TEAM BRIDGETON

Monthly Meeting Agenda

January 24, 2013

Technical Discussion

Presentation of monthly data package (also submitted to Team electronically on 2 flash drives)

- **Wellhead Temperature Maps** – Maximum wellhead temperatures recorded per well during the weekly well monitoring events for the presentation month. Data collected in field with GEM 2000. Data presented in degrees Fahrenheit (°F).

- **Hydrogen Maps –** Monthly laboratory analysis for hydrogen from select wells. Data presented in percent by volume (% Vol.). Going forward, all wells in the south quarry will be sampled for hydrogen on a monthly basis.

- **Carbon Monoxide Maps** – Monthly laboratory analysis for Carbon Monoxide from selected wells. Data presented in parts per million (ppm). Going forward, all wells in the south quarry will be sampled for carbon monoxide on a monthly basis.

- **GCCS Flow Tables**

    - ***Individual Flare Flows*** – Monthly field readings collected from each individual flare flow chart. Data presented in standard cubic feet per minute (scfm).

    - ***Combined Flare Flows*** – Manual summation of individual flare flows to generate a total flow rate. Data presented in standard cubic feet per minute (scfm).

- **LFG Quality Charts (Laboratory)** – Monthly samples collected in summa canisters from main header, at a port prior to the blower (December and prior months) and analyzed at a laboratory. These samples going forward (January 2103) will be collected form the pressure side of the system, after the blower.

  Laboratory samples are analyzed for methane**,** carbon dioxide, oxygen, nitrogen, and hydrogen and are presented by volume (% Vol.).

  Laboratory samples analyzed for carbon monoxide are presented in parts per million (ppm).

- **LFG Quality Charts (Field – GEM 2000)** - Daily samples collected with a portable field LFG analyzer (GEM 2000). Prior to January 2013, the enclosed flares shared one common blower inlet. The data presented represents gas that is split to both the Zink and Callidus enclosed flares. Additionally, prior to January 2013, the candlestick flare was drawing gas form a separate part of the GCCS using its own dedicated blower.

Sample data presented represents the inlet to this blower. Data is presented in percent by volume (% vol.)

Going forward (beginning January 2013), all LFG quality data will be collected at one point (header sample port) prior to the newly installed common blower skid. Because all gas moves through this blower skid, this point will represent all of the gas being destroyed at each of the three flares.

- **Temperature Monitoring Probe Data** – Data is collected weekly and will be presented monthly. Data presented in degrees Fahrenheit (°F).

- **Settlement Front Map** – Month survey data compared month over month. In December, a formal grid was laid out for the south quarry and the throat area. The majority of the south quarry will be surveyed on a 100-foot grid. The throat area will be surveyed on a 50-foot grid. Using a dedicated grid, will allow better comparisons of data month-over-month.

  No grid was used for the November survey event. Survey measurements were taken at somewhat random areas and in areas where visible settlement had occurred. Saying this, the month-over-month comparison between November and December data is most likely not a true representation of actual conditions (settlement between events).

  Additionally, only the 50-foor grid section of the south quarry was surveyed in December. A miscommunication occurred between Republic and our survey contractor and the 100-foot grid was not surveyed.

  Approximately, 25,856 cubic yards of soil were taken form the on-site soil stock pile and placed on numerous areas in the south quarry. This soil was used to control odors, and to remediate settlement so that cap drainage integrity is maintained.

- **As-Built Drawings**

  - ***As-Built Synthetic Cap Locations (1-21-13)*** – Presents the surveyed location of the synthetic cap sections installed as of the date of the drawing.

  - ***As-Built GCCS System (1-21-13)*** – Presents the surveyed location of installed GCCS system components per the date of the drawing.

  - ***As-Built Leachate System (1-21-13)*** – Presents the surveyed location of installed leachate system components per the date of the drawing.

  - ***As-Built RCP & LCS Locations (1-21-13)*** – Presents the surveyed location of installed RCPs and LCSs per the date of the drawing.

  - ***As-Built Complete Infrastructure (1-9-13)*** – Presents the surveyed location of all installed infrastructure at the facility per the date of the drawing.

- **3D Model** (Discussion Topic – value of this information vs. effort, cost.)

- **Air Monitoring** (Discussion Topic – What is driving the need for air monitoring? What parameters? Where? When?)

Prior Month and Planned Future Month Work Activity

Work performed since the last Team Bridgeton meeting

- **GCCS Related Items** (RCPs, Wells, Blower/Flare, Flame Arrestors, etc.)
    - ***RCP (SC1)*** – Excavated around area, installed a 12-foot well next to the RCP to control gas and liquids that are being generated from the RCP.
    - ***Flare skid upgrade*** – Flare blower skid up and running. Shakedown period was complete on 1-19-13. All gas is pulled form the field by this blower skid and is directed to one common "super sump" that splits the gas to the three separate flares (Zink Candlestick, Zink Enclosed, Callidus Enclosed)
    - ***Day-to-day maintenance activity*** – General work performed to keep the GCCS operating properly. December work included: Header / Lateral regarding, wellhead maintenance, LFG well pump maintenance.
- **Cap Related Items** (Settlement, repairs, etc.)
    - ***Odor control and cap drainage soil work*** - Cap work for December consisted of moving 25,856 cubic yards of soil from the on-site stock pile for use as odor control and settlement regarding to reestablish cap drainage.
    - ***Day-to day maintenance activity*** – Daily inspections performed to identify unusual settlement, cracking, erosion issues, etc. Identified issues are generally addressed same day.
- **Leachate Related Items** (LCPs, Force Main, Air Line, Pumps, etc.)
    - ***Installation of 7 new Blackhawk pumps*** – Pumps installed in the following wells: GEW42, GEW43, GEW45, GEW47, GEW 52, GEW 53, and GEW54.
    - ***Installation of leachate air line and force main*** - Work was performed on the west and east side of south quarry.
        - West side installation work included above ground extension of air line and force main from CT8, to a discharge line adjacent to the leachate storage tank. This work was performed to eliminate pumping restrictions.
        - East side work included above ground replacement of force main between CT2 and CT3. This work was performed to damaged below grad piping that failed.
- **Written Chronology of Action Taken** (Discussion Topic)

- **Analysis of Tar Residue** (Discussion Topic) – So far the appearance of this substance has been a one time event. We have upgraded the sump where it occurred to insure that if the material appears again, we can remove it before it hits the flame arrestors. As an added precaution, we are removing any material form the bottom of the sump with a vac-truck on a regular basis. The material has not appeared again.

- **Other Work Items Completed –** N/A

Work projected to be performed in the future

- **GCCS Related Items** (RCPs, Wells, Blower/Flare, Flame Arrestors, etc.)
    - ***Disassembly and removal of old blower / flare equipment***
    - ***Heat trace and insulation of new flare skid piping***
    - ***Installation of permanent drain lines at flame arrestors and liquid seals***
    - ***Installation of concrete piers for all pipe stands***
    - ***12-inch fail safe valves will be replaced with 18-inch fail safe valves***
    - ***Spare parts inventory and procurement***
    - ***Bearing housing for blower 3 will be replaced. Currently blower is not operational.***
    - ***Natural gas will be brought to flares to supplement declining methane, if required***
    - ***Work Plan generation and abandonment of RCP (SC1)***
    - ***Ongoing day-to-day maintenance***
- **Cap Related Items** (Settlement, repairs, etc.)
    - ***Continual settlement re-grading and odor control soil placement***
    - ***Ongoing day-to day maintenance***
- **Leachate Related Items** (LCPs, Force Main, Air Line, Pumps, etc.)
    - ***Segregation of CBOD contributing components from current leachate discharge.***
    - ***Installation of common force main manifold for segregated material***
    - ***Mobilization and set-up of 5 - 21,000 gallon frac. tanks to store segregated material***

- ***Installation of additional new pumps as required to control gas and liquids.***
- ***Replacement of LCS3***

- **Other Work Items Contemplated**

Deliverable(s) Status

- **Leachate Management Contingency Plan** – Currently in process.

- **Incident Management Plan** – (Formerly known as the Site Contingency Plan) – Draft plan has been generated and is currently being reviewed by Emergency Responders (ER) (Skip Rickets, Matt Lavanchy, and Maynard Howell). ERs comments will be reviewed during the Team Bridgeton ER meeting being held on the 29th. Since the draft was developed in conjunction with Matt Lavanchy, I do not expect many comments. After the meeting, additional potential scenarios will be added to the document, and the document will be finalized.

- **Heat Dissipation / Barrier Plan** – Draft document sent to Team Bridgeton on January 4, 2013 for review and comment.

- **Interceptor Well Design** (Well Detail, Plan View, Drilling Table) – Design submitted to Team Bridgeton and approved in one day. THANK YOU.

- **Health and Safety Plan** – (Discussion Topic) - Received comments from MDNR in 12-24-12.

- **Operations, Maintenance, and Monitoring Plan** – Received comments form MDNR on 1-15-13. Will review comments and incorporate. If comments were made that require further discussion, a conference call can be planned to work through those items

- **RCP Abandonment Plan** – Because abandonment of these structures has not taken place before, and we expect conditions to be somewhat different form RCP to RCP, we will develop a Work Plan to abandon RCP (SC1). Currently, this RCP is difficult to manage, and produces some odor as a result. Abandonment of this RCP will be a learning experience for development of future RCP abandonment Work Plans.

Community, Media, and Other Agency Discussion Items

- **Odor Complaints**
  - ***Residential Complaints*** – There were 5 residential complaints made in December: All 5 complaints were made by Joe Turner (Resident at the Boenker Property).
  - ***Commercial Complaints*** – There was 1 commercial complaint made in December. This complaint was made by Tom Schnitzius Safety Manager with SAIC
  - ***Response / Corrective Actions Taken***

        - All complaints made by Mr. Turner, are received in e-mails that describe his interpretation of the odor severity. Per Mr. Turner's direction, we do not reply to these e-mails unless he specifically asks a question or requires more information. On occasion (approximately 2 times per month) the Environmental Manager and / or Environmental Specialist visit Mr. Turner to explain the work that is being performed to control and minimize the odors.

        - A call was made to Mr. Schnitzius to discuss the details of the odors and to discuss the status of the new blower flare system.

        - In all cases, internal employees try to immediately identify and remediate the source of the odor at the landfill.

- **Media Related Discussion**

    - ***Media Items Generated Since Last Meeting***

        - Media attention regarding Bridgeton Landfill was generated by the Westlake meeting on the 17th.

        - We continually monitor media and social media internally and with 3rd party (Fleishman – Hillard).

        - We are exploring options for an expanded public awareness campaign.

- **Communication With Other Federal, State, or Local Agencies**

    - ***Missouri Department of Natural Resources*** – Established the Team Bridgeton concept for consistent monthly communications. Have also provided updates on important site activities as a way to communicate important activities occurring at Bridgeton Landfill between monthly meetings.

    - ***St. Louis County Department of Health*** – On January 10th, Bridgeton personnel met with the St. Louis County Department of Health. This meeting was planned to introduce the new management staff at Bridgeton Landfill to the County Regulators that are assigned to the facility.

    - ***Local Emergency Responders***

        - Pattonville Fire Department (Matt Lavanchy) – On December 17th a meeting was held with Matt Lavanchy to discuss the format for the Incident Management Plan.

        - Robertson Fire Department (Maynard Howell) – Maynard Howell was contacted in December to discuss his participation in the Team Bridgeton Emergency Responders meeting. Maynard was grateful for the invitation and will be an ongoing member of the Team Bridgeton ER Group

        - MDNR On-Scene Coordinator (Skip Ricketts) – Skip was contacted and invited to participate in the Team Bridgeton ER meeting. He has accepted and will be an ongoing member of the Team Bridgeton ER Group.

    - ***Metropolitan St. Louis Sewer District*** – As presented in the Team Bridgeton updates, MSD presented Bridgeton Landfill with a Cease and Desist Order. This Order was executed because MSD's Missouri River Plant exceeded their discharge limits for Weekly Average CBOD discharge. A meeting was held to discuss the Order on January 14, 2013, and develop solutions. In response to the meeting Bridgeton has reacted in the following manner:

        - Emergency Response – MSD requested that we reduce the total loading to their plant as soon as possible. Bridgeton Landfill made arrangements with a separate 3rd party hauling (MBI) and disposal (American Bottoms – Sauget Plant) to remove approximately 50 percent of the average daily volume from the Missouri River Plant. We are currently moving 10 – 7,500 gallon loads of leachate to American Bottoms 7-days per week.

          Bridgeton Landfill also initiated a sampling event to determine concentrations of COD, BOD, TSS, and sulfates from the MSD discharge, and from every liquid generating component at the landfill.

        - Short-term efforts – Once the laboratory data has been compiled, Bridgeton Landfill will work on segregating the most concentrated material form the total discharge stream treated by MSD. We anticipate that this fluid will be a small component of the total flow from the facility. This segregated liquid will be stored in on-site temporary tanks and hauled to a third party for disposal.

        - Long-term efforts – We will explore pre-treatment as an option for cost-effective management of the leachate.

    - ***Other Agency Related Issues*** – N/A

<u>Open Discussion</u>

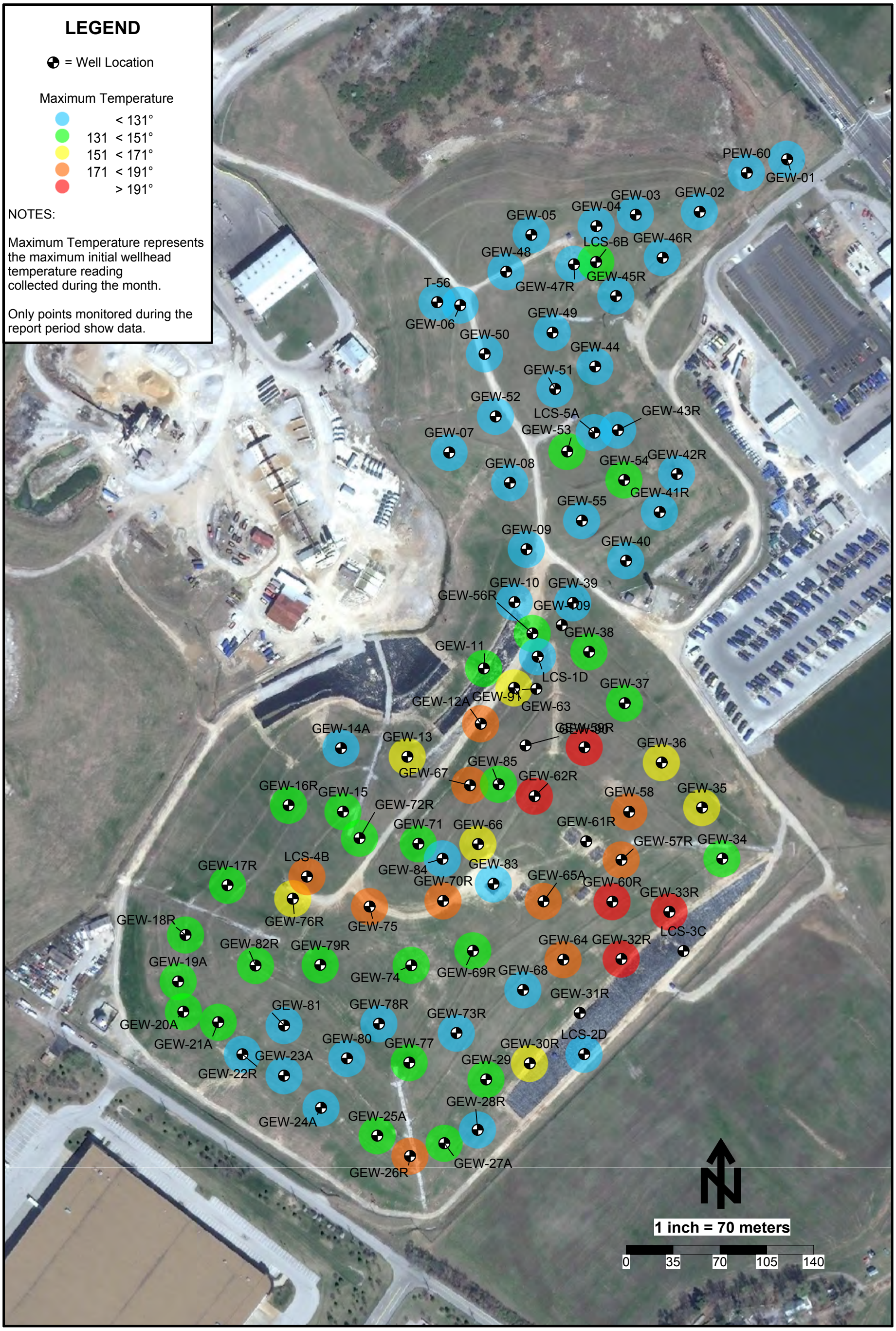
- **Other Items of Concern**

    - **Corrective Action FAI** – Discussed potential renewal of financial assurance with Chris Nagel. As discussed, Bridgeton Landfill is awaiting and official request form MDNR to address this situation.

- Technology / Ideas

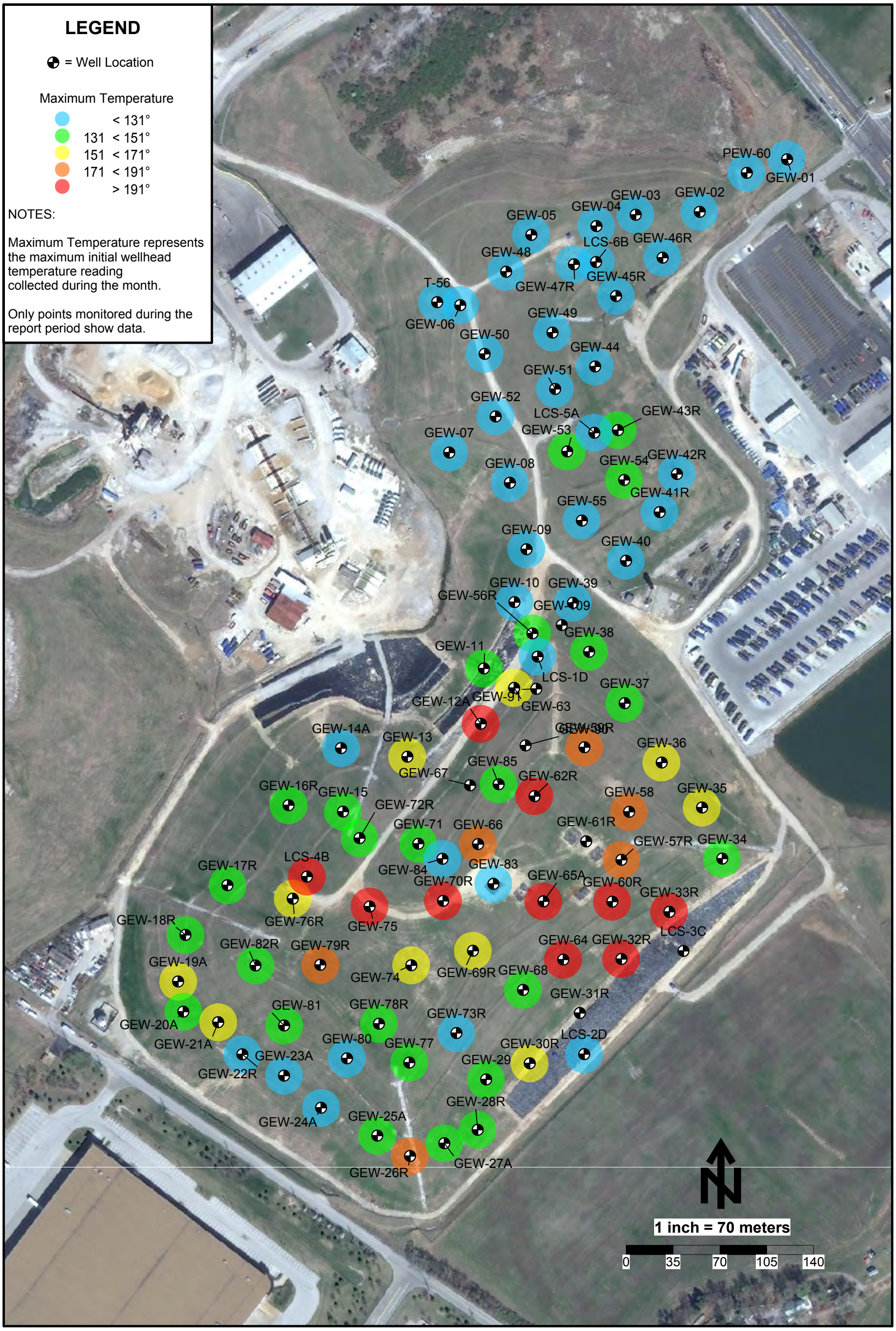
- Confirm date, location, and time of next Team Bridgeton Meeting (shoot for last Thursday of each month, 10:00 AM at the Republic Services Area Office Conference Room).

<u>Landfill Tour</u>



Initial Temperature Maximums - September 2012 - Bridgeton Landfill

SCS ENGINEERS



Initial Temperature Maximums - October 2012 - Bridgeton Landfill

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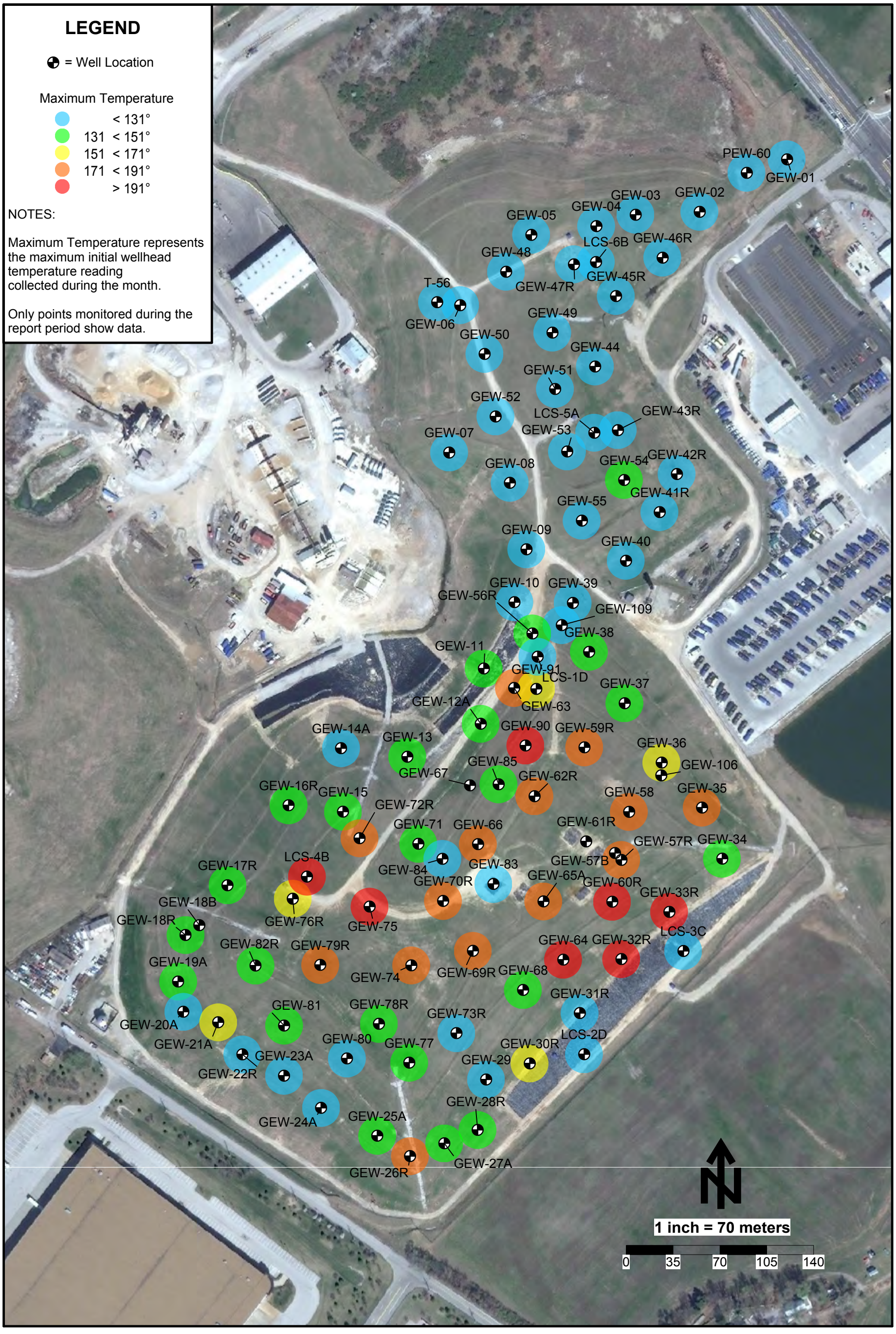

Initial Temperature Maximums - November 2012 - Bridgeton Landfill

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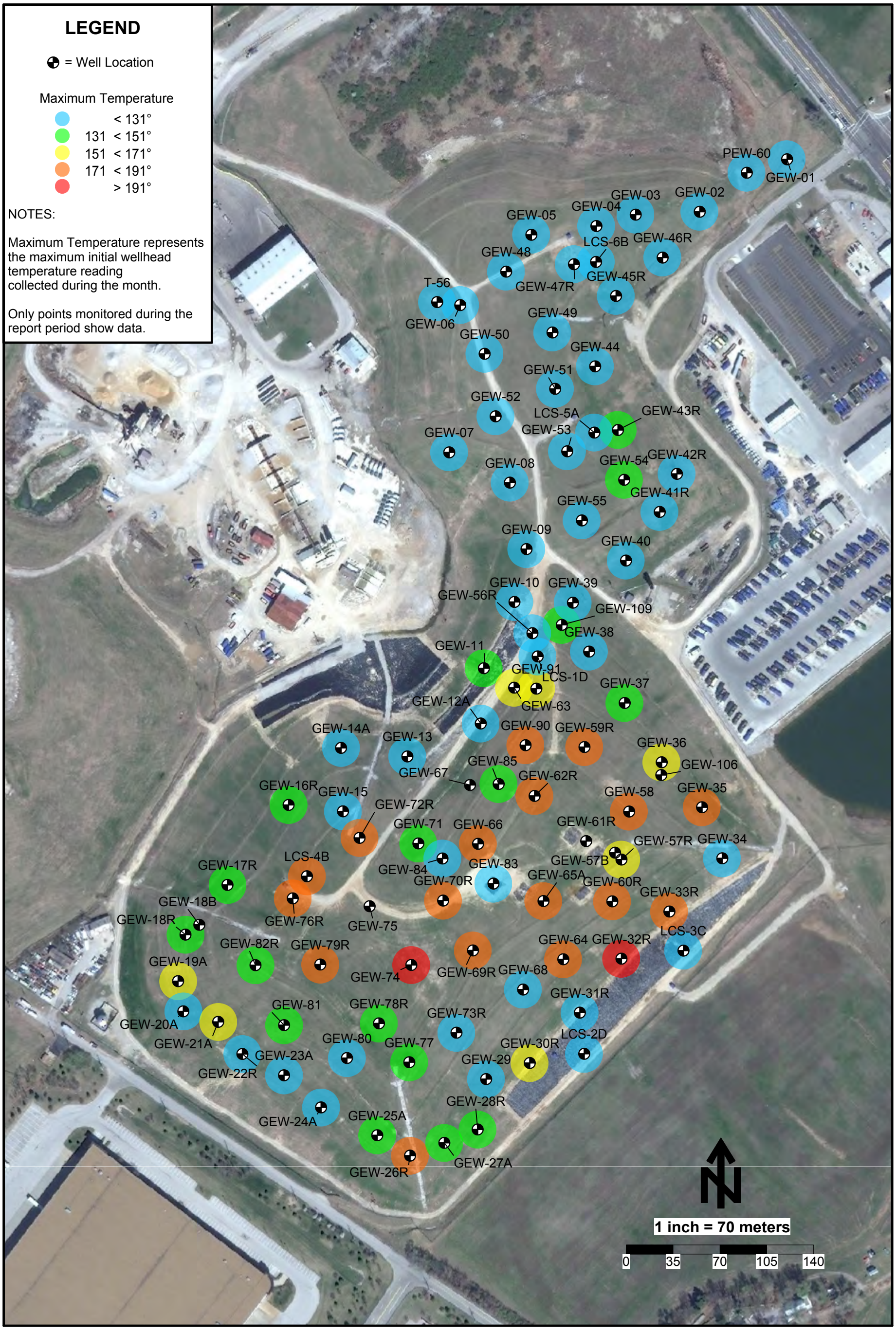

Initial Temperature Maximums - December 2012 - Bridgeton Landfill

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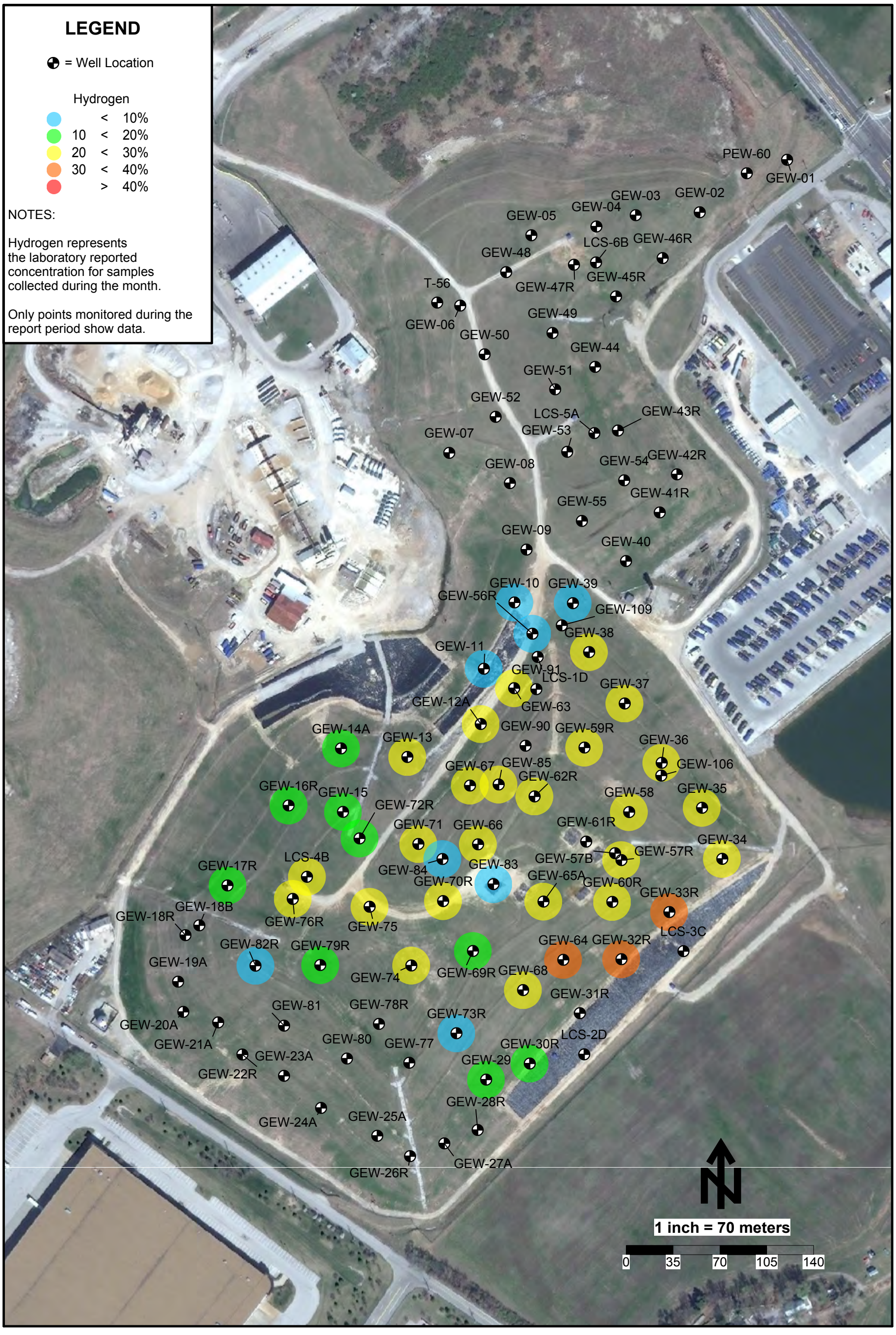

Hydrogen Data Map - August 2012 - Bridgeton Landfill

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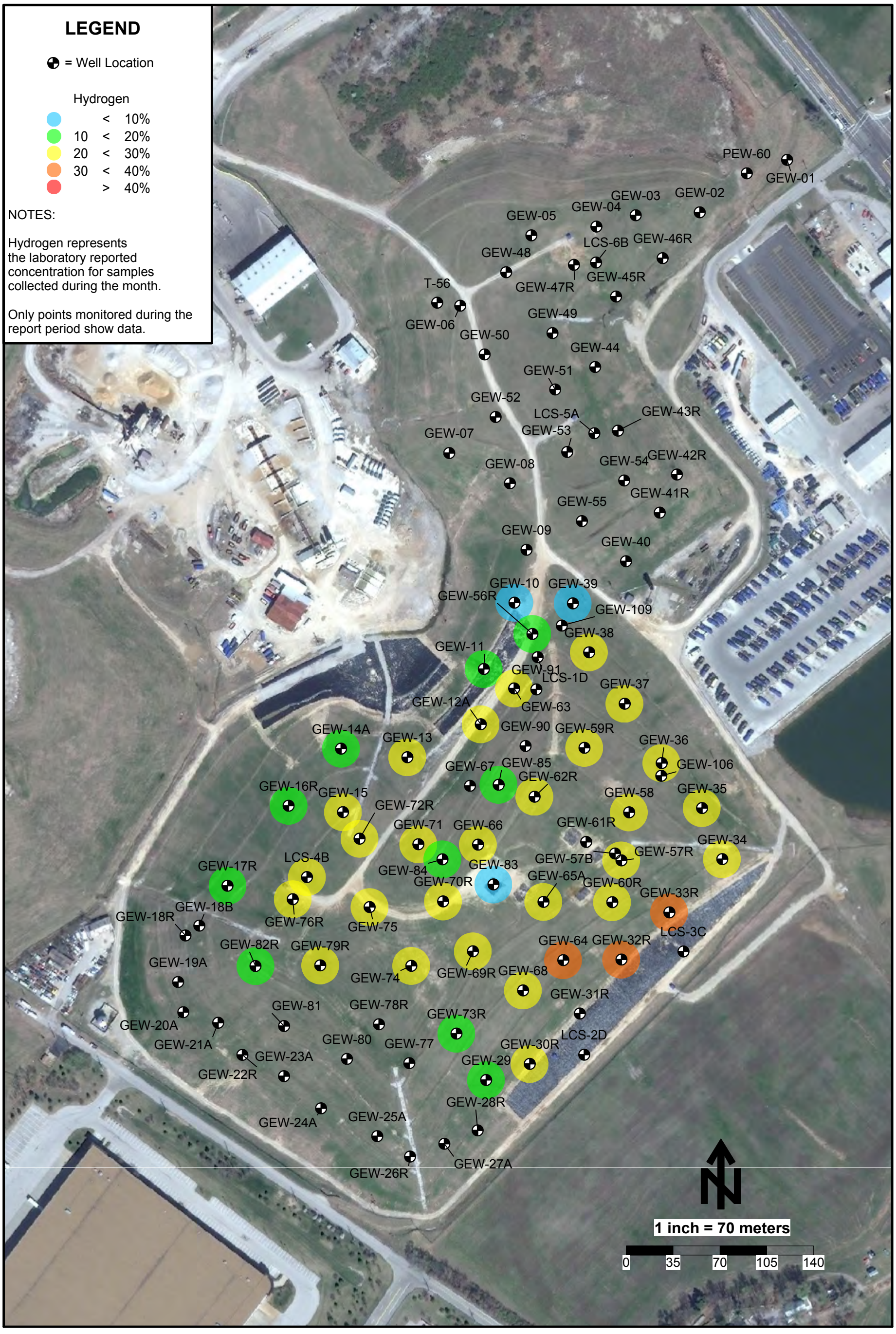

Hydrogen Data Map - September 2012 - Bridgeton Landfill

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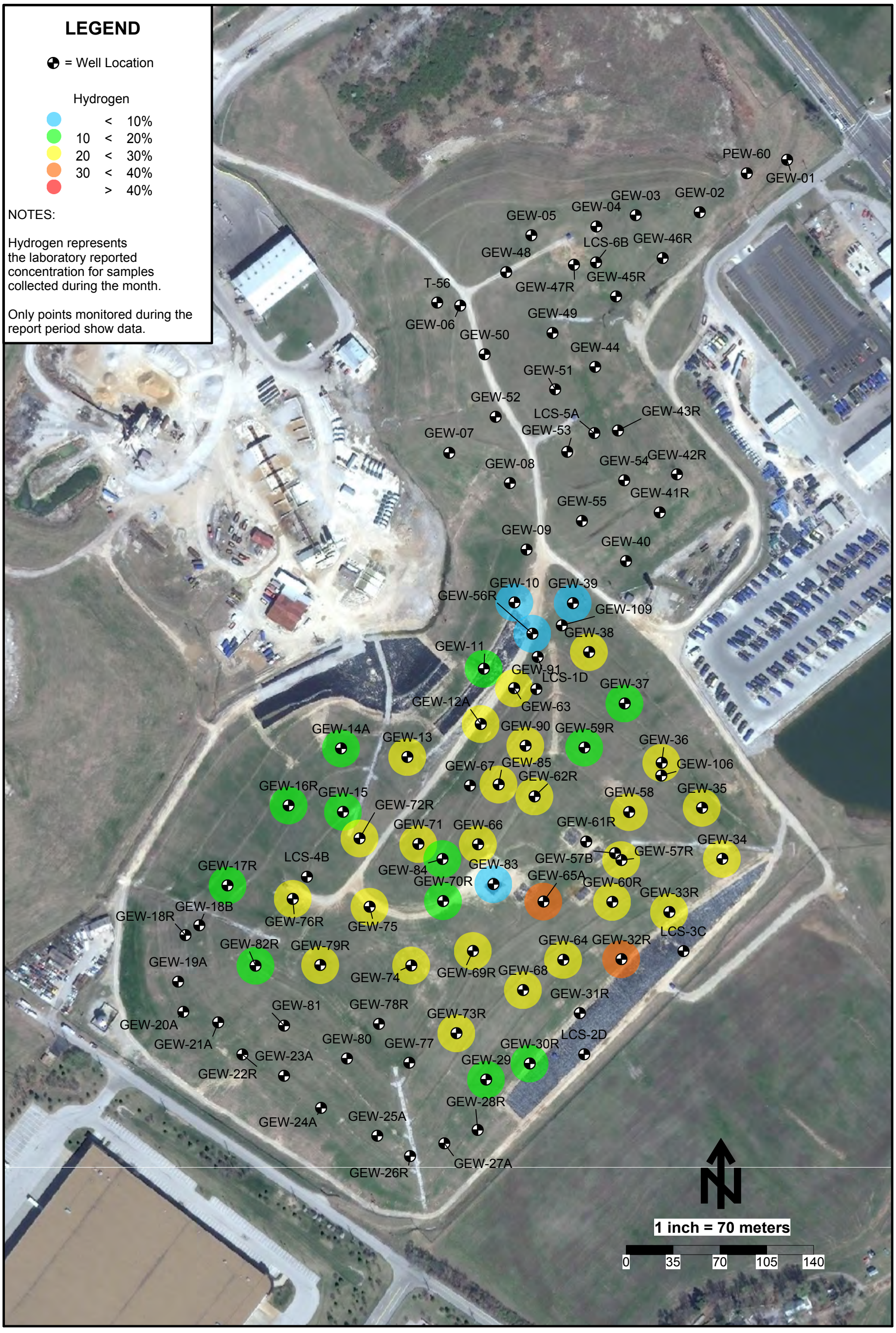

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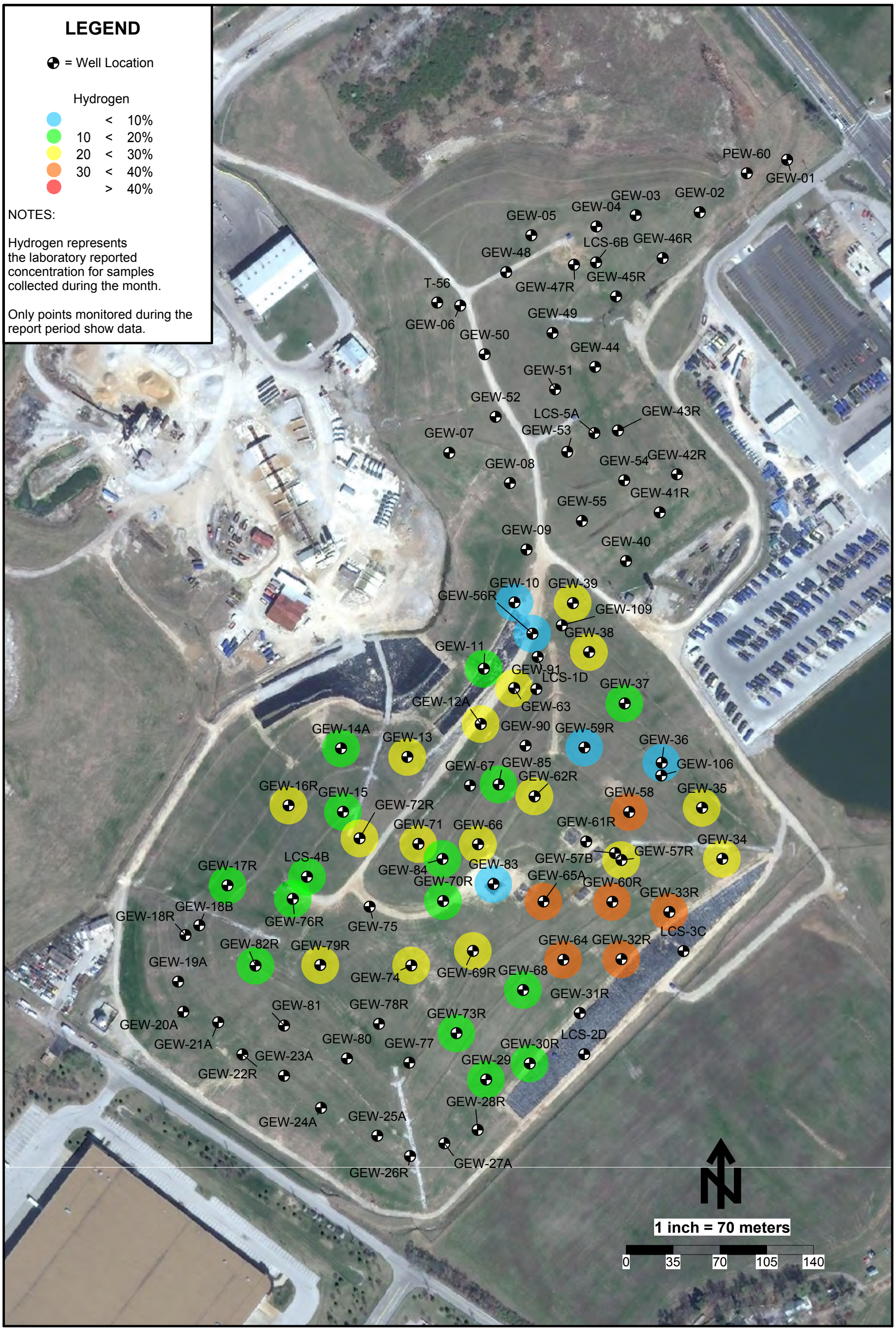

Hydrogen Data Map - December 2012 - Bridgeton Landfill

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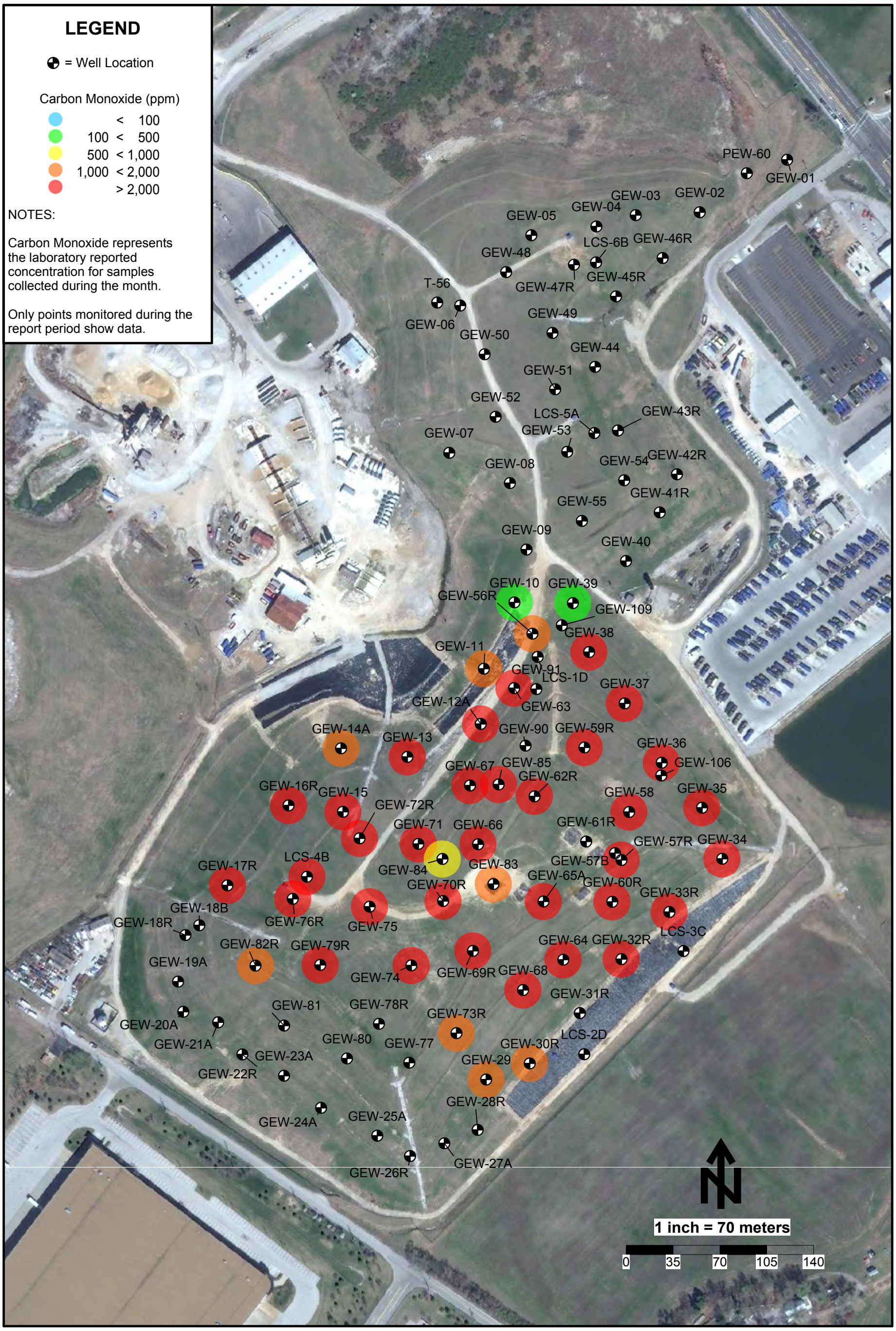

