1	1,2-Dichlorobenzene	ND	2.1	ND	0.35	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	ND	0.29	
87-68-3	Hexachlorobutadiene	ND	2.1	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories
Client Sample ID: GP-3
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00047

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 5.46

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	2.1	ND	0.43	
74-87-3	Chloromethane	ND	2.1	ND	1.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	2.1	ND	0.30	
75-01-4	Vinyl Chloride	ND	2.1	ND	0.84	
74-83-9	Bromomethane	ND	2.1	ND	0.53	
75-00-3	Chloroethane	ND	2.1	ND	0.80	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	2.2	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	2.2	ND	0.55	
75-09-2	Methylene Chloride	ND	2.2	ND	0.63	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	2.2	ND	0.29	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	ND	0.56	
75-34-3	1,1-Dichloroethane	ND	2.1	ND	0.52	
1634-04-4	Methyl tert-Butyl Ether	ND	2.2	ND	0.62	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	ND	0.55	
110-54-3	n-Hexane	ND	2.2	ND	0.62	
67-66-3	Chloroform	ND	2.2	ND	0.45	
107-06-2	1,2-Dichloroethane	ND	2.2	ND	0.54	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ND	0.41	
71-43-2	Benzene	ND	2.2	ND	0.68	
56-23-5	Carbon Tetrachloride	ND	2.2	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: GP-3
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P1802966-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00047

Date Collected: 6/6/18
 Date Received: 6/8/18
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 5.46

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	2.2	ND	0.47	
79-01-6	Trichloroethene	ND	2.2	ND	0.41	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ND	0.51	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ND	0.48	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ND	0.40	
108-88-3	Toluene	ND	2.2	ND	0.58	
106-93-4	1,2-Dibromoethane	ND	2.2	ND	0.28	
127-18-4	Tetrachloroethene	ND	2.2	ND	0.32	
108-90-7	Chlorobenzene	ND	2.2	ND	0.47	
100-41-4	Ethylbenzene	ND	2.2	ND	0.50	
179601-23-1	m,p-Xylenes	ND	4.5	ND	1.0	
100-42-5	Styrene	ND	2.2	ND	0.51	
95-47-6	o-Xylene	ND	2.2	ND	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ND	0.32	
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	ND	0.44	
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	ND	0.44	
541-73-1	1,3-Dichlorobenzene	ND	2.2	ND	0.37	
106-46-7	1,4-Dichlorobenzene	ND	2.2	ND	0.36	
95-50-1	1,2-Dichlorobenzene	ND	2.2	ND	0.37	
120-82-1	1,2,4-Trichlorobenzene	ND	2.3	ND	0.31	
87-68-3	Hexachlorobutadiene	ND	2.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 2

Client: CT Laboratories
Client Sample ID: Method Blank
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P180618-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.51	ND	0.073	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.53	ND	0.094	
75-35-4	1,1-Dichloroethene	ND	0.53	ND	0.13	
75-09-2	Methylene Chloride	ND	0.53	ND	0.15	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
156-60-5	trans-1,2-Dichloroethene	ND	0.54	ND	0.14	
75-34-3	1,1-Dichloroethane	ND	0.51	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
156-59-2	cis-1,2-Dichloroethene	ND	0.53	ND	0.13	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
67-66-3	Chloroform	ND	0.53	ND	0.11	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.54	ND	0.099	
71-43-2	Benzene	ND	0.53	ND	0.17	
56-23-5	Carbon Tetrachloride	ND	0.53	ND	0.084	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 2

Client: CT Laboratories
Client Sample ID: Method Blank
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P180618-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
78-87-5	1,2-Dichloropropane	ND	0.53	ND	0.11	
79-01-6	Trichloroethene	ND	0.53	ND	0.099	
10061-01-5	cis-1,3-Dichloropropene	ND	0.56	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.53	ND	0.12	
79-00-5	1,1,2-Trichloroethane	ND	0.53	ND	0.097	
108-88-3	Toluene	ND	0.53	ND	0.14	
106-93-4	1,2-Dibromoethane	ND	0.53	ND	0.069	
127-18-4	Tetrachloroethene	ND	0.53	ND	0.078	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.53	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
541-73-1	1,3-Dichlorobenzene	ND	0.54	ND	0.090	
106-46-7	1,4-Dichlorobenzene	ND	0.53	ND	0.088	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
120-82-1	1,2,4-Trichlorobenzene	ND	0.55	ND	0.074	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: CT Laboratories
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 6/6/18
 Date(s) Received: 6/8/18
 Date(s) Analyzed: 6/18/18

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P180618-MB	96	101	92	70-130	
Lab Control Sample	P180618-LCS	94	100	92	70-130	
LC-1	P1802966-001	96	99	92	70-130	
LC-2	P1802966-002	96	99	90	70-130	
LC-3	P1802966-003	93	101	90	70-130	
LC-3	P1802966-003DUP	93	101	90	70-130	
GV-6	P1802966-004	96	99	91	70-130	
GP-3	P1802966-005	97	100	92	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