Carbon Monoxide Data Map - August 2012 - Bridgeton Landfill

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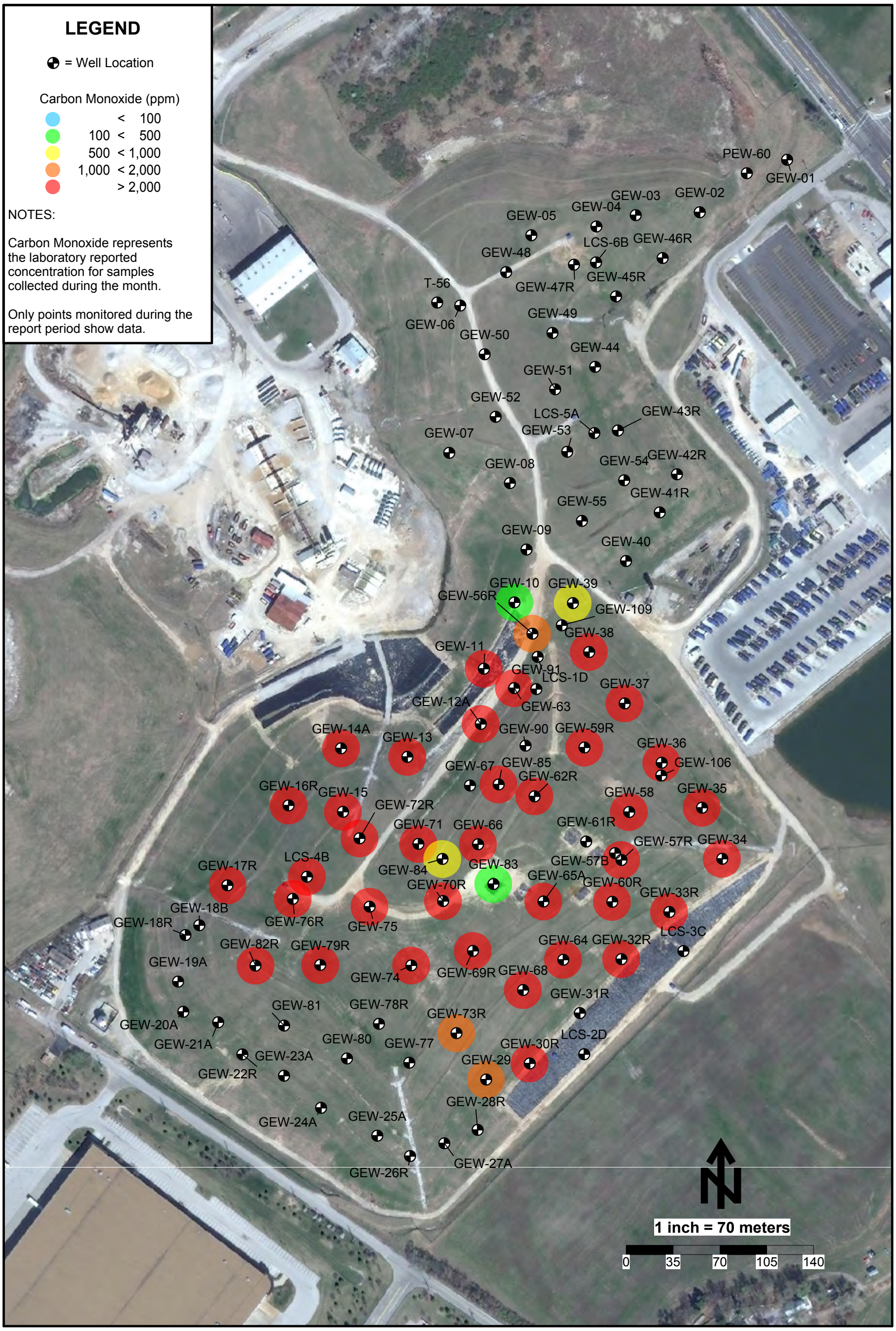

Carbon Monoxide Data Map - September 2012 - Bridgeton Landfill

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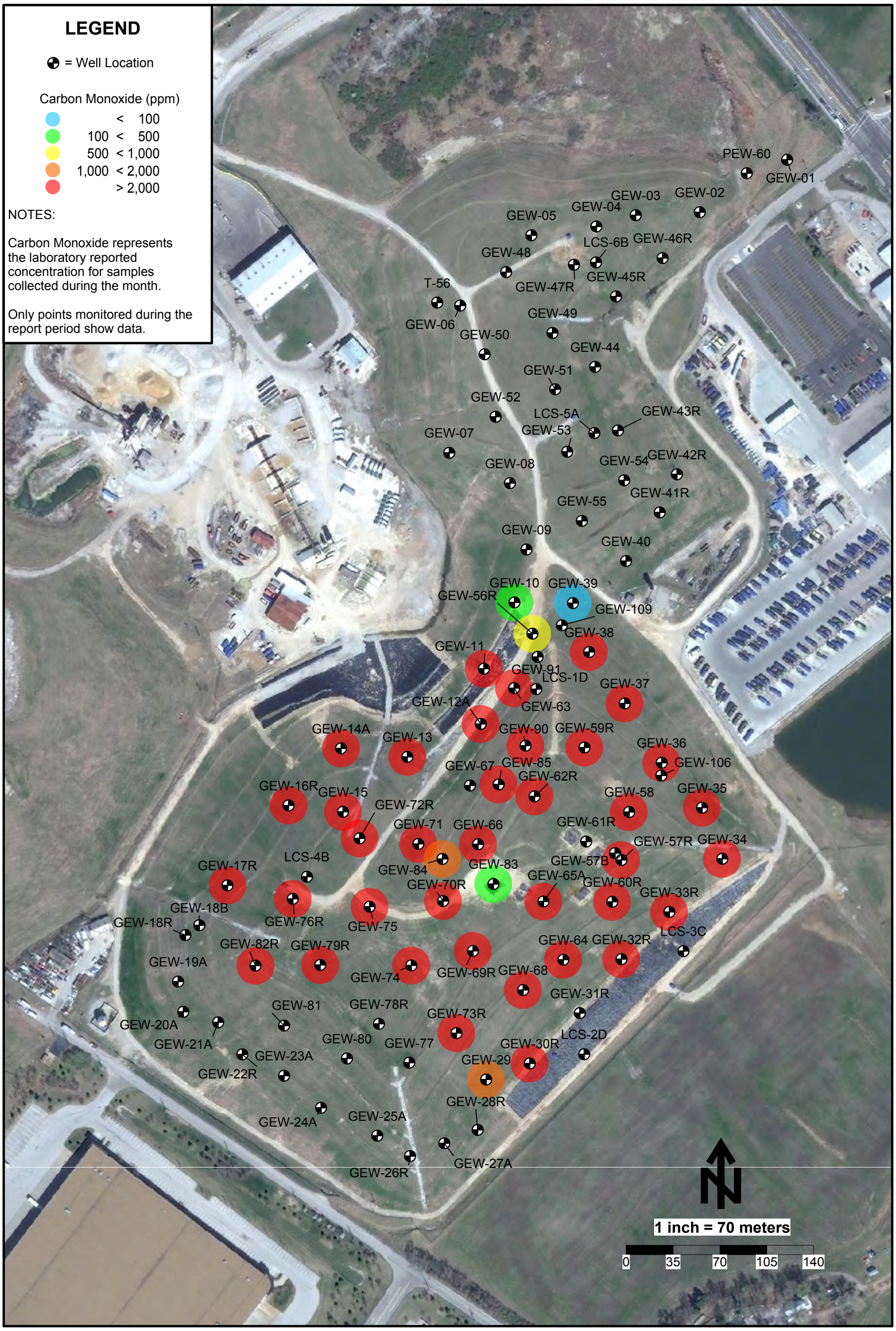

Carbon Monoxide Data Map - November 2012 - Bridgeton Landfill

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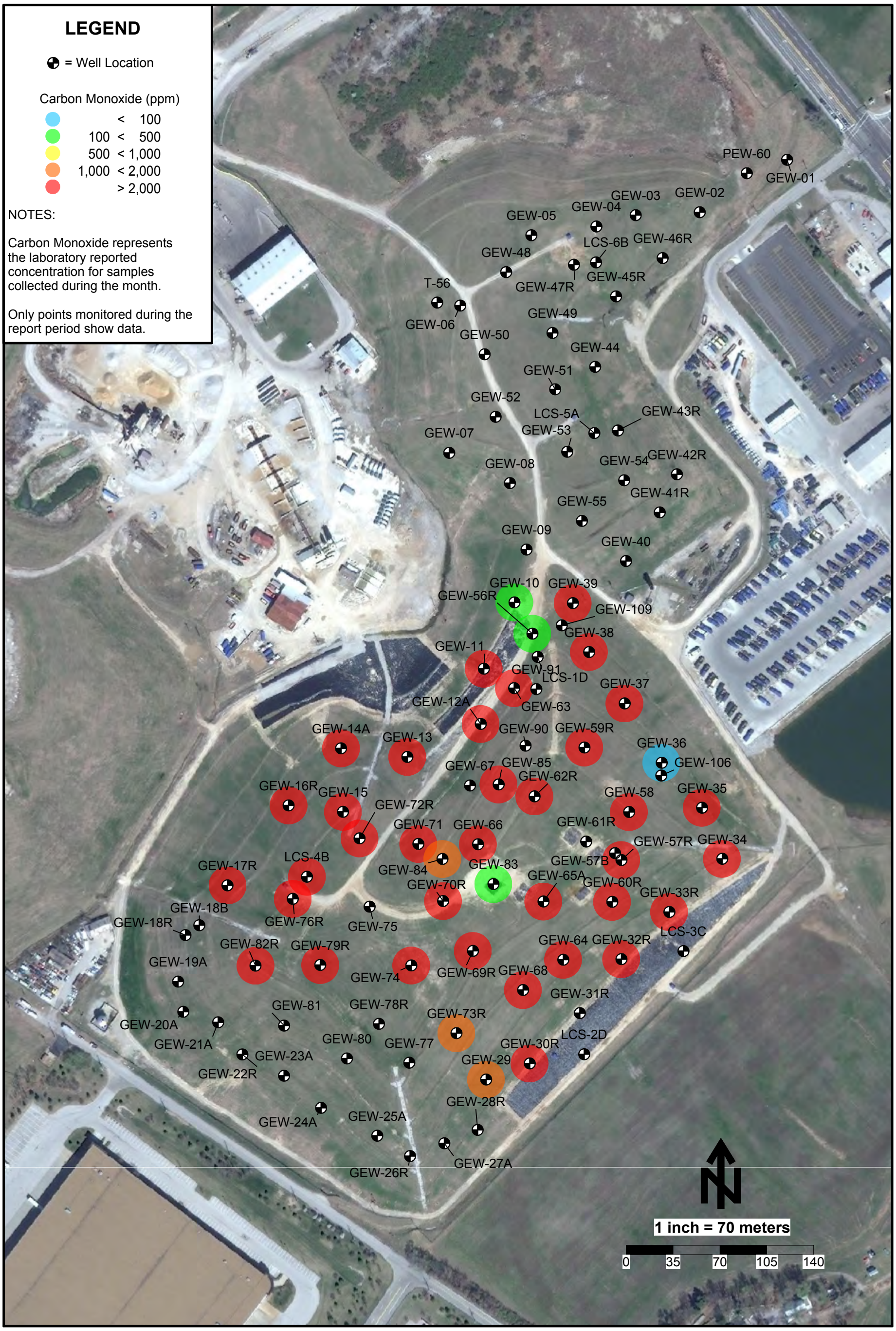

Carbon Monoxide Data Map - December 2012 - Bridgeton Landfill

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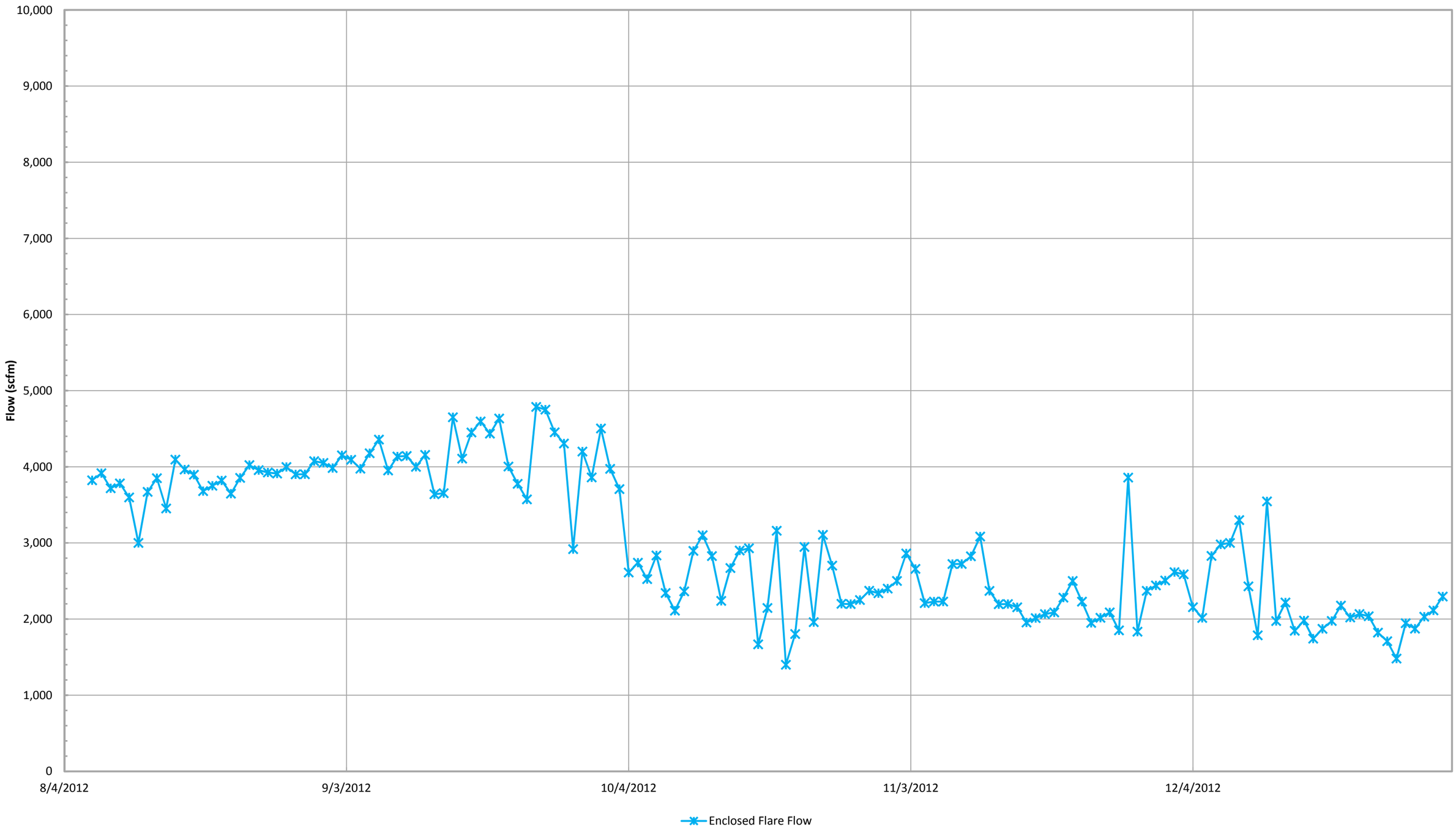
Zink Enclosed Flare Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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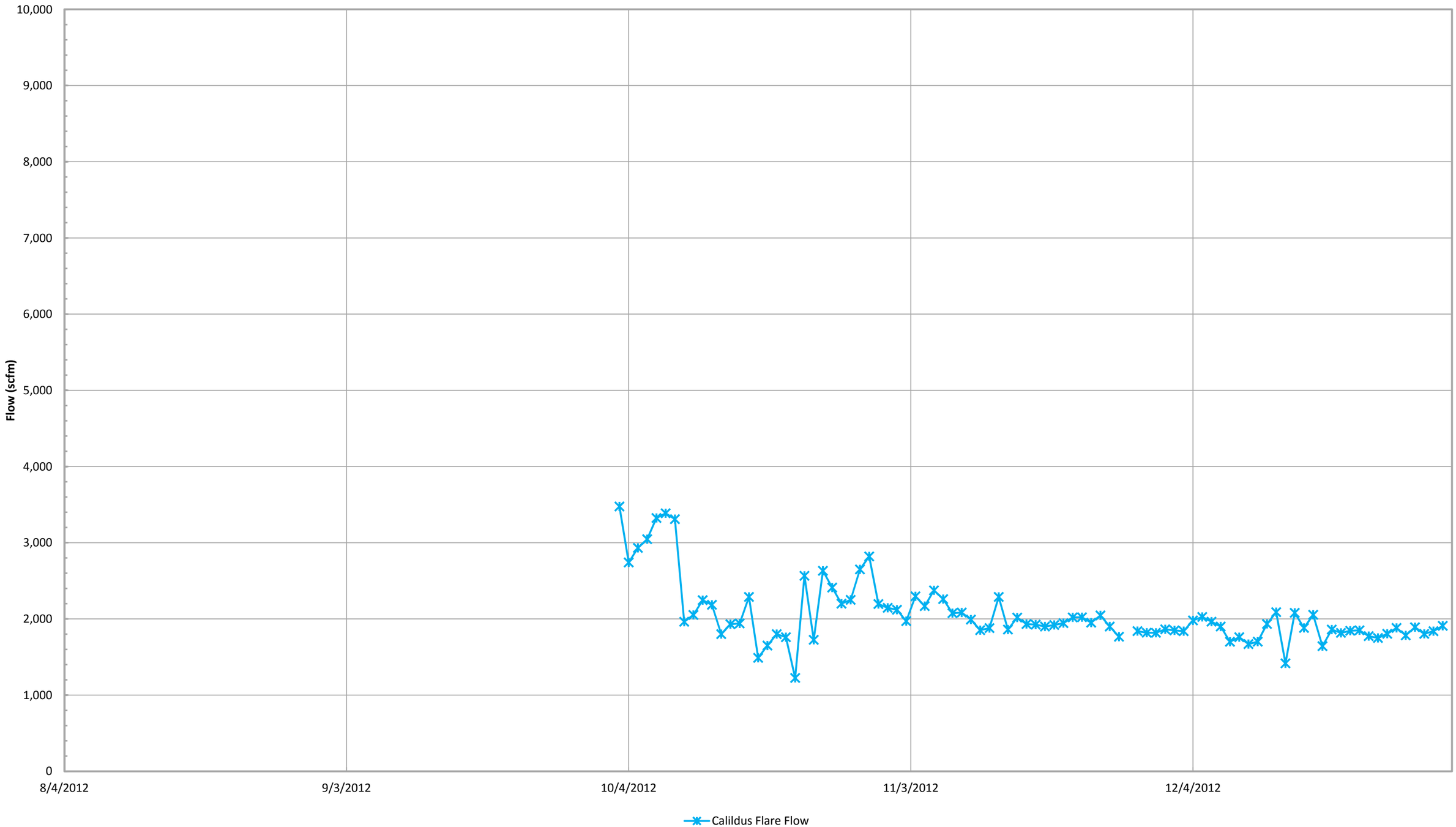
Callidus Flare Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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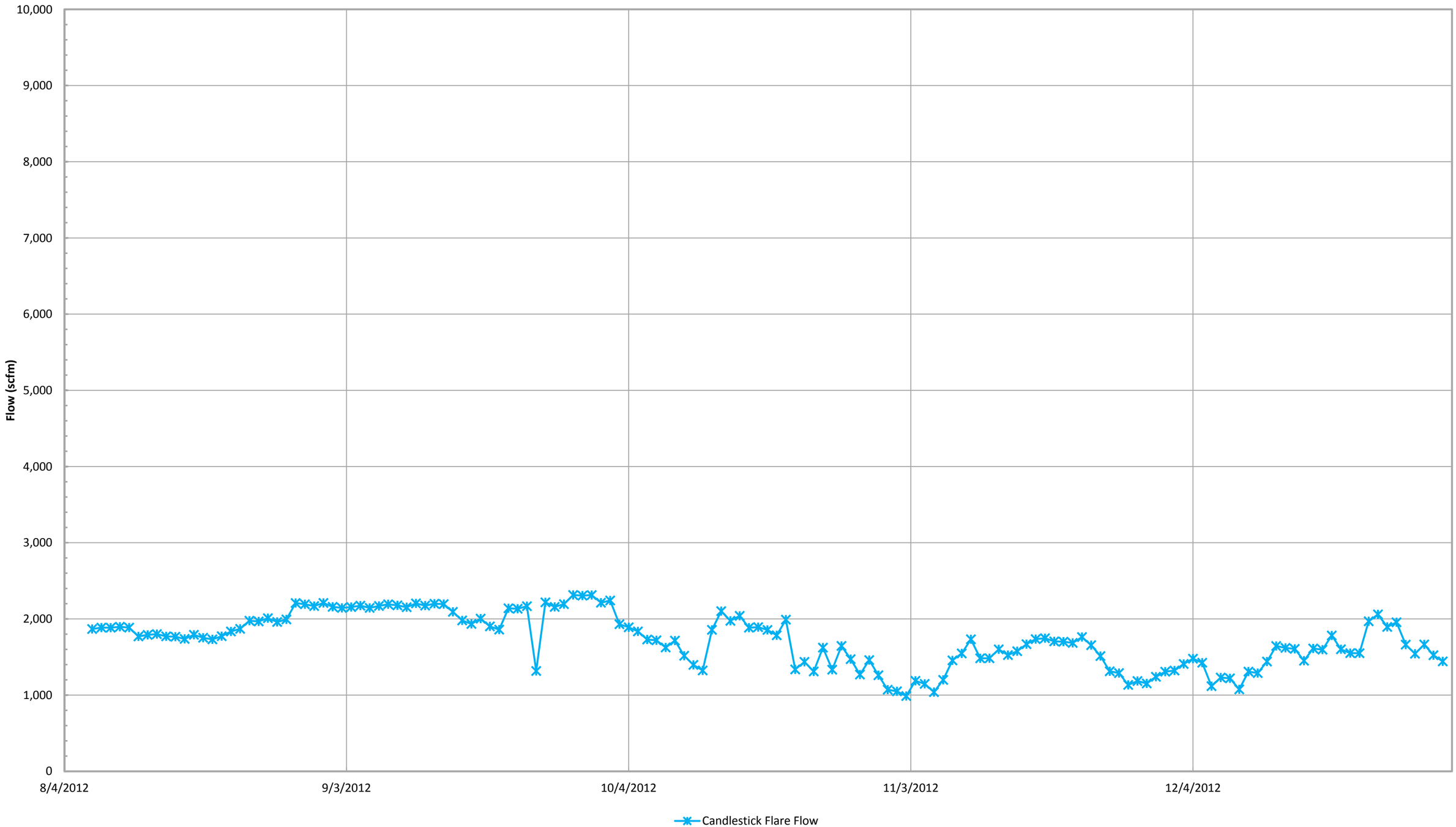
Candlestick Flare Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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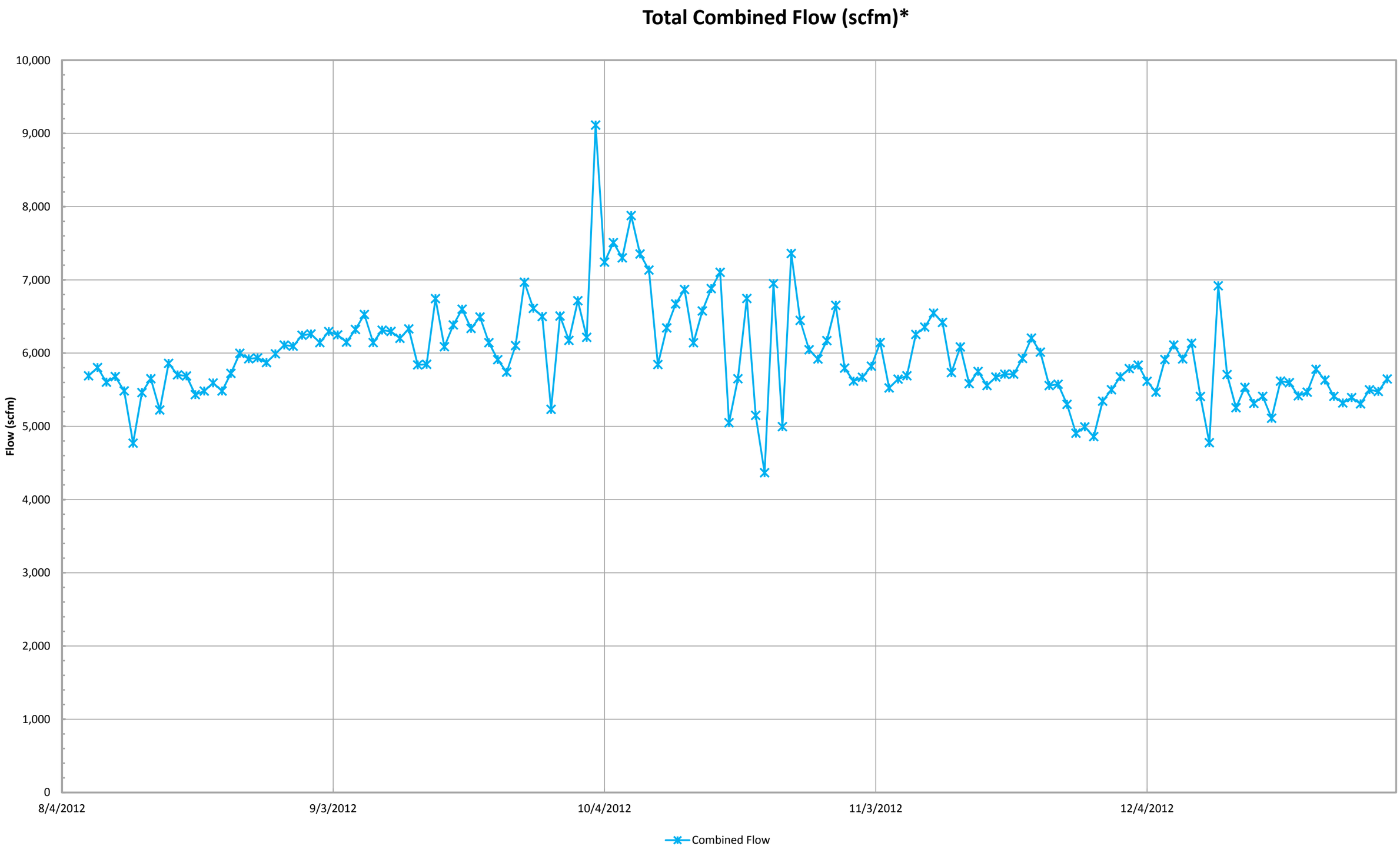

*Combined flow is based on tabulated flow data collected daily from each device.

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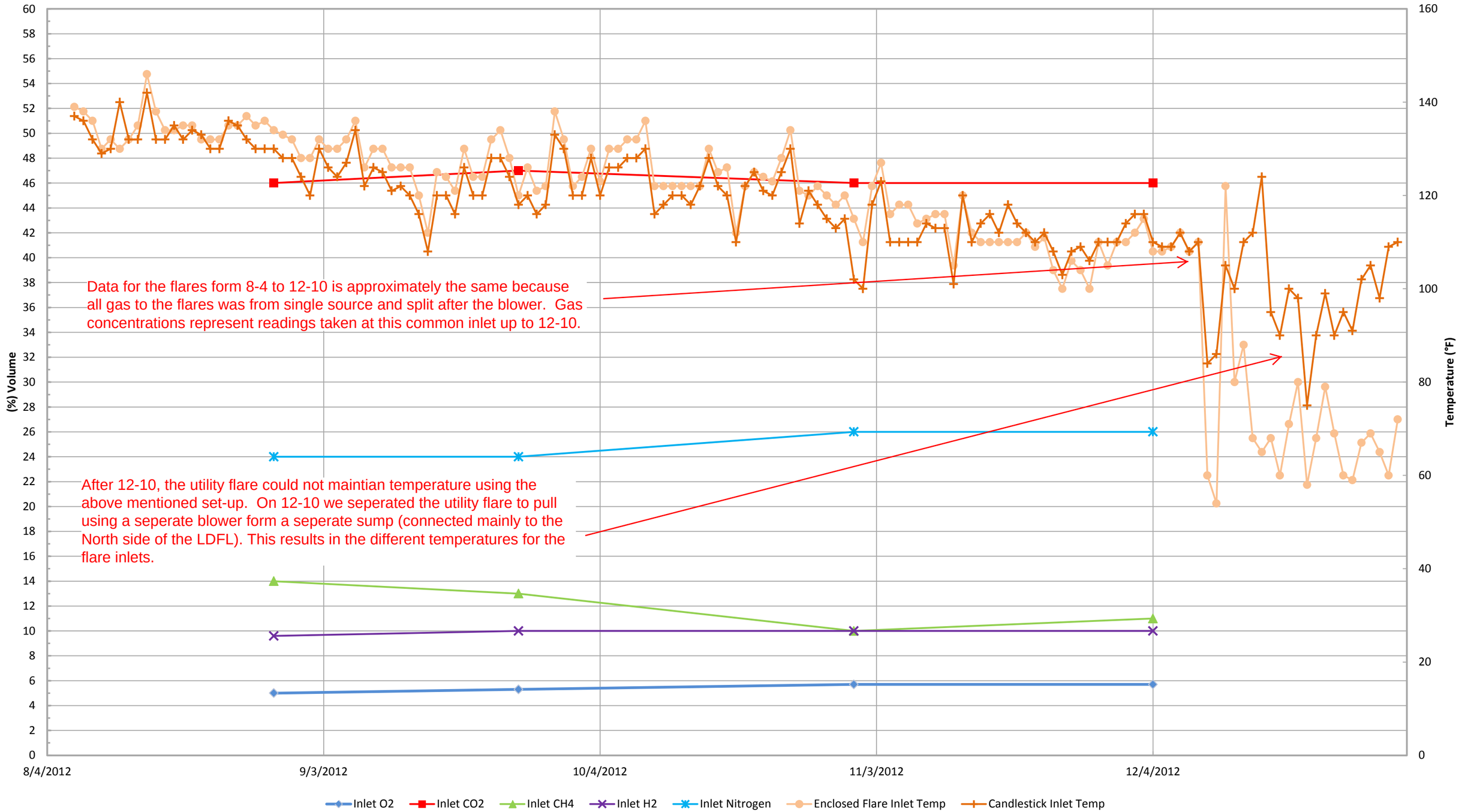
Inlet Gas and Temperature*



*Gas data collected from Laboratory Reports. Temperature data collected form GEM 2000 field readings.

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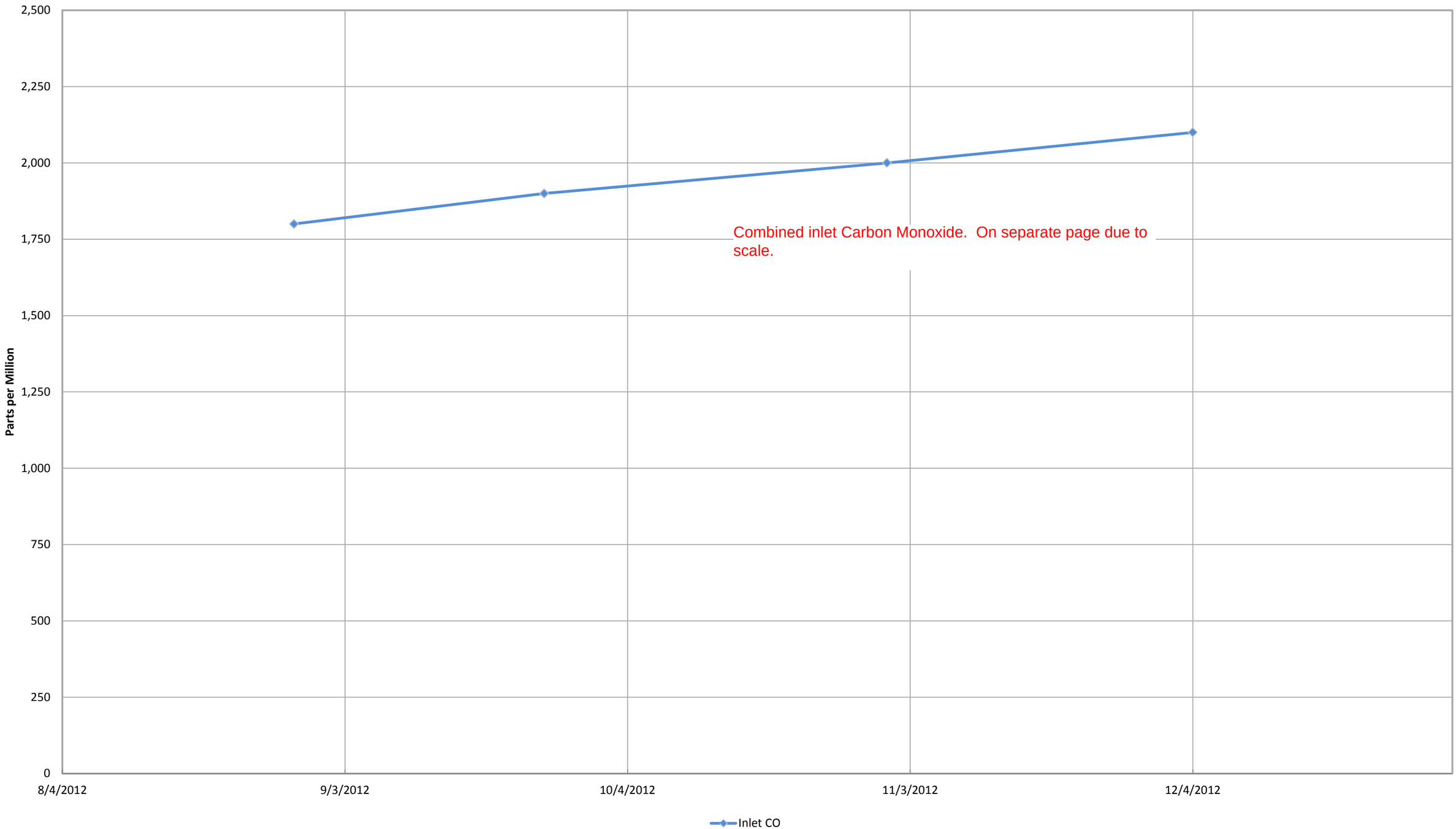
Inlet Carbon Monoxide*



*Data collected from Laboratory Reports.

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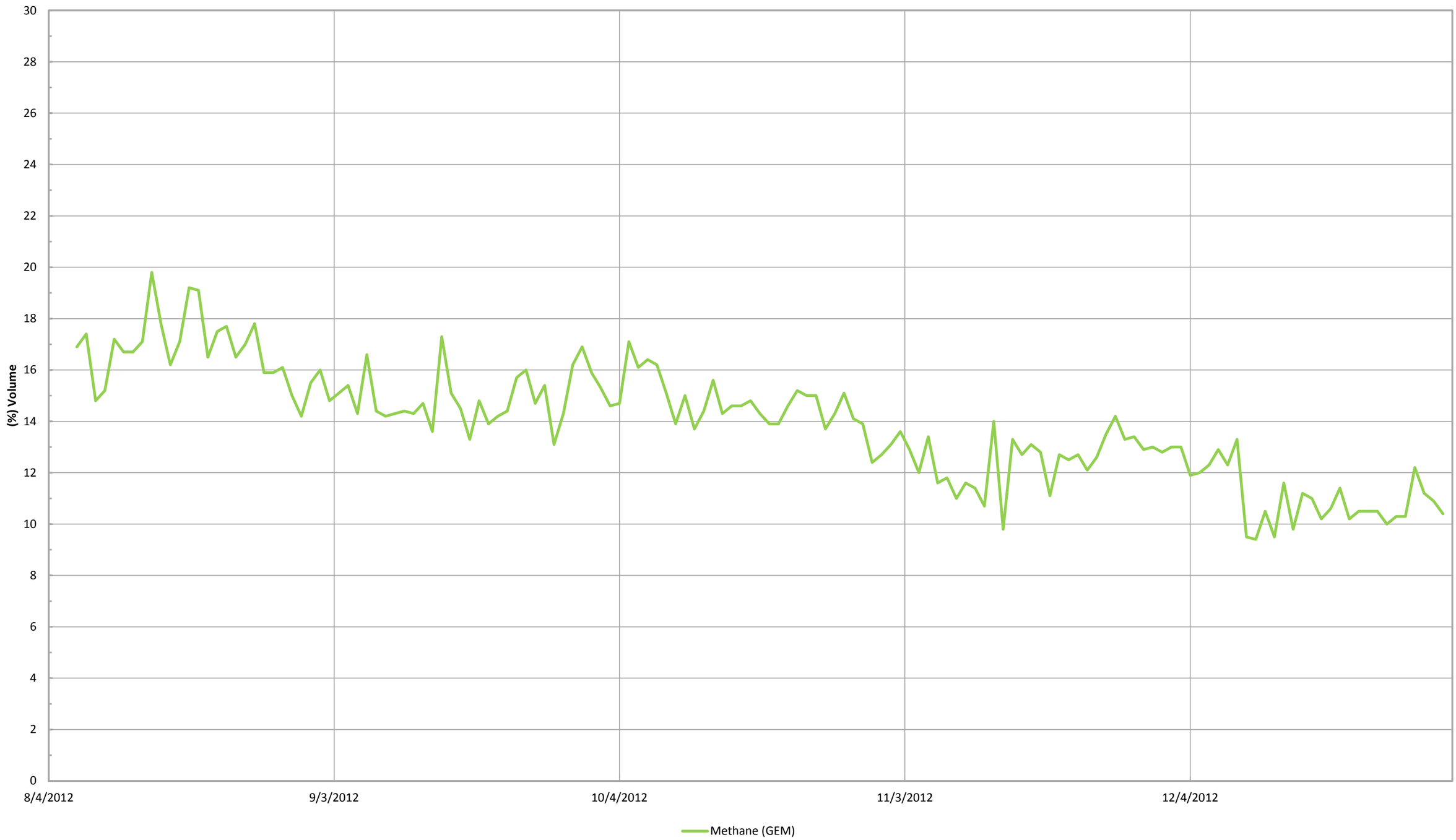
Enclosed Flare Methane (GEM 2000)*



*Gas data collected form GEM 2000 feild monitoring instrument.

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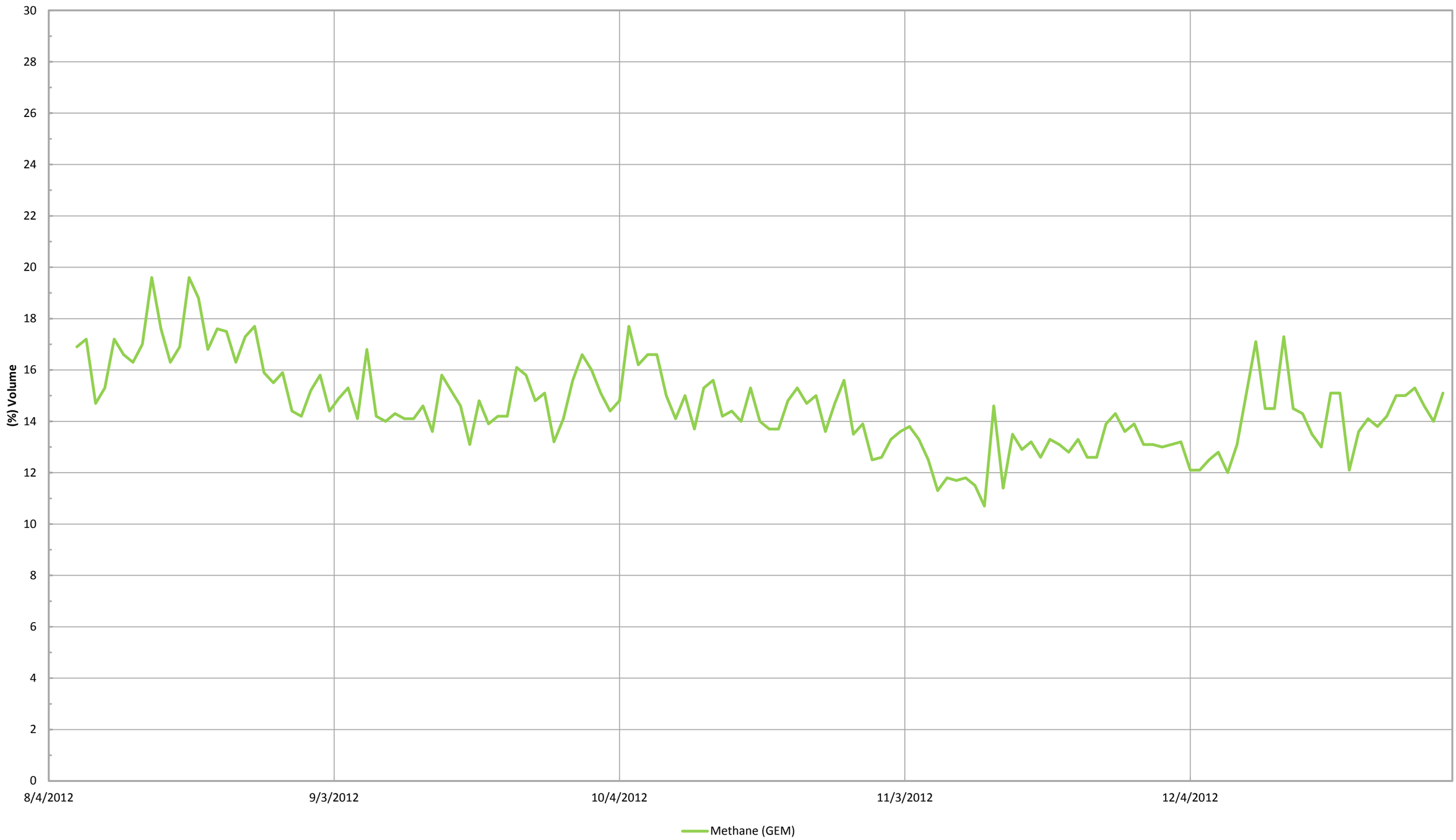
Candlestick Methane (GEM 2000)*



*Gas data collected form GEM 2000 feild monitoring instrument.