Client: CT Laboratories
Client Sample ID: Lab Control Sample
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P180618-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	213	150	70	64-115	
74-87-3	Chloromethane	210	160	76	47-140	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	146	69	60-112	
75-01-4	Vinyl Chloride	211	162	77	63-127	
74-83-9	Bromomethane	210	163	78	63-132	
75-00-3	Chloroethane	210	169	80	68-129	
75-69-4	Trichlorofluoromethane (CFC 11)	208	157	75	65-113	
75-35-4	1,1-Dichloroethene	213	166	78	72-118	
75-09-2	Methylene Chloride	213	169	79	67-116	
76-13-1	Trichlorotrifluoroethane (CFC 113)	214	146	68	68-113	
156-60-5	trans-1,2-Dichloroethene	214	179	84	71-125	
75-34-3	1,1-Dichloroethane	212	161	76	68-118	
1634-04-4	Methyl tert-Butyl Ether	213	164	77	60-123	
156-59-2	cis-1,2-Dichloroethene	212	165	78	69-121	
110-54-3	n-Hexane	213	168	79	61-124	
67-66-3	Chloroform	212	154	73	69-113	
107-06-2	1,2-Dichloroethane	212	150	71	62-120	
71-55-6	1,1,1-Trichloroethane	212	164	77	65-116	
71-43-2	Benzene	213	170	80	66-111	
56-23-5	Carbon Tetrachloride	214	167	78	64-122	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

Client: CT Laboratories
Client Sample ID: Lab Control Sample
Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966
 ALS Sample ID: P180618-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8
 Analyst: Anusha Bayyrapu
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/18/18
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
78-87-5	1,2-Dichloropropane	212	173	82	69-121	
79-01-6	Trichloroethene	212	163	77	69-112	
10061-01-5	cis-1,3-Dichloropropene	208	194	93	74-129	
10061-02-6	trans-1,3-Dichloropropene	213	208	98	75-130	
79-00-5	1,1,2-Trichloroethane	212	173	82	73-117	
108-88-3	Toluene	211	161	76	66-114	
106-93-4	1,2-Dibromoethane	211	173	82	70-127	
127-18-4	Tetrachloroethene	212	157	74	62-119	
108-90-7	Chlorobenzene	212	161	76	66-115	
100-41-4	Ethylbenzene	212	165	78	69-117	
179601-23-1	m,p-Xylenes	424	321	76	67-117	
100-42-5	Styrene	211	181	86	70-128	
95-47-6	o-Xylene	211	163	77	67-118	
79-34-5	1,1,2,2-Tetrachloroethane	212	170	80	70-125	
108-67-8	1,3,5-Trimethylbenzene	212	160	75	65-117	
95-63-6	1,2,4-Trimethylbenzene	212	161	76	67-124	
541-73-1	1,3-Dichlorobenzene	212	166	78	70-124	
106-46-7	1,4-Dichlorobenzene	214	168	79	63-124	
95-50-1	1,2-Dichlorobenzene	214	167	78	66-125	
120-82-1	1,2,4-Trichlorobenzene	218	195	89	70-141	
87-68-3	Hexachlorobutadiene	212	158	75	63-126	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

Client: CT Laboratories

Client Sample ID: LC-3

Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966

ALS Sample ID: P1802966-003DUP

Test Code: EPA TO-15

Date Collected: 6/6/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/8/18

Analyst: Anusha Bayyrapu

Date Analyzed: 6/18/18

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SC01379

Initial Pressure (psig): -1.58

Final Pressure (psig): 6.42

Container Dilution Factor: 1.61

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Dichlorodifluoromethane (CFC 12)	1,520	308	1,450	293	1485	5	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	812	116	782	112	797	4	25	
Vinyl Chloride	9,930	3,890	9,590	3,760	9760	3	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	90.3	34.2	86.1	32.6	88.2	5	25	
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	118	29.9	114	28.8	116	3	25	
Methylene Chloride	121	34.8	117	33.8	119	3	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	63.8	16.1	61.5	15.5	62.65	4	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
cis-1,2-Dichloroethene	7,690	1,940	7,420	1,870	7555	4	25	
n-Hexane	1,950	555	1,890	536	1920	3	25	
Chloroform	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	338	106	326	102	332	4	25	
Carbon Tetrachloride	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

Client: CT Laboratories

Client Sample ID: LC-3

Client Project ID: FF/NN Landfill / 117-2202061.01

ALS Project ID: P1802966

ALS Sample ID: P1802966-003DUP

Test Code: EPA TO-15

Date Collected: 6/6/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 6/8/18

Analyst: Anusha Bayyrapu

Date Analyzed: 6/18/18

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SC01379

Initial Pressure (psig): -1.58

Final Pressure (psig): 6.42

Container Dilution Factor: 1.61

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Trichloroethene	322	60.0	309	57.5	315.5	4	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	6,060	1,610	5,830	1,550	5945	4	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	248	57.2	237	54.7	242.5	5	25	
m,p-Xylenes	518	119	494	114	506	5	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ATTACHMENT C
GROUNDWATER SAMPLING FIELD FORMS

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

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-2202062.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner			DO	MP-20 Flow Cell				
MONITOR WELL ID	MW-3A			MW-3B			P-113A		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	6-5-18			6-5-18			6-5-18		
STATIC WATER LEVEL (feet)*	27.94			28.43			11.41		
WELL DEPTH (feet)*	280.1			185.72			325.31		
PUMP INLET DEPTH (feet)*	67.5			54.5			73.5		
START PURGE TIME (Military)	10:05			10:05			12:10		
END PURGE TIME (Military)	10:30			10:40			12:40		
PURGE VOLUME (gallons)	1.0			3.0			1.0		
SAMPLE TIME (Military)	10:35			10:45			12:45		
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	2:00	4:00	6:00
TEMPERATURE (° C)	11.31	11.33	11.30	9.85	9.86	9.84	12.33	12.48	12.47
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.340	0.343	0.345	0.358	0.359	0.359	0.228	0.229	0.232
DISSOLVED OXYGEN (ppm)	1.68	1.54	1.48	0.42	0.34	0.30	1.11	0.99	0.92
pH	7.49	7.49	7.48	7.60	7.59	7.60	7.56	7.56	7.57
DISSOLVED OXYGEN (% Sat.)	15.4	14.1	13.5	3.7	3.0	2.6	10.4	9.3	8.7
ORP (mV)	-58	-57	-56	-15	-8	-2	-19	-17	-14
COLOR	Clear			Clear			Clear		
ODOR	Weak			Rotten Eggs			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Sample Blank (use water from well, zero)	0.0			0.0			0.0		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.10			0.86			0.08		
DI water with reagent powder pillow									
Q1 Results									
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	6-6-18			6-6-18			6-6-18		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.

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

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-2202062.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner			DO	MP-20 Flow Cell				
MONITOR WELL ID	P-113B			P-103			P-103D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	6-5-18			6-4-18			6-4-18		
STATIC WATER LEVEL (feet)*	12.23			48.92			49.65		
WELL DEPTH (feet)*	198.9			83.02			192.66		
PUMP INLET DEPTH (feet)*	48.5			69.5			87.5		
START PURGE TIME (Military)	12:10			10:07			10:07		
END PURGE TIME (Military)	12:20			10:35			1.0		
PURGE VOLUME (gallons)	1.25			2.0			10:25		
SAMPLE TIME (Military)	12:25			10:35			10:25		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	1:00	2:00	3:00	1:00	2:00	3:00
TEMPERATURE (° C)	10.35	10.35	10.35	15.94	16.60	16.76	10.72	10.69	10.67
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.223	0.218	0.215	0.486	0.502	0.501	0.437	4.36	0.439
DISSOLVED OXYGEN (ppm)	0.83	0.72	0.64	5.35	4.54	4.54	0.74	0.65	0.60
pH	7.68	7.67	7.67	7.08	7.08	7.08	7.38	7.38	7.38
DISSOLVED OXYGEN (% Sat.)	7.5	6.4	5.7	54.3	46.6	46.9	6.9	5.8	5.4
ORP (mV)	-79	-79	-79	93	95	96	-30	-30	-31
COLOR	Clear			Clear			Clear		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Sample Blank (use water from well, zero)	0.0			0.0			0.0		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.69			2.81			2.67		
DI water with reagent powder pillow									
Q1 Results									
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	6-6-18			6-6-18			6-6-18		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.

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

PROJECT INFORMATION				INSTRUMENTS					
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell				
PROJECT NO.	117-2202062.01			Conductivity	MP-20 Flow Cell				
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell				
PERSONNEL	Ashley A. Wagner			DO	MP-20 Flow Cell				
MONITOR WELL ID	P-111D/Dup			P-107			P-107D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	6-5-18			6-4-18			6-4-18		
STATIC WATER LEVEL (feet)*	34.13			51.25			49.74		
WELL DEPTH (feet)*	151.0			85.75			327.95		
PUMP INLET DEPTH (feet)*	151.0			74.5			76.5		
START PURGE TIME (Military)	9:10			14:20			14:20		
END PURGE TIME (Military)	9:30			14:50			14:35		
PURGE VOLUME (gallons)	3.0			0.75			3.0		
SAMPLE TIME (Military)	9:35/9:40			14:55			14:35		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	7:00	8:00	9:00	0:00	1:00	2:00	0:00	1:00	2:00
TEMPERATURE (° C)	10.11	10.08	10.06	11.99	11.90	11.80	10.53	10.54	10.48
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.429	0.430	0.433	0.415	0.413	0.418	0.371	0.373	0.378
DISSOLVED OXYGEN (ppm)	2.23	2.13	2.04	1.19	1.13	1.08	0.49	0.46	0.44
pH	7.55	7.55	7.55	7.37	7.37	7.37	7.57	7.56	7.56
DISSOLVED OXYGEN (% Sat.)	19.9	18.9	18.1	11.00	10.5	10.0	4.4	4.1	3.9
ORP (mV)	-58	-58	-57	-34	-34	-34	-28	-30	-32
COLOR	Clear			Clear			Clear		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
	TOOK DUP AT 9:40								
Sample Blank (use water from well, zero)									
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.0			Not Measured			Not Measured		
DI water with reagent powder pillow	1.19						Spilled sample after equipment was cleaned up		
Q1 Results									
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories		
DATE SENT TO LAB	6-6-18			6-6-18			6-6-18		
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner		

*Measured from top of well casing.