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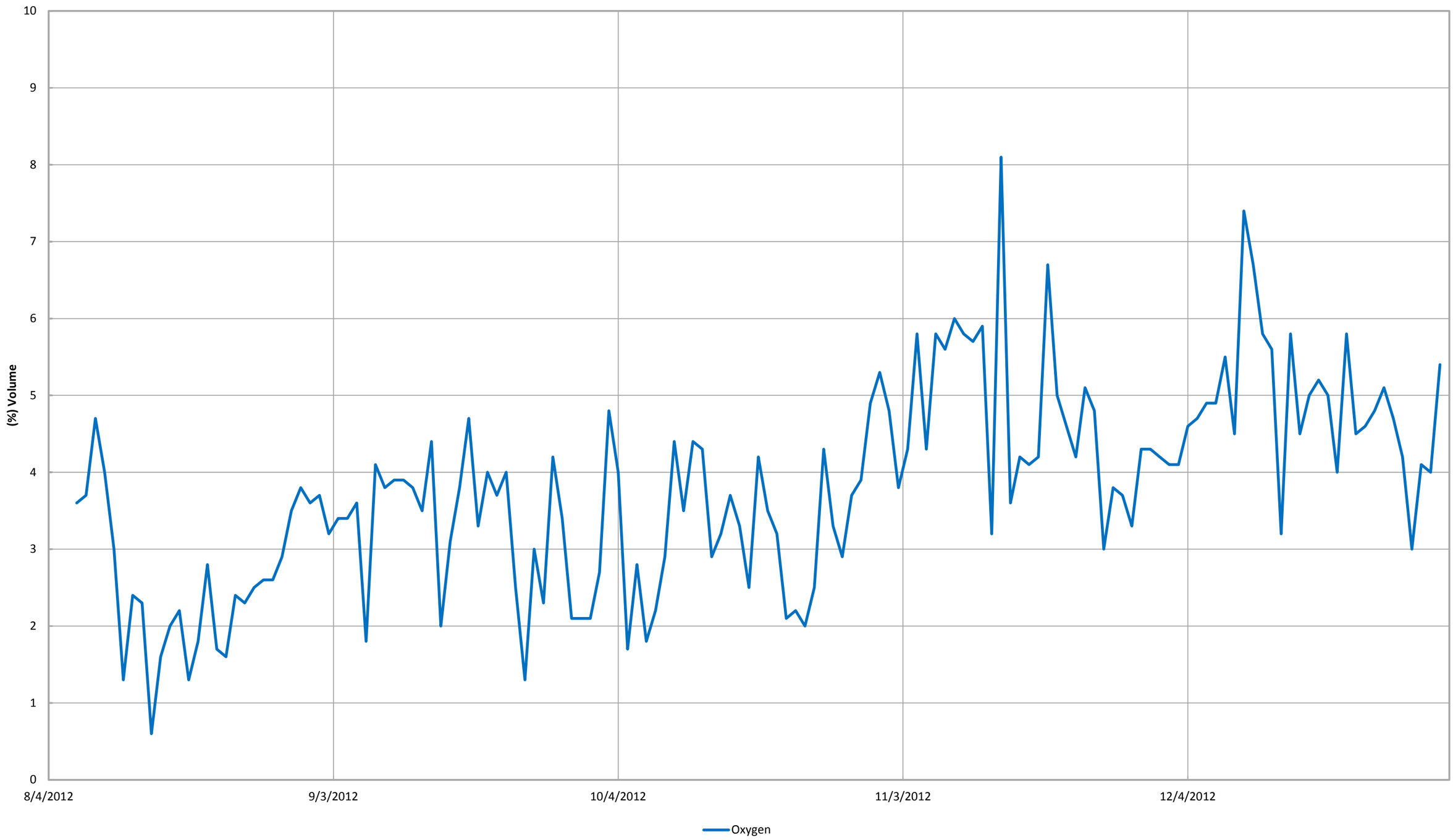
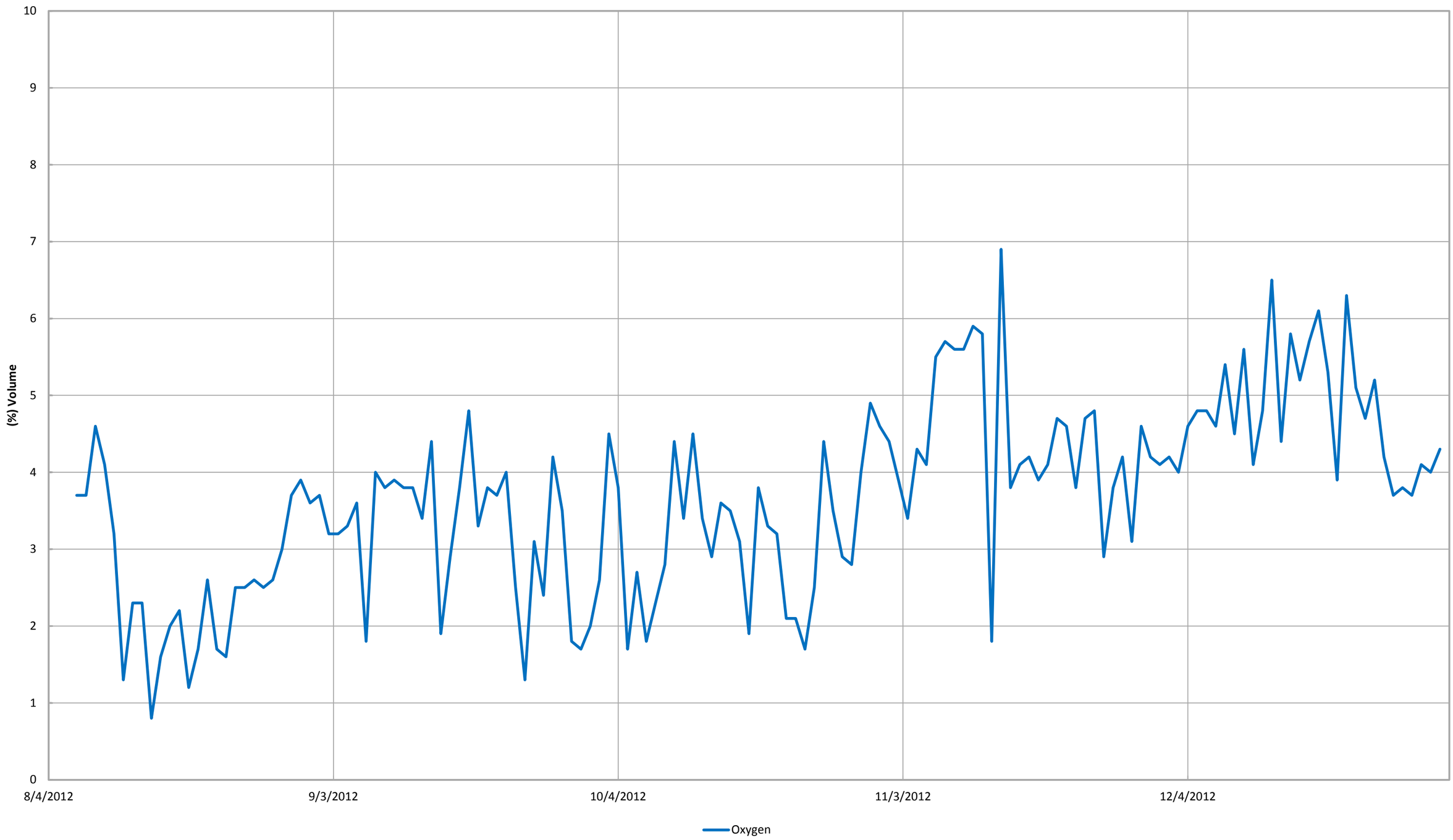
Enclosed Flare Oxygen (GEM 2000)*



*Gas data collected form GEM 2000 feild monitoring instrument.

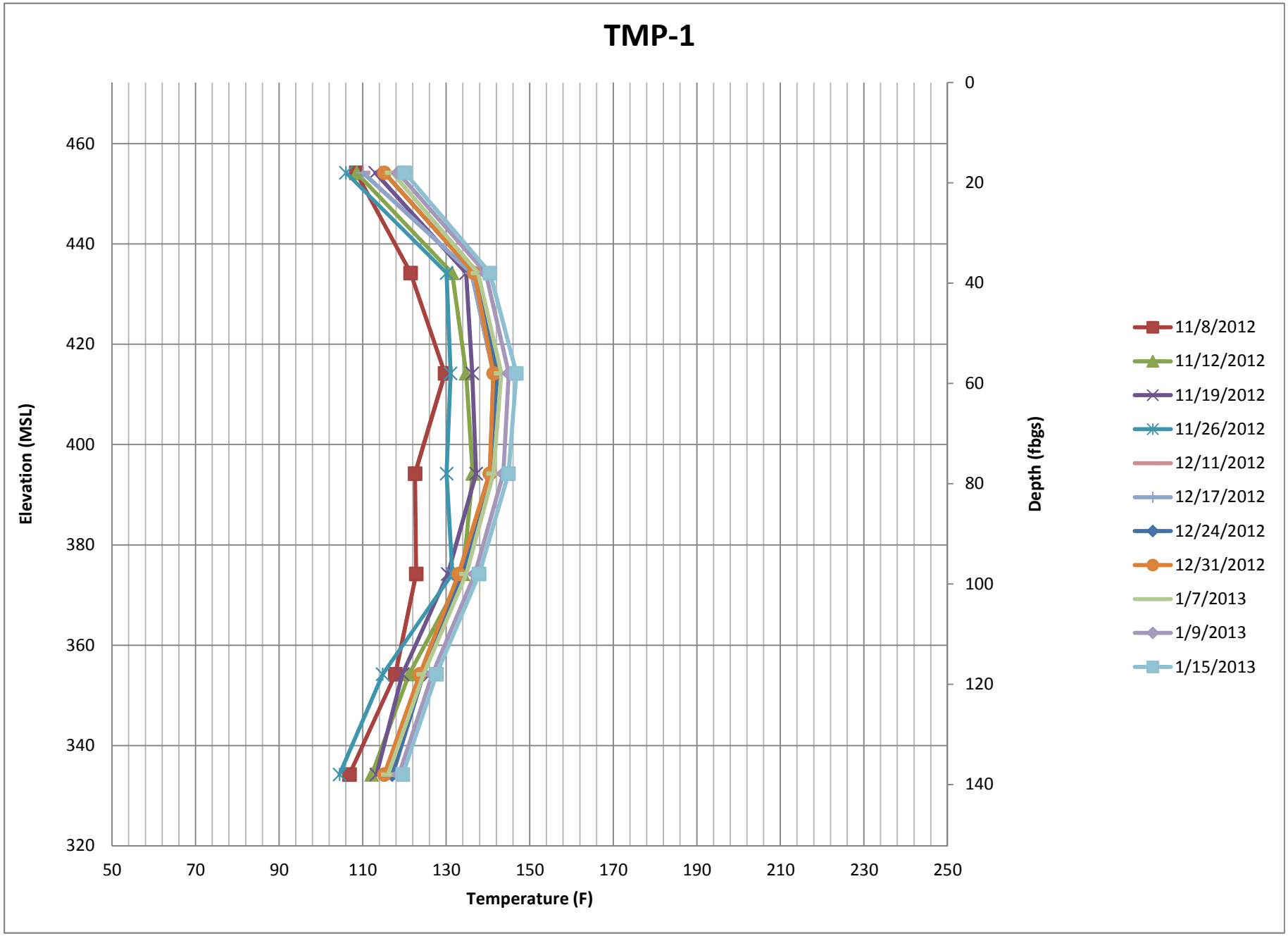
SCS ENGINEERS

Candlestick Oxygen (GEM 2000)*



*Gas data collected form GEM 2000 feild monitoring instrument.

SCS ENGINEERS


TMP-1
Elevation (MSL)
460
440
420
400
380
360
340
320
Depth (fbgs)
0
20
40
60
80
100
120
140
50
70
90
110
130
150
170
190
210
230
250
Temperature (F)
11/8/2012
11/12/2012
11/19/2012
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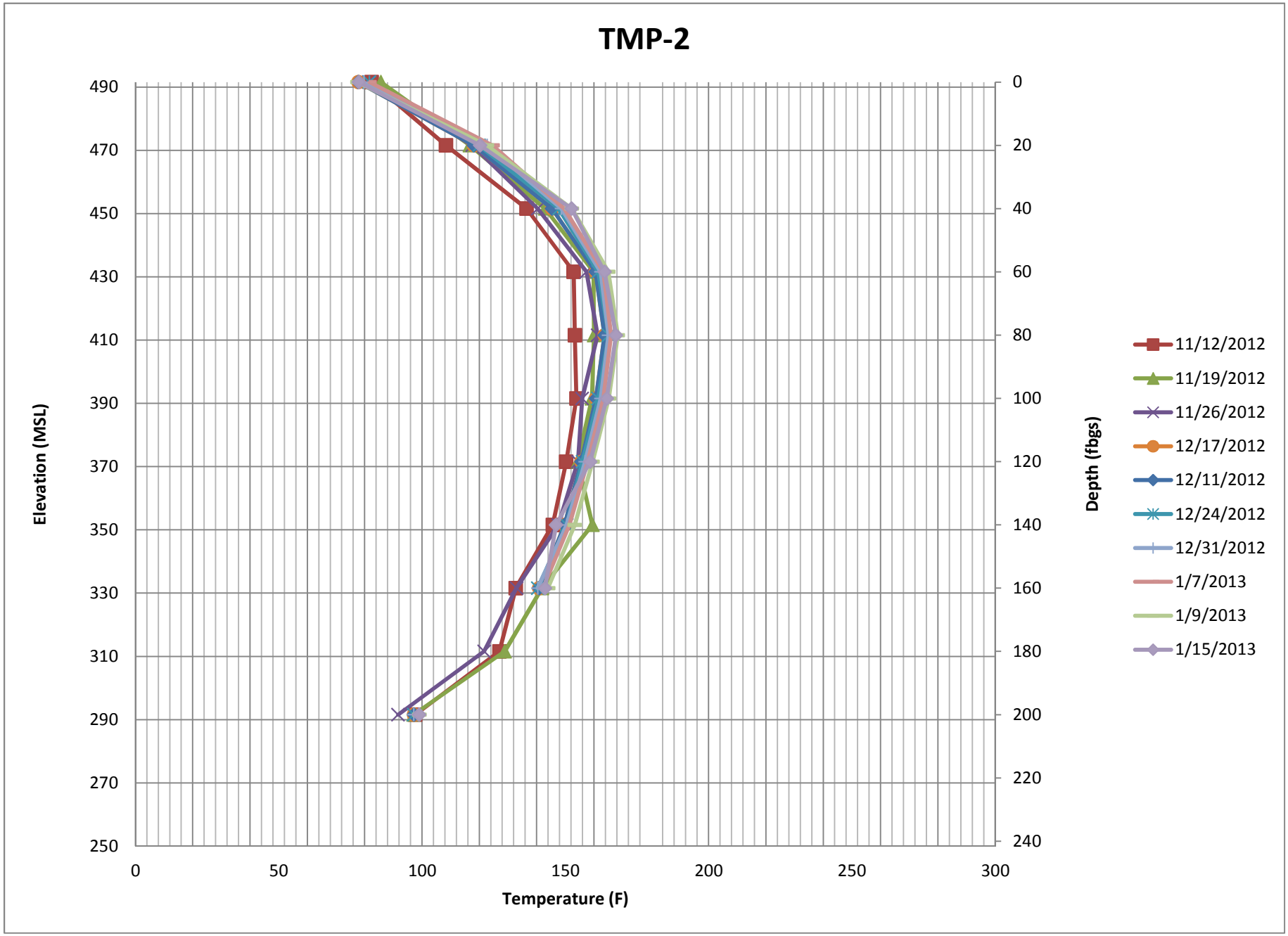
1/9/2013
1/15/2013


TMP-2
Elevation (MSL)
490
470
450
430
410
390
370
350
330
310
290
270
250
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
240
0
50
100
150
200
250
300
Temperature (F)
11/12/2012
11/19/2012
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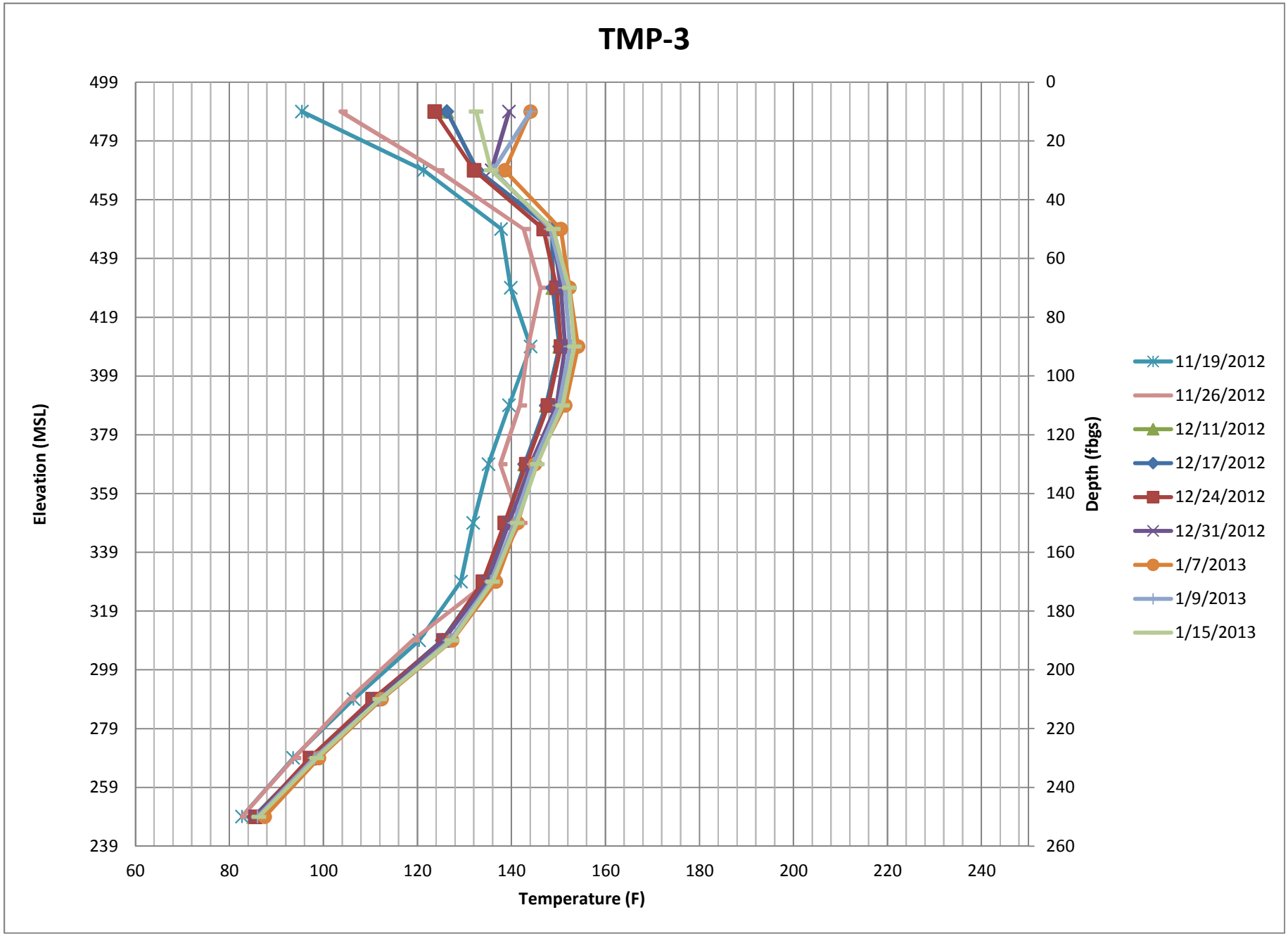
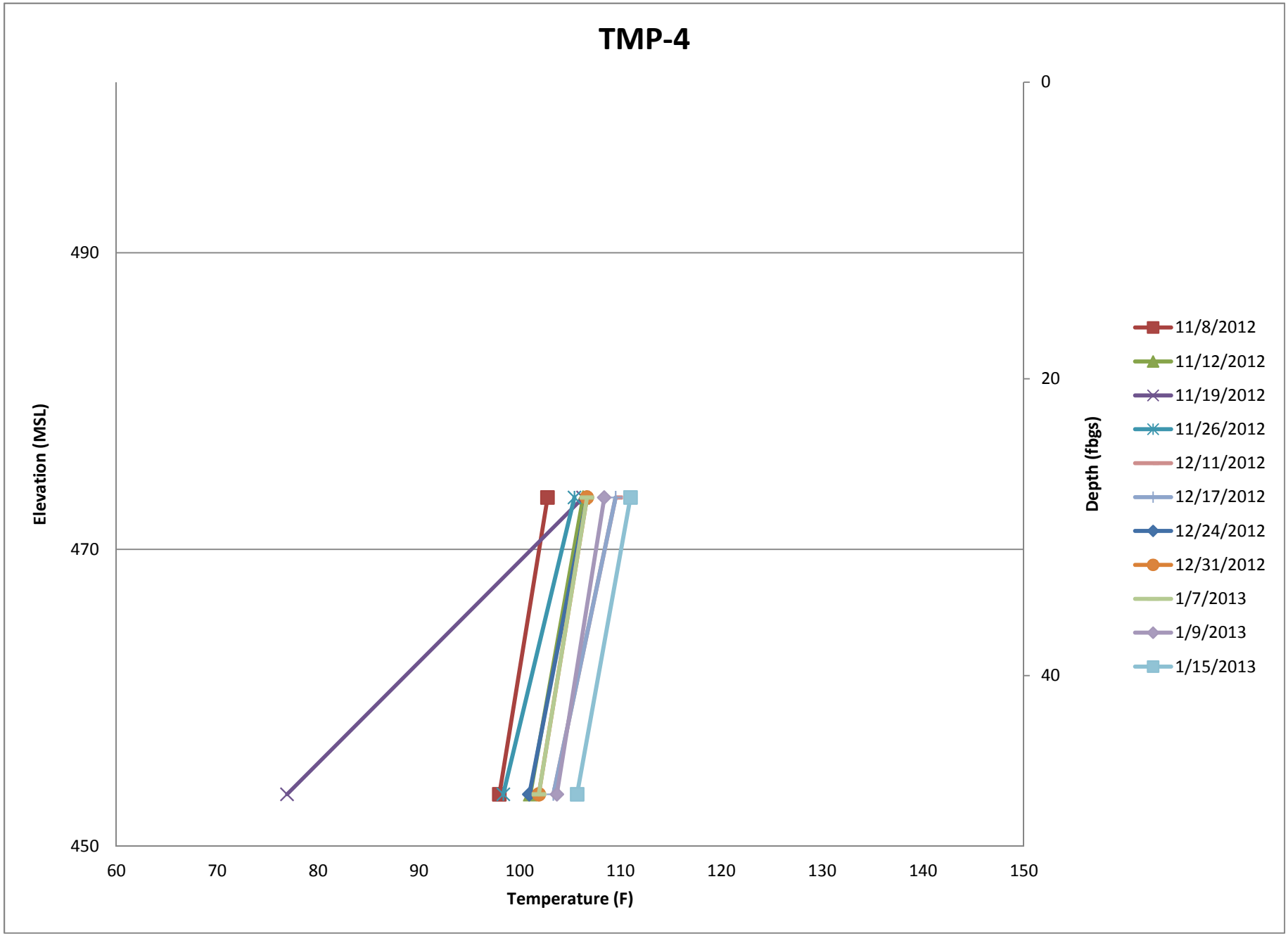
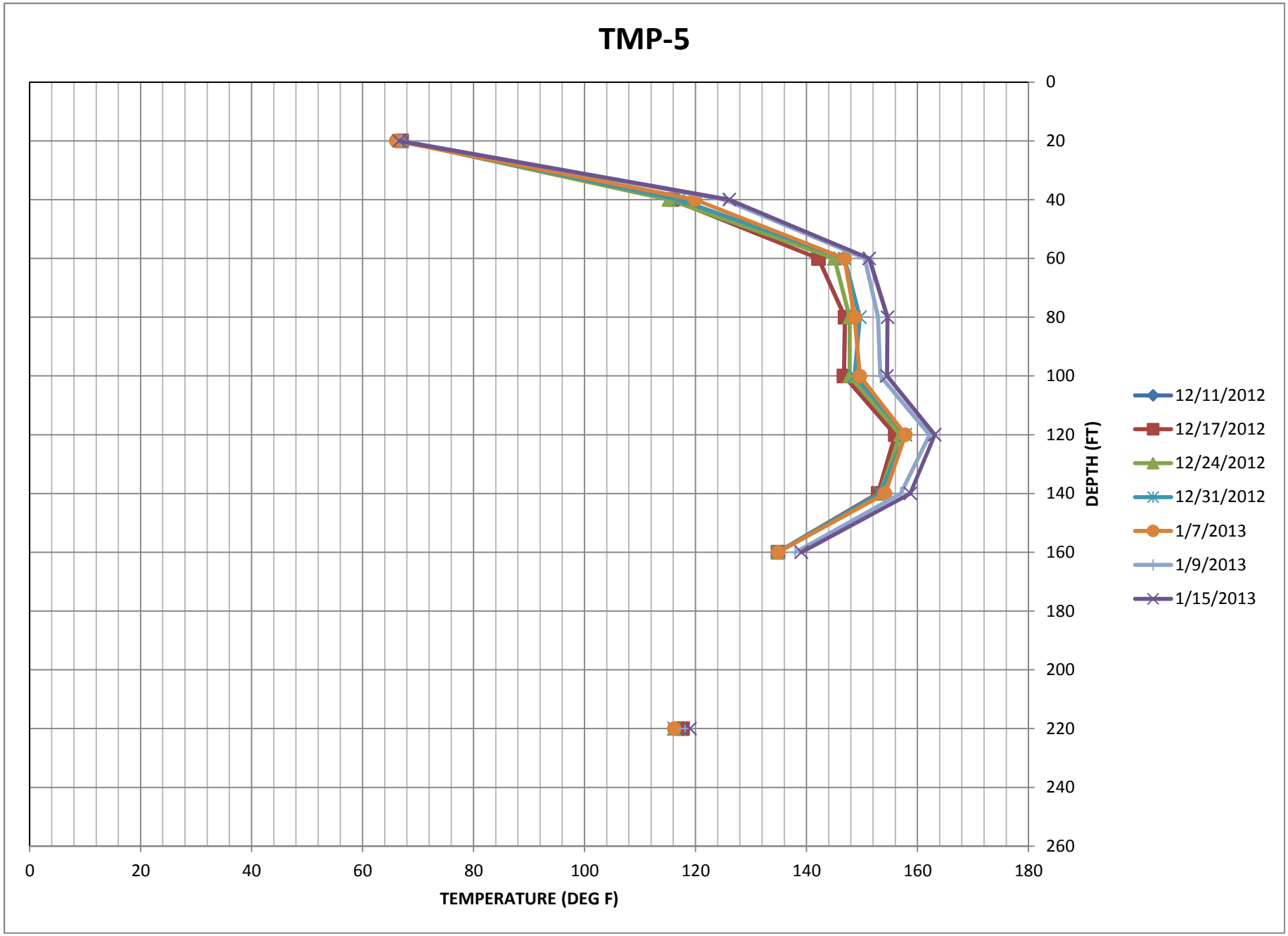
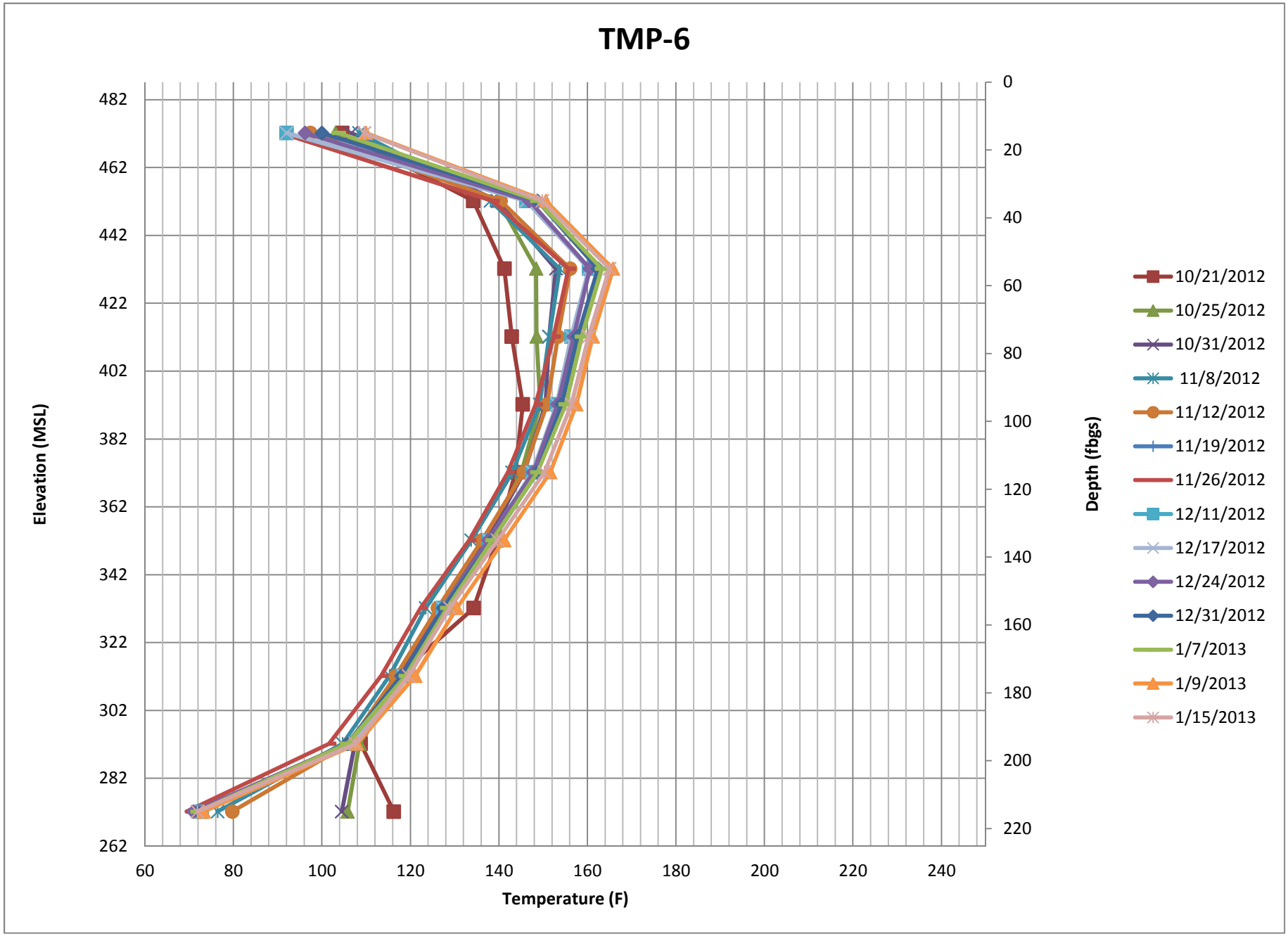
1/7/2013
1/9/2013
1/15/2013


TMP-3
Elevation (MSL)
499
479
459
439
419
399
379
359
339
319
299
279
259
239
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
60
80
100
120
140
160
180
200
220
240
Temperature (F)
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-4
Elevation (MSL)
490
470
450
Depth (fbgs)
0
20
40
60
70
80
90
100
110
120
130
140
150
Temperature (F)
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-5
0
20
40
60
80
100
120
140
160
180
200
220
240
260
DEPTH (FT)
0
20
40
60
80
100
120
140
160
180
TEMPERATURE (DEG F)
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-6
Elevation (MSL)
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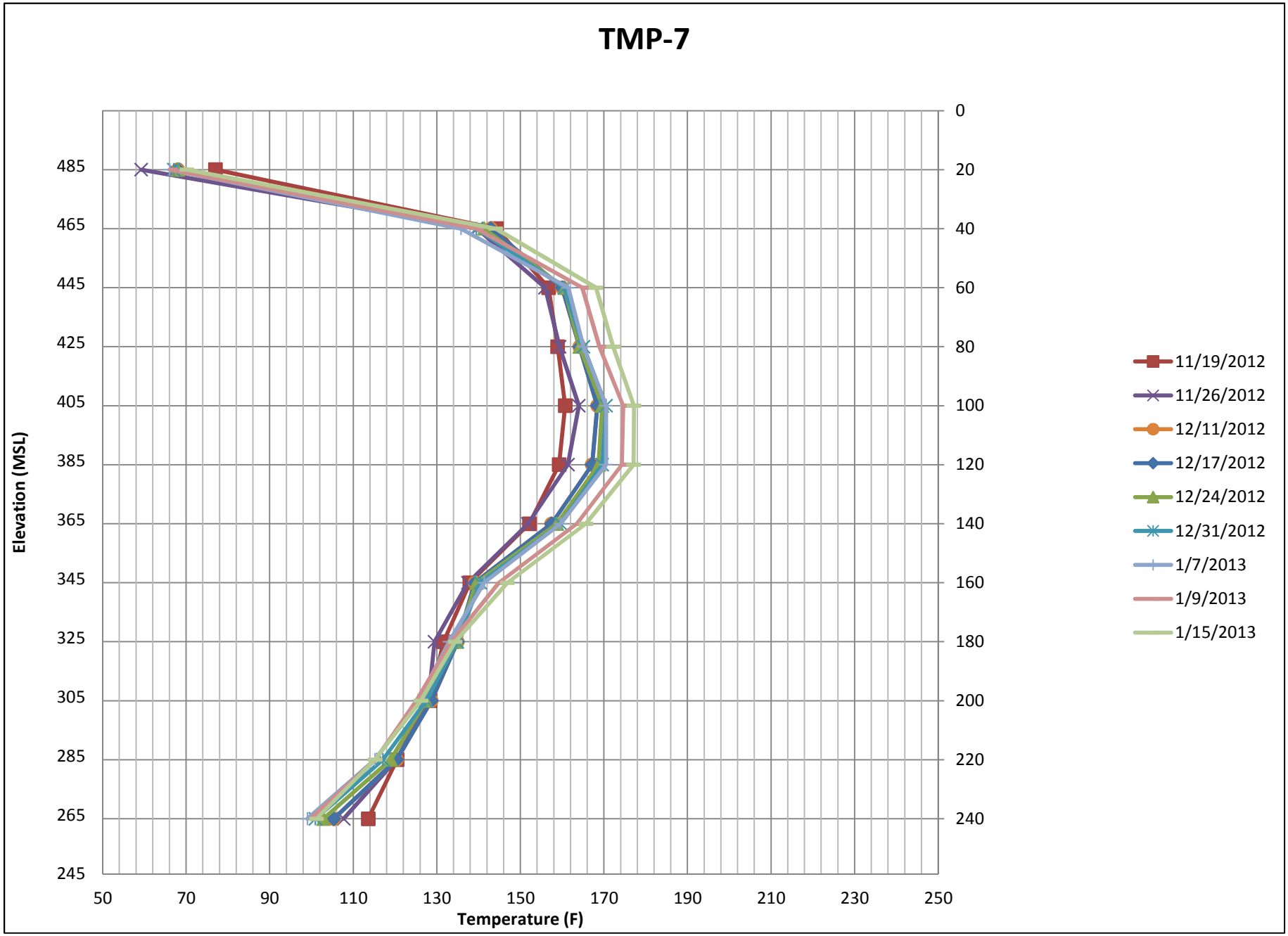
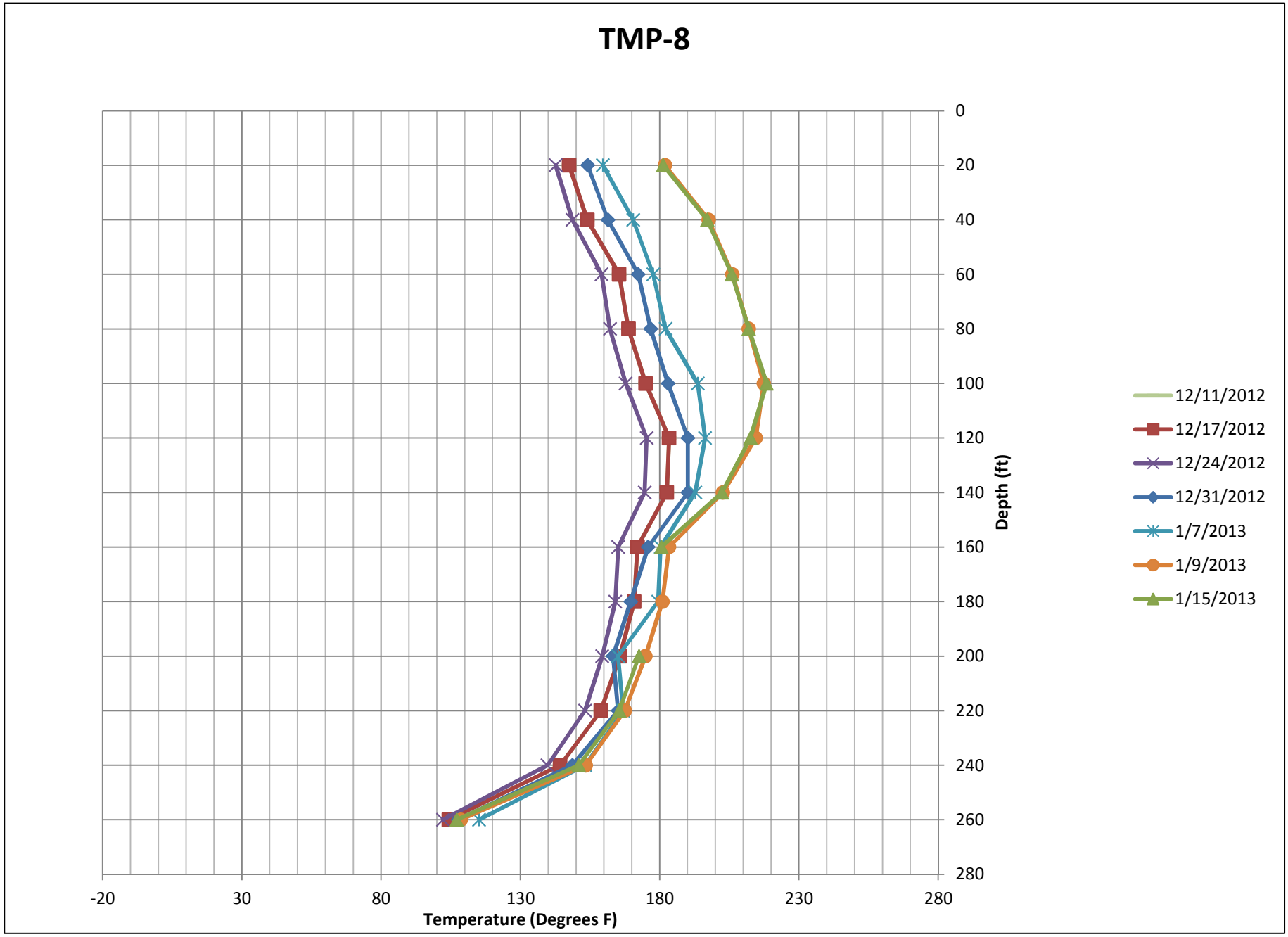
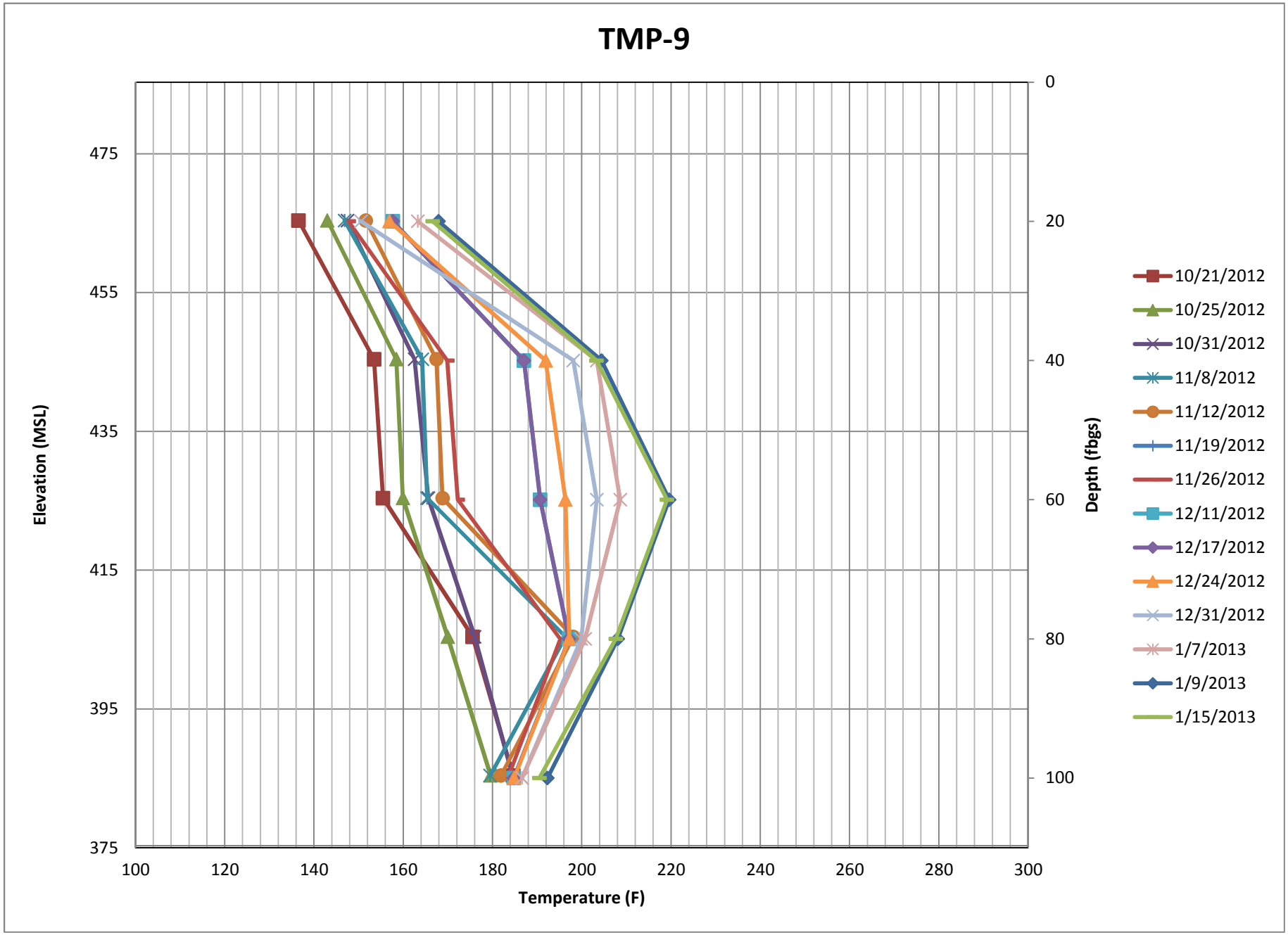
462
442
422
402
382
362
342
322
302
282
262
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
60
80
100
120
140
160
180
200
220
240
Temperature (F)
10/21/2012
10/25/2012
10/31/2012
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-7
Elevation (MSL)
485
465
445
425
405
385
365
345
325
305
285
265
245
0
20
40
60
80
100
120
140
160
180
200
220
240
50
70
90
110
130
150
170
190
210
230
250
Temperature (F)
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-8
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
Depth (ft)
-20
30
80
130
180
230
280
Temperature (Degrees F)
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013


TMP-9
Elevation (MSL)
475
455
435
415
395
375
Depth (fbgs)
0
20
40
60
80
100
Temperature (F)
100
120
140
160
180
200
220
240
260
280
300
10/21/2012
10/25/2012
10/31/2012
11/8/2012
11/12/2012
11/19/2012
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12/24/2012
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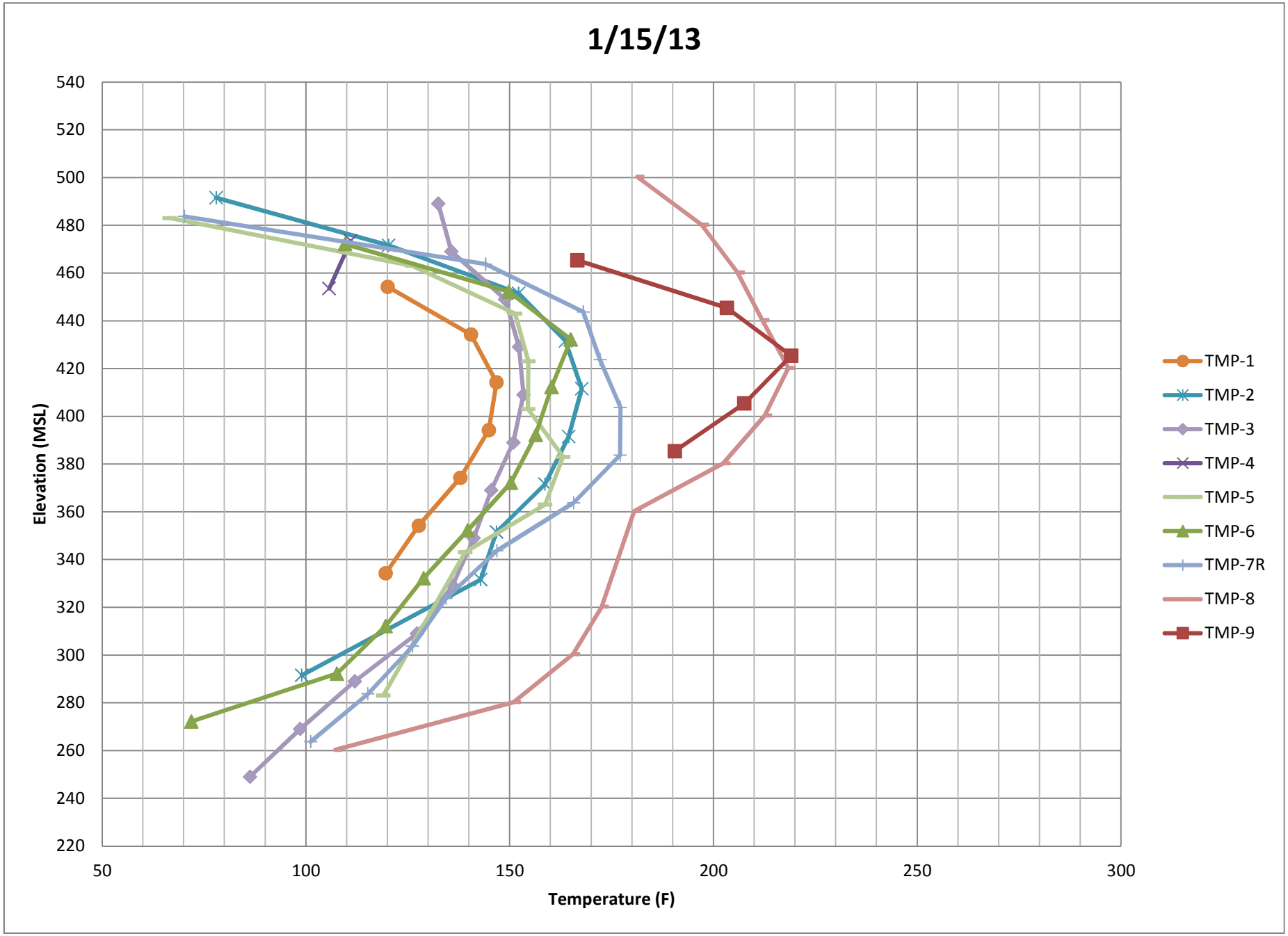
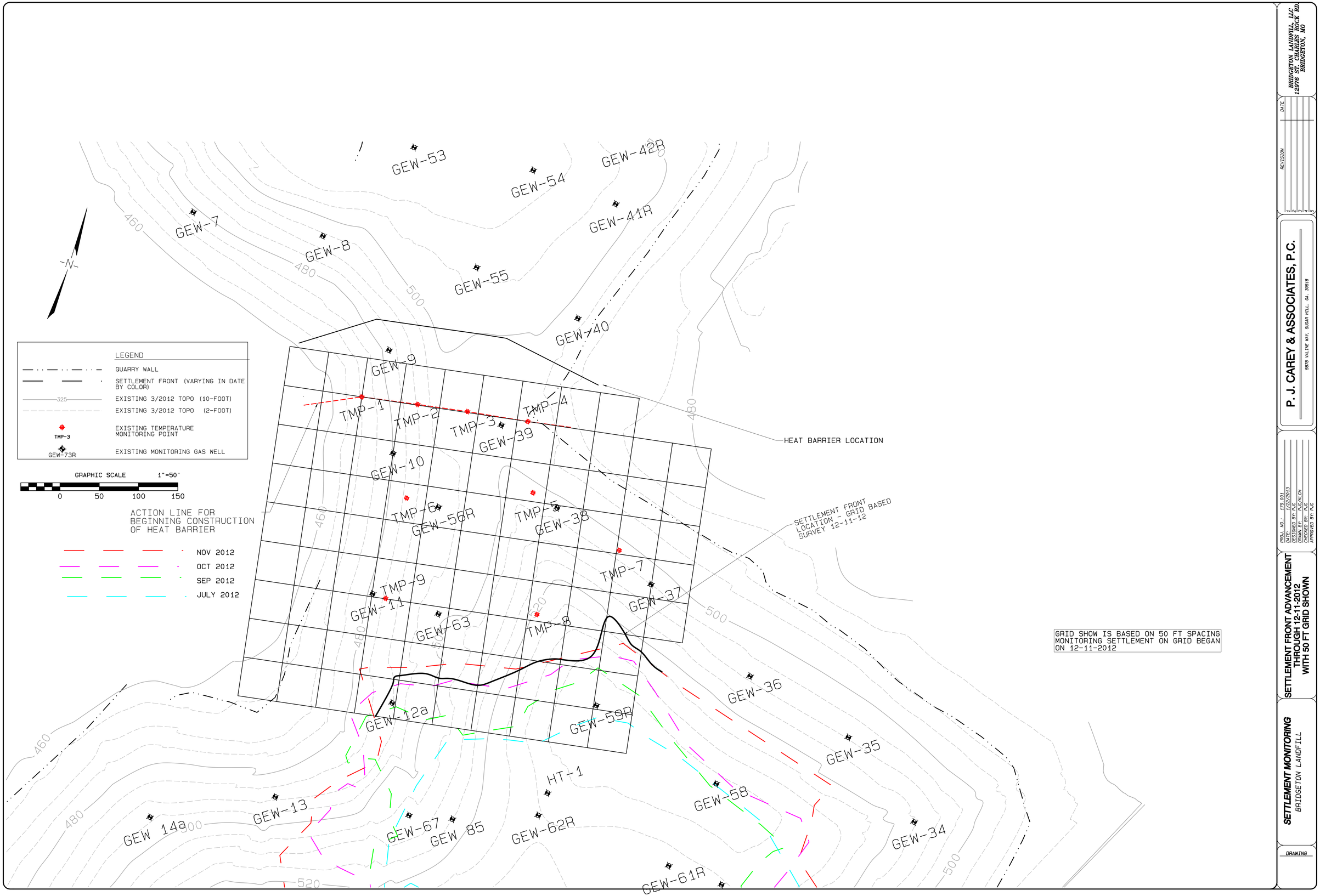
1/7/2013
1/9/2013
1/15/2013