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

PROJECT INFORMATION				INSTRUMENTS						
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell					
PROJECT NO.	117-2202062.01			Conductivity	MP-20 Flow Cell					
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell					
PERSONNEL	Ashley A. Wagner			DO	MP-20 Flow Cell					
MONITOR WELL ID	P-114/Dup			P-115			P-116			
WATER TYPE	Groundwater			Groundwater			Groundwater			
DATE (month/day/year)	6-5-18			6-5-18			6-5-18			
STATIC WATER LEVEL (feet)*	18.87			22.01			26.10			
WELL DEPTH (feet)*	181.72			179.57			163.19			
PUMP INLET DEPTH (feet)*	53.5			53.5			163			
START PURGE TIME (Military)	13:50			14:25			13:10			
END PURGE TIME (Military)	14:10			14:45			13:35			
PURGE VOLUME (gallons)	3.0			3.0			1.5			
SAMPLE TIME (Military)	14:10/14:15			14:45			13:35			
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	0:00	2:00	4:00	
TEMPERATURE (° C)	10.33	10.33	10.33	10.41	10.43	10.51	11.63	11.58	11.67	
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.326	0.328	0.328	0.320	0.321	0.323	0.243	0.240	0.243	
DISSOLVED OXYGEN (ppm)	0.34	0.31	0.28	0.28	0.26	0.24	1.63	1.78	1.68	
pH	7.73	7.71	7.70	7.79	7.79	7.77	7.80	7.79	7.79	
DISSOLVED OXYGEN (% Sat.)	3.0	2.7	2.5	2.5	2.3	2.2	15.0	16.4	15.5	
ORP (mV)	-79	-80	-80	-96	-96	-96	-66	-69	-67	
COLOR	Clear			Clear			Clear			
ODOR	None			None			None			
CLARITY	Clear			Clear			Clear			
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)									
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			
	TOOK DUP AT 14:15									
Sample Blank (use water from well, zero)	0.0			0.0			0.0			
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.81			0.56			0.10			
DI water with reagent powder pillow										
Q1 Results										
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories			
DATE SENT TO LAB	6-6-18			6-6-18			6-6-18			
SAMPLER=S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner			

*Measured from top of well casing.

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

PROJECT INFORMATION				INSTRUMENTS						
PROJECT	FF/NN Landfill			Temp. & pH	MP-20 Flow Cell					
PROJECT NO.	117-2202062.01			Conductivity	MP-20 Flow Cell					
LOCATION	Ripon, WI			ORP	MP-20 Flow Cell					
PERSONNEL	Ashley A. Wagner			DO	MP-20 Flow Cell					
MONITOR WELL ID	P-106			P-117			P-118			
WATER TYPE	Groundwater			Groundwater			Groundwater			
DATE (month/day/year)	6-4-18			6-5-18			6-5-18			
STATIC WATER LEVEL (feet)*	54.54			15.10			8.00			
WELL DEPTH (feet)*	87.18			165.54			167.8			
PUMP INLET DEPTH (feet)*	78.5			163.0			165			
START PURGE TIME (Military)	13:15			11:05			11:30			
END PURGE TIME (Military)	13:30			11:20			11:45			
PURGE VOLUME (gallons)	5.0			2.0			1.5			
SAMPLE TIME (Military)	13:30			11:20			11:50			
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	0:00	1:00	2:00	0:00	1:00	2:00	0:00	1:00	2:00	
TEMPERATURE (° C)	10.72	10.76	10.66	10.33	10.32	10.36	10.52	10.58	10.60	
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.476	0.480	0.481	0.269	0.273	0.277	0.201	0.202	0.205	
DISSOLVED OXYGEN (ppm)	0.61	0.59	0.57	0.83	0.75	0.68	0.38	0.30	0.28	
pH	7.50	7.52	7.52	7.50	7.49	7.48	7.59	7.56	7.55	
DISSOLVED OXYGEN (% Sat.)	5.5	5.3	5.2	7.4	6.7	6.1	3.4	2.7	2.5	
ORP (mV)	-75	-73	-73	-69	-70	-70	-21	-16	-14	
COLOR	Clear			Clear			Clear			
ODOR	None			None			None			
CLARITY	Clear			Clear			Clear			
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)									
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No						
Sample Blank (use water from well, zero)				0.00			0.00			
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	Not Measured			1.18			0.05			
DI water with reagent powder pillow										
Q1 Results										
NAME OF LABORATORY	CT Laboratories			CT Laboratories			CT Laboratories			
DATE SENT TO LAB	6-6-18			6-6-18			6-6-18			
SAMPLER-S NAME	Ashley A. Wagner			Ashley A. Wagner			Ashley A. Wagner			

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION			INSTRUMENTS		
PROJECT	FF/NN Landfill		Temp. & pH	MP-20 Flow Cell/Hanna	
PROJECT NO.	117-2202062.01		Conductivity	MP-20 Flow Cell/Hanna	
LOCATION	Ripon, WI		ORP	MP-20 Flow Cell	
PERSONNEL	Ashley A. Wagner		DO	MP-20 Flow Cell	
SAMPLE POINT	MW-103	MW-104	MW-107	MW-112	
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	
DATE (month/day/year)	6-4-18	6-4-18	6-4-18	6-4-18	
CLOCK TIME (Military)	10:55	15:40	14:25	11:35	
DEPTH TO WATER (ft)*	50.75	51.23	51.66	53.93	
MEASURED WELL DEPTH (ft)*	53.69	55.90	55.32	60.47	
CASING VOLUME (gallons)	0.48	0.76	0.60	1.07	
PURGE VOLUME (gallons)	2.0	5.0	2.5	4.5	
DEPTH SAMPLE TAKEN (ft)*	53.0	55.0	54.8	60.0	
SAMPLING DEVICE	Dedicated Bailer	Dedicated Bailer	Dedicated Bailer	Dedicated Bailer	
FIELD TEMPERATURE (°C)	16.90	16.7	16.1	17.81	
pH	7.08	6.95	7.41	7.14	
ELEC. COND. (uS/cm)	NM	NM	NM	NM	
		0.509	1124	1776	0.627
ORP (mV)	97	NM	NM	-31	
DISSOLVED OXYGEN (ppm)	4.51	NM	NM	1.92	
DISSOLVED OXYGEN (% Sat.)	46.7	NM	NM	20.2	
COLOR	Clear	Clear	Clear	Clear	
ODOR	None	None	None	None	
CLARITY	Clear	Slightly cloudy	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)	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	
	Used MP-20 Flow Cell for parameters	Looked like some leachate in purge water		Used MP-20 Flow Cell for parameters	Sample Times
Sample Blank (use water from well, zero)	0.00			0.00	6-4-18
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)	0.01	Not Measured	Not Measured	2.71	LC-1 15:25
DI water with reagent powder pillow					LC-2 16:10
Q1 Results					LC-3 15:55
NAME OF LABORATORY	CT Laboratories	CT Laboratories	CT Laboratories	CT Laboratories	CT Laboratories
DATE SENT TO LAB	6-6-18	6-6-18	6-6-18	6-6-18	6-6-18
SAMPLER=S NAME	Ashley A. Wagner	Ashley A. Wagner	Ashley A. Wagner	Ashley A. Wagner	Ashley A. Wagner

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION			INSTRUMENTS		
PROJECT	FF/NN Landfill		Temp. & pH	Hanna	
PROJECT NO.	117-2202062.01		Conductivity	Hanna	
LOCATION	Ripon, WI		ORP	Not Measured	
PERSONNEL	Ashley A. Wagner		DO	Not Measured	
SAMPLE POINT			Rohde		
WATER TYPE			Groundwater		
DATE (month/day/year)			6-4-18		
CLOCK TIME (Military)			14:00		
PURGE RATE (GPM)			8.3		
PURGE VOLUME (gallons)			100		
SAMPLING DEVICE			Outside Pump		
FIELD TEMPERATURE (°C)			15.3		
pH			7.81		
ELEC. COND. (uS/cm)	Measured		NM		
	at 25° C		590		
ORP (mV)			NM		
DISSOLVED OXYGEN (ppm)			NM		
DISSOLVED OXYGEN (% Sat.)			NM		
COLOR			Clear		
ODOR			None		
CLARITY			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		
Iron +2 (mg/L) (Hach DR 900 test 255) using reagent powder pillow (wait 3 min)			Not Measured		
NAME OF LABORATORY			CT Laboratories		
DATE SENT TO LAB			6- -18		
SAMPLER=S NAME			Ashley A. Wagner		

*Measured from top of well casing.

ATTACHMENT D

LANDFILL GAS EXTRACTION SYSTEM MONITORING



GAS PROBE DATA MONITORING POINTS

29.1

Project: FF/NN Landfill

Barometric Pressure: 29.2 Hg

Location: Ripon, Wisconsin

Temperature (ambient): 39 F

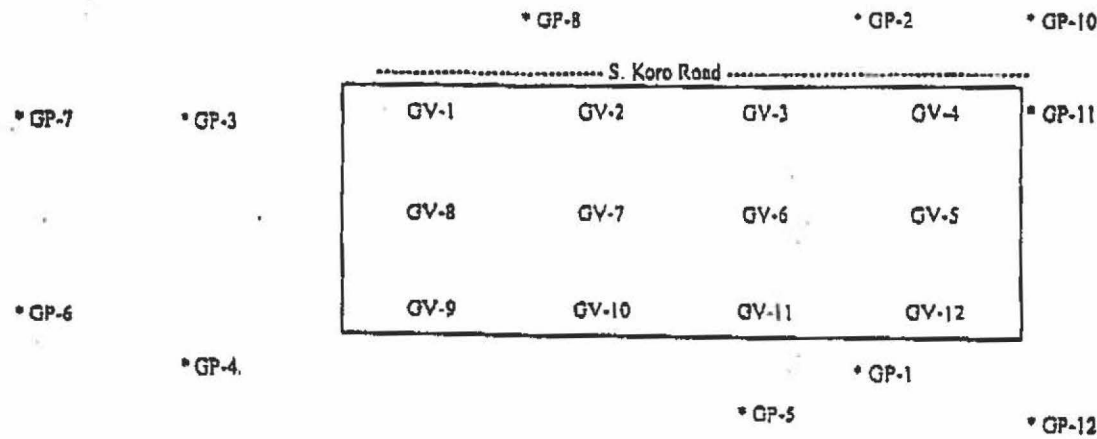
Personnel: McKela, Kissing

Measuring Device: Eagle

Water level in buried knockout tank 0 " *LEL

In Trailer Vacuum Gage 1 "Hg

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
4/25/18	0742	Background	0*	0.0	20.9	
	0747	LC-1	10.5	19.2	0.5	
	0754	LC-2	30.5	25.2	0.7	
	0751	LC-3	22.5	21.4	3.5	
	0749	GV-6	90*	9.4	7.8	
	0743	GP-1	0*	1.2	18.7	
	0843	GP-1	0*	18.9 0.8	18.9	2nd Reading
	0744	Exhaust	5.1*	3.2	17.5	