1/15/13
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50
100
150
200
250
300
Temperature (F)
TMP-1
TMP-2
TMP-3
TMP-4
TMP-5
TMP-6
TMP-7R
TMP-8
TMP-9



BRIDGETON LANDFILL, LLC
12976 ST. CHARLES ROCK RD.
BRIDGETON, MO

REVISION	DATE
1	
2	
3	
4	
5	

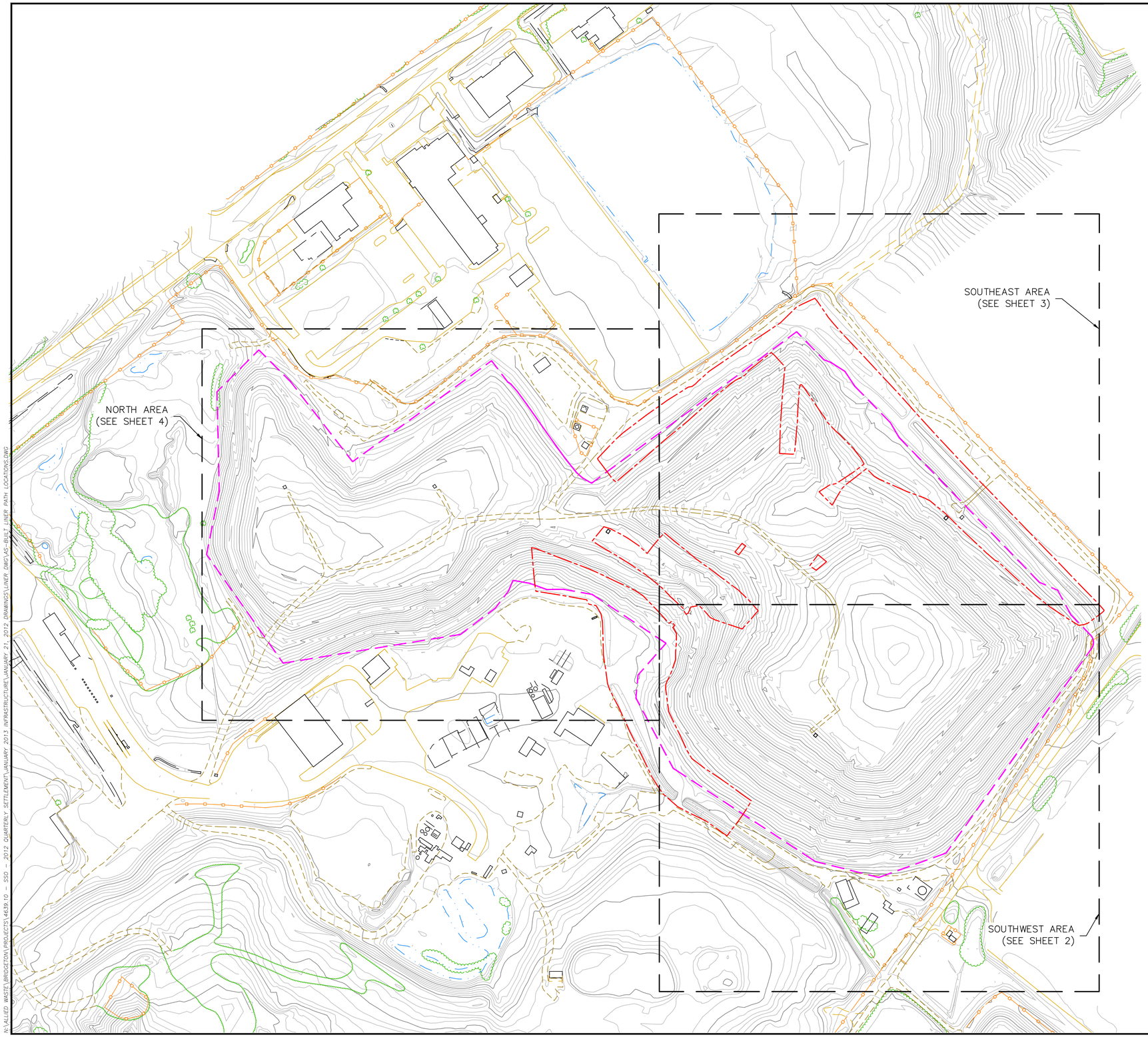
P. J. CAREY & ASSOCIATES, P.C.
5978 VALDINE WAY, SUGAR HILL, GA. 30518

PROJ. NO.: 179.001
DATE: 1/28/2013
DESIGNED BY: PJC
DRAWN BY: PJC/KLCH
CHECKED BY: PJC
APPROVED BY: PJC

SETTLEMENT FRONT ADVANCEMENT THROUGH 12-11-2012 WITH 50 FT GRID SHOWN

SETTLEMENT MONITORING
BRIDGETON LANDFILL

DRAWING



LEGEND:

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD

NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:
   - 1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011;
   - 1.2. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 8, 2012;
   - 1.3. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 1, 2012; AND
   - 1.4. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 15, 2012.
2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

150 0 150 300
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

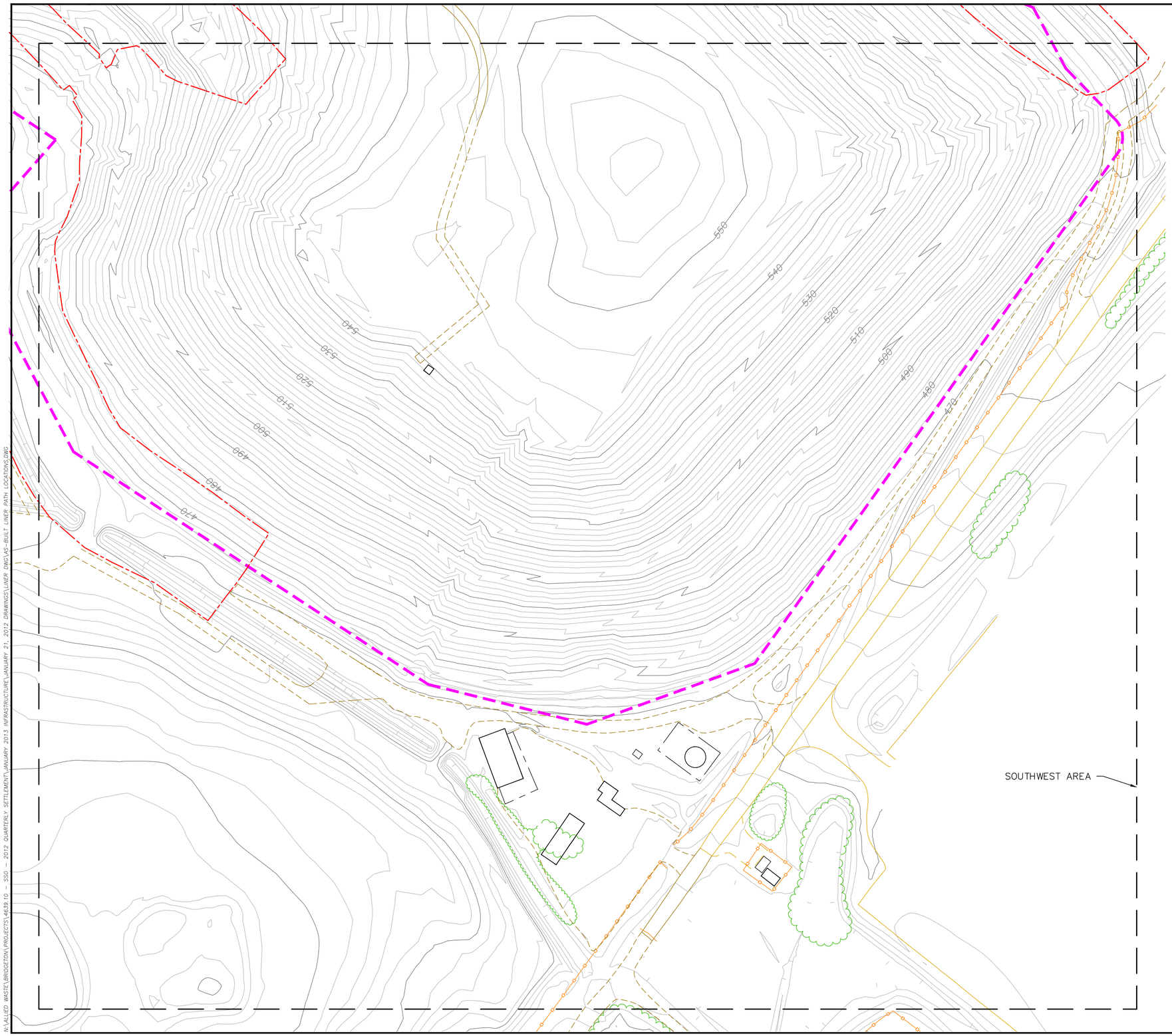
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT LINER PATH LOCATIONS.DWG DATE: 1/21/13

SITE LAYOUT
AS-BUILT LINER PATCH LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 1 PROJECT NUMBER: 4639.10 SHT. 1 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LINER PATCH\AS-BUILT LINER PATH LOCATIONS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD

NOTES:

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2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

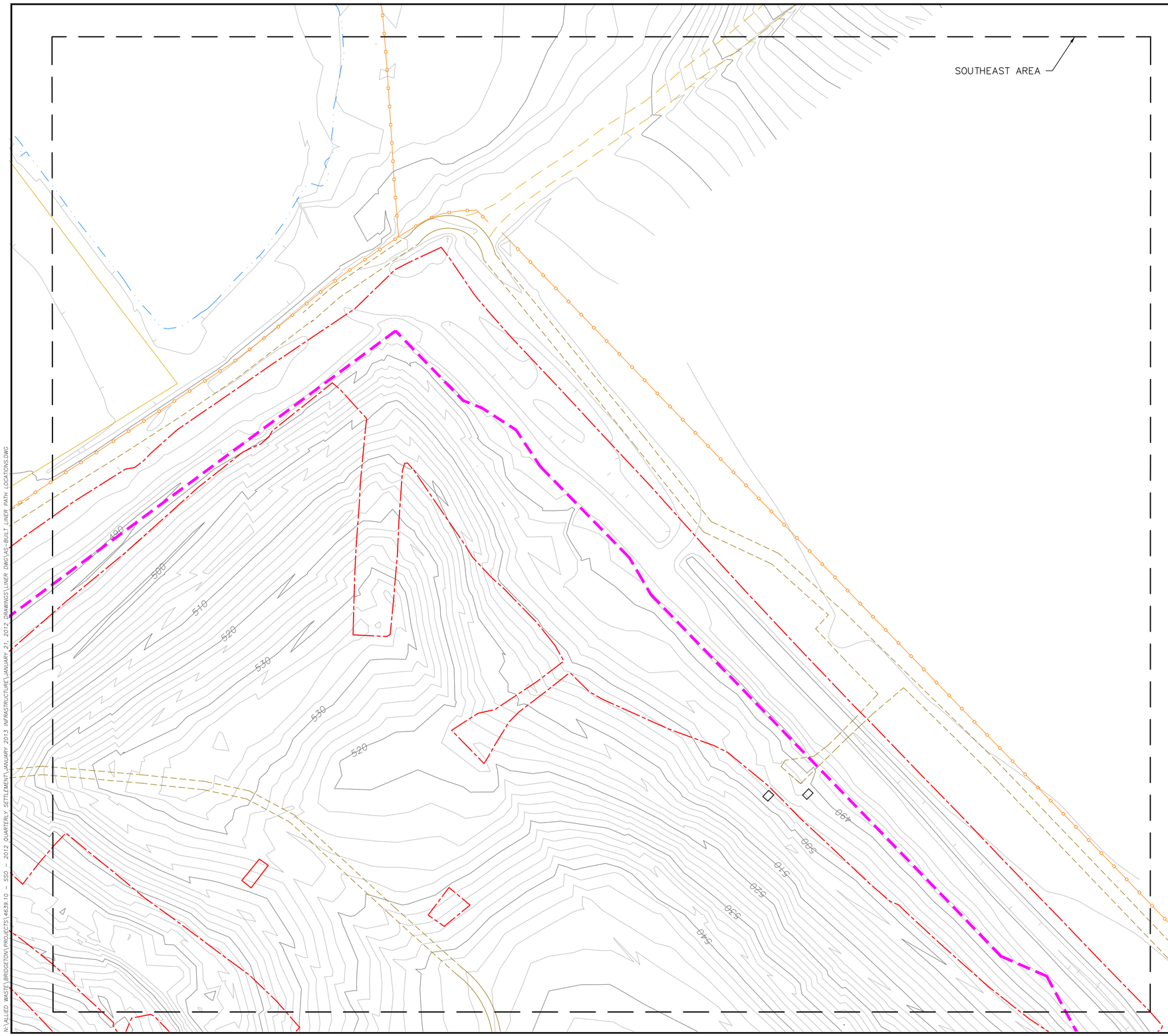
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT LINER PATH LOCATIONS.DWG DATE: 1/21/13

SOUTHWEST AREA
AS-BUILT LINER PATCH LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 2 PROJECT NUMBER: 4639.10 SHT. 2 OF 4

N:\ALLIED WASTE\BRIDGETON PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LINER DWG\AS-BUILT LINER PATH LOCATIONS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD

NOTES:

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2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

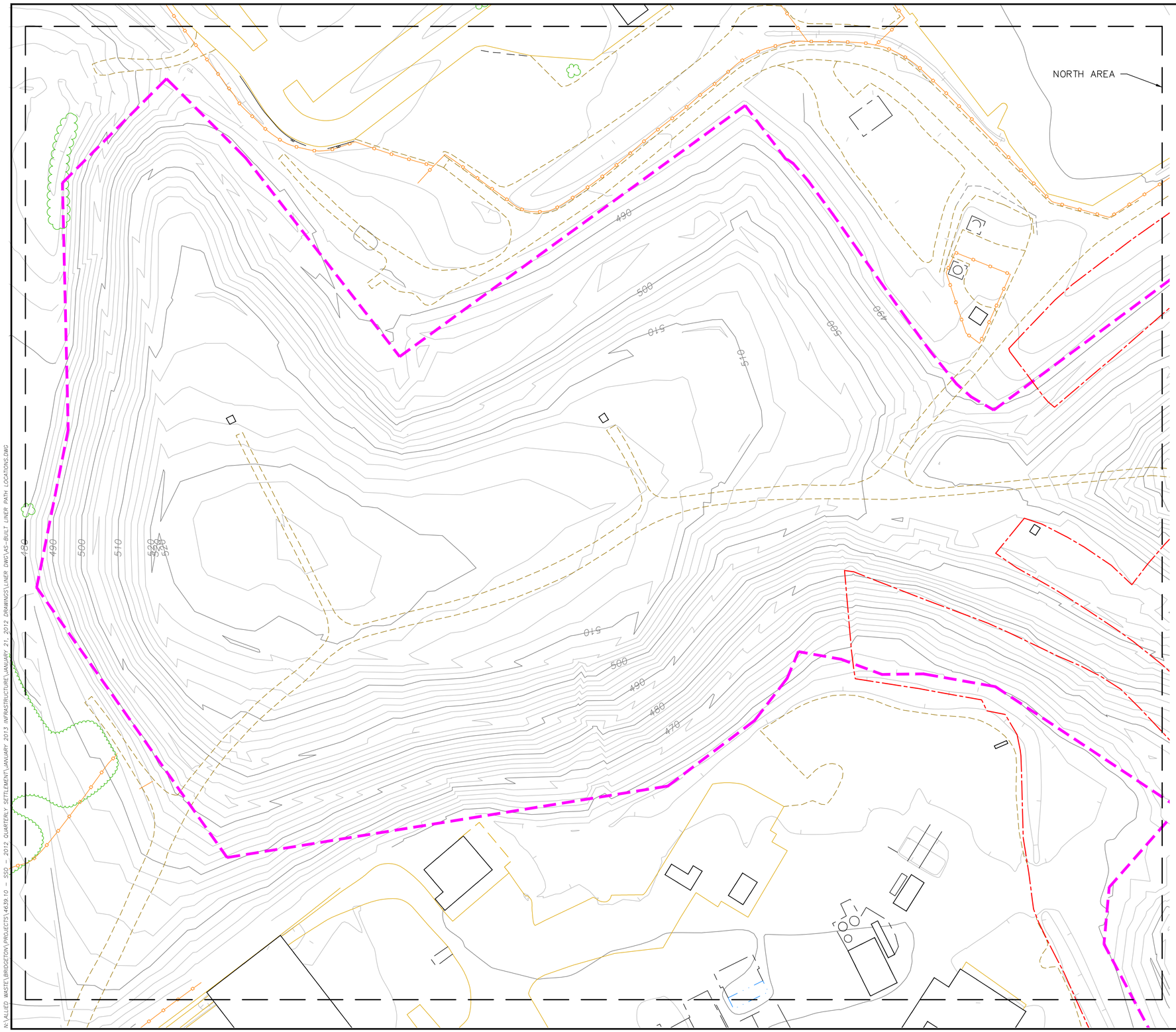
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT LINER PATH LOCATIONS.DWG DATE: 1/21/13

SOUTHEAST AREA
AS-BUILT LINER PATCH LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 3 PROJECT NUMBER: 4639.10 SHT. 3 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LINER DWG\AS-BUILT LINER PATH LOCATIONS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD

NOTES:

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   - 1.3. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 1, 2012; AND
   - 1.4. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 15, 2012.
2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

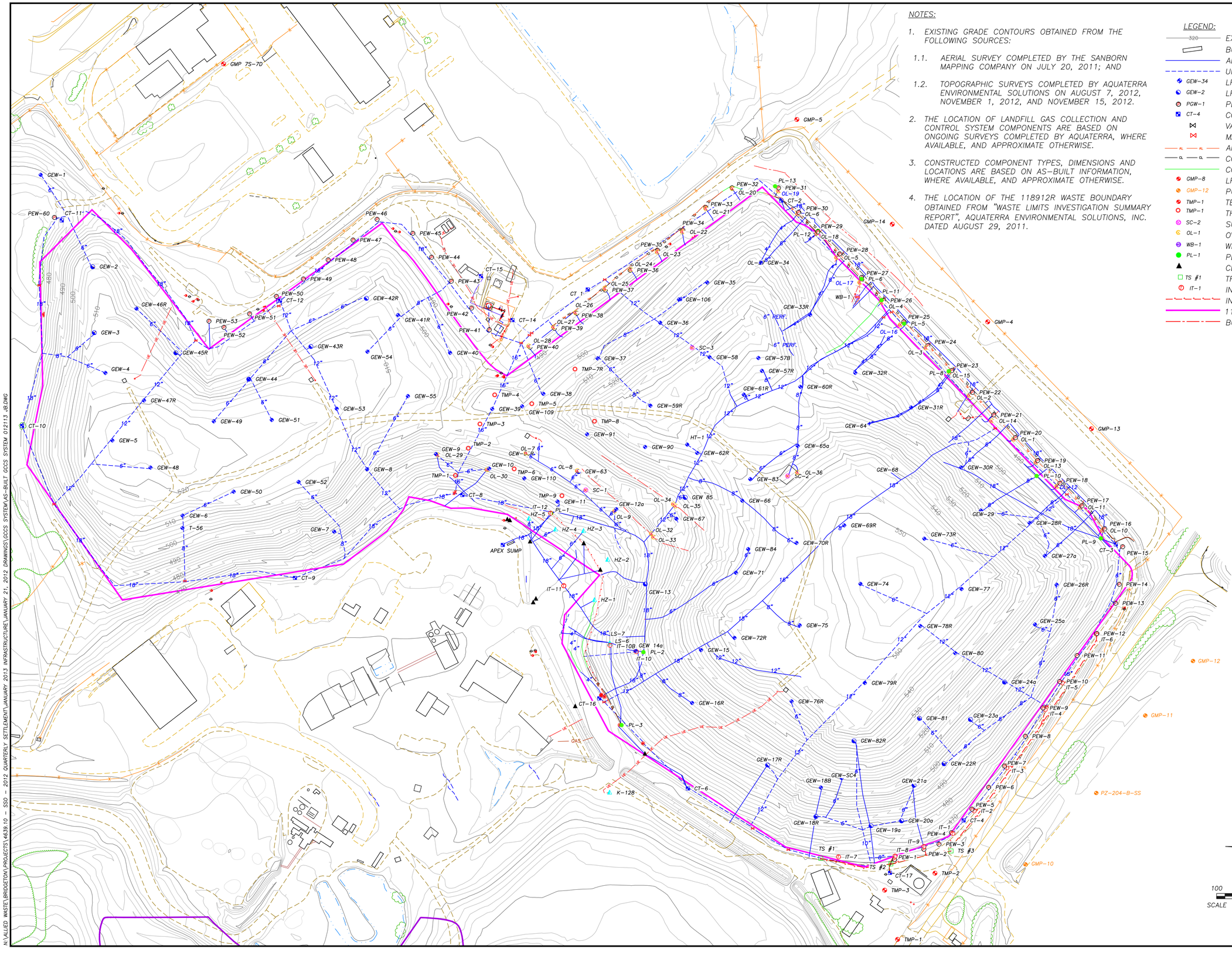
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT LINER PATH LOCATIONS.DWG DATE: 1/21/13

NORTH AREA
AS-BUILT LINER PATCH LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 4 PROJECT NUMBER: 4639.10 SHT. 4 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LINER DWG\AS-BUILT LINER PATH LOCATIONS.DWG



NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

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   1.2. TOPOGRAPHIC SURVEYS COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 7, 2012, NOVEMBER 1, 2012, AND NOVEMBER 15, 2012.

2. THE LOCATION OF LANDFILL GAS COLLECTION AND CONTROL SYSTEM COMPONENTS ARE BASED ON ONGOING SURVEYS COMPLETED BY AQUATERRA, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

3. CONSTRUCTED COMPONENT TYPES, DIMENSIONS AND LOCATIONS ARE BASED ON AS-BUILT INFORMATION, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

320	EXISTING 10' CONTOURS
	BUILDING OR STRUCTURE
	ABOVEGROUND LFG COLLECTION PIPE
	UNDERGROUND LFG COLLECTION PIPE
GEW-34	LFG COLLECTION WELL
GEW-2	LFG DUAL EXTRACTION WELL
PGW-1	PERIMETER LFG COLLECTION WELL
CT-4	CONDENSATE SUMP
	VALVE
	MAIN VALVE
AL	AIR LINE
CL	CONDENSATE FORCEMAIN
	COMBINED AIR & FORCEMAIN
GMP-8	LFG MONITORING PROBE
GMP-12	PUBLIC SAFETY MON. PROBE
TMP-1	TEMPORARY LFG MONITORING PROBE
TMP-1	THERMOCOUPLE MONITORING PROBE
SC-2	SURFACE COLLECTOR
OL-1	OVER LINER TIE-IN POINT
WB-1	WELL BORE BOOT
PL-1	PERIMETER LINE COLLECTION
	CLEANOUT
TS #1	TRENCH SUMP
IT-1	INTERCEPTION TRENCH WELL
	INTERCEPTION TRENCH
	118912R PERMIT BOUNDARY
	BUBBLE SUCKER

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT GCCS SYSTEM 012113 JB.DWG | DATE: 1/21/13

SITE LAYOUT
BRIDGETON GCCS INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 1 | PROJECT NUMBER: 4639.10 | SHT. 1 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\GCCS SYSTEM\AS-BUILT GCCS SYSTEM 012113 JB.DWG

NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

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4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- ABOVEGROUND LFG COLLECTION PIPE
- UNDERGROUND LFG COLLECTION PIPE
- GEW-34 — LFG COLLECTION WELL
- GEW-2 — LFG DUAL EXTRACTION WELL
- PGW-1 — PERIMETER LFG COLLECTION WELL
- CT-4 — CONDENSATE SUMP
- VALVE
- MAIN VALVE
- AL — AIR LINE
- CL — CONDENSATE FORCEMAIN
- COMBINED AIR & FORCEMAIN
- GMP-8 — LFG MONITORING PROBE
- GMP-12 — PUBLIC SAFETY MON. PROBE
- TMP-1 — TEMPORARY LFG MONITORING PROBE
- TMP-1 — THERMOCOUPLE MONITORING PROBE
- SC-2 — SURFACE COLLECTOR
- OL-1 — OVER LINER TIE-IN POINT
- WB-1 — WELL BORE BOOT
- PL-1 — PERIMETER LINE COLLECTION
- CLEANOUT
- TS #1 — TRENCH SUMP
- IT-1 — INTERCEPTION TRENCH WELL
- INTERCEPTION TRENCH
- 118912R PERMIT BOUNDARY
- BUBBLE SUCKER

50 0 50 100
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

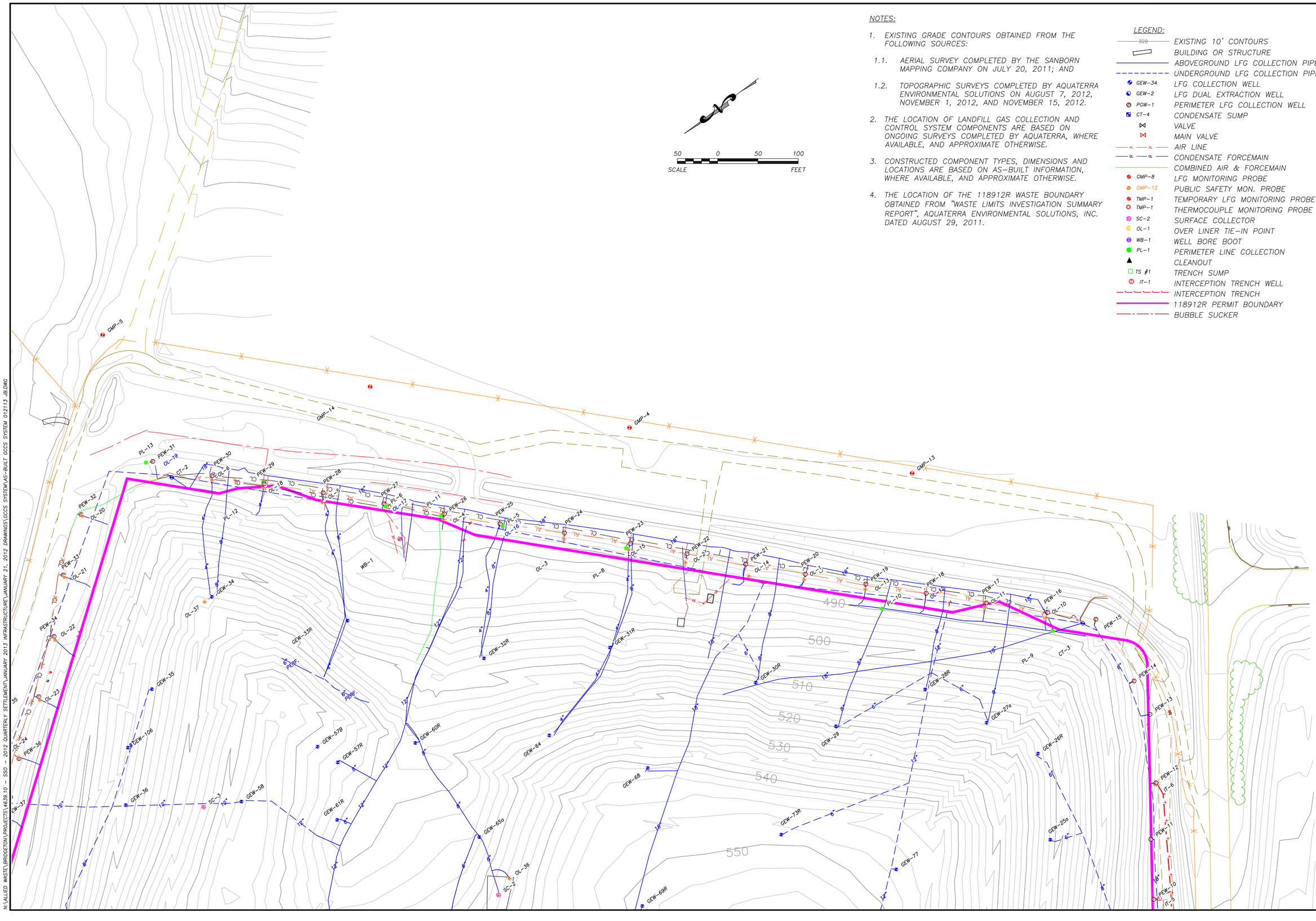
CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT GCCS SYSTEM 012113 JB.DWG | DATE: 1/21/13

AMPHITHEATER AREA
BRIDGETON GAS INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 2 | PROJECT NUMBER: 4639.10 | SHT. 2 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\GCCS SYSTEM\AS-BUILT GCCS SYSTEM 012113 JB.DWG



NOTES:

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   1.2. TOPOGRAPHIC SURVEYS COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 7, 2012, NOVEMBER 1, 2012, AND NOVEMBER 15, 2012.

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3. CONSTRUCTED COMPONENT TYPES, DIMENSIONS AND LOCATIONS ARE BASED ON AS-BUILT INFORMATION, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- ABOVEGROUND LFG COLLECTION PIPE
- UNDERGROUND LFG COLLECTION PIPE
- GEW-34 — LFG COLLECTION WELL
- GEW-2 — LFG DUAL EXTRACTION WELL
- PGW-1 — PERIMETER LFG COLLECTION WELL
- CT-4 — CONDENSATE SUMP
- VALVE
- MAIN VALVE
- AL — AIR LINE
- CL — CONDENSATE FORCEMAIN
- COMBINED AIR & FORCEMAIN
- GMP-8 — LFG MONITORING PROBE
- GMP-12 — PUBLIC SAFETY MON. PROBE
- TMP-1 — TEMPORARY LFG MONITORING PROBE
- TMP-1 — THERMOCOUPLE MONITORING PROBE
- SC-2 — SURFACE COLLECTOR
- OL-1 — OVER LINER TIE-IN POINT
- WB-1 — WELL BORE BOOT
- PL-1 — PERIMETER LINE COLLECTION
- CLEANOUT
- TS #1 — TRENCH SUMP
- IT-1 — INTERCEPTION TRENCH WELL
- INTERCEPTION TRENCH
- 118912R PERMIT BOUNDARY
- BUBBLE SUCKER

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

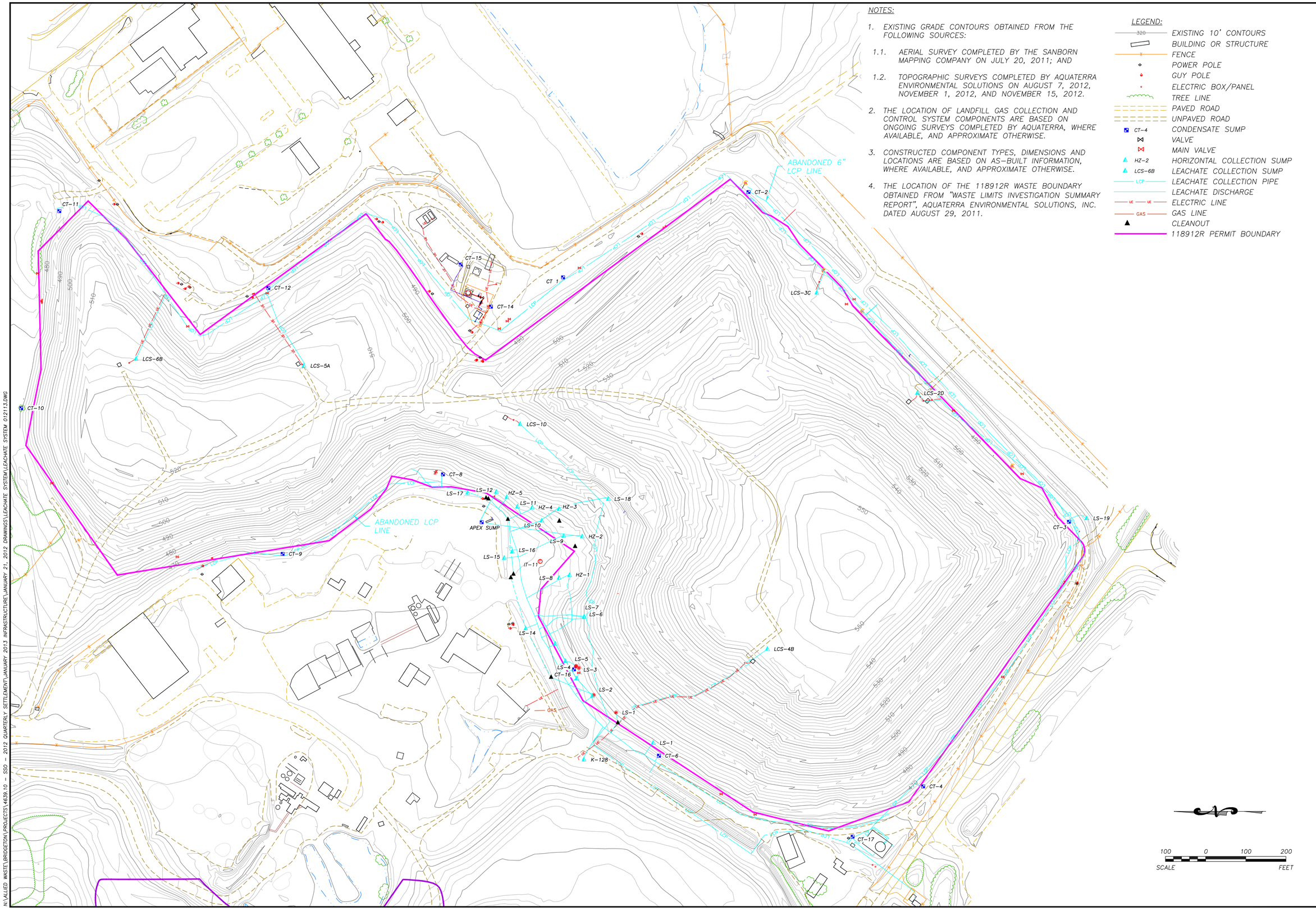
CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT GCCS SYSTEM 012113 JB.DWG
DATE: 1/21/13

SOUTHEAST AREA
BRIDGETON GAS INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 3 | PROJECT NUMBER: 4639.10 | SHT. 3 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\GCCS SYSTEM\AS-BUILT GCCS SYSTEM 012113 JB.DWG



NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

   1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011; AND

   1.2. TOPOGRAPHIC SURVEYS COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 7, 2012, NOVEMBER 1, 2012, AND NOVEMBER 15, 2012.

2. THE LOCATION OF LANDFILL GAS COLLECTION AND CONTROL SYSTEM COMPONENTS ARE BASED ON ONGOING SURVEYS COMPLETED BY AQUATERRA, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

3. CONSTRUCTED COMPONENT TYPES, DIMENSIONS AND LOCATIONS ARE BASED ON AS-BUILT INFORMATION, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- CT-4 — CONDENSATE SUMP
- VALVE
- MAIN VALVE
- HZ-2 — HORIZONTAL COLLECTION SUMP
- LCS-6B — LEACHATE COLLECTION SUMP
- LCP — LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- UE — ELECTRIC LINE
- GAS — GAS LINE
- CLEANOUT
- 118912R PERMIT BOUNDARY

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWG | DESIGNED BY: JWG | PROJECT MGR: MAB
ELECTRONIC FILE NAME: LEACHATE SYSTEM 012113.DWG | DATE: 1/21/13

SITE LAYOUT
BRIDGETON LEACHATE INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 1 | PROJECT NUMBER: 4639.10 | SHT. 1 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LEACHATE SYSTEM\LEACHATE SYSTEM 012113.DWG

NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

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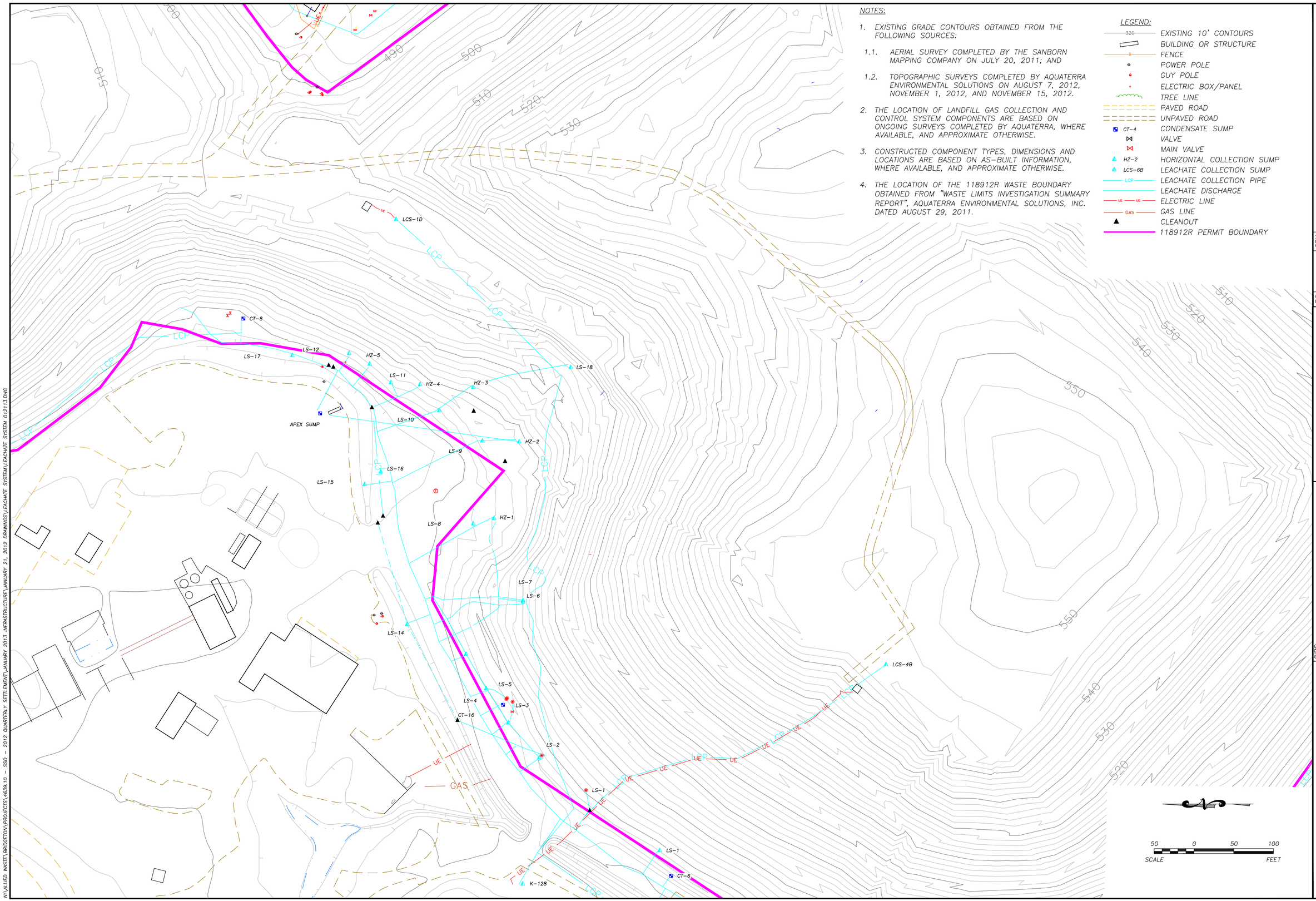
LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- CT-4 — CONDENSATE SUMP
- VALVE
- MAIN VALVE
- HZ-2 — HORIZONTAL COLLECTION SUMP
- LCS-6B — LEACHATE COLLECTION SUMP
- LCP — LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- UE — ELECTRIC LINE
- GAS — GAS LINE
- CLEANOUT
- 118912R PERMIT BOUNDARY



REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

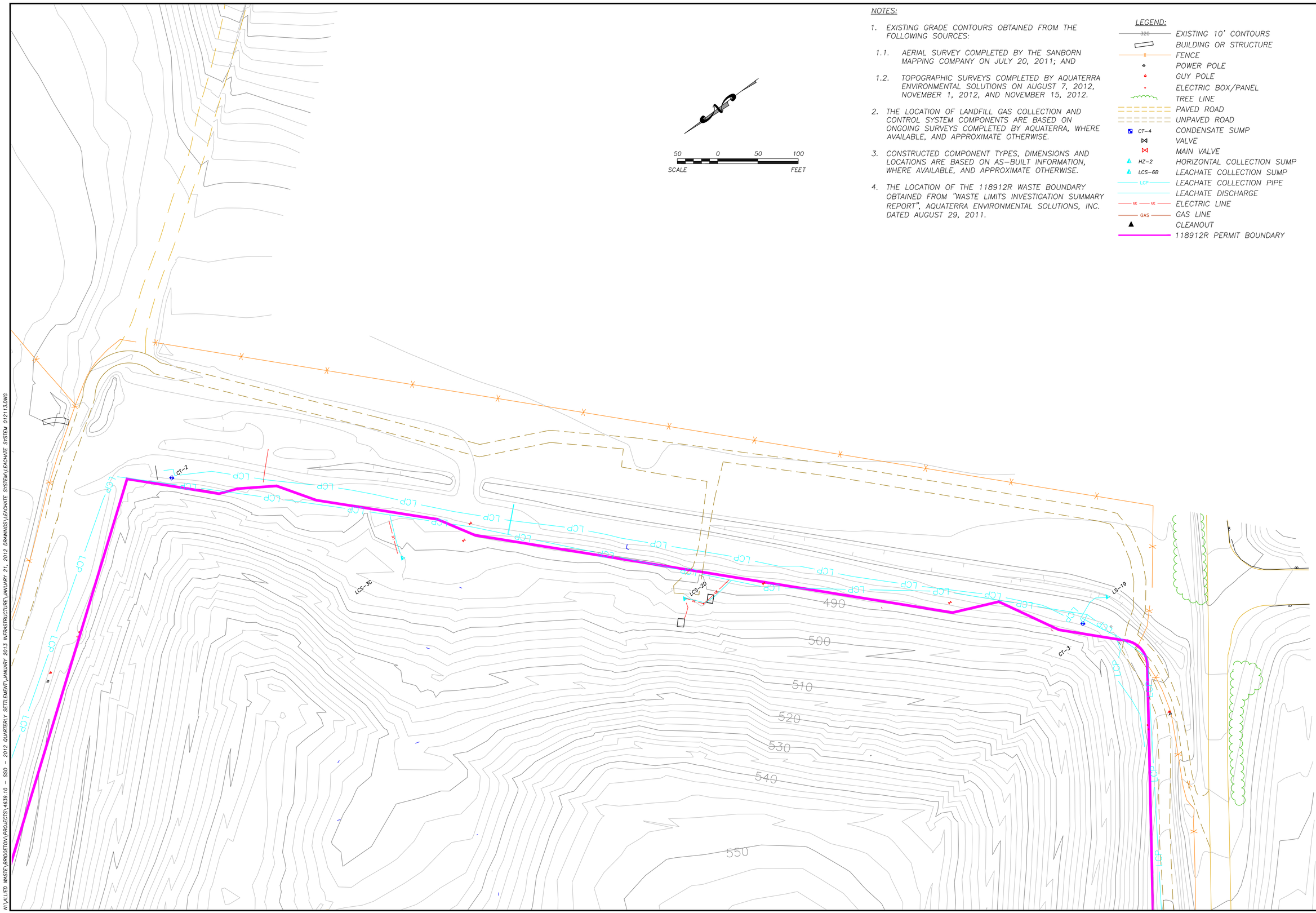
CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: LEACHATE SYSTEM 012113.DWG | DATE: 1/21/13

AMPHITHEATER AREA
BRIDGETON LEACHATE INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 2 | PROJECT NUMBER: 4639.10 | SHT. 2 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LEACHATE SYSTEM\LEACHATE SYSTEM 012113.DWG



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3. CONSTRUCTED COMPONENT TYPES, DIMENSIONS AND LOCATIONS ARE BASED ON AS-BUILT INFORMATION, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.