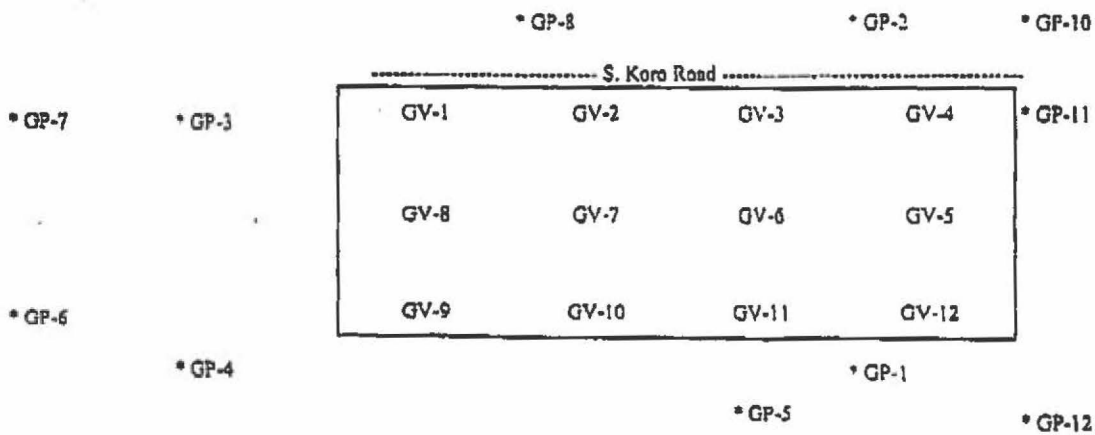


GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill Barometric Pressure: 29.1" Hg
 Location: Rinon, Wisconsin, Temperature (ambient): 103 F
 Personnel: Mckala Kressling Measuring Device: Eagle
 Water level in buried knockout tank 0 " In Trailer Vacuum Gage 1 "Hg

#LEL

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
5/8/18	0757	Background	0*	0.0	20.9	
	0804	LC-1	1.1*	4.0	16.6	
	0811	LC-2	32.5	24.8	0.9	
	0808	LC-3	24.5	21.4	3.1	
	0836	GV-6	74*	10.2	7.3	
	0758	GP-1	0*	2.8	14.5	
	0859	GP-1	0*	3.6	11.2	2nd Reading
	0759	Exhaust	5.6*	3.6	17.0	

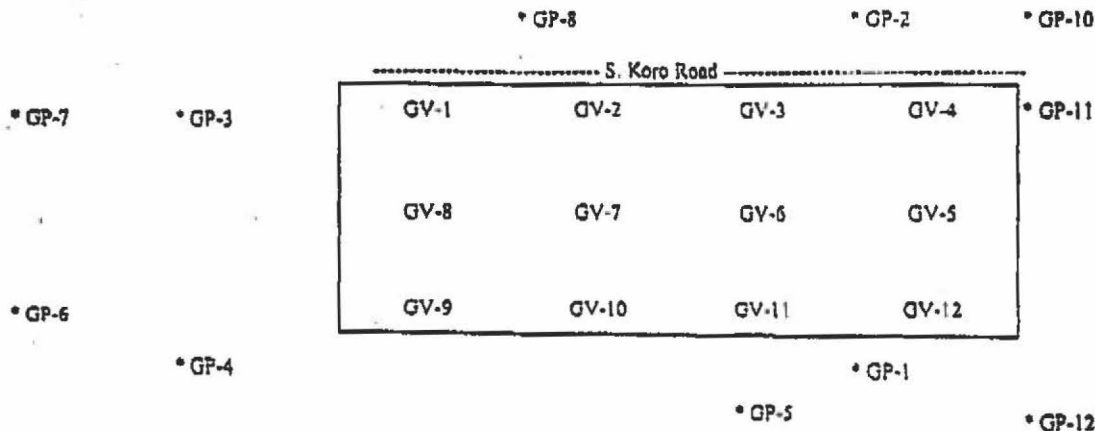




GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill Barometric Pressure: 29.2 Hg
 Location: Rinon, Wisconsin, Temperature (ambient): 48 F
 Personnel: Mckala Kiebling Measuring Device: Eagle
 Water level in buried knockout tank _____ In Trailer Vacuum Gage 1 "Hg

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
5/21/18	0748	Background	0*	20.9	20.9	
	0751	LC-1	100*	4.6	16.0	
	0758	LC-2	33.5	24.8	10.9	
	0755	LC-3	21.0	21.0	3.1	
	0753	GV-6	60*	9.4	9.9	
	0746	GP-1	0*	5.4	7.5	
	0747	GP-1	0*	5.8	8.26.4	2nd Reading
	0747	Exhaust	50*	3.4	17.5	