4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- CT-4 — CONDENSATE SUMP
- VALVE
- MAIN VALVE
- HZ-2 — HORIZONTAL COLLECTION SUMP
- LCS-6B — LEACHATE COLLECTION SUMP
- LCP — LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- UE — ELECTRIC LINE
- GAS — GAS LINE
- CLEANOUT
- 118912R PERMIT BOUNDARY

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

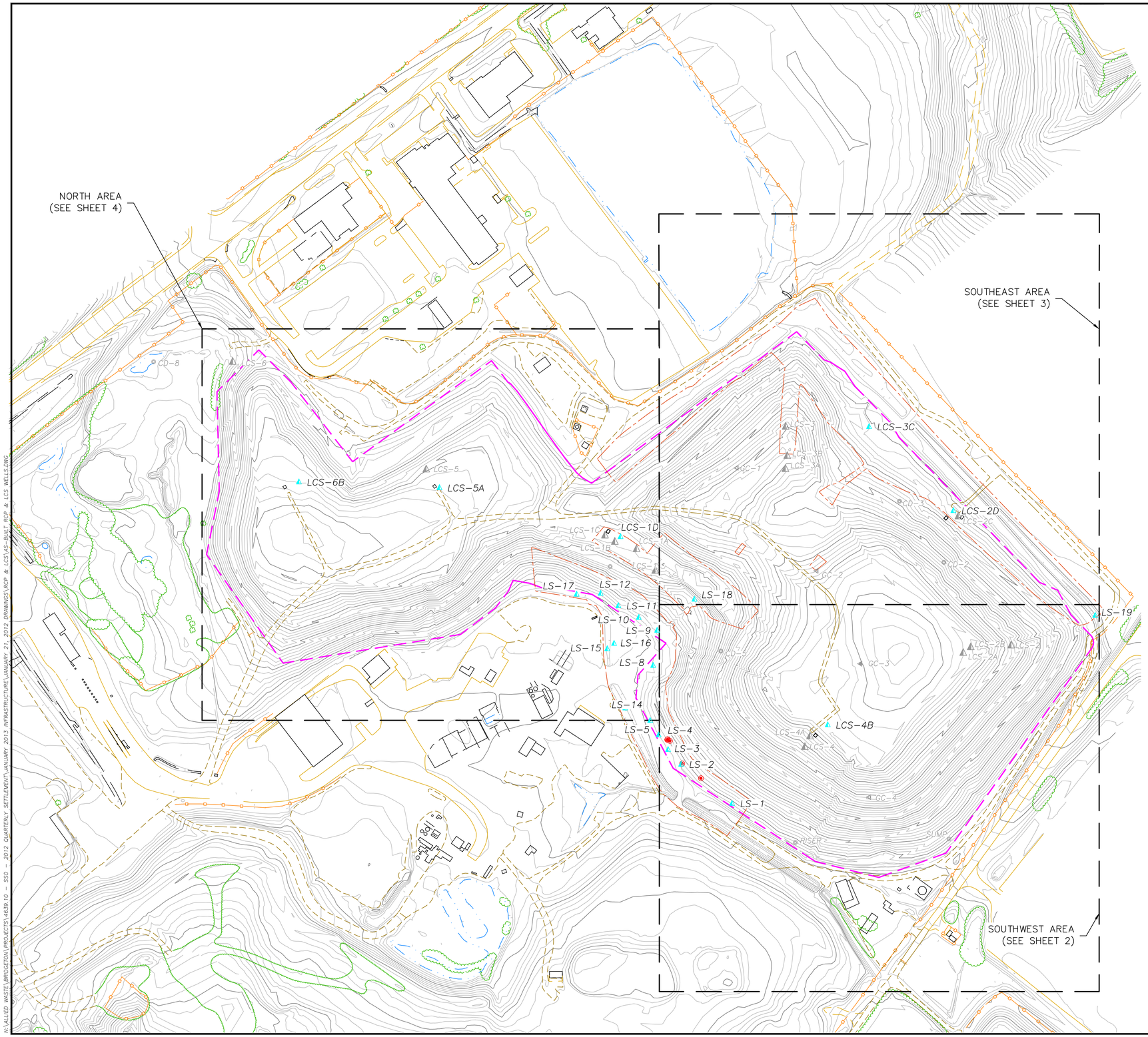
CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: LEACHATE SYSTEM 012113.dwg | DATE: 1/21/13

SOUTHEAST AREA
BRIDGETON LEACHATE INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 3 | PROJECT NUMBER: 4639.10 | SHT. 3 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 – SSO – 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\LEACHATE SYSTEM\LEACHATE SYSTEM 012113.DWG



LEGEND:

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- LCS-3A ABANDONED LEACHATE COLLECTION SUMP
- CD-5 ABANDONED CONDENSATE DRAIN/SUMP
- GC-3 ABANDONED GAS COLLECTION WELL
- LCS-5A LEACHATE COLLECTION SUMP

NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:
   - 1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011;
   - 1.2. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 8, 2012;
   - 1.3. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 1, 2012; AND
   - 1.4. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 15, 2012.
2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

150 0 150 300
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

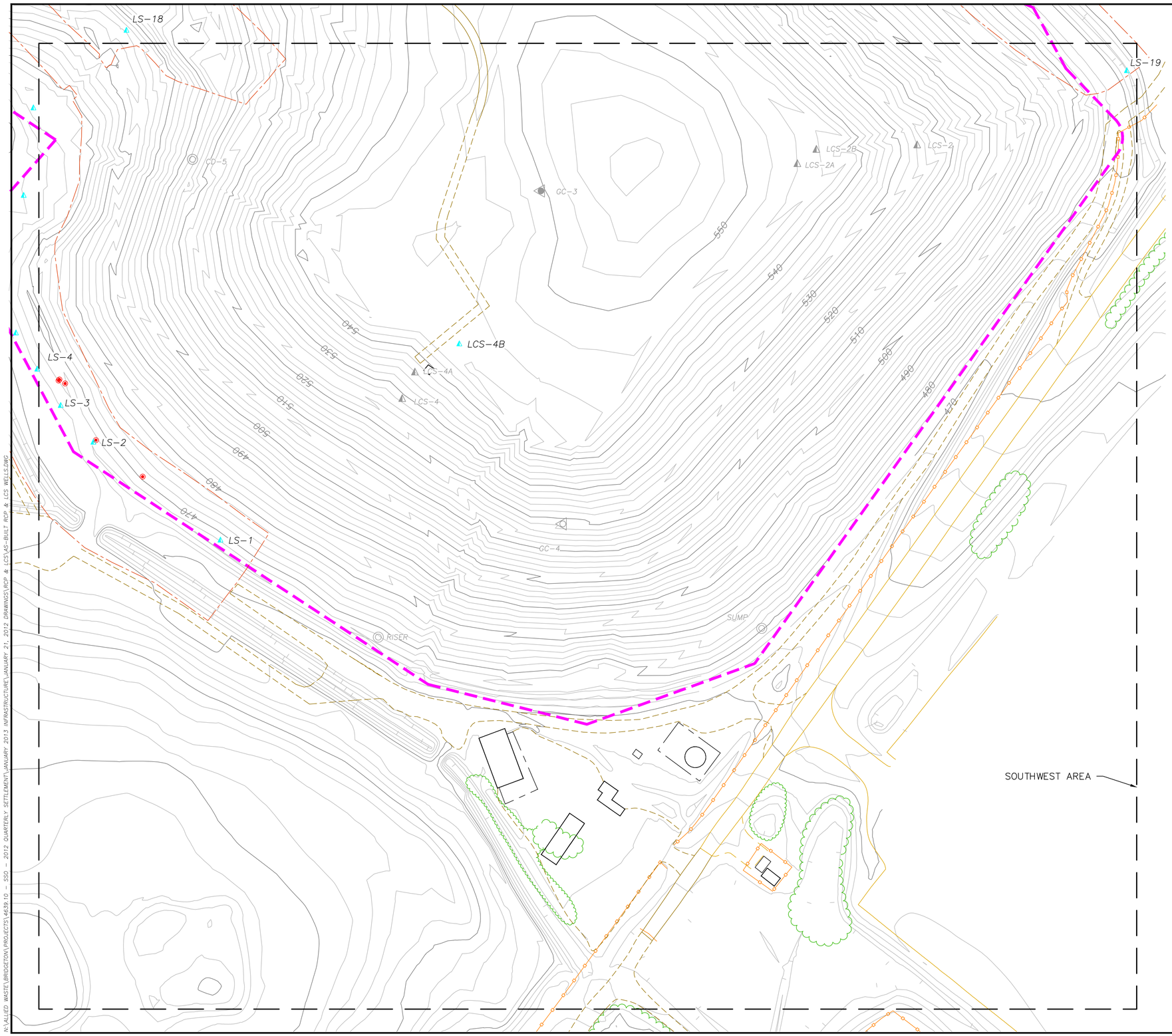
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT RDP & LCS WELLS.DWG DATE: 1/21/13

SITE LAYOUT
AS-BUILT LCS LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 1 PROJECT NUMBER: 4639.10 SHT. 1 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\RDP & LCS\AS-BUILT RDP & LCS WELLS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- LCS-2A ABANDONED LEACHATE COLLECTION SUMP
- CD-5 ABANDONED CONDENSATE DRAIN/SUMP
- GC-3 ABANDONED GAS COLLECTION WELL
- LCS-5A LEACHATE COLLECTION SUMP

NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

   1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011;

   1.2. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 8, 2012;

   1.3. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 1, 2012; AND

   1.4. TOPOGRAPHIC SURVEY COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON NOVEMBER 15, 2012.

2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

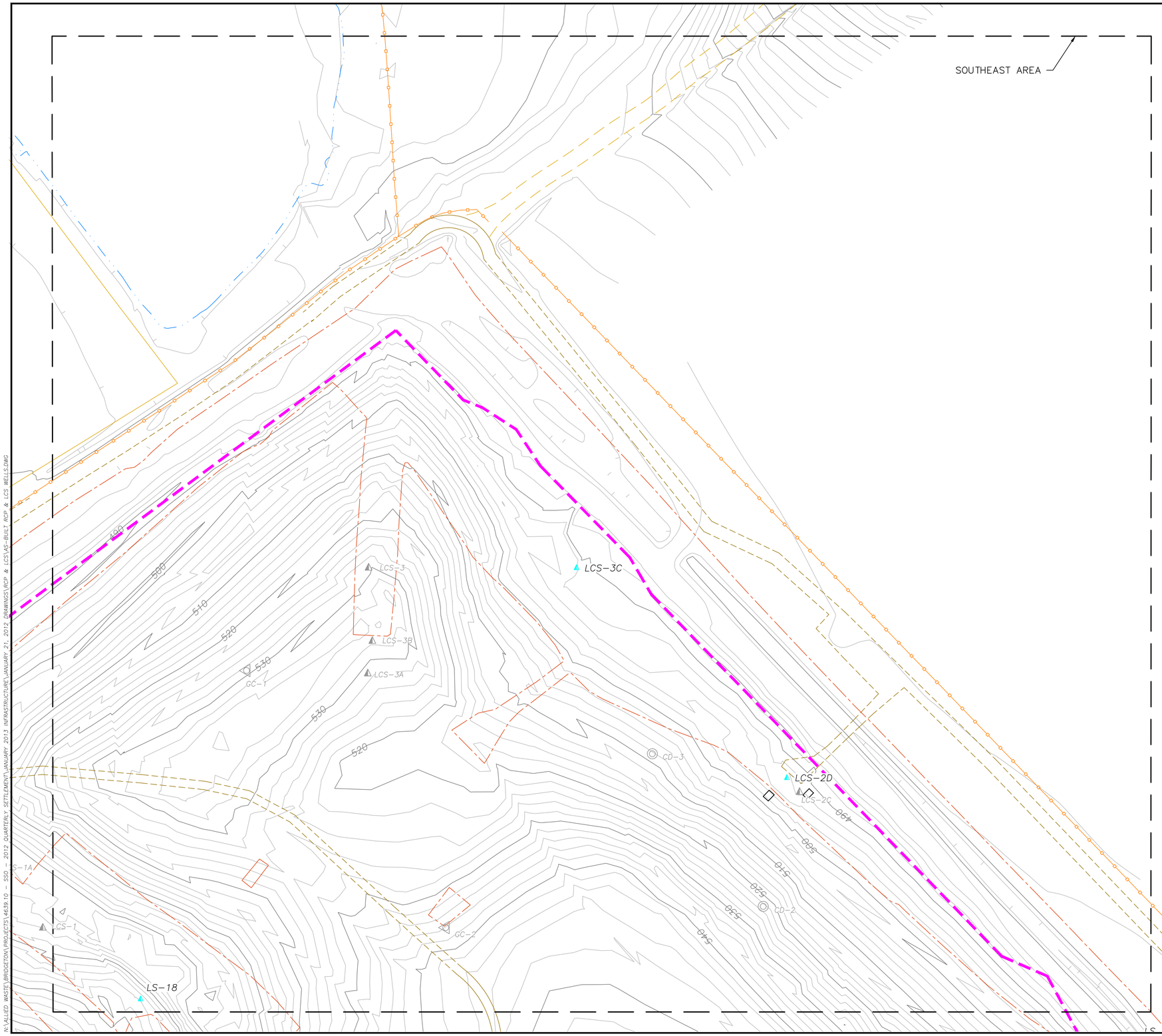
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT RCP & LCS WELLS.DWG DATE: 1/21/13

SOUTHWEST AREA
AS-BUILT LCS LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 2 PROJECT NUMBER: 4639.10 SHT. 2 OF 4

N:\ALLIED WASTE\BRIDGETON PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\RCP & LCS\AS-BUILT RCP & LCS WELLS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- LCS-2A ABANDONED LEACHATE COLLECTION SUMP
- CD-5 ABANDONED CONDENSATE DRAIN/SUMP
- GC-3 ABANDONED GAS COLLECTION WELL
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2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
R4	–	4BY	–
R3	–	3BY	–
R2	–	2BY	–
R1	–	1BY	–

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

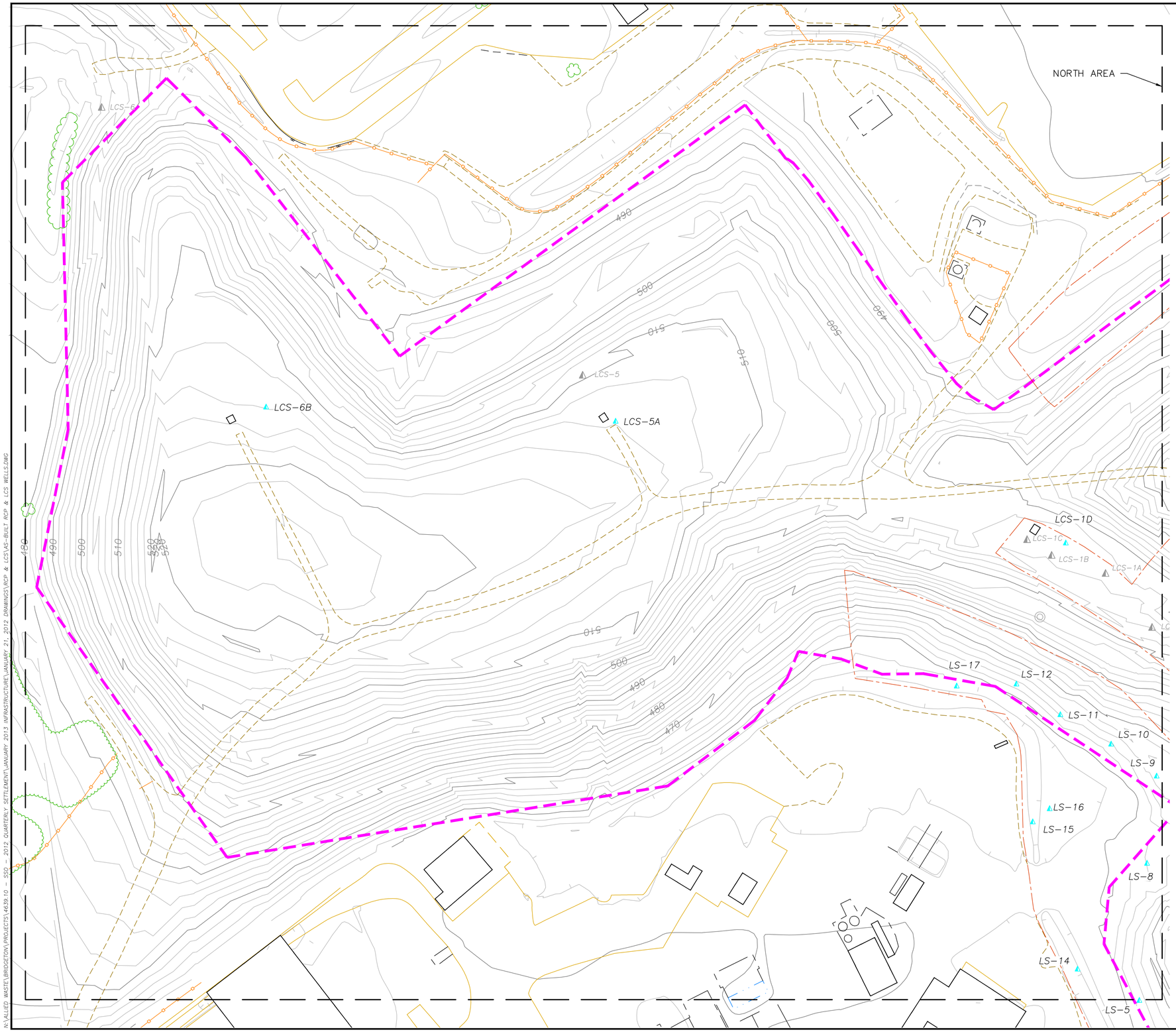
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB DESIGNED BY: CC PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT RCP & LCS WELLS.DWG DATE: 1/21/13

SOUTHEAST AREA
AS-BUILT LCS LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 DRAWING NUMBER: 3 PROJECT NUMBER: 4639.10 SHT. 3 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\RCP & LCS\AS-BUILT RCP & LCS WELLS.DWG



LEGEND:

- EXISTING 2' CONTOURS
- 320 EXISTING 10' CONTOURS
- 118912R PERMIT BOUNDARY
- BUILDING OR STRUCTURE
- FENCE
- GEOMEMBRANE
- SURFACE WATER
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- LCS-2A ABANDONED LEACHATE COLLECTION SUMP
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2. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

60 0 60 120
SCALE FEET

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

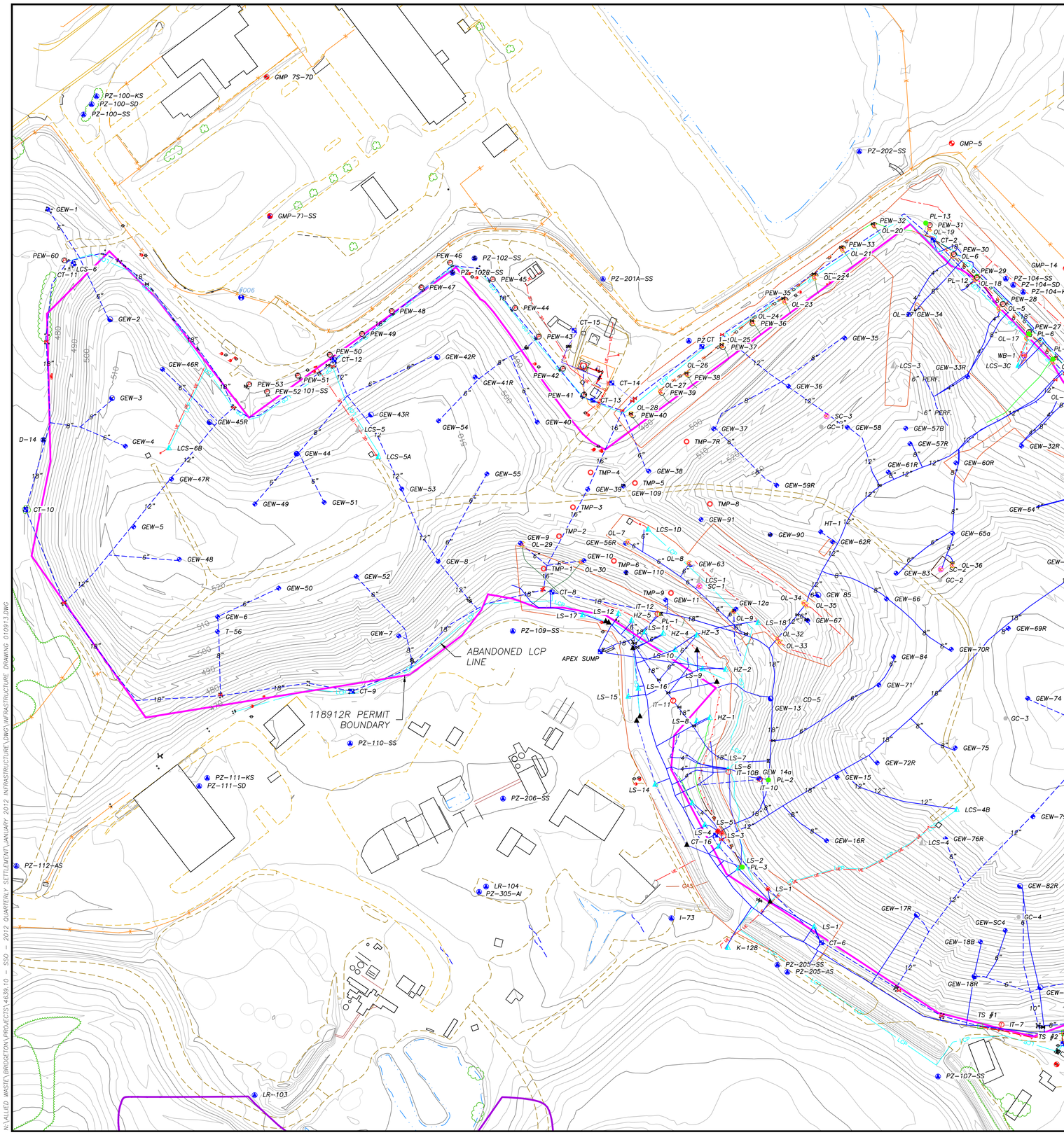
CLIENT: REPUBLIC SERVICES, INC.
BRIDGETON LANDFILL, LLC.
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: CC | PROJECT MGR: MAB
ELECTRONIC FILE NAME: AS-BUILT RDP & LCS WELLS.DWG | DATE: 1/21/13

NORTH AREA
AS-BUILT LCS LOCATIONS
BRIDGETON LANDFILL, LLC

REV.: 0 | DRAWING NUMBER: 4 | PROJECT NUMBER: 4639.10 | SHT. 4 OF 4

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SQG - 2012 QUARTERLY SETTLEMENT\JANUARY 2013 INFRASTRUCTURE\JANUARY 21, 2012 DRAWINGS\RDP & LCS\AS-BUILT RDP & LCS WELLS.DWG



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4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- BOLLARDS
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
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- ABOVEGROUND LFG COLLECTION PIPE
- UNDERGROUND LFG COLLECTION PIPE
- GEW-34 LFG COLLECTION WELL
- GEW-2 LFG DUAL EXTRACTION WELL
- PERIMETER LFG COLLECTION PIPE
- PGW-1 PERIMETER LFG COLLECTION WELL
- CT-4 CONDENSATE SUMP
- VALVE
- MAIN VALVE
- AIR LINE
- CONDENSATE FORCEMAIN
- COMBINED AIR & FORCEMAIN
- HZ-2 HORIZONTAL COLLECTION SUMP
- LCS-6B LEACHATE COLLECTION SUMP
- LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- GMP-8 LFG MONITORING PROBE
- GMP-12 PUBLIC SAFETY MON. PROBE
- TMP-1 TEMPORARY LFG MONITORING PROBE
- TMP-1 THERMOCOUPLE MONITORING PROBE
- PZ-204-SS GROUNDWATER WELL
- ELECTRIC LINE
- GAS LINE
- #006 STORMWATER OUTFALL
- SC-2 SURFACE COLLECTOR
- OL-1 OVER LINER TIE-IN POINT
- WB-1 WELL BORE BOOT
- PL-1 PERIMETER LINE COLLECTION
- CLEANOUT
- TS #1 TRENCH SUMP
- IT-1 INTERCEPTION TRENCH WELL
- INTERCEPTION TRENCH
- GEOMEMBRANE
- 118912R PERMIT BOUNDARY
- BUBBLE SUCKER

REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
7311 W. 130th St., Ste. 100
Overland Park, Kansas 66213

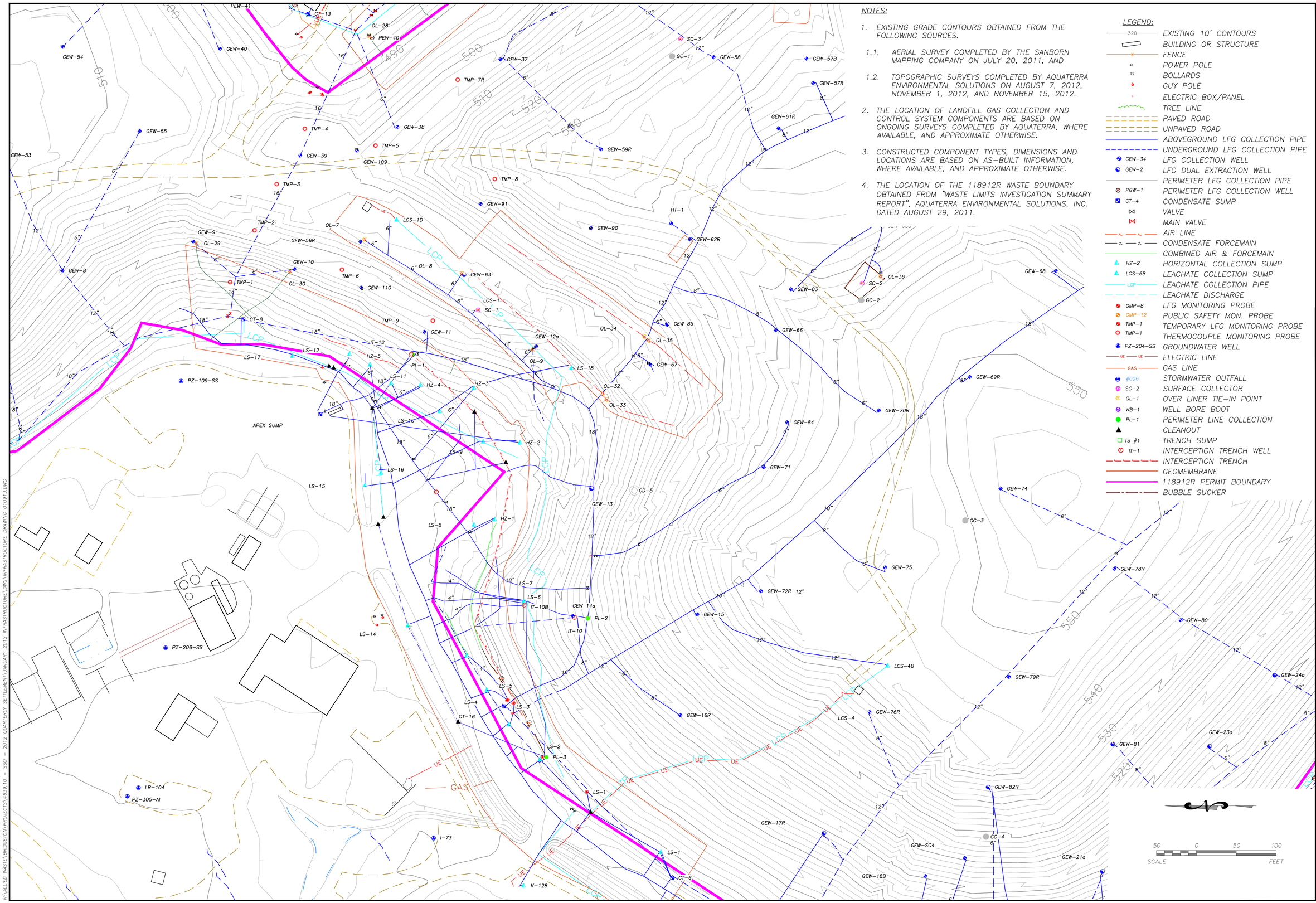
CLIENT:
BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: \INFRASTRUCTURE\DRAWING\010913.DWG | DATE: 1/9/13

SITE LAYOUT
ACTIVE BRIDGETON INFRASTRUCTURE

DRAWING NUMBER: 1 | PROJECT NUMBER: 4639.10 | SHT. 1 OF 3 | REV.: 0

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2012 INFRASTRUCTURE\DWG\INFRASTRUCTURE DRAWING 010913.DWG



NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:
   - 1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011; AND
   - 1.2. TOPOGRAPHIC SURVEYS COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 7, 2012, NOVEMBER 1, 2012, AND NOVEMBER 15, 2012.
2. THE LOCATION OF LANDFILL GAS COLLECTION AND CONTROL SYSTEM COMPONENTS ARE BASED ON ONGOING SURVEYS COMPLETED BY AQUATERRA, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.
3. CONSTRUCTED COMPONENT TYPES, DIMENSIONS AND LOCATIONS ARE BASED ON AS-BUILT INFORMATION, WHERE AVAILABLE, AND APPROXIMATE OTHERWISE.
4. THE LOCATION OF THE 118912R WASTE BOUNDARY OBTAINED FROM "WASTE LIMITS INVESTIGATION SUMMARY REPORT", AQUATERRA ENVIRONMENTAL SOLUTIONS, INC. DATED AUGUST 29, 2011.

LEGEND:

- EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- BOLLARDS
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- ABOVEGROUND LFG COLLECTION PIPE
- UNDERGROUND LFG COLLECTION PIPE
- GEW-34 LFG COLLECTION WELL
- GEW-2 LFG DUAL EXTRACTION WELL
- PERIMETER LFG COLLECTION PIPE
- PGW-1 PERIMETER LFG COLLECTION WELL
- CT-4 CONDENSATE SUMP
- VALVE
- MAIN VALVE
- AIR LINE
- CONDENSATE FORCEMAIN
- COMBINED AIR & FORCEMAIN
- HZ-2 HORIZONTAL COLLECTION SUMP
- LCS-6B LEACHATE COLLECTION SUMP
- LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- GMP-8 LFG MONITORING PROBE
- GMP-12 PUBLIC SAFETY MON. PROBE
- TMP-1 TEMPORARY LFG MONITORING PROBE
- TMP-1 THERMOCOUPLE MONITORING PROBE
- PZ-204-SS GROUNDWATER WELL
- ELECTRIC LINE
- GAS LINE
- #006 STORMWATER OUTFALL
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REV.	DATE	BY	DESCRIPTION
R6	-	6BY	-
R5	-	5BY	-
R4	-	4BY	-
R3	-	3BY	-
R2	-	2BY	-
R1	-	1BY	-

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Overland Park, Kansas 66213

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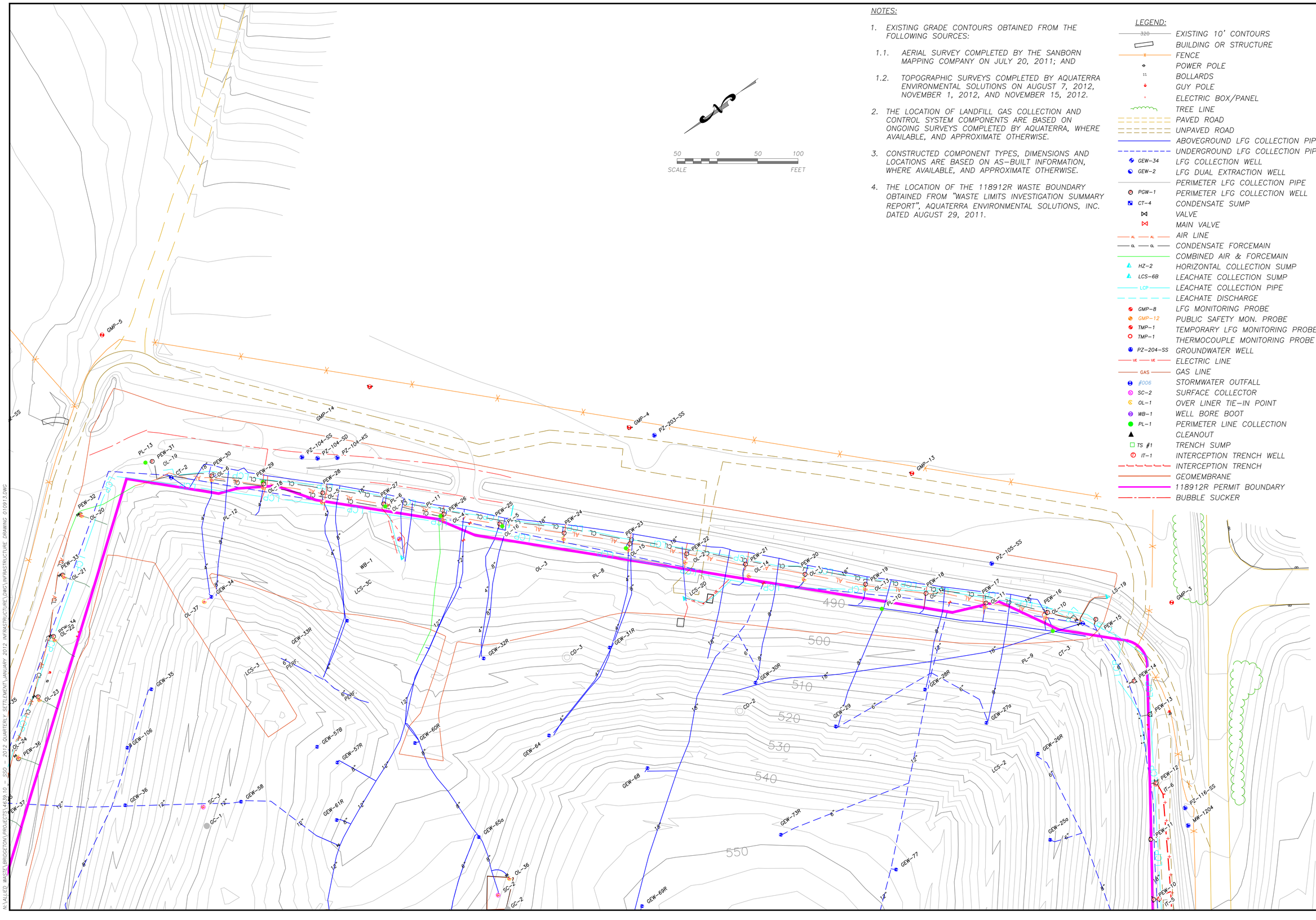
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: INFRASTRUCTURE DRAWING 010913.DWG | DATE: 1/9/13

AMPHITHEATER AREA
ACTIVE BRIDGETON INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 2 | PROJECT NUMBER: 4639.1.0 | SHT. 2 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2012 INFRASTRUCTURE\DWG\INFRASTRUCTURE DRAWING 010913.DWG



NOTES:

1. EXISTING GRADE CONTOURS OBTAINED FROM THE FOLLOWING SOURCES:

   1.1. AERIAL SURVEY COMPLETED BY THE SANBORN MAPPING COMPANY ON JULY 20, 2011; AND

   1.2. TOPOGRAPHIC SURVEYS COMPLETED BY AQUATERRA ENVIRONMENTAL SOLUTIONS ON AUGUST 7, 2012, NOVEMBER 1, 2012, AND NOVEMBER 15, 2012.

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LEGEND:

- 320 — EXISTING 10' CONTOURS
- BUILDING OR STRUCTURE
- FENCE
- POWER POLE
- BOLLARDS
- GUY POLE
- ELECTRIC BOX/PANEL
- TREE LINE
- PAVED ROAD
- UNPAVED ROAD
- ABOVEGROUND LFG COLLECTION PIPE
- UNDERGROUND LFG COLLECTION PIPE
- GEW-34 — LFG COLLECTION WELL
- GEW-2 — LFG DUAL EXTRACTION WELL
- PERIMETER LFG COLLECTION PIPE
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- CT-4 — CONDENSATE SUMP
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- LCS-6B — LEACHATE COLLECTION SUMP
- LCP — LEACHATE COLLECTION PIPE
- LEACHATE DISCHARGE
- GMP-8 — LFG MONITORING PROBE
- GMP-12 — PUBLIC SAFETY MON. PROBE
- TMP-1 — TEMPORARY LFG MONITORING PROBE
- TMP-1 — THERMOCOUPLE MONITORING PROBE
- PZ-204-SS — GROUNDWATER WELL
- UE — ELECTRIC LINE
- GAS — GAS LINE
- #006 — STORMWATER OUTFALL
- SC-2 — SURFACE COLLECTOR
- OL-1 — OVER LINER TIE-IN POINT
- WB-1 — WELL BORE BOOT
- PL-1 — PERIMETER LINE COLLECTION
- CLEANOUT
- TS #1 — TRENCH SUMP
- IT-1 — INTERCEPTION TRENCH WELL
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REV.	DATE	BY	DESCRIPTION
R6	–	6BY	–
R5	–	5BY	–
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R3	–	3BY	–
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7311 W. 130th St., Ste. 100
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CLIENT: BRIDGETON LANDFILL, LLC
BRIDGETON LANDFILL
BRIDGETON, MISSOURI

DRAWN BY: JWB | DESIGNED BY: JWB | PROJECT MGR: MAB
ELECTRONIC FILE NAME: INFRASTRUCTURE DRAWING 010913.DWG | DATE: 1/9/13

SOUTHEAST AREA
ACTIVE BRIDGETON INFRASTRUCTURE

REV.: 0 | DRAWING NUMBER: 3 | PROJECT NUMBER: 4639.10 | SHT. 3 OF 3

N:\ALLIED WASTE\BRIDGETON\PROJECTS\4639.10 - SSO - 2012 QUARTERLY SETTLEMENT\JANUARY 2012 INFRASTRUCTURE\DWG\INFRASTRUCTURE DRAWING 010913.DWG

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature °F			
	Sept	Oct	Nov	Dec
GEW-01	125	116	123	120
GEW-02	126	128	125	128
GEW-03	116	115	114	119
GEW-04	121	123	122	119
GEW-05	103	105	106	102
GEW-06	101	98	94	100
GEW-07	110	111	109	110
GEW-08	122	123	124	125
GEW-09	114	120	114	115
GEW-10	108	114	110	110
GEW-109	--	--	130	131
GEW-11	150	148	149	142
GEW-12A	187	196	141	80
GEW-13	170	163	136	125
GEW-14A	125	122	124	127
GEW-15	138	136	138	130
GEW-16R	141	140	142	136
GEW-17R	140	136	138	135
GEW-18R	134	140	137	140
GEW-19A	143	162	149	158
GEW-20A	136	142	126	119
GEW-21A	150	152	153	152
GEW-22R	110	129	126	130
GEW-23A	115	119	115	118
GEW-24A	124	128	128	118
GEW-25A	131	138	136	135
GEW-26R	174	182	186	186
GEW-27A	136	144	140	140
GEW-28R	130	136	134	132
GEW-29	132	134	130	130
GEW-30R	158	157	158	155
GEW-31R	--	--	60	60
GEW-32R	198	194	193	195
GEW-33R	195	198	195	185
GEW-34	140	140	135	120
GEW-35	157	165	178	182
GEW-36	159	160	156	155
GEW-37	142	142	134	135
GEW-38	133	138	135	130
GEW-39	117	121	120	110
GEW-40	104	103	93	95

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature °F			
	Sept	Oct	Nov	Dec
GEW-41R	114	113	103	98
GEW-42R	107	100	92	90
GEW-43R	128	134	126	144
GEW-44	118	122	118	110
GEW-45R	112	112	106	108
GEW-46R	105	106	102	85
GEW-47R	117	116	112	110
GEW-48	109	109	108	106
GEW-49	108	104	97	102
GEW-50	113	113	113	118
GEW-51	120	122	122	120
GEW-52	109	114	107	100
GEW-53	135	132	129	128
GEW-54	136	142	135	145
GEW-55	124	125	122	122
GEW-56R	145	145	140	125
GEW-57R	172	183	190	170
GEW-58	173	180	182	175
GEW-59R	192	190	190	172
GEW-60R	195	198	195	190
GEW-62R	195	193	190	182
GEW-63	161	164	178	170
GEW-64	190	192	192	185
GEW-65A	174	192	185	180
GEW-66	170	177	190	185
GEW-67	185	--	--	--
GEW-68	129	131	131	128
GEW-69R	136	156	190	184
GEW-70R	180	192	189	180
GEW-71	140	144	144	144
GEW-72R	145	146	178	188
GEW-73R	123	126	130	125
GEW-74	148	170	188	195
GEW-75	190	197	197	45
GEW-76R	165	170	170	176
GEW-77	138	140	138	138
GEW-78R	130	133	136	132
GEW-79R	147	178	182	180
GEW-80	119	120	124	125
GEW-81	126	134	135	137
GEW-82R	132	136	140	131
GEW-83	104	120	110	100

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature °F			
	Sept	Oct	Nov	Dec
GEW-84	115	117	116	110
GEW-85	140	146	150	140
GEW-90	--	--	194	190
GEW-91	--	--	165	164
LCS-1D	95	98	87	87
LCS-2D	103	99	98	100
LCS-3C	--	--	113	110
LCS-4B	180	208	202	190
LCS-5A	101	114	96	96
LCS-6B	140	125	70	60
PEW60	91	86	80	70
T-56	92	80	71	68
GEW-106	--	--	136	140
GEW-18B	--	--	140	140
GEW-57B	--	--	174	188
GEW-106	--	--	136	140
GEW-18B	--	--	140	140
GEW-57B	--	--	174	188

-- = Indicates no data available.