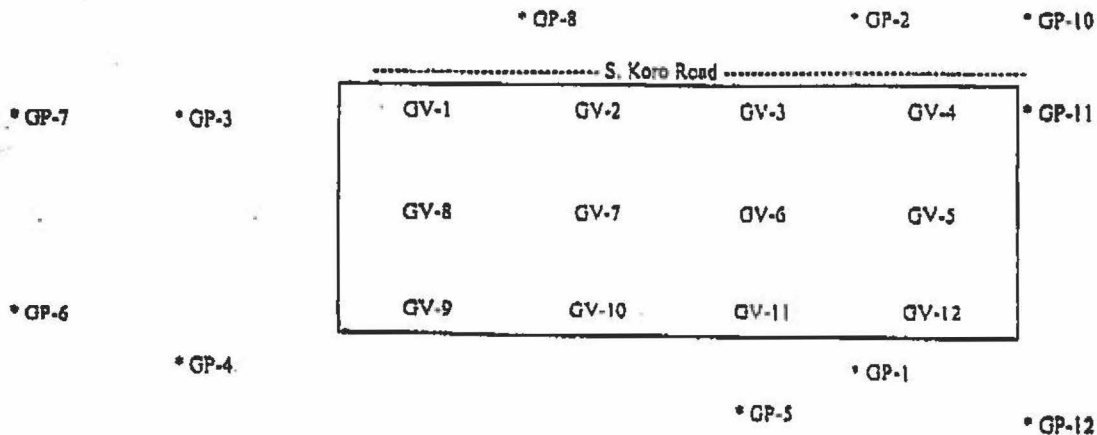


GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
 Location: Rinon, Wisconsin
 Personnel: Mckala Kiessling
 Water level in buried knockout tank 8 "

Barometric Pressure: 28.9 Hg
 Temperature (ambient): 53 F
 Measuring Device: Eagle
 In Trailer Vacuum Gage 1 "Hg

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
6/8/18	0802	Background	0*	0.0	20.9	
	0808	LC-1	51.0*	3.8	16.9	
	0815	LC-2	22.0	17.4	10.8	
	0812	LC-3	22.5	21.2	2.9	
	0913	LC-1	47*	3.4	17.4	2nd Reading
	0811	GV-6	85*	11.8	6.9	
	0803	GP-1	0*	3.8	15.5	
	0908	GP-1	0*	15.0	14.3	2nd Reading
	0805	Exhaust	5.9*	3.8	17.1	



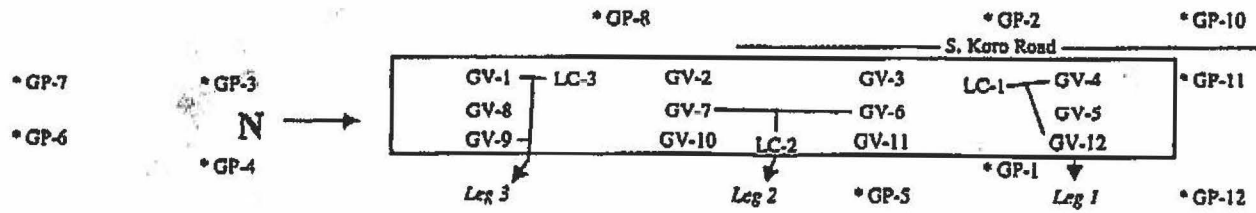


GAS PROBE DATA

Project: FF/NN Landfill Barometric Pressure: 29.0 Hg
 Location: Ripon, Wisconsin Temperature (ambient): 63 F
 Personnel: Mkala Klesling Measuring Device: Eagle

*LEL

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
6/30/18	0738	Background	0*	0.0	20.9	
	0750	LC-1	5.8*	3.6	17.4	
	0800	LC-2	3.5	25.0	6.8	
	0802	LC-3	2.5	22.0	2.4	
	0832	MW-101	0*	0.0	20.9	
	0745	MW-102	0*	0.8	19.1	
	0809	MW-103	0*	0.0	20.9	
	0921	MW-104	0*	0.2	20.9	
		GV-1				
		GV-4				
	0758	GV-6	6.5	13.8	5.9	
		GV-7				
		GV-9				
	0740	GV-12GP-1	0*	5.0	14.1	
	0842	GP-1	0*	0.2	20.9	2 nd Reading
	0900	GP-2	0*	3.0	17.0	
	0805	GP-3	0*	1.4	19.4	
	0813	GP-4	0*	1.8	19.2	
	0849	GP-5	0*	6.6	9.2	
	0911	GP-6	0*	1.8	18.5	
	0908	GP-7	0*	0.0	20.9	
	0825	GP-8	0*	5.0	11.9	
	0850	GP-10	0*	4.4	14.9	
	0830	GP-11	0*	3.2	17.5	
	0815	GP-12	0*	2.4	18.1	
	0748	Leg 1	10*	0.0	20.0	
	0750	Leg 2	10.5	15.0	4.9	
	0752	Leg 3	24.5	21.8	2.5	
	0742	Exhaust	74*	4.2	16.7	





GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill

Barometric Pressure: 28.9 Hg

Location: Rinon, Wisconsin

Temperature (ambient): 66.0 F

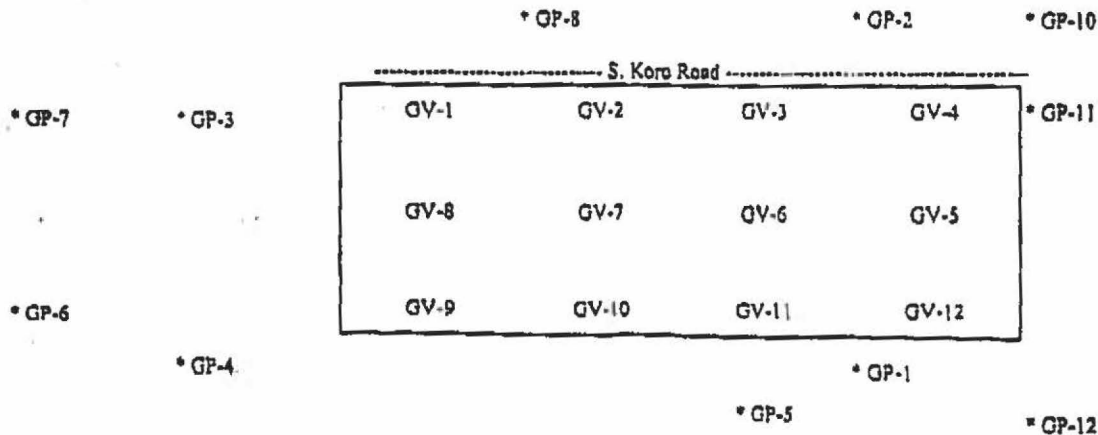
Personnel: McLara Kiesel

Measuring Device: Eagle

Water level in buried knockout tank 0"

In Trailer Vacuum Gage 1"Hg

Date	Time	Measurement Point	% CH ₄	% CO ₂	% O ₂	Comments
6/28/18	0759	Background	0*	0.0	20.9	
	0804	LC-1	55*	3.2	17.8	
	0810	LC-2	35.5	25.0	24.1	0.6
	0807	LC-3	24	22.0	2.4	
	0800	GV-6	5.0	13.8	5.1	
	0800	GP-1	1*	6.0	9.3	
	0904	GP-1	0*	11.4	8.0	2nd Reading
	0801	Exhaust	6.1*	4.0	17.0	



ATTACHMENT E
LANDFILL CAP INSPECTION



FF/NN Landfill Site Inspection Form

Inspector: Ashley Wagner

Date: 6/6/2018

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

	Good	Fair	Poor	Comments
1. Vegetative cover (condition, trees or bushes on cap)	X			
2. Soil stability (erosion control)	X			
3. Cover integrity (no exposed waste or ruts)	X			
4. Surface water drainage (settlement or ponding)	X			
5. Surface seep control	X			
6. Unauthorized access control (fence, gates, locks, signs, vandalism)	X			
7. Groundwater well maintenance (seals, casing, labels)	X			
8. Gas vents	X			
9. Drainage layer discharge pipes	X			
10. Other activities on or adjacent to landfill	X			
11. Additional comments	Some well locks are difficult to open (getting old and rusted) and may need to be replaced in the near future.			
12. Items to be observed in future inspections				
13. Recommended maintenance activities				

ATTACHMENT F

**GROUNDWATER MONITORING PROGRAM APPROVAL, APRIL 18, 2013
AND CONDITIONAL APPROVAL, JUNE 8, 2017**

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

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



April 18, 2013

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

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

Dear Mr. Olavarria:

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

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

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

Sincerely,

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

Attach.

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

Table 8. Groundwater Monitoring Schedule

FF/NN Landfill, Ripon, WI

DNR

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

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

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

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



June 8, 2017

Jeffrey Tracy (Representative for the Ripon FF/NN Landfill Potentially Responsible Party (PRP) Group)
Quantum Management Group, Inc.
216 N. Green Bay Road, Suite 201
Thiensville, WI 53002

SUBJECT: Proposed Second Replacement Sentinel Monitoring Well Work Plan Approval for the
Ripon HWY FF/NN Landfill
License #467, Ripon, WI
WDNR BRRTS #02-20-000915

Dear Mr. Tracy:

The Department has reviewed the proposal for second new sentinel monitoring well (P-118) prepared by Tetra Tech and received by email on June 6, 2017. The proposal is approved subject to the following condition:

1. Monitoring well P-117 and new monitoring well P-118 shall follow the same sampling frequency and parameters as P-116. This is quarterly monitoring to include water levels, VOCs, and natural attenuation parameters. The groundwater monitoring plan that was approved in our April 18, 2013 letter approval is hereby amended to include this condition.

The Department will evaluate the need for monitoring of the 2 private wells at a regular frequency at N8851 CTH PP, the Schroeder and Washkovick wells, based on the monitoring results for new well P-118.

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

Sincerely,

Gary A. Edelstein
Waste Management Engineer
Remediation & Redevelopment Program

Attach.

cc: Rick Joslin, DNR - ecopy
Mary Tierney, EPA – ecopy – tierney.mary@epa.gov
Mike Noel, Tetra Tech – ecopy – Mike.Noel@tetrattech.com
Lori Rich, City of Ripon – ecopy – lrich@cityofripon.com