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW 10	8/29/2012	45	49	ND	ND	ND	180
	9/27/2012	42	52	ND	3.5	ND	280
	11/6/2012	45	47	2	6.1	ND	100
	12/4/2012	38	45	2	14	ND	130
GEW 11	8/29/2012	26	60	ND	ND	9.2	1,500
	9/27/2012	14	64	ND	3.5	16	2,700
	11/1/2012	16	65	1	2.8	14	2,100
	12/4/2012	12	61	1	6	18	2,800
GEW 12A	8/30/2012	0.24	57	4.3	16	21	5,100
	9/27/2012	0.3	68	ND	ND	27	6,200
	11/6/2012	1.6	62	2	7	24	5,000
	12/4/2012	6	44	6	21	22	3,900
GEW 13	8/30/2012	0.22	71	ND	ND	23	4,000
	9/26/2012	0.31	72	ND	ND	23	4,200
	11/6/2012	0.29	71	1	4	22	4,500
	12/4/2012	0.29	69	2	7	21	5,200
GEW 14A	8/29/2012	17	65	ND	4.6	11	1,700
	9/26/2012	16	68	ND	ND	12	2,100
	11/6/2012	10	66	2	7	13	2,600
	12/5/2012	9.1	69	1	5	15	3,200
GEW 15	8/29/2012	9.6	68	ND	4.3	16	3,100
	9/26/2012	4.4	70	ND	3.6	20	4,000
	11/6/2012	4	71	1	3.7	19	4,000
	12/5/2012	6.4	73	1	3.3	16	3,700
GEW 16R	8/29/2012	7.9	69	ND	4	16	2,600
	9/26/2012	6.4	70	ND	3.4	18	3,300
	11/6/2012	3.3	59	4	15	18	4,000
	12/5/2012	4.2	69	1	4.1	21	4,300
GEW 17R	8/29/2012	8.1	73	ND	4.6	12	2,400
	9/26/2012	6	76	ND	3.4	14	2,900
	11/6/2012	5	75	1	3.8	14	3,300
	12/5/2012	6.6	75	1	2.8	14	3,200
GEW 29	8/29/2012	18	63	ND	4.3	12	1,200
	9/25/2012	14	65	ND	4.1	15	1,400
	11/6/2012	18	64	1	3.9	12	1,300
	12/4/2012	19	63	1	4.2	13	1,400
GEW 30R	8/29/2012	19	60	ND	6.4	13	1,600
	9/26/2012	9	62	ND	4.1	23	2,700
	11/6/2012	19	57	1	5.2	16	2,000
	12/4/2012	17	59	2	7.3	15	2,000
GEW 32R	8/29/2012	1	60	ND	3.6	33	5,000
	9/25/2012	0.27	57	2.1	7.3	32	5,200
	11/6/2012	0.34	58	1.2	4.2	31	5,700
	12/4/2012	0.4	62	0.86	3	32	6,000

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW 33R	8/29/2012	0.22	60	ND	4	33	5,600
	9/27/2012	0.23	60	ND	3.8	34	5,000
	11/6/2012	0.22	53	3	11	29	5,300
	12/4/2012	0.27	55	1	4.4	38	6,800
GEW 34	8/29/2012	5.9	61	ND	3.9	27	3,100
	9/27/2012	5.6	62	ND	4.9	26	3,300
	11/6/2012	3.8	58	3	8.6	27	3,600
	12/4/2012	5.4	52	5	16	21	2,800
GEW 35	8/29/2012	3.4	63	ND	4.3	26	3,500
	9/27/2012	2.3	62	ND	5.6	28	3,100
	11/6/2012	0.42	59	3	9.6	23	5,000
	12/4/2012	0.32	66	1	3.8	28	5,400
GEW 36	8/29/2012	7.9	60	ND	4.6	25	2,800
	9/27/2012	6.4	61	ND	3.4	27	2,500
	11/6/2012	3	58	2	7	27	2,900
	12/4/2012	41	45	3	11	ND	ND
GEW 37	8/29/2012	7.2	63	ND	ND	24	4,000
	9/27/2012	5	64	ND	ND	27	3,300
	11/6/2012	12	51	1	15	17	2,300
	12/4/2012	12	50	1	18	18	2,400
GEW 38	8/29/2012	5.6	67	ND	ND	23	3,100
	9/27/2012	5.3	66	ND	3.3	24	2,700
	11/6/2012	7.1	66	1	4.3	21	2,500
	12/4/2012	5.7	64	1	3.6	25	3,000
GEW 39	8/29/2012	31	62	ND	4.4	ND	110
	9/27/2012	31	64	ND	3.8	ND	840
	11/6/2012	33	44	1	20	ND	27
	12/4/2012	3.1	61	2	5.7	28	3,300
GEW 56R	8/29/2012	16	70	ND	ND	9.7	1,200
	9/27/2012	12	70	ND	ND	14	1,900
	11/6/2012	19	54	2	20	4.8	590
	12//4/12	15	55	2	25	4.2	470
GEW 57R	8/30/2012	4.2	54	4.3	16	21	3,400
	9/27/2012	4.8	64	ND	3.2	26	4,100
	11/6/2012	1.2	58	1	6.9	27	4,500
	12/5/2012	4.8	62	1	3.6	28	4,200
GEW 58	8/30/2012	3.6	65	ND	3.6	25	4,300
	9/27/2012	2.7	65	ND	4.3	26	4,300
	11/6/2012	2	61	1	4.6	28	3,800
	12/5/2012	2.5	60	1	4.5	31	4,000
GEW 59R	8/30/2012	0.27	63	ND	4.9	28	6,900
	9/27/2012	6.3	64	ND	3.7	24	4,300
	11/6/2012	7.8	45	1	28	14	3,000
	12/5/2012	12	48	1	29	9.1	2,000

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW 60R	8/30/2012	4.6	63	ND	5	25	4,500
	9/26/2012	3.4	64	ND	3.8	27	4,900
	11/6/2012	0.32	64	1	3.7	29	5,600
	12/5/2012	0.39	63	1	3.5	30	6,300
GEW 62R	8/30/2012	3.8	62	ND	ND	28	4,500
	9/27/2012	4.2	59	1.6	6.2	28	3,900
	11/6/2012	1.9	52	2.3	10	27	4,200
	12/5/2012	3.4	52	3.2	14	27	3,700
GEW 63	8/29/2012	1.1	64	1.9	7	25	4,900
	9/27/2012	0.83	68	ND	3.7	26	6,100
	11/6/2012	0.5	67	1	3.5	26	5,900
	12/4/2012	0.66	66	1	4.1	27	6,100
GEW 64	8/29/2012	0.5	62	ND	4.3	30	5,600
	9/27/2012	0.37	64	ND	ND	31	5,500
	11/6/2012	0.29	54	1	5	26	4,400
	12/5/2012	0.31	61	2	5	31	5,500
GEW 65A	8/30/2012	7.9	65	ND	ND	22	4,900
	9/27/2012	6	63	ND	4.1	25	4,400
	11/7/2012	0.19	57	3	9.3	30	5,600
	12/5/2012	0.4	60	1	4.8	32	6,400
GEW 66	8/29/2012	2.9	69	ND	ND	23	5,700
	9/27/2012	2.1	68	ND	4	24	6,000
	11/6/2012	1.7	62	1	4.2	24	6,000
	12/5/2012	0.76	65	1	3.9	27	7,400
GEW 67	8/29/2012	0.18	66	ND	3.4	28	6,500
GEW 68	8/29/2012	9.5	62	ND	4.7	22	2,100
	9/27/2012	7.7	63	ND	4.2	23	2,400
	11/6/2012	6.9	59	1	3.8	21	2,100
	12/5/2012	6.1	59	3	12	19	2,300
GEW 69R	8/29/2012	5.4	35	10	38	11	2,100
	9/26/2012	2.3	67	ND	ND	26	5,200
	11/6/2012	1.4	67	1	4	24	6,300
	12/6/2012	8.3	65	1	5	20	4,900
GEW 70R	8/29/2012	4.3	67	ND	4.2	22	5,500
	9/27/2012	9.8	64	ND	4.8	20	4,200
	11/1/2012	8.7	61	2	9.3	18	4,100
	12/6/2012	9.9	59	2	12	17	3,800
GEW 71	8/29/2012	3.6	56	3.5	14	22	4,300
	9/26/2012	2.1	67	ND	3.8	26	5,300
	11/6/2012	2.3	65	1	5.2	24	5,100
	12/6/2012	3.3	62	2	8.4	23	4,700
GEW 72R	8/29/2012	7	69	ND	3.5	18	4,500
	9/26/2012	2.8	69	ND	3.7	23	5,600
	11/1/2012	1.7	68	1	4.5	24	6,900
	12/5/2012	0.51	70	1	3.2	23	8,900

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW 73R	8/29/2012	27	56	ND	5.6	8.7	1,000
	9/25/2012	21	60	ND	4.1	14	1,700
	11/6/2012	5.2	65	1	3.8	23	3,100
	12/4/2012	13	52	4	16	15	1,900
GEW 74	8/29/2012	2.4	67	ND	3.5	25	5,000
	9/25/2012	0.99	66	ND	ND	28	5,500
	11/6/2012	0.74	62	2	6	28	5,400
	12/5/2012	0.24	64	1	5	29	7,400
GEW 75	8/29/2012	0.25	55	4.8	18	21	6,100
	9/26/2012	0.29	67	ND	ND	27	7,300
	11/1/2012	0.26	66	1	4	27	7,300
GEW 76R	8/29/2012	2.6	71	ND	4	20	3,200
	9/26/2012	1.1	72	ND	3.3	22	6,100
	11/6/2012	0.7	71	1	3.8	22	6,600
	12/5/2012	0.45	59	4	16	19	6,000
GEW 79R	8/29/2012	3.5	64	2.6	9.6	19	5,200
	9/26/2012	2	71	ND	3.3	22	6,700
	11/1/2012	0.56	73	1	3	22	8,000
	12/5/2012	2.1	70	1	2.7	23	6,700
GEW 82R	8/29/2012	19	67	ND	4.8	7.6	1,400
	9/26/2012	9.6	74	ND	4.2	10	2,700
	11/6/2012	6.1	75	2	5.2	12	3,200
	12/5/2012	4.4	67	3	12	13	3,200
GEW 83	8/29/2012	30	56	ND	7.1	4.9	1,100
	9/27/2012	32	51	ND	12	3.8	490
	11/6/2012	18	40	2	37	2.7	300
	12/5/2012	17	39	2	40	ND	150
GEW 84	8/29/2012	20	61	ND	6.5	9.2	980
	9/26/2012	13	57	4.3	15	11	990
	11/6/2012	12	64	1.3	6.8	15	1,400
	12/6/2012	11	58	2.1	15	13	1,200
GEW 85	8/29/2012	9.2	60	ND	3.6	25	3,200
	9/27/2012	14	57	13	48	19	2,600
	11/6/2012	9.9	55	1.1	13	20	2,800
	12/5/2012	13	52	1.1	16	17	2,200
GEW 90	11/7/2012	0.3	56	3.1	11	28	5,800
LCS 4B	8/29/2012	0.49	66	2.3	8.6	21	7,300
	9/27/2012	1.6	68	2	6.9	20	6,800
	12/5/2012	0.2	64	4.3	15	15	7,600

ND = Analyte not detected in sample.

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-01	12/4/12 9:41 AM	29.2	28	0.4	42.4	120	120	14	14	-0.8	-0.8	0.056	0.058	-12.78	29.6
	12/10/12 8:36 AM	30.2	27.8	0.3	41.7	112	112	3	5	-1.2	-1.2	0.004	0.009	-18.11	29.41
	12/17/12 9:54 AM	31.1	28.9	0.6	39.4	115	115	9	6	-1.2	-1.2	0.024	0.01	-17.94	29.16
	12/19/12 10:25 AM	27.5	26.8	1.3	44.4	114	115	9	8	-1.5	-1.4	0.023	0.018	-24.11	29.44
	12/26/12 8:30 AM	40	29.7	0	30.3	104	104	5	6	-0.8	-0.8	0.009	0.012	-19.74	29.44
GEW-02	12/4/12 9:54 AM	34.3	35	0	30.7	128	128	41	47	-2.8	-2.7	0.462	0.59	-12.4	29.56
	12/4/12 9:57 AM	34.6	34.5	0	30.9	128	128	45	43	-2.7	-2.6	0.55	0.5	-12.36	29.56
	12/10/12 8:47 AM	35.2	34.4	0	30.4	119	120	49	50	-3.6	-3.6	0.635	0.669	-17.52	29.36
	12/17/12 10:01 AM	33.5	34.1	0	32.4	121	121	56	50	-3.7	-3.7	0.839	0.672	-18.26	29.12
	12/19/12 10:31 AM	31.6	33.1	0	35.3	122	122	56	52	-4.3	-3.6	0.83	0.725	-22.64	29.4
	12/26/12 8:39 AM	37	34.8	0	28.2	122	123	42	37	-2.8	-2.7	0.473	0.36	-19.39	29.38
GEW-03	12/4/12 10:01 AM	22.3	29.1	0	48.6	110	110	10	3	-0.8	-0.8	0.028	0.004	-12.24	29.56
	12/4/12 10:04 AM	22	28.6	0	49.4	110	110	5	8	-0.7	-0.7	0.007	0.019	-12.42	29.55
	12/10/12 8:51 AM	21.6	29.3	1.1	48	101	102	11	10	-0.7	-0.7	0.039	0.03	-18.59	29.35
	12/19/12 10:35 AM	24.9	31.2	0.1	43.8	119	119	16	27	-0.8	-0.9	0.078	0.201	-24.85	29.39
	12/26/12 8:44 AM	27.2	34	0	38.8	111	111	44	38	-1.3	-1.1	0.516	0.395	-19.67	29.38
GEW-04	12/4/12 10:12 AM	38.4	36.3	0	25.3	115	115	15	12	-0.8	-0.7	0.066	0.04	-12.13	29.55
	12/10/12 8:57 AM	39.2	36.6	0	24.2	119	119	20	18	-0.8	-0.8	0.113	0.087	-17.6	29.35
	12/19/12 10:38 AM	38.3	36.4	0	25.3	119	119	16	15	-0.9	-0.9	0.072	0.064	-23.9	29.37
	12/26/12 8:48 AM	39.4	35.2	0	25.4	117	118	16	20	-0.9	-0.9	0.07	0.109	-19.43	29.37
GEW-05	12/4/12 10:16 AM	31.2	32.9	0	35.9	100	100	15	16	-0.4	-0.4	0.063	0.072	-12.5	29.54
	12/10/12 9:11 AM	31.8	36.2	0	32	100	100	15	22	-0.5	-0.5	0.065	0.137	-17.92	29.33
	12/19/12 10:49 AM	32.2	34.7	0	33.1	102	102	17	16	-0.5	-0.5	0.081	0.074	-24.93	29.36
	12/26/12 8:53 AM	33.7	32.5	0	33.8	99	99	24	23	-0.6	-0.6	0.156	0.137	-19.31	29.36
GEW-06	12/4/12 10:34 AM	18	27.1	0	54.9	100	100	7	9	-0.5	-0.5	0.016	0.026	-12.37	29.55
	12/10/12 9:18 AM	16.6	28.1	0.8	54.5	81	83	9	12	-0.5	-0.5	0.026	0.041	-17	29.34
	12/19/12 10:56 AM	16.4	27.1	1.4	55.1	88	88	11	10	-0.6	-0.6	0.036	0.031	-23.74	29.36
	12/26/12 9:08 AM	18	27.9	0	54.1	83	82	25	22	-0.5	-0.5	0.164	0.127	-18.56	29.38
GEW-07	12/4/12 11:13 AM	50.2	40.9	0	8.9	110	110	17	18	-6.7	-6.7	0.08	0.09	-8.65	29.58
	12/10/12 10:03 AM	47	42	0.5	10.5	108	108	22	23	-9.1	-9.1	0.135	0.142	-17.2	29.41
	12/19/12 11:37 AM	45.2	40.8	0.7	13.3	108	109	24	24	-10	-9.9	0.153	0.163	-22.11	29.38
	12/26/12 10:12 AM	48.7	39.4	0	11.9	107	106	15	21	-8.8	-8.8	0.06	0.113	-17.37	29.46
GEW-08	12/4/12 11:10 AM	51	44.6	0	4.4	125	125	17	21	-2.3	-2.3	0.084	0.125	-14.14	29.57
	12/10/12 10:00 AM	47.8	46.9	0.1	5.2	121	121	27	25	-3.1	-3.2	0.206	0.176	-22.21	29.39
	12/19/12 11:34 AM	48.3	45.6	0.2	5.9	121	121	24	25	-2.9	-2.9	0.164	0.172	-22.21	29.37
	12/26/12 10:09 AM	50.2	42.4	0	7.4	119	119	27	23	-3.1	-3.2	0.197	0.148	-22.71	29.45
GEW-09	12/4/12 11:17 AM	28	33.6	0	38.4	115	115	14	6	-1.3	-1.2	0.059	0.012	-17.81	29.58
	12/4/12 11:19 AM	26.8	34.9	0	38.3	115	115	13	14	-1.2	-1.1	0.049	0.055	-19.13	29.58
	12/10/12 10:07 AM	23.5	35.3	0	41.2	110	110	21	20	-1.7	-1.7	0.129	0.112	-28.9	29.41
	12/19/12 11:40 AM	23.2	34	0	42.8	112	112	23	23	-1.2	-1.1	0.153	0.148	-27.4	29.37
	12/26/12 10:16 AM	24.7	30.2	0	45.1	106	105	14	12	-1.3	-1.2	0.057	0.04	-29.66	29.45
GEW-10	12/4/12 3:56 PM	39.3	51.7	0	9	110	110	5	7	-6.2	-6.2	0.01	0.018	-17.46	29.59
	12/4/12 4:02 PM	39.6	50.3	0	10.1	110	110	35	23	-6.6	-6.6	0.344	0.148	-17.77	29.59
	12/11/12 11:23 AM	34.6	48.9	0.2	16.3	108	108	9	4	-12.3	-12.3	0.025	0.005	-33.23	29.5
	12/19/12 1:49 PM	35.5	49.3	0.1	15.1	110	110	6	4	-9.6	-9.6	0.013	0.005	-26.29	29.23
	12/26/12 1:06 PM	33.2	44.6	0.2	22	100	100	15	13	-10.5	-10.5	0.071	0.055	-28.64	29.39

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-106	12/6/12 11:50 AM	0.4	75.9	0.2	23.5	140	140			-16	-16.1	-16.019	-16.193	-16.16	29.41
	12/19/12 11:46 AM	0.3	74.8	0.2	24.7	130	130			-21.4	-21.1	-21.554	-20.964	-21	29.33
	12/26/12 10:43 AM	0.3	74.5	0.3	24.9	90	90			-23.1	-22.7	-23.12	-22.476	-22.68	29.4
GEW-109	12/6/12 11:45 AM	10.3	68.8	0	20.9	131	131	23	24	-4	-4.1	0.187	0.202	-21.6	29.39
	12/11/12 10:59 AM	11.7	59.9	1.2	27.2	125	125	16	9	-9.3	-9.2	0.091	0.033	-35.3	29.51
	12/11/12 11:03 AM	11	59.7	1.2	28.1	110	110	13	14	-4.8	-4.8	0.062	0.066	-34.96	29.51
	12/19/12 12:02 PM	9.7	66.1	0	24.2	120	120	14		-1.4	-1.4	0.071	-0.034	-27.64	29.28
	12/26/12 11:04 AM	8.7	68.6	0	22.7	110	110	10	11	-1.4	-1.4	0.039	0.048	-27.72	29.38
GEW-11	12/4/12 3:44 PM	13.6	68.2	0	18.2	142	142	29	26	-9.3	-9.4	0.306	0.238	-9.64	29.58
	12/4/12 3:50 PM	13.9	67.7	0	18.4	142	142	25	19	-9.3	-9.2	0.232	0.131	-9.57	29.58
	12/11/12 2:55 PM	13.1	62.5	0	24.4	140	140	35	29	-16	-16.1	0.429	0.298	-16.45	29.47
	12/19/12 3:59 PM	12.4	67.5	0	20.1	140	140	29	25	-15.4	-15.4	0.319	0.224	-15.43	29.19
	12/26/12 2:08 PM	12.1	63.4	0.4	24.1	140	140	25	31	-14.1	-14.2	0.22	0.337	-13.69	29.4
GEW-111	12/6/12 8:55 AM	7.5	78.9	0	13.6	62	62	21	22	-5.3	-5.3	0.155	0.161	-22.21	29.47
	12/6/12 8:56 AM	7.5	78.9	0	13.6	62	62	21	21	-5.3	-5.3	0.155	0.153	-20.48	29.47
	12/11/12 11:36 AM	6.5	77.3	0	16.2	60	60			-8.7	-8.7	-0.055	-0.057	-36.39	29.49
	12/19/12 1:56 PM	6.4	78.1	0	15.5	55	55			-6.2	-6.2	-0.008	-0.003	-25.91	29.22
	12/26/12 1:12 PM	6.2	74.4	0.1	19.3	35	35			-6.9	-6.9	-0.098	-0.088	-29.27	29.38
GEW-12A	12/4/12 4:13 PM	6.3	51.5	4.9	37.3	80	80			-8.7	-8.9	-9.402	-8.136	-8.62	29.59
	12/4/12 4:20 PM	5.5	43.9	6.9	43.7	80	80			-8.1	-9.1	-6.741	-8.24	-8.42	29.59
	12/11/12 3:09 PM	1	41.3	8.3	49.4	75	75			-16.1	-16.3	-16.228	-16.141	-16.17	29.47
	12/19/12 4:03 PM	0.4	28.8	11.8	59	70	70			-15.4	-15.4	-15.364	-16.1	-14.68	29.19
	12/27/12 10:00 AM	0.8	63	4	32.2	80	80			-13.2	-12.1	-13.368	-12.619	-12.81	29.63
GEW-13	12/4/12 4:26 PM	0.4	79.7	0	19.9	125	125		5	-9.5	-9.6	-0.022	0.076	-9.66	29.59
	12/4/12 4:34 PM	0.4	79.6	0	20	125	125			-9.6	-9.7	-0.065	-0.046	-9.87	29.59
	12/11/12 11:28 AM	0.1	81.9	0.4	17.6	82	86	6	2	-13.2	-14.8	0.091	0.011	-14.06	29.54
	12/19/12 3:11 PM	0.2	84.3	0	15.5	65	65		4	-15.9	-16	-0.115	0.061	-15.92	29.27
	12/27/12 8:30 AM	0.3	79.1	0	20.6	64	65	10	5	-14.2	-14.6	0.286	0.071	-14.66	29.61
GEW-14A	12/5/12 9:34 AM	10.3	76.8	0	12.9	120	120	49	51	-4.1	-4.1	0.85	0.893	-5.35	29.71
	12/5/12 9:40 AM	10.5	75.9	0	13.6	120	120	47	53	-4.1	-4.1	0.764	0.982	-5.31	29.71
	12/11/12 11:31 AM	9	83.4	0	7.6	127	127	49	51	-4.8	-4.7	0.87	0.926	-5.69	29.53
	12/19/12 3:14 PM	9.8	78.5	0.3	11.4	124	124	61	60	-8.7	-8.6	1.334	1.268	-10.61	29.25
	12/27/12 8:35 AM	11.7	73.5	0	14.8	125	125	53	54	-6.9	-7.1	0.972	1.009	-8.3	29.59
GEW-15	12/5/12 9:23 AM	7.3	78.1	0	14.6	128	128	58	66	-1.9	-1.9	1.2	1.522	-4.85	29.69
	12/5/12 9:29 AM	7.2	79.3	0	13.5	128	128	55	58	-1.9	-2	1.06	1.194	-4.74	29.69
	12/11/12 1:44 PM	7.6	80.5	0	11.9	130	130	74	75	-3.6	-3.5	1.915	1.999	-7.14	29.47
	12/19/12 4:01 PM	7.6	83.9	0	8.5	127	126	84	93	-4.1	-4.1	2.513	3.021	-7.53	29.21
	12/27/12 9:18 AM	8.1	79.7	0	12.2	126	127	67	77	-3.2	-3.2	1.553	2.081	-5.93	29.57
GEW-16R	12/5/12 9:48 AM	4.6	76.5	0	18.9	130	130	59	61	-1.8	-1.8	1.245	1.309	-3.68	29.7
	12/5/12 9:54 AM	4.6	76.1	0	19.3	130	130	59	53	-1.8	-1.9	1.217	1.007	-3.84	29.7
	12/11/12 1:41 PM	4.8	77	0	18.2	136	136	66	75	-3.7	-3.7	1.562	1.981	-6.43	29.49
	12/19/12 3:57 PM	4.7	79.3	0.2	15.8	134	134	74	72	-4.6	-4.5	1.975	1.859	-7.89	29.23
	12/27/12 9:14 AM	5	75.3	0.2	19.5	134	134	84	86	-5.2	-5.3	2.469	2.605	-8.98	29.59
GEW-17R	12/5/12 10:00 AM	7.3	80	0	12.7	130	130	49	48	-2.2	-2.3	0.856	0.824	-4.56	29.72
	12/5/12 10:06 AM	7.5	79	0	13.5	130	130	49	54	-2.2	-2.1	0.865	1.022	-4.41	29.72
	12/11/12 4:03 PM	8.5	77.5	0.1	13.9	133	133	70	75	-5.2	-5.2	1.725	1.958	-9.43	29.52
	12/19/12 1:51 PM	5	82.2	0.1	12.7	130	129	164	157	-9.6	-9.2	9.44	8.638	-10.99	29.27
	12/26/12 1:20 PM	5.6	78.7	0	15.7	135	135	133	144	-7.1	-7.5	6.239	7.283	-9.68	29.45

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-18B	12/4/12 1:06 PM	5.9	78.8	0.7	14.6	140	140			-2.7	-2.7	-2.151	-2.388	-4.66	29.56
	12/11/12 4:07 PM	7	78.1	0	14.9	138	138			-5.5	-5.4	-5.234	-5.094	-9.27	29.51
	12/19/12 1:56 PM	5.9	82.4	0	11.7	134	134	107	115	-8.4	-8.3	4.127	4.697	-8.44	29.26
	12/26/12 1:24 PM	4.9	79.7	0	15.4	133	134			-3.5	-3.8	-3.135	-3.901	-5.71	29.44
GEW-18R	12/4/12 1:09 PM	8	78.9	0	13.1	140	140	43	41	-3.7	-3.7	0.692	0.633	-4.76	29.57
	12/12/12 8:49 AM	9.1	77.4	0	13.5	138	138	42	44	-7.9	-7.9	0.65	0.709	-9.16	29.74
	12/19/12 1:59 PM	4.8	80.8	0.3	14.1	140	140	19	48	-7.2	-6.9	0.145	0.877	-8.38	29.28
	12/26/12 1:30 PM	7	78.3	0	14.7	134	134	45	45	-4.8	-5	0.74	0.734	-5.92	29.46
GEW-19A	12/4/12 1:13 PM	8.2	76.4	0	15.4	158	158	16	18	-7.3	-7.2	0.1	0.125	-7.53	29.58
	12/11/12 4:49 PM	8.6	76.2	0.4	14.8	152	153	14	15	-13.4	-13.3	0.087	0.099	-13.67	29.54
	12/19/12 2:02 PM	8	77.4	0.8	13.8	140	140	11	11	-12.2	-12.1	0.05	0.055	-12.63	29.28
	12/26/12 1:53 PM	8.5	77.1	0	14.4	142	143		15	-9.3	-9.5	-0.003	0.093	-9.66	29.47
GEW-20A	12/4/12 1:17 PM	10.2	54.4	5.2	30.2	75	75	145	165	-5.9	-7.7	5.884	7.649	-7.94	29.58
	12/4/12 1:20 PM	11.9	62.9	6.2	19	75	75	163	164	-7.8	-7.8	7.693	7.796	-7.92	29.59
	12/11/12 4:52 PM	6.8	41.4	10.5	41.3	54	54	231	231	-13.9	-13.8	13.891	13.873	-13.4	29.53
	12/19/12 2:08 PM	3.5	26.6	14.3	55.6	44	46	225	148	-12.4	-5.4	12.218	5.255	-12.67	29.28
	12/19/12 2:10 PM	5	31.5	13.4	50.1	45	45	177	178	-7.7	-7.9	7.643	7.742	-12.89	29.29
	12/26/12 1:57 PM	31.4	64.2	0	4.4	107	123		150	23.6	-5.1	-23.531	6.605	-10.22	29.48
	12/26/12 2:09 PM	27.8	58.3	1.5	12.4	119	118	152	146	-7.1	-6.5	6.722	6.209	-9.6	29.47
GEW-21A	12/4/12 1:23 PM	3.2	75.4	0	21.4	150	150	10	8	-1.1	-1.1	0.04	0.026	-7.56	29.56
	12/11/12 4:58 PM	2.3	77.3	0	20.4	145	146	24	21	-4.1	-4.1	0.219	0.175	-13.47	29.51
	12/19/12 2:13 PM	3	76.1	1.7	19.2	152	152	31	29	-2.8	-2.7	0.381	0.325	-12.23	29.27
	12/26/12 2:12 PM	2.7	73.8	1	22.5	146	147	27	30	-2.4	-2.3	0.288	0.347	-9.41	29.46
GEW-22R	12/4/12 1:27 PM	19.3	74.8	0	5.9	130	130	139	140	-6.4	-6.3	6.346	6.367	-6.45	29.56
	12/11/12 5:01 PM	17.9	74.3	0	7.8	125	125	184	184	-10.8	-10.9	10.972	10.977	-11.07	29.51
	12/19/12 2:16 PM	17.4	75.3	0	7.3	123	123	165	165	-9	-9	8.827	8.891	-9.18	29.26
	12/26/12 2:14 PM	17.7	72.5	0	9.8	123	123	163	161	-8.2	-8.1	8.483	8.271	-7.58	29.47
GEW-23A	12/4/12 1:30 PM	25	56.7	0	18.3	118	118	33	40	-4.5	-4.5	0.34	0.483	-6.08	29.55
	12/11/12 5:04 PM	25.1	63.8	0	11.1	118	118	63	64	-6.8	-6.8	1.227	1.254	-10.27	29.5
	12/19/12 2:19 PM	23.2	63.3	0	13.5	109	109	50	54	-5.8	-5.7	0.778	0.886	-8.65	29.25
	12/26/12 2:17 PM	21	57.6	0	21.4	110	111	58	50	-5.4	-5.5	1.017	0.753	-7.43	29.46
GEW-24A	12/6/12 11:33 AM	31.1	68.7	0	0.2	62	62	11		2.3	2.3	0.036	-0.028	-8.88	29.41
	12/11/12 5:08 PM	32.9	67	0	0.1	46	46	11	13	0.8	0.8	0.036	0.049	-13.92	29.5
	12/19/12 2:24 PM	31.2	68.7	0	0.1	48	50			2.2	2.1	-0.074	-0.067	-12.69	29.24
	12/21/12 3:59 PM	35.1	64.8	0	0.1	90	90		8	-1.2	-1.2	-0.031	0.023	-13.58	
	12/26/12 2:22 PM	32.5	67.1	0	0.4	118	119	10	4	-0.2	-0.3	0.034	0.008	-9.96	29.46
GEW-25A	12/4/12 1:37 PM	14	73.3	0	12.7	135	135	18	15	-2.9	-2.9	0.125	0.087	-7.85	29.55
	12/12/12 8:31 AM	13.4	73.5	0	13.1	135	135	24	25	-5.2	-5.2	0.206	0.236	-13.36	29.71
	12/19/12 2:27 PM	12.5	77	0.1	10.4	123	123	20	32	-3.8	-4	0.149	0.36	-12.16	29.23
	12/26/12 2:26 PM	12.2	74.9	0	12.9	128	129	22	21	-3.8	-3.8	0.179	0.164	-9.33	29.46
GEW-26R	12/4/12 2:25 PM	0.6	76.4	0	23	185	185	17		2.2	2.1	0.119	-0.215	-7.95	29.57
	12/4/12 2:28 PM	0.7	70.1	0	29.2	185	185	10		2.6	2.7	0.046	-0.133	-7.85	29.57
	12/12/12 8:35 AM	0.6	77	0	22.4	185	185		22	1.6	1.6	-0.061	0.209	-13.49	29.71
	12/19/12 2:30 PM	0.7	80.2	0	19.1	186	187	77	78	1.1	1.1	2.323	2.372	-12.36	29.23
	12/21/12 4:03 PM	1.2	75.9	0	22.9	170	170			-1.8	-1.8	-3.777	-3.743	-13.43	29.57
	12/26/12 2:29 PM	0.7	78.3	0	21	182	183			-0.6	-0.4	-3.408	-3.182	-9.23	29.45

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-27A	12/4/12 2:45 PM	26.6	64.9	0	8.5	130	130	59	50	-5.2	-5.3	1.102	0.794	-6.57	29.58
	12/12/12 8:37 AM	26.2	66	0	7.8	138	138	70	77	-8.7	-8.8	1.567	1.901	-10.87	29.71
	12/19/12 2:32 PM	25.2	69.6	0	5.2	140	140	63	70	-8	-7.8	1.301	1.596	-9.99	29.24
	12/26/12 2:32 PM	26.8	65.8	0	7.4	139	139	51	66	-6.1	-6.2	0.833	1.392	-7.37	29.46
GEW-28R	12/4/12 2:48 PM	21.6	57.3	1.4	19.7	130	130	6	13	-0.8	-0.8	0.014	0.063	-8.68	29.59
	12/12/12 8:41 AM	18.6	50	5.8	25.6	115	115	20	10	-1.9	-1.4	0.131	0.034	-14.48	29.71
	12/12/12 8:43 AM	19.8	52	4.9	23.3	115	115	12	10	-1.2	-1.2	0.046	0.035	-14.51	29.71
	12/19/12 2:36 PM	21.6	68.8	0	9.6	132	133	12	11	-0.2	-0.2	0.052	0.045	-14.03	29.24
	12/26/12 2:35 PM	20.3	65.1	0.1	14.5	131	131	14	14	-0.1	-0.1	0.071	0.067	-9.15	29.47
GEW-29	12/4/12 10:45 AM	19.9	69.1	0.1	10.9	128	128	57	53	-5.3	-5.2	1.066	0.936	-6.61	29.5
	12/4/12 10:52 AM	20.3	68.9	0.1	10.7	128	128	58	58	-5.5	-5.6	1.115	1.096	-7	29.5
	12/12/12 10:19 AM	20.9	70.3	0	8.8	130	130	74	73	-8.8	-8.7	1.815	1.741	-10.79	29.71
	12/19/12 10:28 AM	20.8	68.1	0.2	10.9	125	125	72	70	-7.7	-7.8	1.692	1.575	-9.91	29.34
	12/26/12 10:06 AM	18.9	68.6	0.2	12.3	115	115	77	61	-6.5	-6.3	1.876	1.199	-7.56	29.36
GEW-30R	12/4/12 11:00 AM	18.2	64.2	1	16.6	150	150	32	31	-4.1	-4.2	2.582	2.45	-8.28	29.5
	12/4/12 11:07 AM	17.8	64.3	0.9	17	150	150	29	28	-3.4	-3.4	2.14	1.976	-8.55	29.5
	12/12/12 10:23 AM	19.1	62.8	0.7	17.4	150	150	35	35	-5.8	-5.8	3.05	3.113	-13.61	29.72
	12/19/12 10:31 AM	18.4	62.5	1.7	17.4	148	148	34	32	-5.1	-5.2	2.826	2.623	-12.54	29.34
	12/19/12 10:37 AM	14.7	65.2	0.9	19.2	148	148	20	19	-1.5	-1.5	0.998	0.981	-12.75	29.34
	12/26/12 10:09 AM	12	69.2	0	18.8	152	152	18	18	-0.8	-0.7	0.883	0.915	-10.1	29.36
	12/26/12 10:11 AM	12.4	69.1	0	18.5	155	155	23	23	-1.5	-1.4	1.459	1.452	-10.1	29.36
GEW-31R	12/12/12 10:26 AM	2.7	65.2	1.9	30.2	60	60			-15.1	-15	-14.996	-14.947	-15.26	29.74
	12/19/12 10:42 AM	2.2	73.3	0.7	23.8	42	42			-14	-13.9	-13.818	-13.763	-14.11	29.35
	12/26/12 10:15 AM	44.5	53.5	0.2	1.8	32	32			-11	-11.2	-11.098	-11.16	-10.52	29.4
GEW-32R	12/4/12 11:20 AM	0.4	71.1	0	28.5	188	188			-10.2	-10.1	-9.423	-9.848	-10.21	29.51
	12/4/12 11:26 AM	0.3	70.7	0	29	188	188			-10	-10.4	-10.349	-10.841	-10.16	29.51
	12/19/12 10:45 AM	1.8	67.9	0.3	30	195	195			-13.7	-13.8	-13.162	-13.456	-12.93	29.34
	12/26/12 10:19 AM	2.7	66.8	0	30.5	180	180			-19.9	-15.9	-18.984	-12.877	-16.55	29.4
GEW-33R	12/4/12 11:53 AM	0.3	65.3	0	34.4	185	185			-11.4	-11.6	-0.205	-0.036	-11.47	29.52
	12/4/12 12:02 PM	0.3	65.8	0	33.9	185	185	5		-11.3	-11.4	0.113	-0.176	-11.52	29.52
GEW-34	12/4/12 12:10 PM	6.9	68.4	0.6	24.1	120	120			-10.1	-10.1	-0.016	-0.015	-10.16	29.5
	12/4/12 12:16 PM	7	68.5	0.6	23.9	120	120		9	-10.1	-10.1	-0.002	0.035	-10.18	29.5
	12/19/12 10:51 AM	8.6	73.6	0	17.8	100	100			-17	-16.7	-0.04	-0.06	-19.56	29.32
	12/26/12 10:25 AM	8.3	73.7	0	18	85	85			-21.2	-72.1	-0.003	-0.011	-21.65	29.37
GEW-35	12/4/12 1:22 PM	0.3	72.8	0	26.9	180	180	70	64	-7.8	-6.9	1.881	1.597	-14.77	29.56
	12/4/12 1:27 PM	0.3	73.6	0	26.1	180	180	96	100	-8.1	-8.1	3.553	3.822	-14.81	29.56
	12/19/12 11:38 AM	0.4	72.3	0.7	26.6	182	182	218	228	-18.4	-19.3	18.02	19.683	-21.53	29.3
	12/19/12 11:40 AM	0.4	74.3	0.3	25	182	182	163	157	-10.5	-10.2	10.073	9.348	-21.99	29.3
	12/26/12 10:28 AM	0.4	73.1	0.5	26	175	175	197	199	-14.9	-15	14.579	14.862	-24.92	29.38
GEW-36	12/4/12 1:33 PM	3	71	0	26	152	152	29	28	-8.6	-8.6	2.297	2.196	-11.13	29.52
	12/4/12 1:39 PM	3.2	70.6	0	26.2	152	152	29	30	-8.3	-8.4	2.348	2.42	-10.89	29.52
	12/19/12 11:51 AM	2	71.6	0	26.4	155	155	26	24	-16.5	-16.1	2.002	1.611	-17.88	29.29
	12/26/12 10:49 AM	1.7	71.2	0	27.1	150	150	24	24	-19.2	-19.8	1.631	1.659	-19.36	29.38
GEW-37	12/4/12 1:51 PM	13	56.6	0.1	30.3	135	135	77	63	-8.2	-8.3	1.883	1.284	-10.09	29.53
	12/4/12 1:57 PM	13.1	56.2	0.1	30.6	135	135	73	70	-8.2	-8.2	1.718	1.58	-10.31	29.53
	12/19/12 11:54 AM	12.8	53.3	0.4	33.5	132	132	76	79	-14	-68.1	1.846	2.314	-16.24	29.29
	12/26/12 10:53 AM	13.1	51.4	0.5	35	130	130	69	71	-16.7	-16.5	1.522	1.626	-19.53	29.38

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-38	12/4/12 2:03 PM	6.1	71.7	0	22.2	130	130	79	74	-12.7	-12.1	2.187	1.913	-15.17	29.53
	12/4/12 2:10 PM	6.1	71.6	0	22.3	130	130	78	73	-12.6	-12.4	2.128	1.846	-15.19	29.53
	12/19/12 11:56 AM	6.6	71.1	0	22.3	128	128	91	85	-19.1	-19	2.925	2.549	-23.82	29.29
	12/26/12 10:56 AM	6	71.4	0	22.6	122	122	82	84	-20.1	-20	2.334	2.461	-24.18	29.38
GEW-39	12/4/12 2:55 PM	44.8	52.8	0	2.4	110	110	62	63	-1.9	-1.8	1.039	1.075	-16.85	29.54
	12/4/12 3:00 PM	45.1	52.3	0	2.6	110	110	62	56	-1.8	-1.8	1.034	0.828	-16.75	29.54
	12/19/12 11:59 AM	41.8	56.1	0	2.1	110	110	74	64	-2.3	-2.2	1.497	1.13	-26.59	29.29
	12/26/12 10:59 AM	43.3	55	0	1.7	100	100	69	72	-2.7	-2.7	1.254	1.379	-26.64	29.37
	12/26/12 11:01 AM	43.9	54	0	2.1	100	100	78	73	-3.4	-3.2	1.588	1.422	-26.01	29.37
GEW-40	12/4/12 11:26 AM	49.4	49.1	0	1.5	95	95	36	37	-0.3	-0.3	0.343	0.348	-19.19	29.57
	12/10/12 10:19 AM	46.6	52.9	0.3	0.2	81	82	17	18	-0.6	-0.6	0.084	0.087	-29.18	29.4
	12/19/12 11:49 AM	47.7	52.2	0	0.1	85	85	8	5	-0.2	-0.2	0.02	0.009	-28.85	29.35
	12/26/12 10:24 AM	48.8	49.2	0	2	81	83	13	14	-0.6	-0.7	0.05	0.056	-29.45	29.44
GEW-41R	12/4/12 11:30 AM	23.2	29	16.2	31.6	95	95	18	19	0	0	0.095	0.097	-18.9	29.56
	12/4/12 11:33 AM	39.8	37.8	0	22.4	98	98	18	22	-0.1	-0.1	0.091	0.124	-19.01	29.56
	12/10/12 10:24 AM	36.5	37.7	0.1	25.7	92	95	72	73	-1.5	-1.5	1.279	1.302	-29.45	29.39
	12/19/12 11:51 AM	38.6	39.2	0	22.2	96	96	8	9	-0.1	-0.1	0.018	0.023	-28.38	29.35
	12/26/12 10:28 AM	33.8	34.6	0	31.6	94	96	5	8	-0.3	-0.3	0.007	0.021	-29.08	29.44
GEW-42R	12/4/12 11:36 AM	36.6	33.6	0	29.8	90	90	30	30	-0.2	-0.2	0.227	0.234	-17.07	29.55
	12/10/12 10:26 AM	33.6	36	0	30.4	79	80	18	17	-0.3	-0.3	0.086	0.079	-26.47	29.39
	12/19/12 11:54 AM	34.1	36	0	29.9	83	85	9	9	-0.2	-0.2	0.025	0.023	-26.64	29.34
	12/26/12 10:31 AM	27	30.7	0	42.3	77	78	5	4	-0.3	-0.3	0.009	0.006	-26.79	29.43
GEW-43R	12/4/12 11:40 AM	55.1	42.4	0	2.5	65	75	14	23	0	-0.1	0.049	0.123	-16.6	29.55
	12/4/12 11:43 AM	55	42.5	0	2.5	85	85	23	23	-0.1	-0.1	0.133	0.136	-16.29	29.55
	12/10/12 10:30 AM	36.4	35.7	4.3	23.6	124	125	17	16	-0.2	-0.3	0.082	0.075	-25.1	29.39
	12/19/12 11:58 AM	53.3	44.2	0	2.5	137	143	13	26	0	-0.1	0.048	0.183	-25.65	29.33
	12/19/12 12:00 PM	51.5	44.2	0	4.3	144	143	31	27	-0.2	-0.2	0.259	0.202	-25.82	29.33
	12/26/12 1:11 PM	41.5	34.7	2.6	21.2	117	118	14	18	-0.2	-0.2	0.053	0.089	-26.06	29.45
GEW-44	12/4/12 11:45 AM	34.4	34.8	0	30.8	110	110	6	29	-0.5	-0.6	0.011	0.228	-17.02	29.56
	12/10/12 10:34 AM	29.7	35.3	0.4	34.6	97	98	16	17	-0.7	-0.7	0.076	0.078	-25.78	29.39
	12/19/12 12:03 PM	32.7	36.2	0.1	31	102	103	17	26	-0.4	-0.4	0.084	0.181	-26.91	29.33
	12/26/12 10:37 AM	28.4	30.2	0	41.4	96	97	6	6	-0.6	-0.6	0.012	0.012	-28.1	29.43
GEW-45R	12/4/12 11:49 AM	40.5	35.3	0	24.2	108	108	41	42	-1.2	-1.2	0.42	0.456	-12.44	29.56
	12/10/12 10:37 AM	39.8	37.8	0.6	21.8	96	96	46	27	-1.4	-1.4	0.541	0.194	-17.66	29.39
	12/19/12 12:08 PM	54.1	42.9	0	3	70	74	9	32	0.1	-0.1	0.022	0.238	-20.04	29.33
	12/26/12 10:41 AM	50.2	36.6	0	13.2	77	79	34	40	-0.4	-0.4	0.268	0.365	-18.48	29.44
GEW-46R	12/4/12 11:51 AM	24.5	30.5	0	45	85	85	6	6	-0.3	-0.3	0.011	0.01	-12.73	29.56
	12/10/12 10:40 AM	24.4	34	0	41.6	85	85	30	30	-0.3	-0.3	0.235	0.232	-17.9	29.39
	12/19/12 12:10 PM	25.8	33.4	0	40.8	83	83	1	4	-0.1	-0.1	0	0.006	-20.04	29.32
	12/26/12 10:44 AM	26.5	30.4	0	43.1	82	83	36	35	-0.3	-0.3	0.324	0.316	-17.95	29.43
GEW-47R	12/4/12 10:28 AM	30.1	35	0	34.9	110	110	3		-0.3	-0.3	0.003	-0.001	-12.35	29.54
	12/10/12 9:07 AM	30.5	36.5	0	33	96	99	3		-0.4	-0.3	0.003	-0.003	-18.08	29.33
	12/19/12 10:46 AM	42.5	40.3	0	17.2	89	90	5	5	-0.3	-0.3	0.007	0.009	-23.69	29.37
	12/26/12 8:56 AM	51.4	40.4	0	8.2	66	71	8	10	-0.3	-0.3	0.017	0.026	-19.39	29.35
GEW-48	12/4/12 10:30 AM	36.2	35.7	0	28.1	105	105	21	20	-1.4	-1.4	0.119	0.109	-12.2	29.54
	12/10/12 9:14 AM	35.9	36.1	0	28	105	106	22	22	-1.6	-1.7	0.135	0.13	-18.48	29.34
	12/19/12 10:52 AM	35	35.4	0	29.6	106	106	28	28	-2	-1.7	0.204	0.206	-24.65	29.36
	12/26/12 9:03 AM	38.6	36.6	0	24.8	105	105	24	20	-1.3	-1.3	0.159	0.104	-18.58	29.35

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-49	12/4/12 10:47 AM	21.3	28.6	0	50.1	102	102	6	26	-0.5	-0.5	0.01	0.179	-17.03	29.55
	12/10/12 9:33 AM	20.6	32.6	0	46.8	91	92	13	12	-0.6	-0.6	0.047	0.041	-26.88	29.35
	12/19/12 11:11 AM	25.9	31.3	0	42.8	92	93	12	12	-0.3	-0.3	0.043	0.042	-27.36	29.34
	12/26/12 9:39 AM	22.7	28.3	0	49	91	92	27	27	-0.6	-0.6	0.188	0.189	-27.76	29.4
GEW-50	12/4/12 10:40 AM	37.1	33.4	0	29.5	118	118	34	45	-2.9	-3.2	0.306	0.535	-12.14	29.55
	12/10/12 9:25 AM	35.6	36.3	0	28.1	112	112	52	50	-4	-4	0.712	0.651	-18.25	29.35
	12/19/12 11:03 AM	34	34.8	0	31.2	111	112	45	49	-4.4	-4	0.532	0.628	-21.26	29.36
	12/26/12 9:14 AM	36.5	32.8	0	30.7	110	110	42	48	-3.5	-3.5	0.45	0.585	-18.63	29.39
GEW-51	12/4/12 10:49 AM	41.5	36.5	0	22	120	120	15	12	-1.6	-1.7	0.063	0.04	-15.81	29.55
	12/10/12 9:37 AM	41.5	39	0	19.5	119	119	22	23	-2.2	-2.2	0.14	0.15	-26.33	29.36
	12/19/12 11:14 AM	41.2	38.5	0	20.3	119	119	25	26	-1.7	-1.7	0.17	0.182	-25.61	29.35
	12/26/12 9:45 AM	41.2	37.2	0	21.6	118	118	26	23	-2.4	-2.3	0.187	0.144	-26.04	29.41
GEW-52	12/4/12 10:43 AM	23.9	29.5	0	46.6	100	100	9	12	-0.7	-0.7	0.022	0.044	-12.45	29.56
	12/10/12 9:28 AM	24.9	33.7	0	41.4	98	98	13	12	-0.6	-0.6	0.049	0.041	-19.06	29.36
	12/19/12 11:07 AM	23.1	30.3	0	46.6	99	99	6	6	-0.6	-0.5	0.013	0.013	-22.42	29.36
	12/26/12 10:04 AM	15.4	23	3.6	58	93	92	13		-0.6	-0.5	0.047	-0.192	-18.68	29.41
GEW-53	12/4/12 10:54 AM	42.8	36.1	0	21.1	128	128	7	5	-0.9	-0.9	0.014	0.009	-15.13	29.55
	12/10/12 9:41 AM	41.6	38.6	0	19.8	126	126	13	14	-1.3	-1.3	0.051	0.055	-24.44	29.37
	12/19/12 11:20 AM	41.1	38.8	0.1	20	127	127	15	14	-0.7	-0.7	0.068	0.059	-24.78	29.34
	12/26/12 9:50 AM	41	35.3	0	23.7	122	122	13	14	-1.5	-1.5	0.051	0.053	-24.74	29.41
GEW-54	12/4/12 11:03 AM	47.7	43.9	0	8.4	128	128	20	16	-0.1	0	0.11	0.074	-18.63	29.55
	12/10/12 9:49 AM	45.8	44.9	0	9.3	132	133	11	28	-0.4	-0.4	0.038	0.226	-29.31	29.37
	12/10/12 9:51 AM	45.3	44.9	0	9.8	131	130	13	14	-0.4	-0.4	0.052	0.056	-29.5	29.37
	12/19/12 11:26 AM	46.3	44.5	0	9.2	132	141	10	16	0.1	-0.1	0.032	0.075	-28.76	29.35
	12/19/12 11:28 AM	46.2	44.4	0	9.4	145	146	17	17	-0.1	-0.1	0.088	0.083	-28.79	29.35
	12/26/12 9:56 AM	45.8	36.9	0	17.3	135	130	15	19	-1.1	-0.8	0.068	0.1	-29.39	29.42
	12/26/12 9:57 AM	44.7	38.7	0	16.6	127	127	10	10	-0.8	-0.8	0.027	0.031	-30.28	29.42
GEW-55	12/4/12 11:07 AM	47.8	42.1	0	10.1	122	122	12	11	-0.6	-0.6	0.04	0.038	-18.36	29.56
	12/10/12 9:55 AM	47.4	44.7	0	7.9	115	117	16	16	-1	-1	0.071	0.072	-29.2	29.38
	12/19/12 11:30 AM	47.4	43.6	0	9	118	118	16	17	-0.5	-0.5	0.075	0.08	-28.5	29.35
	12/26/12 10:01 AM	47	40.5	0	12.5	115	116	28	28	-1.3	-1.3	0.212	0.203	-29.09	29.42
GEW-56R	12/4/12 3:06 PM	15.7	59.7	0	24.6	125	125	17	51	-14.7	-14.2	0.107	0.865	-15.72	29.55
	12/4/12 3:11 PM	15.5	59.6	0	24.9	125	125	24	55	-14.2	-14.2	0.199	0.989	-15.39	29.55
	12/11/12 11:14 AM	16	53.3	0	30.7	122	122	76	88	-27.9	-27.5	1.844	2.468	-29.82	29.49
	12/19/12 1:36 PM	16.5	52.3	0	31.2	120	120	65	54	-20.7	-21.1	1.352	0.925	-22.88	29.23
	12/26/12 11:21 AM	16.4	55.6	0	28	112	112	56	68	-22.6	-22.8	0.993	1.474	-22.96	29.37
GEW-57B	12/6/12 11:42 AM	0.7	72.3	0	27	188	188			-10.9	-11.3	-10.674	-10.873	-11.55	29.36
	12/21/12 9:20 AM	0.8	68	0	31.2	170	170			-18	-17.1	-17.48	-17.105	-17.02	29.48
	12/28/12 3:50 PM	0.6	71.5	0	27.9	170	170	211	211	-16	-16	16.373	16.406	-16.08	29.04
GEW-57R	12/5/12 3:41 PM	5.5	69.1	0	25.4	170	170	182	181	-11.6	-11.6	11.821	11.747	-11.64	29.57
	12/5/12 3:46 PM	5.6	69.1	0	25.3	170	170	182	181	-11.5	-11.6	11.83	11.649	-11.65	29.57
	12/21/12 9:17 AM	5.5	70.4	0	24.1	165	165	217	216	-17.2	-17.1	16.926	16.758	-16.97	29.5
	12/27/12 1:40 PM	5.8	71.5	0	22.7	160	160	234	234	-18.6	-18.5	19.577	19.656	-17.68	29.35
GEW-58	12/5/12 3:09 PM	2.5	68.5	0	29	175	175	61	61	-3.1	-3.1	10.26	10.449	-6.8	29.56
	12/5/12 3:19 PM	2.4	68.3	0	29.3	175	175	61	60	-3.2	-3.3	10.352	10.109	-6.92	29.56
	12/21/12 9:05 AM	2.2	69.4	0	28.4	170	170	61	62	-8.2	-8.1	10.432	10.76	-11.72	29.5
	12/27/12 1:24 PM	2.2	69.6	0	28.2	165	165	65	68	-7.4	-7.3	11.819	12.673	-11.29	29.4

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-59R	12/5/12 2:55 PM	13.5	52.3	0	34.2	172	172	181	181	-10.4	-10.5	10.634	10.682	-10.63	29.56
	12/5/12 3:01 PM	13.6	52	0	34.4	172	172	184	184	-10.9	-10.6	10.982	10.939	-10.86	29.56
	12/21/12 9:00 AM	9.8	50.9	0	39.3	162	162	210	210	-14.6	-14.3	14.249	14.286	-14.52	29.51
	12/27/12 1:20 PM	10.2	47.2	0.1	42.5	160	160	219	219	-14.6	-14.5	15.149	15.151	-14.93	29.4
GEW-60R	12/5/12 3:24 PM	0.4	71.1	0	28.5	190	190			-11.8	-12	-12.593	-12.306	-11.73	29.57
	12/5/12 3:37 PM	0.4	70.9	0	28.7	190	190			-11.7	-11.7	-12.152	-11.748	-11.63	29.57
	12/21/12 9:15 AM	0.6	72.4	0	27	180	180			-17.1	-17.2	-16.978	-16.989	-17.29	29.5
	12/27/12 1:37 PM	0.4	73.5	0	26.1	180	180			-17	-17.2	-16.993	-19.729	-17.03	29.36
GEW-62R	12/5/12 3:55 PM	3.7	58.8	2.2	35.3	182	182			-7.8	-7.8	-8	-7.943	-11.81	29.56
	12/5/12 4:01 PM	3.8	59.3	2	34.9	182	182			-7.8	-7.8	-7.989	-7.955	-11.85	29.56
	12/21/12 9:26 AM	2.6	58.4	3.5	35.5	168	168			-6.3	-6.5	-6.264	-6.185	-15.39	29.48
	12/27/12 1:47 PM	0.5	69.4	0	30.1	50	50	23	23	1.2	1.2	1.197	1.247	-15.88	29.33
	12/27/12 1:49 PM	0.5	70.4	0	29.1	135	135			-1.8	-1.8	-1.882	-1.885	-15.93	29.33
GEW-63	12/4/12 3:22 PM	0.6	73.4	0.1	25.9	170	170	19	10	-5.9	-6.1	0.147	0.047	-7.67	29.55
	12/4/12 3:38 PM	0.6	73.5	0.1	25.8	170	170			-5.8	-5.7	-0.114	-0.01	-7.26	29.55
	12/11/12 3:03 PM	0.3	73.6	0.2	25.9	170	170			-12.2	-11.1	-0.372	-0.04	-14.95	29.45
	12/19/12 3:52 PM	0.4	75.8	0	23.8	160	160		10	-11.1	-10.5	-0.169	0.045	-13.6	29.18
GEW-64	12/5/12 4:44 PM	0.4	70.9	0	28.7	182	182			-10.7	-10.4	-10.24	-10.965	-11.18	29.56
	12/5/12 4:49 PM	0.5	70.6	0	28.9	185	185			-11.5	-11.2	-11.23	-11.867	-11.3	29.56
	12/21/12 9:46 AM	0.5	71.5	0	28	180	180			-17.4	-16.9	-17.031	-16.663	-16.66	29.5
	12/27/12 2:03 PM	0.4	72.8	0	26.8	172	172			-15	-18.3	-16.643	-17.756	-16.85	29.29
GEW-65A	12/5/12 4:32 PM	0.4	68.7	0	30.9	180	180			-12	-12.1	-12.433	-11.758	-11.61	29.56
	12/5/12 4:38 PM	0.3	68.7	0	31	180	180			-12.3	-12	-12.305	-11.512	-12.12	29.56
	12/21/12 9:43 AM	0.4	70.2	0	29.4	170	170			-16.8	-16.9	-16.034	-16.382	-16.82	29.5
	12/27/12 2:00 PM	0.3	70.8	0.2	28.7	170	170			-19.4	-18.6	-20.293	-20.054	-19.47	29.29
GEW-66	12/5/12 4:06 PM	0.8	73.1	0	26.1	185	185	169	169	-10.5	-10.5	10.764	10.718	-10.62	29.56
	12/5/12 4:15 PM	0.8	73.4	0	25.8	185	185	170	171	-10.6	-10.8	10.924	11.044	-10.55	29.56
	12/21/12 9:33 AM	0.5	72.8	0.4	26.3	180	180	203	204	-15.5	-15.8	15.538	15.652	-15.67	29.49
	12/27/12 1:53 PM	0.3	74.4	0.3	25	180	180	203	201	-14.8	-14.9	15.567	15.243	-14.8	29.3
GEW-68	12/5/12 4:54 PM	7.9	70.9	0	21.2	122	122	67	60	-8.2	-8.1	1.54	1.225	-9.26	29.54
	12/5/12 4:59 PM	8.4	70.4	0.1	21.1	122	122	72	71	-8.1	-8.1	1.74	1.697	-9.19	29.54
	12/12/12 10:15 AM	8.1	72.1	0	19.8	128	128	52	47	-11.7	-11.6	0.971	0.78	-12.75	29.69
	12/21/12 9:49 AM	7.9	71	0	21.1	125	125	45	36	-12.9	-12.8	0.705	0.454	-13.94	29.49
	12/27/12 10:29 AM	7.6	73.3	0	19.1	128	128	56	44	-8.7	-8.5	1.101	0.703	-9.8	29.56
GEW-69R	12/6/12 10:53 AM	9.8	71.8	0	18.4	180	180	133	132	-6.5	-6.5	6.365	6.262	-6.48	29.34
	12/6/12 11:02 AM	9.8	73	0	17.2	180	180	135	131	-6.5	-6.5	6.631	6.276	-6.52	29.34
	12/12/12 8:57 AM	11.1	73.8	0	15.1	182	182	159	160	-9.2	-9.3	9.265	9.331	-9.18	29.66
	12/21/12 9:55 AM	11.8	70.8	0	17.4	170	170	167	168	-10.3	-10.3	9.811	9.907	-10.43	29.48
	12/27/12 10:36 AM	9.8	73.9	0	16.3	184	185	141	132	-7	-6.3	7.324	6.396	-7.46	29.55
GEW-70R	12/6/12 11:19 AM	11.6	66	0.1	22.3	170	170	175	177	-10.9	-10.9	10.616	10.82	-10.86	29.33
	12/6/12 11:25 AM	11.8	65.7	0.2	22.3	170	170	177	176	-10.9	-10.8	10.776	10.674	-10.79	29.33
	12/12/12 9:01 AM	13.5	66.4	0	20.1	180	0	204	248	-14.8	-15	14.61	15.292	-15.19	29.67
	12/21/12 9:59 AM	12.5	64.7	0.4	22.4	170	170	193	193	-13.5	-13.4	12.795	12.827	-13.5	29.49
	12/27/12 10:40 AM	12.6	67.5	0.2	19.7	94	94	227	225	-15.4	-15.4	15.677	15.424	-15.6	29.56

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-71	12/6/12 11:39 AM	3.6	70.6	0.7	25.1	135	135	166	164	-9.6	-9.5	9.387	9.207	-9.61	29.31
	12/6/12 11:45 AM	3.6	70.2	0.7	25.5	135	135	168	167	-9.6	-9.7	9.582	9.504	-9.73	29.31
	12/11/12 3:54 PM	3.6	69.3	0.9	26.2	138	138	210	211	-15	-15	15.056	15.22	-15.02	29.41
	12/19/12 4:15 PM	4	74.7	0.8	20.5	144	144	208	198	-14.8	-14.2	15.267	13.902	-15.42	29.2
	12/27/12 9:29 AM	3.9	67.8	2.3	26	140	140	193	148	-12.8	-7.3	12.668	7.401	-14.08	29.55
GEW-72R	12/5/12 10:18 AM	0.5	77.4	0	22.1	180	180	52	50	-0.1	-0.1	7.73	7.369	-2.79	29.66
	12/5/12 10:24 AM	0.5	77.3	0	22.2	180	180	50	49	-0.1	-0.1	7.314	7.088	-2.76	29.66
	12/11/12 3:47 PM	0.2	76.5	0	23.3	185	185	57	58	0.3	0.2	9.591	9.79	-9.75	29.4
	12/11/12 3:50 PM	0.2	77.2	0	22.6	185	185	71	71	-1.4	-1.4	14.793	14.763	-5.83	29.4
	12/19/12 4:08 PM	0.3	82.8	0	16.9	188	188	89	86	-0.7	-0.7	17.289	16.246	-5.82	29.18
	12/27/12 9:24 AM	0.5	79.2	0	20.3	188	188	70	75	0.7	0.7	14.484	16.411	-3.21	29.54
GEW-73R	12/4/12 10:29 AM	17.2	57.1	3	22.7	120	120	50	42	-2.1	-2	0.778	0.566	-8.25	29.47
	12/4/12 10:37 AM	14.1	60.5	2.5	22.9	120	120	35	39	-1.3	-1.3	0.396	0.484	-8.55	29.47
	12/11/12 9:32 AM	9.4	70.7	0	19.9	125	125	27	26	-0.1	0	0.262	0.239	-4.41	29.44
	12/11/12 9:34 AM	9.4	72	0	18.6	125	125	42	43	-0.7	-0.7	0.614	0.639	-4.13	29.44
	12/19/12 10:23 AM	18.1	54.6	3.1	24.2	115	115	53	49	-2.7	-2.8	0.85	0.728	-11.51	29.31
	12/19/12 10:25 AM	10.7	66.3	1.1	21.9	120	120	31	23	-1.1	-1	0.328	0.192	-12.96	29.31
	12/26/12 10:02 AM	7.8	71	0	21.2	120	120	20	28	-0.2	-0.2	0.147	0.28	-10.17	29.32
	12/26/12 10:03 AM	7.7	72.1	0	20.2	120	120	36	30	-0.7	-0.6	0.461	0.321	-10.19	29.32
GEW-74	12/5/12 10:44 AM	0.3	72.7	0	27	180	180	101	101	-3.8	-4.2	3.871	3.861	-4.5	29.64
	12/5/12 10:50 AM	0.3	72.8	0	26.9	180	180	102	109	-4.1	-4.4	3.913	4.463	-3.98	29.64
	12/12/12 9:08 AM	0.4	74	0	25.6	195	195	163	164	-10.3	-10.8	10.205	10.419	-11.08	29.66
	12/21/12 10:02 AM	0.7	72.7	0	26.6	185	185	155	121	-9.3	-8.4	9.071	5.553	-9.42	29.47
	12/27/12 10:50 AM	0.4	75.9	0	23.7	190	190	98	63	-4.7	-4.8	3.744	1.587	-6.39	29.54
GEW-75	12/12/12 9:14 AM	0.1	22	13.5	64.4	45	45	213	210	-10.6	-10.5	10.815	10.508	-10.62	29.68
	12/27/12 10:45 AM	0.4	74.8	1.2	23.6	44	44	180	162	-8.7	-7.9	9.514	7.685	-9.22	29.56
GEW-76R	12/5/12 11:22 AM	0.6	79	0	20.4	162	162	52	58	-0.4	-0.4	1.045	1.287	-2.74	29.65
	12/5/12 11:28 AM	0.6	78.4	0	21	162	162	52	65	-0.5	-0.3	1.048	1.618	-2.66	29.65
	12/12/12 9:19 AM	0.9	78.5	1	19.6	165	65	79	82	-3.6	-3.5	2.367	2.108	-7.25	29.69
	12/21/12 10:12 AM	0.6	79.4	0	20	155	155	85	74	-2.5	-2.7	2.658	2.071	-6.04	29.49
	12/27/12 10:55 AM	0.5	81.1	0	18.4	176	177	70	68	-1.5	-1.3	1.898	1.809	-5.1	29.56
GEW-77	12/4/12 2:51 PM	13.7	68.8	0	17.5	138	138	27	25	-4	-3.9	0.253	0.232	-7.46	29.54
	12/12/12 9:43 AM	11.1	73	0	15.9	138	138	31	26	-7.5	-7.5	0.363	0.254	-12.61	29.67
	12/19/12 1:33 PM	10.2	72.8	0.3	16.7	137	138	30	24	-5.7	-5.6	0.324	0.216	-12.05	29.22
	12/26/12 2:46 PM	10.8	73.1	0	16.1	137	136	35	32	-4.3	-4.3	0.431	0.366	-8.2	29.42
GEW-78R	12/4/12 2:56 PM	13	64.2	0	22.8	132	132	39	41	-2.8	-2.8	0.506	0.574	-6.89	29.54
	12/12/12 9:39 AM	13.7	62.4	0	23.9	130	130	52	56	-5.3	-5.3	0.899	1.031	-11.66	29.67
	12/19/12 1:30 PM	11.8	67.2	0	21	126	127	56	53	-3.8	-3.7	1.064	0.931	-11.11	29.23
	12/26/12 2:43 PM	10.5	66.3	0	23.2	129	130	46	51	-2.8	-2.9	0.702	0.864	-7.43	29.42
GEW-79R	12/5/12 11:06 AM	2.1	77.1	0	20.8	175	175	43	42	-0.7	-0.7	0.74	0.703	-1.19	29.64
	12/5/12 11:13 AM	2.1	77.2	0	20.7	175	175	46	42	-0.7	-0.7	0.827	0.706	-1.19	29.64
	12/12/12 9:37 AM	3.9	77.7	0	18.4	180	180	131	130	-6.5	-6.5	6.506	6.359	-7.1	29.66
	12/19/12 1:27 PM	3.8	77.4	0	18.8	177	178	113	111	-4.9	-4.8	4.781	4.678	-5.67	29.24
	12/26/12 2:40 PM	3.2	76.9	0	19.9	180	181	90	90	-3	-2.7	3.062	3.06	-3.19	29.41
GEW-80	12/4/12 2:59 PM	20.7	72.1	0	7.2	125	125	45	43	-5.2	-5.1	0.668	0.61	-7.57	29.55
	12/12/12 9:46 AM	20.5	73.8	0	5.7	120	120	56	53	-8.5	-8.6	1.029	0.958	-12.67	29.68
	12/19/12 1:36 PM	18.9	74.1	0	7	110	110	59	67	-6.2	-6.3	1.155	1.447	-12.05	29.24
	12/26/12 2:49 PM	17.5	73.9	0	8.6	118	118	44	49	-5.5	-5.4	0.647	0.812	-8.48	29.43

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-81	12/12/12 9:50 AM	5.1	77.1	0	17.8	90	90	10	11	-2.1	-2.2	0.041	0.044	-11.37	29.69
	12/19/12 1:41 PM	12.4	80.8	0	6.8	135	140		24	3.6	-0.1	-0.236	0.224	-9.4	29.24
	12/19/12 1:43 PM	13.5	81.7	0	4.8	137	137	24	22	-0.3	-0.3	0.215	0.19	-9.47	29.24
	12/26/12 2:53 PM	9.5	77.6	0	12.9	133	134	30	25	-2.9	-2.9	0.336	0.238	-8.03	29.45
GEW-82R	12/5/12 11:49 AM	5.6	81.5	0	12.9	130	130	45	48	-1.3	-1.4	0.738	0.822	-3.69	29.64
	12/5/12 11:55 AM	5.6	81	0	13.4	130	130	47	45	-1.2	-1.2	0.81	0.738	-3.63	29.64
	12/12/12 9:54 AM	5.8	81.4	0	12.8	130	130	70	64	-5.1	-4.9	1.763	1.487	-9.2	29.68
	12/21/12 3:48 PM	5.2	76.5	0.6	17.7	122	122	67	69	-5.8	-5.7	1.588	1.648	-9.7	29.55
	12/26/12 2:56 PM	4.6	80.3	0	15.1	131	132	64	63	-2.8	-2.8	1.469	1.416	-5.89	29.44
GEW-83	12/5/12 4:20 PM	18.5	45.2	0	36.3	100	100	194	192	-10.1	-9.9	10.234	9.984	-9.97	29.55
	12/5/12 4:26 PM	19.1	43.7	0	37.2	100	100	194	194	-10.1	-10	10.102	10.135	-10.13	29.55
	12/21/12 9:35 AM	16.8	42.6	0.3	40.3	90	90	241	239	-15.7	-15.6	15.491	15.299	-15.6	29.49
	12/27/12 1:55 PM	16.1	43.1	0.3	40.5	90	90	238	239	-14.6	-14.6	15.119	15.323	-14.67	29.29
GEW-84	12/6/12 11:29 AM	13.7	66.7	0	19.6	110	110	178	178	-10.1	-10.2	9.868	9.807	-10.24	29.32
	12/6/12 11:34 AM	14	66.6	0	19.4	110	110	177	179	-10	-10	9.672	9.962	-10.17	29.32
	12/11/12 3:56 PM	11.4	65.8	0	22.8	110	110	224	222	-15.5	-15.3	15.682	15.445	-15.64	29.41
	12/19/12 4:18 PM	13.3	73.7	0	13	110	110	219	220	-15.3	-15.2	15.37	15.607	-15.26	29.19
	12/27/12 9:32 AM	12.2	67.3	1.3	19.2	110	110	207	208	-13.7	-14	13.508	13.614	-13.8	29.55
GEW-85	12/5/12 2:09 PM	14.7	56.8	0	28.5	140	140	183	183	-10.4	-10.4	10.5	10.45	-10.41	29.61
	12/5/12 2:15 PM	14.6	57	0	28.4	140	140	183	184	-10.3	-10.4	10.491	10.542	-10.41	29.61
	12/11/12 4:52 PM	14.3	55.8	0	29.9	140	140	224	225	-15.5	-15.5	15.693	15.887	-15.44	29.45
	12/21/12 8:49 AM	13.8	52.7	0.1	33.4	130	0	222	253	-15	-14.9	14.95	14.966	-15.1	29.55
	12/27/12 9:50 AM	10.4	46.7	5	37.9	135	135	214	197	-13.9	-11.8	13.884	11.773	-15.6	29.6
GEW-90	12/6/12 10:32 AM	1.8	57.1	2.7	38.4	190	190			-8.1	-7.8	-8.078	-7.762	-9.48	29.43
	12/11/12 5:03 PM	1.5	43.4	3.1	52	175	175			-11.6	-11.7	-11.742	-11.721	-14.25	29.43
	12/21/12 8:58 AM	0.4	63.4	1.3	34.9	180	180			-3.5	-3.6	-3.58	-3.44	-15.7	29.5
	12/27/12 1:18 PM	0.3	66.2	0.8	32.7	175	175	74	77	-2.1	-2.1	2.039	2.154	-15.35	29.43
GEW-91	12/6/12 8:42 AM	0.2	76.2	0	23.6	164	164			-14.4	-14.8	-13.421	-17.464	-21.22	29.46
	12/11/12 11:09 AM	0.3	75.1	0	24.6	158	158			-20.2	-20.8	-19.212	-18.816	-32.91	29.48
	12/19/12 12:05 PM	0.5	75.7	0	23.8	152	152	59	59	9.2	9.2	9.338	9.28	-25.65	29.26
	12/19/12 12:07 PM	0.4	76.1	0	23.5	155	155			-22.5	-19.6	-22.49	-19.293	-24.8	29.26
	12/26/12 11:07 AM	0.6	72.7	0	26.7	145	145			-28.8	-27.9	-27.21	-25.4	-26.5	29.36
LCS-1D	12/6/12 8:45 AM	60.2	39.7	0	0.1	87	87	219	228	-9.5	-9.7	10.388	11.238	-10.36	29.46
	12/11/12 11:11 AM	56.8	43.1	0	0.1	80	80	266	238	-12.8	-12.6	15.734	12.596	-13.22	29.49
	12/19/12 1:34 PM	59.9	40	0	0.1	80	80	239	242	-14.3	-14.2	12.416	12.737	-13.97	29.23
	12/26/12 11:16 AM	58.2	41.7	0	0.1	60	60	211	229	-11.1	-10.8	9.446	11.031	-11.06	29.38
	12/27/12 10:11 AM	59	40.9	0	0.1	80	80	238	239	-11.4	-12	12.318	12.433	-11.37	29.61
LCS-2D	12/3/12 1:30 PM	54.3	45.6	0	0.1	100	100	200	206	-9.5	-9.6	9.426	10.077	-9.58	29.27
	12/11/12 2:53 PM	58.2	41.7	0	0.1	97	97	264	264	-15.7	-16	15.868	15.932	-16.16	29.5
	12/21/12 8:47 AM	53.6	46.3	0	0.1	91	92	258	260	-15.5	-15.7	15.683	15.956	-15.65	29.6
	12/27/12 3:18 PM	55.4	44.5	0	0.1	94	94	219	217	-12.5	-11.1	11.132	10.935	-13.05	29.51
LCS-3C	12/3/12 2:05 PM	13.5	80.4	0.4	5.7	110	110	187	185	-11.5	-11.4	11.543	11.256	-11.46	29.26
	12/11/12 8:58 AM	12.5	76.3	1.4	9.8	88	89	290	290	-26.7	-26.8	26.895	26.963	-29.69	29.52
	12/21/12 9:27 AM	18	72.7	0.7	8.6	74	74	249	249	-18.4	-18.4	18.401	18.438	-18.41	29.61
	12/28/12 3:23 PM	19.2	74.7	0.4	5.7	103	102	241	241	-17.9	-17.8	18.303	18.294	-17.79	29.1
LCS-4B	12/5/12 11:36 AM	0.2	70.1	3	26.7	190	190	125	128	-5.8	-5.9	5.893	6.196	-5.99	29.63
	12/5/12 11:42 AM	0.3	69.7	3.2	26.8	190	190	121	120	-5.8	-5.6	5.555	5.483	-5.58	29.63
	12/28/12 3:55 PM	0.3	74.7	2.1	22.9	160	160	202	204	-14.6	-14.5	15.03	15.273	-14.61	29.01

December 2012 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
LCS-5A	12/4/12 10:58 AM	55.8	44.1	0	0.1	96	96	252	254	-14.8	-14.8	14.786	14.981	-14.98	29.55
	12/10/12 9:45 AM	54.9	45	0	0.1	92	91	324	320	-24	-24.2	24.803	24.225	-23.88	29.37
	12/19/12 11:23 AM	51	40.7	1.9	6.4	76	77	337	324	-24.6	-25.1	26.009	24.07	-25.05	29.34
	12/26/12 9:52 AM	58.2	38.9	0	2.9	69	70	338	338	-24.8	-24.8	24.707	24.766	-25.31	29.42
LCS-6B	12/4/12 10:23 AM	56.3	42.4	0	1.3	60	60	2	3	0	-0.9	0.002	0.002	-12.5	29.55
	12/4/12 10:25 AM	53	42.3	0	4.7	60	60	5	5	-1	-0.9	0.008	0.008	-12.26	29.55
	12/10/12 9:02 AM	47.6	37.6	2.5	12.3	31	32			-1	-1	-1.37	-1.381	-18.13	29.34
	12/19/12 10:42 AM	47.3	38.6	2.7	11.4	46	47	11		-1	-0.2	0.028	-0.706	-24.9	29.37
	12/26/12 8:59 AM	50.5	39.4	1.8	8.3	32	32	16	16	-1	-1	0.056	0.061	-19.22	29.37
PEW60	12/4/12 9:46 AM	51.9	41.2	0	6.9	70	70	15	15	-0.5	-0.5	0.053	0.057	-12.92	29.6
	12/10/12 8:41 AM	45.5	36.1	2.7	15.7	49	50		5	-1.1	-1.1	-0.001	0.006	-18.87	29.4
	12/17/12 9:58 AM	45.2	36.6	2.8	15.4	58	58	3	4	-0.9	-0.9	0.003	0.006	-17.97	29.16
	12/19/12 10:27 AM	42.5	33.7	4.1	19.7	58	58	14	21	-1.3	-1.4	0.049	0.104	-24.05	29.44
	12/26/12 8:33 AM	46.9	35.6	2.5	15	52	52	33	32	-1.3	-1.3	0.245	0.238	-19.82	29.43
T-56	12/4/12 10:37 AM	24.5	27.2	1.5	46.8	68	68	31	31	-0.3	-0.4	0.232	0.233	-12.67	29.56
	12/10/12 9:21 AM	21.3	28.2	3.4	47.1	57	58	38	36	-0.5	-0.2	0.346	0.314	-18.16	29.36
	12/19/12 10:58 AM	23.4	26.3	5	45.3	59	59	41	23	-0.5	-0.2	0.398	0.128	-24.62	29.37
	12/19/12 11:00 AM	23.7	25.8	4.9	45.6	59	59	17	20	-0.1	-0.1	0.077	0.102	-24.43	29.37
	12/26/12 9:11 AM	33.1	29.3	3.5	34.1	49	49	13	24	-0.1	-0.1	0.041	0.135	-20.08	29.39

Daily Flare Monitoring Data And Inlet Lab Data

Date	Enclosed Flare CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow Set Point	Enclosed Flare Temp	Callidus Flare Temp	Callidus Flow (scfm)	Total Flow (scfm)	Candlestick Flare CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	Flow (scfm)	Flare Temp.	Total Flow scfm
8/7/2012	16.9	52.7	3.6	26.8	-34.5	139	3822		1658				16.9	51.9	3.7	27.5	-46	137	1867	1256	**5689**
8/8/2012	17.4	52.4	3.7	26.5	-34.7	138	3916		1655				17.2	52.3	3.7	26.8	-45.8	136	1886	1258	**5802**
8/9/2012	14.8	49.8	4.7	30.7	-34.6	136	3718		1651				14.7	50.9	4.6	29.8	-47.3	132	1885	1229	**5603**
8/10/2012	15.2	52	4	28.8	-34.5	130	3782		1655				15.3	50.3	4.1	30.3	-47.2	129	1897	1274	**5679**
8/11/2012	17.2	53.9	3	25.9	-34.5	132	3597		1661				17.2	52.4	3.2	27.2	-47.4	130	1886	1234	**5483**
8/12/2012	16.7	61.1	1.3	20.9	-36.5	130	3000		1655				16.6	61.1	1.3	21	-55	140	1770	1180	**4770**
8/13/2012	16.7	56.2	2.4	24.7	-36.5	132	3670		1645				16.3	58	2.3	23.4	-56.1	132	1790	1207	**5460**
8/14/2012	17.1	55.7	2.3	24.9	-36.6	135	3850		1659				17	56.4	2.3	24.3	-56	132	1800	1237	**5650**
8/15/2012	19.8	60.4	0.6	19.2	-36.5	146	3452		1667				19.6	59.5	0.8	20.1	-55.3	142	1771	1249	**5223**
8/16/2012	17.8	57.4	1.6	23.2	-36.7	138	4094		1651				17.6	57.9	1.6	22.9	-56	132	1766	1278	**5860**
8/17/2012	16.2	55.7	2	26.1	-36.7	134	3964		1658				16.3	56.4	2	25.3	-55.9	132	1738	1148	**5702**
8/18/2012	17.1	55.4	2.2	25.3	-33.6	134	3896		1648				16.9	56.5	2.2	24.4	-54.1	135	1791	1157	**5687**
8/19/2012	19.2	57.1	1.3	22.4	-36.5	135	3680		1676				19.6	57.8	1.2	21.4	-55.7	132	1753	1188	**5433**
8/20/2012	19.1	56.1	1.8	23	-36.5	135	3750		1661				18.8	57.2	1.7	22.3	-55.6	134	1731	1262	**5481**
8/21/2012	16.5	53.5	2.8	27.2	-35.7	132	3819		1650				16.8	54.4	2.6	26.2	-55.5	133	1773	1203	**5592**
8/22/2012	17.5	56.8	1.7	24	-33.5	132	3647		1685				17.6	57.1	1.7	23.6	-54.8	130	1835	1228	**5482**
8/23/2012	17.7	56.4	1.6	24.3	-35.7	132	3854		1656				17.5	56.5	1.6	24.4	-57.6	130	1869	1215	**5723**
8/24/2012	16.5	56.6	2.4	24.5	-35.5	135	4022		1663				16.3	56.8	2.5	24.4	-61.1	136	1976	1294	**5998**
8/25/2012	17	56	2.3	24.7	-35.6	135	3955		1661				17.3	54.8	2.5	25.4	-61	135	1967	1313	**5922**
8/26/2012	17.8	55.7	2.5	24	-35.6	137	3925		1658				17.7	55.9	2.6	23.8	-61.3	132	2009	1310	**5934**
8/27/2012	15.9	54.4	2.6	27.1	-35.5	135	3911		1657				15.9	54.3	2.5	27.3	-61.1	130	1960	1265	**5871**
8/28/2012	15.9	56.5	2.6	25	-35.6	136	3997		1667				15.5	57.4	2.6	24.5	-60.6	130	1993	1347	**5990**
8/29/2012	16.1	56	2.9	25	-37.8	134	3901		1647				15.9	56.6	3	24.5	-68.9	130	2208	1300	**6109**
8/30/2012	15	53.6	3.5	27.9	-38.7	133	3902		1635				14.4	54.5	3.7	27.4	-70.1	128	2192	1332	**6094**
8/31/2012	14.2	54	3.8	28	-38.7	132	4074		1653				14.2	53.8	3.9	28.1	-71.1	128	2169	1344	**6243**
9/1/2012	15.5	53.4	3.6	27.5	-38.9	128	4051		1656				15.2	54	3.6	27.2	-71	124	2209	1145	**6260**
9/2/2012	16	53.5	3.7	26.8	-38.9	128	3984		1653				15.8	54.1	3.7	26.4	-71.6	120	2159	1345	**6143**
9/3/2012	14.8	56.4	3.2	25.6	-38.6	132	4150		1653				14.4	57.1	3.2	25.3	-70.2	130	2144	1302	**6294**
9/4/2012	15.1	55.8	3.4	25.7	-38.9	130	4092		1655				14.9	57	3.2	24.9	-70.4	126	2156	1381	**6248**
9/5/2012	15.4	54.9	3.4	26.3	-38.7	130	3975		1659				15.3	56	3.3	25.4	-71	124	2174	1309	**6149**
9/6/2012	14.3	54.3	3.6	27.8	-39.1	132	4178		1660				14.1	55.2	3.6	27.1	-70.4	127	2144	1395	**6322**
9/7/2012	16.6	58.6	1.8	23	-38.1	136	4357		1677				16.8	58.9	1.8	22.5	-69.1	134	2170	1320	**6527**
9/8/2012	14.4	52.8	4.1	28.7	-38	126	3951		1651				14.2	54	4	27.8	-70.7	122	2192	1323	**6143**
9/9/2012	14.2	53.3	3.8	28.7	-38.9	130	4135		1655				14	54.1	3.8	28.1	-70.7	126	2178	1333	**6313**
9/10/2012	14.3	53.6	3.9	28.2	-38.8	130	4142		1648				14.3	53.6	3.9	28.2	-70.9	125	2154	1333	**6296**
9/11/2012	14.4	52.9	3.9	28.8	-38.9	126	3999		1656				14.1	54	3.8	28.1	-71.1	121	2203	1316	**6202**
9/12/2012	14.3	53.9	3.8	28	-39	126	4156		1648				14.1	53.7	3.8	28.1	-71	122	2175	1360	**6331**
9/13/2012	14.7	54.1	3.5	27.7	-38.9	126	3639		1670				14.6	54.8	3.4	27.2	-69.5	120	2199	1324	**5838**
9/14/2012	13.6	51.5	4.4	30.5	-39.1	120	3653		1643				13.6	51.9	4.4	30.1	-68.7	116	2194	1330	**5847**
9/15/2012	17.3	56.9	2	23.8	-35.7	112	4650		1655				15.8	59.4	1.9	22.9	-64.4	108	2093	1320	**6743**
9/16/2012	15.1	55.3	3.1	26.5	-35.7	125	4107		1651				15.2	56.8	2.9	25.1	-61.4	120	1980	1264	**6087**
9/17/2012	14.5	54.4	3.8	27.3	-35.5	124	4450		1665				14.6	54.6	3.8	27	-61.4	120	1934	1293	**6384**
9/18/2012	13.3	52	4.7	30	-35.8	121	4596		1654				13.1	52.6	4.8	29.5	-61.5	116	2003	1318	**6599**
9/19/2012	14.8	56.1	3.3	25.8	-35.8	130	4435		1648				14.8	56.9	3.3	25	-59.6	126	1902	1330	**6337**
9/20/2012	13.9	53.9	4	28.2	-35.9	124	4634		1664				13.9	55.2	3.8	27.1	-59.8	120	1859	1244	**6493**
9/21/2012	14.2	54.7	3.7	27.4	-33.6	124	4003		1655				14.2	55.7	3.7	26.4	-64.1	120	2139	1280	**6142**
9/22/2012	14.4	51.9	4	29.7	-33.5	132	3776		1658				14.2	53.4	4	28.4	-63.8	128	2133	1316	**5909**
9/23/2012	15.7	54.1	2.5	27.7	-33.6	134	3572		1648				16.1	54.8	2.5	26.6	-62.7	128	2167	1305	**5739**
9/24/2012	16	61.3	1.3	21.4	-25.4	128	4786		1668				15.8	61.9	1.3	21	-37	124	1316	1312	**6102**
9/25/2012	14.7	57.2	3	25.1	-35.7	120	4751		1651				14.8	57.5	3.1	24.6	-65.8	118	2217	1257	**6968**
9/26/2012	15.4	58.1	2.3	24.2	-35.9	126	4453		1661				15.1	58.6	2.4	23.9	-66.2	120	2158	1342	**6611**
9/27/2012	13.1	53.6	4.2	29.1	-34.8	121	4305		1652				13.2	54.3	4.2	28.3	-67.8	116	2194	1329	**6499**
9/28/2012	14.3	55.2	3.4	27	-31.6	122	2918		1659				14.1	56.3	3.5	26.1	-66.2	118	2314	1290	**5232**
9/29/2012	16.2	56.9	2.1	24.8	-32.2	138	4200		1649				15.6	59.8	1.8	22.8	-63.9	133	2306	1437	**6506**
9/30/2012	16.9	56.5	2.1	24.5	-31.2	132	3860		1609				16.6	60	1.7	21.7	-63.7	130	2313	1383	**6173**
10/1/2012	15.9	60.5	2.1	21.5	-33.7	122	4503		1655				16	61	2	21	-62.8	120	2212	1403	**6715**
10/2/2012	15.3	58.3	2.7	23.7	-31.5	124	3973		1660				15.1	60	2.6	22.3	-62.1	120	2242	1375	**6215**
10/3/2012	14.6	48.3	4.8	32.3	-29	130	3707		1620	1660	3476	7183	14.4	49.6	4.5	31.5	-47.4	128	1930	1288	**9113**
10/4/2012	14.7	54	4	27.3	-19.5	123	2611		1560	1656	2741	5352	14.8	54.8	3.8	26.6	-35	120	1890	1269	**7242**
10/5/2012	17.1	61	1.7	20.2	-24.8	130	2740		1651	1633	2932	5672	17.7	61.6	1.7	19	-38.2	126	1836	1269	**7508**
10/6/2012	16.1	57.8	2.8	23.3	-24.9	130	2525		1621	1646	3046	5571	16.2	58.6	2.7	22.5	-37.7	126	1729	1297	**7300**
10/7/2012	16.4	59.8	1.8	22	-22.8	132	2835		1557	1649	3324	6159	16.6	60.8	1.8	20.8	-35.6	128	1719	1324	**7878**
10/8/2012	16.2	59.2	2.2	22.4	-24.9	132	2342		1672	1634	3386	5728	16.6	59.5	2.3	21.6	-36.4	128	1625	1189	**7353**
10/9/2012	15.1	58.2	2.9	23.8	-18.7	136	2110		1589	1653	3309	5419	15	59.1	2.8	23.1	-32	130	1715	1287	**7134**
10/10/2012	13.9	52.5	4.4	29.2	-34.1	122	2364		1779	1725	1963	5327	14.1	53	4.4	28.5	-44.6	116	1516	1310	**5843**
10/11/2012	15	54.9	3.5	26.6	-35.3	122	2895		1711	1645	2052	4947	15	55.9	3.4	25.7	-45.1	118	1397	1183	**6344**
10/12/2012	13.7	51.9	4.4	30	-36.2	122	3101		1709	1658	2246	5347	13.7	52.4	4.5	29.4	-43	120	1324	1167	**6671**
10/13/2012	14.4	51.9	4.3	29.4	-39.8	122	2827		1701	1665	2185	5012	15.3	54.8	3.4	26.5	-55.2	120	1856	1324	**6868**
10/14/2012	15.6	56.5	2.9	25	-40.6	122	2239		1717	1649	1800	4039	15.6	57.3	2.9	24.2	-60.6	118	2102	1204	**6141**
10/15/2012	14.3	54.5	3.2	28	-45.5	122	2670		1717	1530	1930	4600	14.2	53.5	3.6	28.7	-62.9	122	1975	1261	**6575**
10/16/2012	14.6	50.8	3.7	30.9	-40.3	130	2900		1700	1643	1940	4840	14.4	52.8	3.5	29.3	-60.3	128	2040	1346	**6880**
10/17/2012	14.6	53.1	3.3	29	-51.8	125	2930		1708	1673	2288	5218	14	55.8	3.1	27.1	-66.6	122	1885	1308	**7103**
10/18/2012	14.8	57.8	2.5	24.9	-51.2	126	1668		1574	1581	1489	3157	15.3	59.9	1.9	22.9	-67.6	120	1892	1160	**5049**
10/19/2012	14.3	50	4.2	31.5	-51.2	112	2145		1695	1645	1650	3795	14	53	3.8	29.2	-67.5	110	1855	1352	**5650**
10/20/2012	13.9	51.1	3.5	31.5	-51.3	122	3160		1687	1625	1800	4960	13.7	53.4	3.3	29.6	-65.8	122	1785	1227	**6745**
10/21/2012	13.9	54.6	3.2	28.3	-40.8	125	1400		1698	1643	1760	3160	13.7	54.5	3.2	28.6	-59.3	125	1990	1268	**5150**
10/22/2012	14.6	60.5	2.1	22.8	-57.4	124	1804		1708	1613	1225	3029	14.8	61.1	2.1	22	-64	121	1337	1119	**4366**
10/23/2012	15.2	60.5	2.2	22.1	-48.3	123	2947		1694	1648	2565	5512	15.3	61.2	2.1	21.4	-62.8	120	1436	1238	**6948**
10/24/2012	15	59.2	2	23.8	-52.5	128	1960		1595	1648	1725	3685	14.7	61.6	1.7	22	-60.1	125	1310	1225	**4995**
10/25/2012	15	57.9	2.5	24.6	-32.4	134	3106		1708	1635	2631	5737	15	58.7	2.5	23.8	-45.2	130	1623	1238	**7360**
10/26/2012	13.7	52.2	4.3	29.8	-31.2	121	2701		1700	1644	2411	5112	13.6	53.4	4.4	28.6	-40.5	114	1334	1305	**6446**
10/27/2012	14.3	53.3	3.3	29.1	-37.8	120	2200		1697	1603	2200	4400	14.7	51	3.5	30.8	-50.9	121	1645	1330	**6045**
10/28/2012	15.1	54.6	2.9	27.4	-43	122	2197		1701	1633	2250	4447	15.6	54.9	2.9	26.6	-53.6	118	1472	1275	**5919**
10/29/2012	14.1	50.7	3.7	31.5	-45.3	120	2250		1700	1530	2650	4900	13.5	56	2.8	27.7	-47.3	115	1270	1270	**6170**
10/30/2012	13.9	52.6	3.9	29.6	-34	118	2372		1704	1663	2820	5192	13.9	54.3	4	27.8	-44.2	113	1460	1362	**6652**
10/31/2012	12.4	51.6	4.9	31.1	-30.6	120	2339		1659	1645	2195	4534	12.5	52.5	4.9	30.1	-38.6	115	1261	1345	**5795**
11/1/2012	12.7	48.1	5.3	33.9	-29.6	115	2400		1625	1650	2145	4545	12.6	51.7	4.6	31.1	-35.9	102	1071	1060	**5616**
11/2/2012	13.1	48.4	4.8	33.7	-34.3	110	2500		1670	1630	2120	4650	13.3	51.1	4.4	31.2	-38.8	100	1050	985	**5670**
11/3/2012	13.6	52.1	3.8	30.5	-43.2	122	2862		1652	1651	1971	4833	13.6	53.4	3.9	29.1	-47.7	118	988	1290	**5821**
11/4/2012	12.9	51.5	4.3	31.3	-41.1	127	2659		1642	1614	2297	4956	13.8	54.7	3.4	28.1	-48.2	123	1188	1172	**6144**
11/5/2012	12	48.7	5.8	33.5	-41	116	2209		1640	1651	2168	4377	13.3	52.5	4.3	29.9	-47.1	110	1147	1243	**5524**
11/6/2012	13.4	49	4.3	33.3	-32.4	118	2230		1550	1645	2375	4605	12.5	52.4	4.1	31	-37.1	110	1040	1113	**5645**
11/7/2012	11.6	47	5.8	35.6	-30.6	118	2230		1620	1635	2260	4490	11.3	49.8	5.5	33.4	-38.4	110	1200	1289	**5690**
11/8/2012	11.8	51.5	5.6	31.1	-34	114	2723		1652	1650	2075	4798	11.8	52.3	5.7	30.2	-44.5	110	1456	1371	**6254**
11/9/2012	11	52	6	31	-34.3	115	2724		1661	1647	2084	4808	11.7	51.3	5.6	31.4	-46.5	114	1547	1336	**6355**
11/10/2012	11.6	47.4	5.8	35.2	-40.4	116	2824		1652	1627	1991	4815	11.8	48.5	5.6	34.1	-56.6	113	1732	1328	**6547**
11/11/2012	11.4	47	5.7	35.9	-39.9	116	3084		1651	1645	1852	4936	11.5	48	5.9	34.6	-50.4	113	1483	1195	**6419**
11/12/2012	10.7	47.7	5.9	35.7	-40.1	105	2370		1643	1647	1880	4250	10.7	48.7	5.8	34.8	-51.3	101	1484	1369	**5734**
11/13/2012	14	58.4	3.2	24.4	-36.8	120	2195		1500	1566	2288	4483	14.6	63	1.8	20.6	-29	120	1601	1228	**6084**
11/14/2012	9.8	41.4	8.1	40.7	-39.9	112	2197		1604	1637	1860	4057	11.4	45.5	6.9	36.2	-51.7	110	1526	1097	**5583**
11/15/2012	13.3	54.4	3.6	28.7	-36.1	110	2155		1608	1649	2018	4173	13.5	54.1	3.8	28.6	-47.4	114	1576	1173	**5749**
11/16/2012	12.7	53.8	4.2	29.3	-35.5	110	1955		1608	1603	1932	3887	12.9	54.6	4.1	28.5	-48.2	116	1669	1113	**5556**
11/17/2012	13.1	53.3	4.1	29.5	-34.8	110	2013		1603	1660	1925	3938	13.2	53.9	4.2	28.7	-49.3	112	1735	1107	**5673**
11/18/2012	12.8	53.4	4.2	29.6	-34.3	110	2065		1622	1652	1900	3965	12.6	55.8	3.9	27.8	-48.3	118	1747	1128	**5712**
11/19/2012	11.1	49	6.7	33.2	-34.2	110	2088		1570	1660	1920	4008	13.3	56.7	4.1	25.9	-47.6	114	1705	1166	**5713**
11/20/2012	12.7	53.1	5	29.2	-33.1	112	2281		1599	1642	1945	4226	13.1	54	4.7	28.2	-46.3	112	1701	1111	**5927**
11/21/2012	12.5	52	4.6	30.9	-43.4	109	2500		1604	1649	2020	4520	12.8	52.4	4.6	30.2	-55.7	110	1685	1133	**6205**
11/22/2012	12.7	52.8	4.2	30.3	-36.3	111	2229		1638	1641	2022	4251	13.3	54.9	3.8	28	-49.5	112	1762	1244	**6013**
11/23/2012	12.1	53.4	5.1	29.4	-44.4	104	1950		1656	1631	1951	3901	12.6	55.6	4.7	27.1	-53.9	108	1655	1214	**5556**
11/24/2012	12.6	50.4	4.8	32.2	-43.6	100	2017		1630	1637	2046	4063	12.6	52.3	4.8	30.3	-52.3	103	1512	1342	**5575**
11/25/2012	13.5	59.4	3	24.1	-39.6	106	2088		1642	1667	1900	3988	13.9	60.5	2.9	22.7	-47.3	108	1312	1316	**5300**
11/26/2012	14.2	53.1	3.8	28.9	-39.6	104	1851		1631	1629	1766	3617	14.3	54.4	3.8	27.5	-47.1	109	1289	1209	**4906**
11/27/2012	13.3	54	3.7	29	-34	100	3858		1651			3858	13.6	54	4.2	28.2	-38.1	106	1134	1065	**4992**
11/28/2012	13.4	62.4	3.3	20.9	-35.3	110	1834		1659	1668	1840	3674	13.9	60.4	3.1	22.6	-41.4	110	1185	1076	**4859**
11/29/2012	12.9	53.4	4.3	29.4	-33.7	105	2371		1674	1652	1819	4190	13.1	53.6	4.6	28.7	-39.8	110	1153	1150	**5343**
11/30/2012	13	52.3	4.3	30.4	-34.9	110	2442		1660	1650	1818	4260	13.1	52.8	4.2	29.9	-42.1	110	1240	1181	**5500**
12/1/2012	12.8	56.7	4.2	26.3	-34.7	110	2507		1683	1650	1863	4370	13	57.3	4.1	25.6	-42.7	114	1307	1360	**5677**
12/2/2012	13	54.5	4.1	28.4	-35.4	112	2616		1656	1654	1849	4465	13.1	54.1	4.2	28.6	-43.5	116	1323	1257	**5788**
12/3/2012	13	54.6	4.1	28.3	-35.8	115	2588		1656	1640	1839	4427	13.2	55	4	27.8	-45.2	116	1409	1274	**5836**
12/4/2012	11.9	55.2	4.6	28.3	-34.5	108	2156		1641	1596	1980	4136	12.1	55.6	4.6	27.7	-44.3	110	1478	1254	**5614**
12/5/2012	12	51.9	4.7	31.4	-33.5	108	2015		1678	1678	2026	4041	12.1	52.1	4.8	31	-43.1	109	1425	1157	**5466**
12/6/2012	12.3	53.9	4.9	28.9	-40.2	109	2829		1656	1658	1964	4797	12.5	55	4.8	27.7	-46.2	109	1118	1162	**5911**
12/7/2012	12.9	50	4.9	32.4	-40.7	112	2980		1660	1650	1900	4880	12.8	51.3	4.6	31.3	-48.3	112	1230	1095	**6110**
12/8/2012	12.3	47.2	5.5	35	-40.9	108	3000		1650	1630	1700	4700	12	49.2	5.4	33.4	-48	108	1220	1238	**5920**
12/9/2012	13.3	50.3	4.5	31.9	-40.1	110	3300		1658	1650	1760	5060	13.1	51.8	4.5	30.6	-45.9	110	1075	1115	**6135**
12/10/2012	9.5	45.8	7.4	37.3	-40.5	60	2429		1658	1643	1670	4099	15.1	47.7	5.6	31.6	-42.2	84	1308	1350	**5407**
12/11/2012	9.4	46.9	6.7	37	-44.5	54	1786		1656	1644	1701	4776	17.1	51.9	4.1	26.9	-51.2	86	1289	1337	**4776**
12/12/2012	10.5	51.4	5.8	32.3	-36.6	122	3546		1664	1662	1933	6919	14.5	54.5	4.8	26.2	-45.4	105	1440	1200	**6919**
12/13/2012	9.5	46	5.6	38.9	-40.9	80	1974		1698	1662	2089	5707	14.5	46.8	6.5	32.2	-52.7	100	1644	1388	**5707**
12/14/2012	11.6	59.6	3.2	25.6	-36.9	88	2217		1654	1651	1417	5254	17.3	50.2	4.4	28.1	-42.1	110	1620	1393	**5254**
12/15/2012	9.8	49.7	5.8	34.7	-36.5	68	1846		1643	1651	2079	5532	14.5	46	5.8	33.7	-47.7	112	1607	1273	**5532**
12/16/2012	11.2	57.7	4.5	26.6	-36.5	65	1980		1654	1649	1882	5313	14.3	50.5	5.2	30	-44.7	124	1451	1149	**5313**
12/17/2012	11	53	5	31	-36	68	1743		1617	1637	2054	5409	13.5	49.1	5.7	31.7	-47	95	1612	1326	**5409**
12/18/2012	10.2	51.9	5.2	32.7	-35.7	60	1871		1626	1668	1642	3513	13	48.2	6.1	32.7	-47.8	90	1597	1390	**5110**
12/19/2012	10.6	53	5	31.4	-37.8	71	1975		1642	1649	1860	3835	15.1	47.2	5.3	32.4	-45.8	100	1782	1372	**5617**
12/20/2012	11.4	57.7	4	26.9	-36.7	80	2177		1665	1668	1817	3994	15.1	57.6	3.9	23.4	-44	98	1602	1074	**5596**
12/21/2012	10.2	50.6	5.8	33.4	-37	58	2021		1656	1650	1844	3865	12.1	45.4	6.3	36.2	-43.2	75	1551	1226	**5416**
12/22/2012	10.5	55.2	4.5	29.5	-36.4	68	2066		1643	1651	1850	3916	13.6	54.4	5.1	26.9	-43.5	90	1550	1145	**5466**
12/23/2012	10.5	52	4.6	32.9	-37.6	79	2037		1635	1632	1774	3811	14.1	51	4.7	30.2	-47.8	99	1969	1227	**5780**
12/24/2012	10.5	53.7	4.8	31	-36.4	69	1822		1612	1659	1750	3572	13.8	51.2	5.2	29.8	-47.7	90	2059	1131	**5631**
12/25/2012	10	51	5.1	33.9	-36.1	60	1709		1632	1632	1805	3514	14.2	51.6	4.2	30	-46.3	95	1895	1242	**5409**
12/26/2012	10.3	56.2	4.7	28.8	-36	59	1481		1653	1642	1882	3363	15	58.4	3.7	22.9	-46.1	91	1956	1231	**5319**
12/27/2012	10.3	54.5	4.2	31	-37.8	67	1946		1655	1652	1784	3730	15	53.2	3.8	28	-45.3	102	1662	1137	**5392**
12/28/2012	12.2	58.2	3	26.6	-39.4	69	1873		1670	1647	1891	3764	15.3	55.1	3.7	25.9	-44.9	105	1543	1246	**5307**
12/29/2012	11.2	52.9	4.1	31.8	-38	65	2031		1621	1646	1804	3835	14.6	54.9	4.1	26.4	-45.1	98	1664	1066	**5499**
12/30/2012	10.9	54.7	4	30.4	-38.3	60	2114		1557	1633	1839	3953	14	54.3	4	27.7	-44.3	109	1523	1067	**5476**
12/31/2012	10.4	51.6	5.4	32.6	-37.3	72	2296		1659	1650	1909	4205	15.1	52.7	4.3	27.9	-43.3	110	1442	1119	**5647**
1/1/2013	10.2	53.2	5.9	30.7	-37.6	55	2011		1605	1647	1822	3833	14.1	54.7	4.7	26.5	-42.8	102	1418	1188	**5251**
1/2/2013	11	53.5	5	30.5	-37.7	60	1974		1619	1654	1977	3951	14.8	51.4	4.9	28.9	-43	106	1378	1077	**5329**
1/3/2013	10.8	56.2	4.1	28.9	-37	80	2130		1630	1645	1980	4110	15.9	52	4.2	27.9	-39	102	1468	1302	**5578**
1/4/2013	10.5	57.6	3.9	28	-38.1	68	1878		1665	1651	1838	3716	16.1	47.9	5.3	30.7	-39	104	1393	1163	**5109**
1/5/2013	10.9	54.7	4.7	29.7	-37.6	72	1908		1620	1645	1860	3768	16.5	48	5.5	30	-39.1	92	1321	1353	**5089**
1/6/2013	10.6	55.6	4.4	29.4	-39	70	1712		1711	1636	1782	3494	16.3	49	5.4	29.3	-39.4	92	1358	1321	**4852**
1/7/2013	11.2	63.8	2.6	22.4	-37.7	61	1734		1639	1638	1761	3495	16.2	53.3	4.4	26.1	-38.1	90	1265	1347	**4760**

Inlet Lab Data

Date		H2	CO (%)	CO (ppm)	CO2	O2	N2	CH4
8/29/2012		9.6	0.18	1,800	46	5	24	14
9/25/2012		10	0.19	1,900	47	5.3	24	13
11/1/2012		10	0.2	2,000	46	5.7	26	10
12/4/2012		**10**	**0.21**	2100	**46**	**5.7**	**26**	**11**

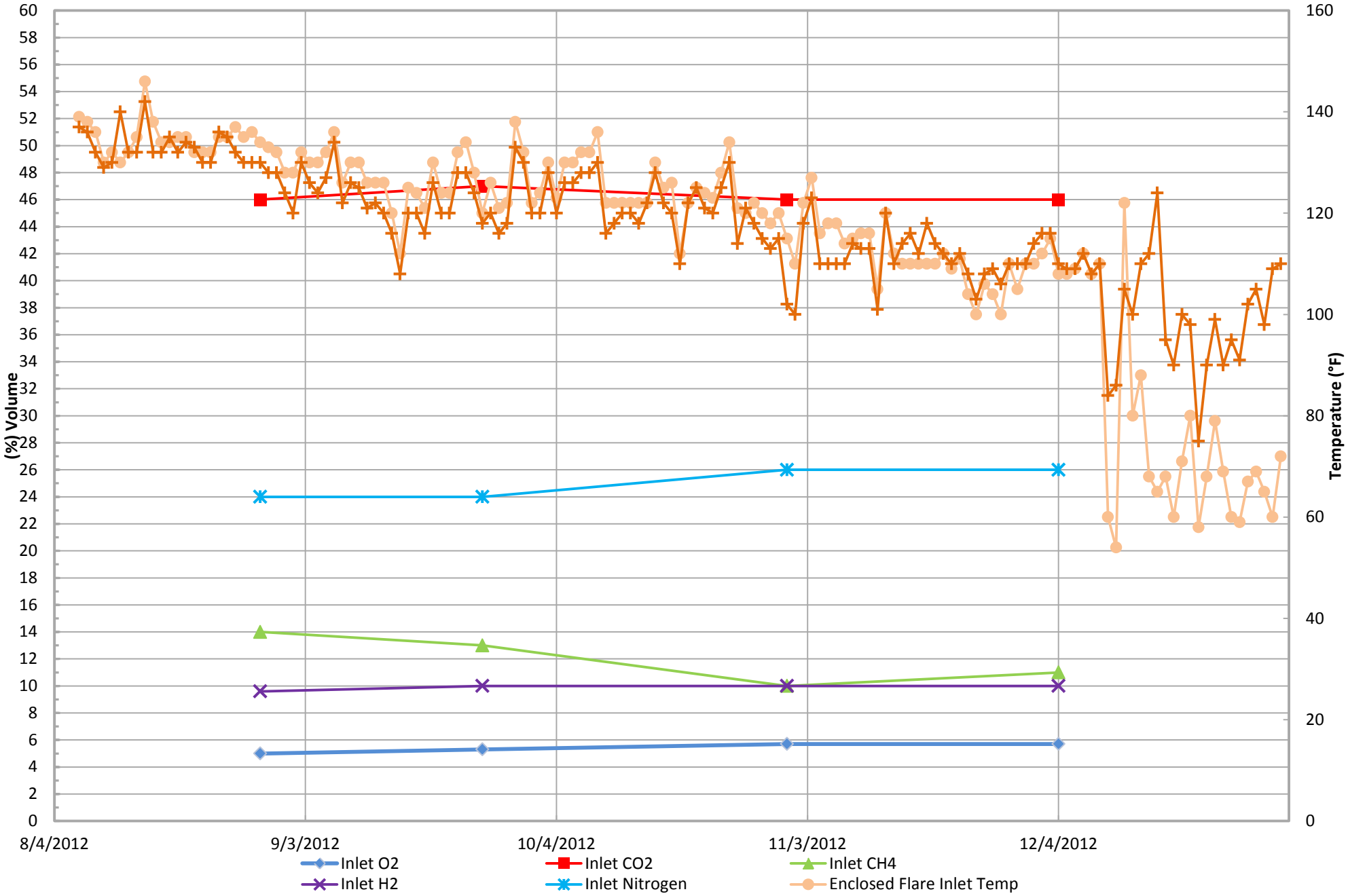
Daily Flare Monitoring Data - Bridgeton Landfill
8/7/2012 - 12/31/2012

Date	Device Flow (scfm)			Total Flow (scfm)
	Enclosed Flare	Callidus Flare	Calndlestick Flare	
8/7/2012	3,822	-	1,867	**5,689**
8/8/2012	3,916	-	1,886	**5,802**
8/9/2012	3,718	-	1,885	**5,603**
8/10/2012	3,782	-	1,897	**5,679**
8/11/2012	3,597	-	1,886	**5,483**
8/12/2012	3,000	-	1,770	**4,770**
8/13/2012	3,670	-	1,790	**5,460**
8/14/2012	3,850	-	1,800	**5,650**
8/15/2012	3,452	-	1,771	**5,223**
8/16/2012	4,094	-	1,766	**5,860**
8/17/2012	3,964	-	1,738	**5,702**
8/18/2012	3,896	-	1,791	**5,687**
8/19/2012	3,680	-	1,753	**5,433**
8/20/2012	3,750	-	1,731	**5,481**
8/21/2012	3,819	-	1,773	**5,592**
8/22/2012	3,647	-	1,835	**5,482**
8/23/2012	3,854	-	1,869	**5,723**
8/24/2012	4,022	-	1,976	**5,998**
8/25/2012	3,955	-	1,967	**5,922**
8/26/2012	3,925	-	2,009	**5,934**
8/27/2012	3,911	-	1,960	**5,871**
8/28/2012	3,997	-	1,993	**5,990**
8/29/2012	3,901	-	2,208	**6,109**
8/30/2012	3,902	-	2,192	**6,094**
8/31/2012	4,074	-	2,169	**6,243**
9/1/2012	4,051	-	2,209	**6,260**
9/2/2012	3,984	-	2,159	**6,143**
9/3/2012	4,150	-	2,144	**6,294**
9/4/2012	4,092	-	2,156	**6,248**
9/5/2012	3,975	-	2,174	**6,149**
9/6/2012	4,178	-	2,144	**6,322**
9/7/2012	4,357	-	2,170	**6,527**
9/8/2012	3,951	-	2,192	**6,143**
9/9/2012	4,135	-	2,178	**6,313**
9/10/2012	4,142	-	2,154	**6,296**
9/11/2012	3,999	-	2,203	**6,202**
9/12/2012	4,156	-	2,175	**6,331**
9/13/2012	3,639	-	2,199	**5,838**
9/14/2012	3,653	-	2,194	**5,847**
9/15/2012	4,650	-	2,093	**6,743**
9/16/2012	4,107	-	1,980	**6,087**
9/17/2012	4,450	-	1,934	**6,384**
9/18/2012	4,596	-	2,003	**6,599**
9/19/2012	4,435	-	1,902	**6,337**
9/20/2012	4,634	-	1,859	**6,493**
9/21/2012	4,003	-	2,139	**6,142**
9/22/2012	3,776	-	2,133	**5,909**
9/23/2012	3,572	-	2,167	**5,739**

Date	Device Flow (scfm)			Total Flow (scfm)
	Enclosed Flare	Callidus Flare	Calndlestick Flare	
9/24/2012	4,786	-	1,316	**6,102**
9/25/2012	4,751	-	2,217	**6,968**
9/26/2012	4,453	-	2,158	**6,611**
9/27/2012	4,305	-	2,194	**6,499**
9/28/2012	2,918	-	2,314	**5,232**
9/29/2012	4,200	-	2,306	**6,506**
9/30/2012	3,860	-	2,313	**6,173**
10/1/2012	4,503	-	2,212	**6,715**
10/2/2012	3,973	-	2,242	**6,215**
10/3/2012	3,707	3,476	1,930	**9,113**
10/4/2012	2,611	2,741	1,890	**7,242**
10/5/2012	2,740	2,932	1,836	**7,508**
10/6/2012	2,525	3,046	1,729	**7,300**
10/7/2012	2,835	3,324	1,719	**7,878**
10/8/2012	2,342	3,386	1,625	**7,353**
10/9/2012	2,110	3,309	1,715	**7,134**
10/10/2012	2,364	1,963	1,516	**5,843**
10/11/2012	2,895	2,052	1,397	**6,344**
10/12/2012	3,101	2,246	1,324	**6,671**
10/13/2012	2,827	2,185	1,856	**6,868**
10/14/2012	2,239	1,800	2,102	**6,141**
10/15/2012	2,670	1,930	1,975	**6,575**
10/16/2012	2,900	1,940	2,040	**6,880**
10/17/2012	2,930	2,288	1,885	**7,103**
10/18/2012	1,668	1,489	1,892	**5,049**
10/19/2012	2,145	1,650	1,855	**5,650**
10/20/2012	3,160	1,800	1,785	**6,745**
10/21/2012	1,400	1,760	1,990	**5,150**
10/22/2012	1,804	1,225	1,337	**4,366**
10/23/2012	2,947	2,565	1,436	**6,948**
10/24/2012	1,960	1,725	1,310	**4,995**
10/25/2012	3,106	2,631	1,623	**7,360**
10/26/2012	2,701	2,411	1,334	**6,446**
10/27/2012	2,200	2,200	1,645	**6,045**
10/28/2012	2,197	2,250	1,472	**5,919**
10/29/2012	2,250	2,650	1,270	**6,170**
10/30/2012	2,372	2,820	1,460	**6,652**
10/31/2012	2,339	2,195	1,261	**5,795**
11/1/2012	2,400	2,145	1,071	**5,616**
11/2/2012	2,500	2,120	1,050	**5,670**
11/3/2012	2,862	1,971	988	**5,821**
11/4/2012	2,659	2,297	1,188	**6,144**
11/5/2012	2,209	2,168	1,147	**5,524**
11/6/2012	2,230	2,375	1,040	**5,645**
11/7/2012	2,230	2,260	1,200	**5,690**
11/8/2012	2,723	2,075	1,456	**6,254**
11/9/2012	2,724	2,084	1,547	**6,355**
11/10/2012	2,824	1,991	1,732	**6,547**
11/11/2012	3,084	1,852	1,483	**6,419**
11/12/2012	2,370	1,880	1,484	**5,734**
11/13/2012	2,195	2,288	1,601	**6,084**
11/14/2012	2,197	1,860	1,526	**5,583**

Date	Device Flow (scfm)			Total Flow (scfm)
	Enclosed Flare	Callidus Flare	Calndlestick Flare	
11/15/2012	2,155	2,018	1,576	**5,749**
11/16/2012	1,955	1,932	1,669	**5,556**
11/17/2012	2,013	1,925	1,735	**5,673**
11/18/2012	2,065	1,900	1,747	**5,712**
11/19/2012	2,088	1,920	1,705	**5,713**
11/20/2012	2,281	1,945	1,701	**5,927**
11/21/2012	2,500	2,020	1,685	**6,205**
11/22/2012	2,229	2,022	1,762	**6,013**
11/23/2012	1,950	1,951	1,655	**5,556**
11/24/2012	2,017	2,046	1,512	**5,575**
11/25/2012	2,088	1,900	1,312	**5,300**
11/26/2012	1,851	1,766	1,289	**4,906**
11/27/2012	3,858	-	1,134	**4,992**
11/28/2012	1,834	1,840	1,185	**4,859**
11/29/2012	2,371	1,819	1,153	**5,343**
11/30/2012	2,442	1,818	1,240	**5,500**
12/1/2012	2,507	1,863	1,307	**5,677**
12/2/2012	2,616	1,849	1,323	**5,788**
12/3/2012	2,588	1,839	1,409	**5,836**
12/4/2012	2,156	1,980	1,478	**5,614**
12/5/2012	2,015	2,026	1,425	**5,466**
12/6/2012	2,829	1,964	1,118	**5,911**
12/7/2012	2,980	1,900	1,230	**6,110**
12/8/2012	3,000	1,700	1,220	**5,920**
12/9/2012	3,300	1,760	1,075	**6,135**
12/10/2012	2,429	1,670	1,308	**5,407**
12/11/2012	1,786	1,701	1,289	**4,776**
12/12/2012	3,546	1,933	1,440	**6,919**
12/13/2012	1,974	2,089	1,644	**5,707**
12/14/2012	2,217	1,417	1,620	**5,254**
12/15/2012	1,846	2,079	1,607	**5,532**
12/16/2012	1,980	1,882	1,451	**5,313**
12/17/2012	1,743	2,054	1,612	**5,409**
12/18/2012	1,871	1,642	1,597	**5,110**
12/19/2012	1,975	1,860	1,782	**5,617**
12/20/2012	2,177	1,817	1,602	**5,596**
12/21/2012	2,021	1,844	1,551	**5,416**
12/22/2012	2,066	1,850	1,550	**5,466**
12/23/2012	2,037	1,774	1,969	**5,780**
12/24/2012	1,822	1,750	2,059	**5,631**
12/25/2012	1,709	1,805	1,895	**5,409**
12/26/2012	1,481	1,882	1,956	**5,319**
12/27/2012	1,946	1,784	1,662	**5,392**
12/28/2012	1,873	1,891	1,543	**5,307**
12/29/2012	2,031	1,804	1,664	**5,499**
12/30/2012	2,114	1,839	1,523	**5,476**
12/31/2012	2,296	1,909	1,442	**5,647**

Graph 1. Inlet Gas and Temperature*



*Gas data collected from Laboratory Reports. Temperature data

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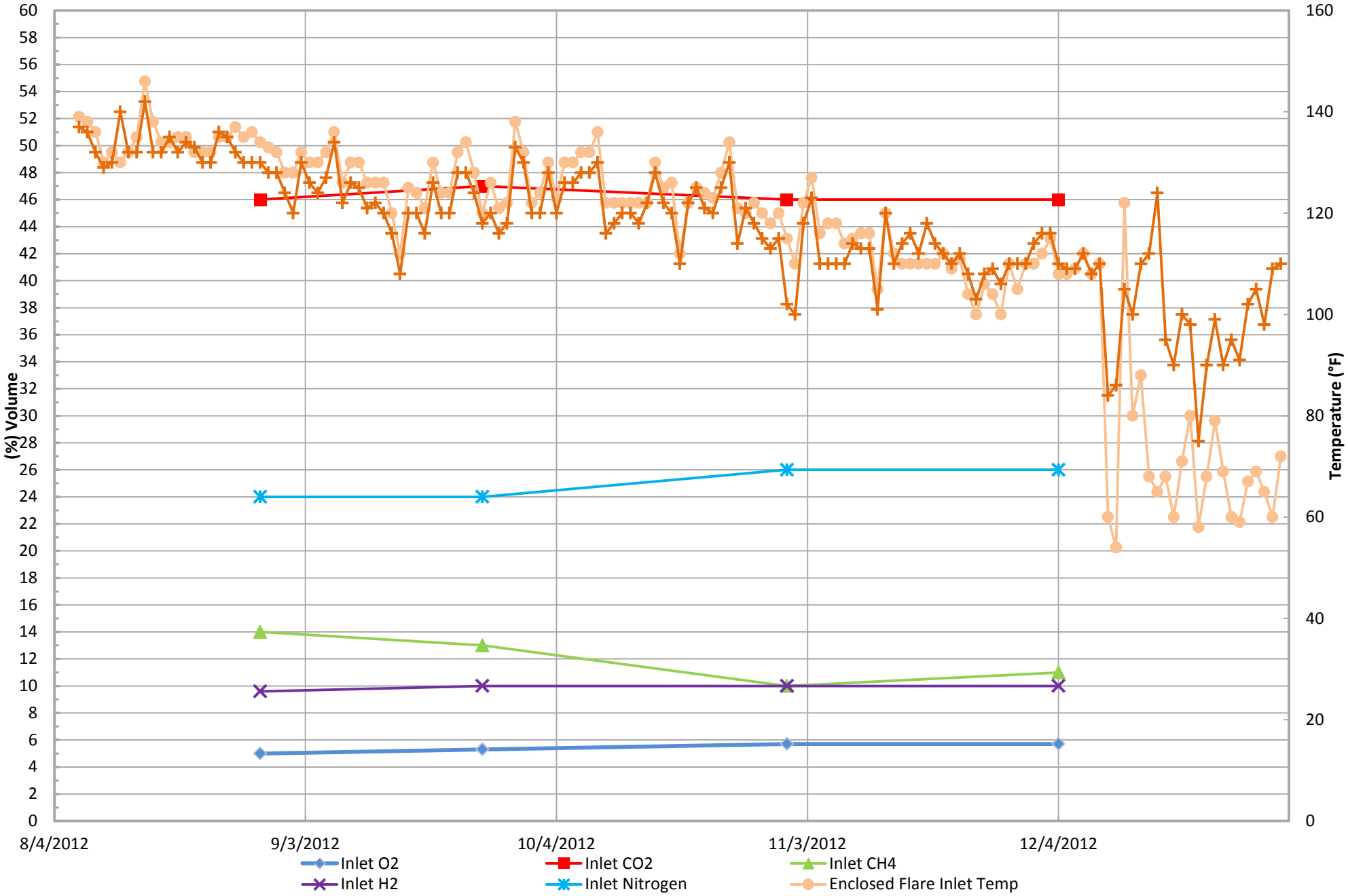
Graph 1. Inlet Gas and Temperature*



*Gas data collected from Laboratory Reports. Temperature data

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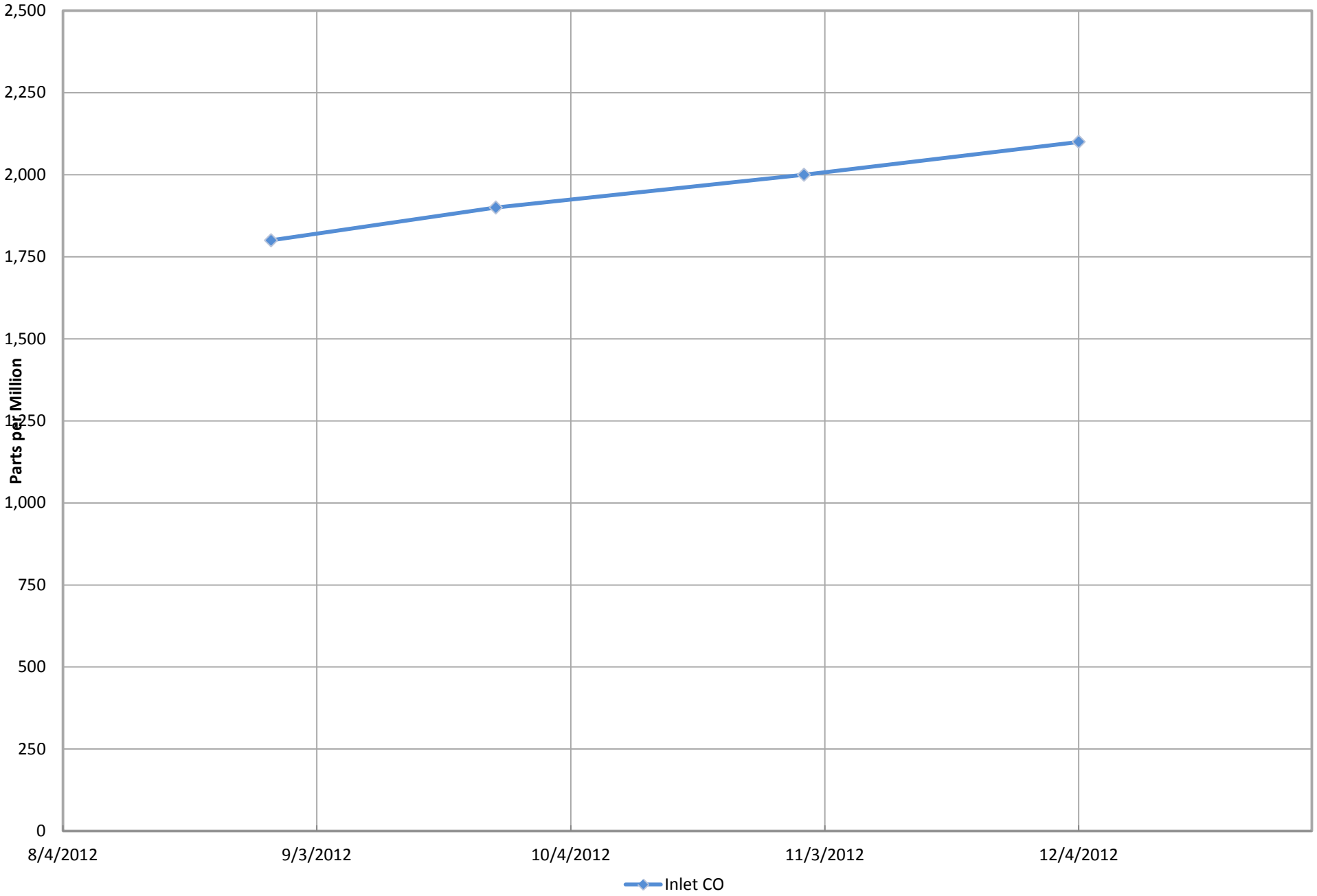
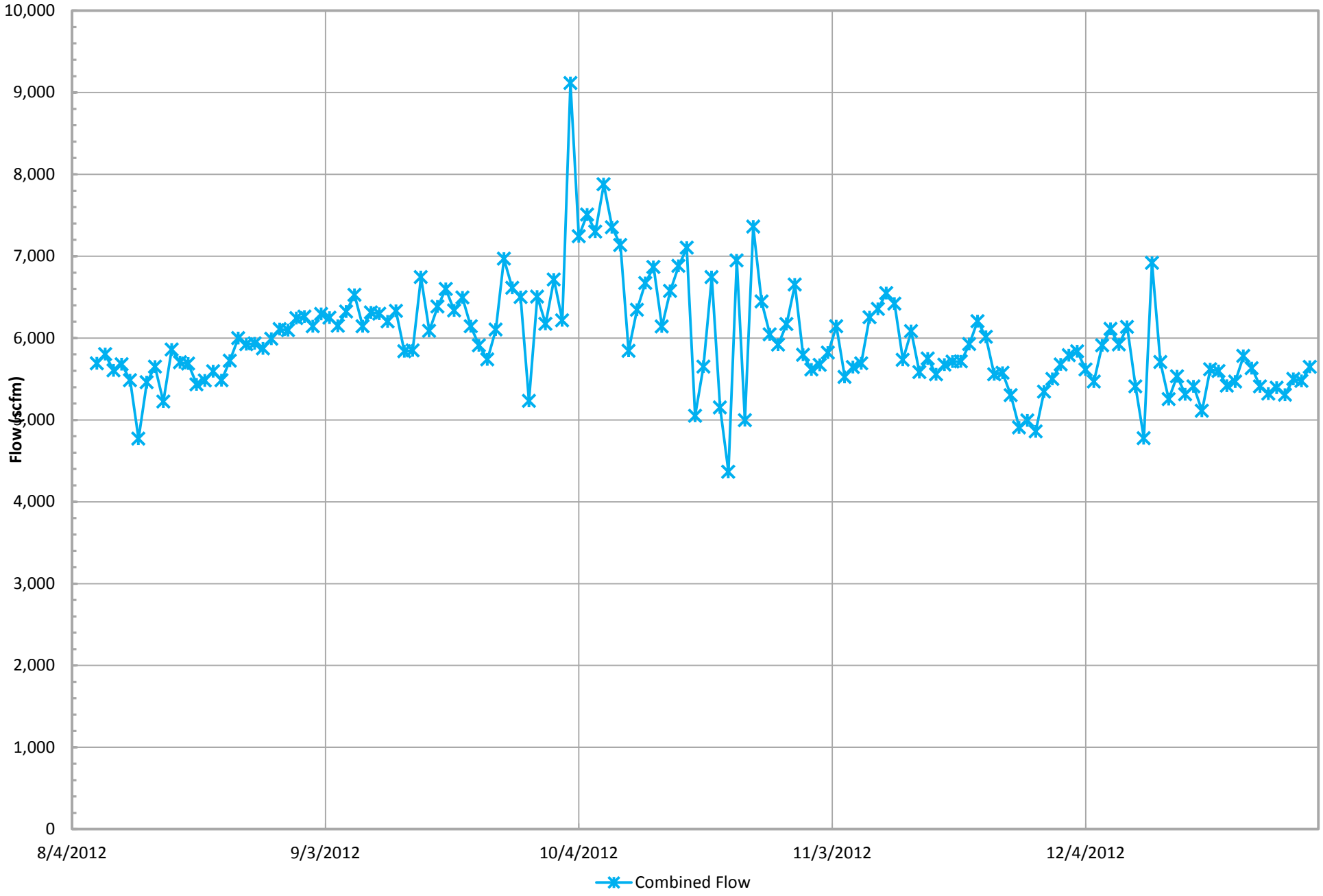
Graph 2. Inlet Carbon Monoxide*



*Data collected from

SCS ENGINEERS

Graph 3. Total Combined Flow (scfm)*



*Combined flow is based on tabulated flow data

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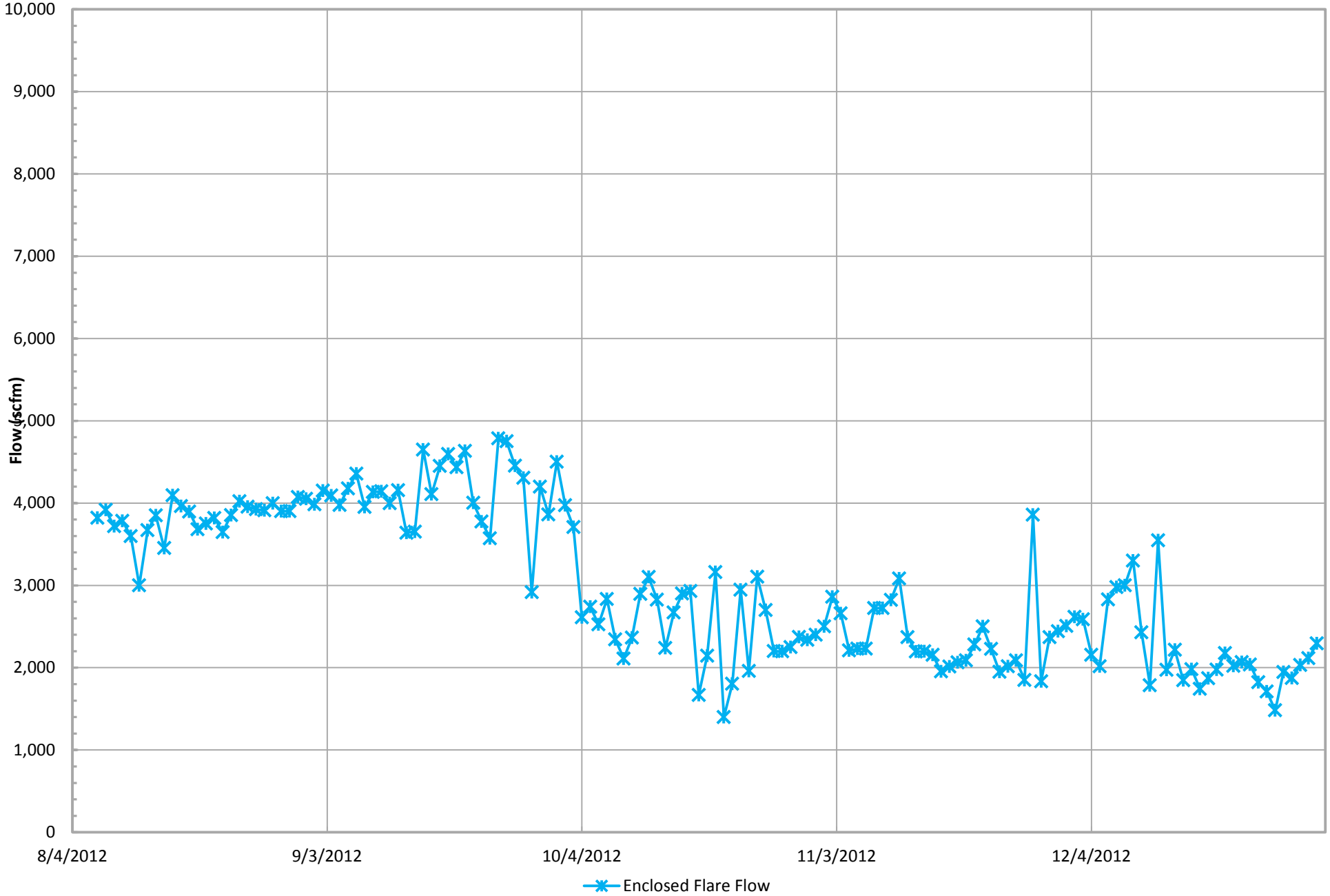
Graph 3a. Enclosed Flare Flow (scfm)*



*Flow is based on tabulated flow data collected

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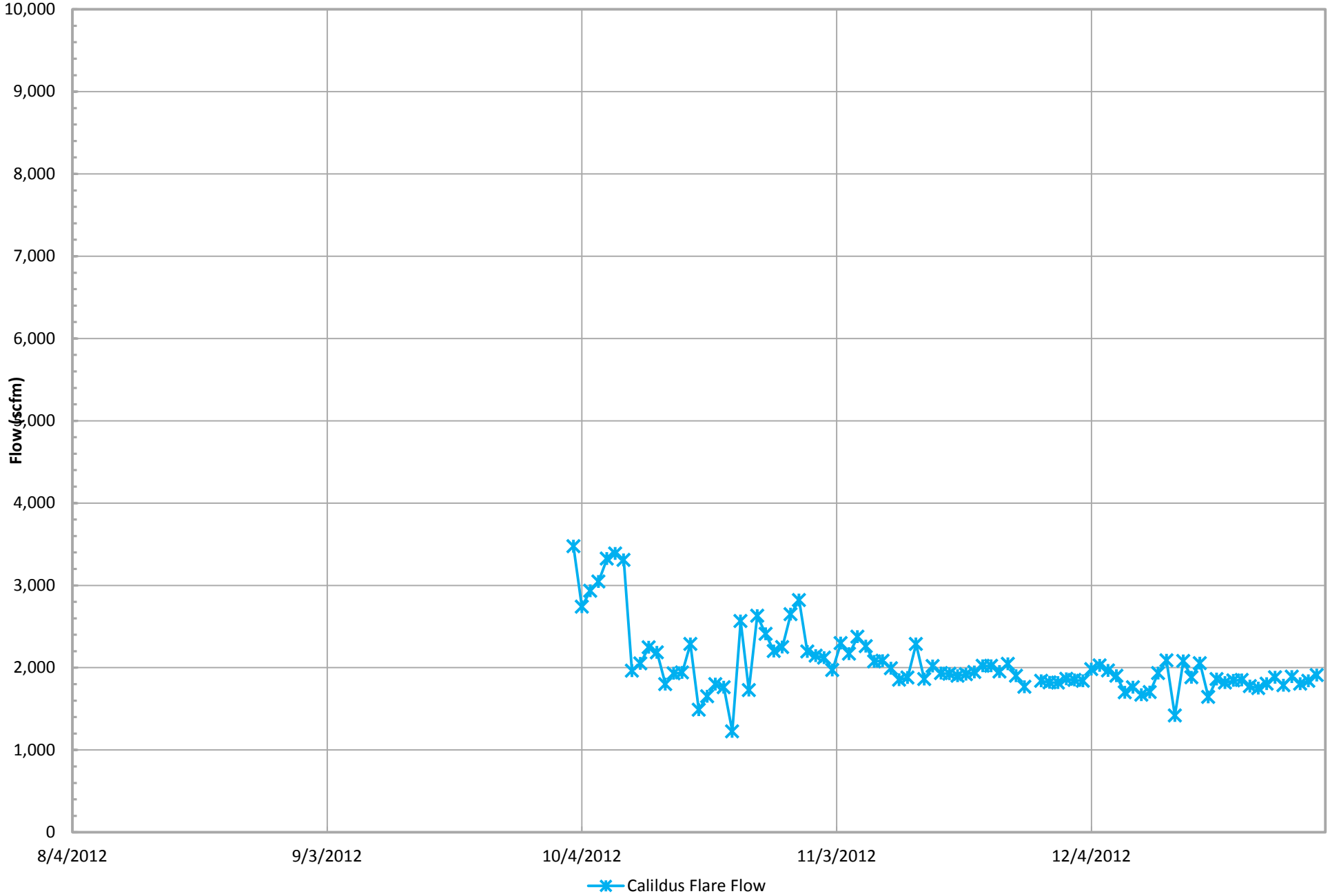
Graph 3b. Callidus Flare Flow (scfm)*



*Flow is based on tabulated flow data collected

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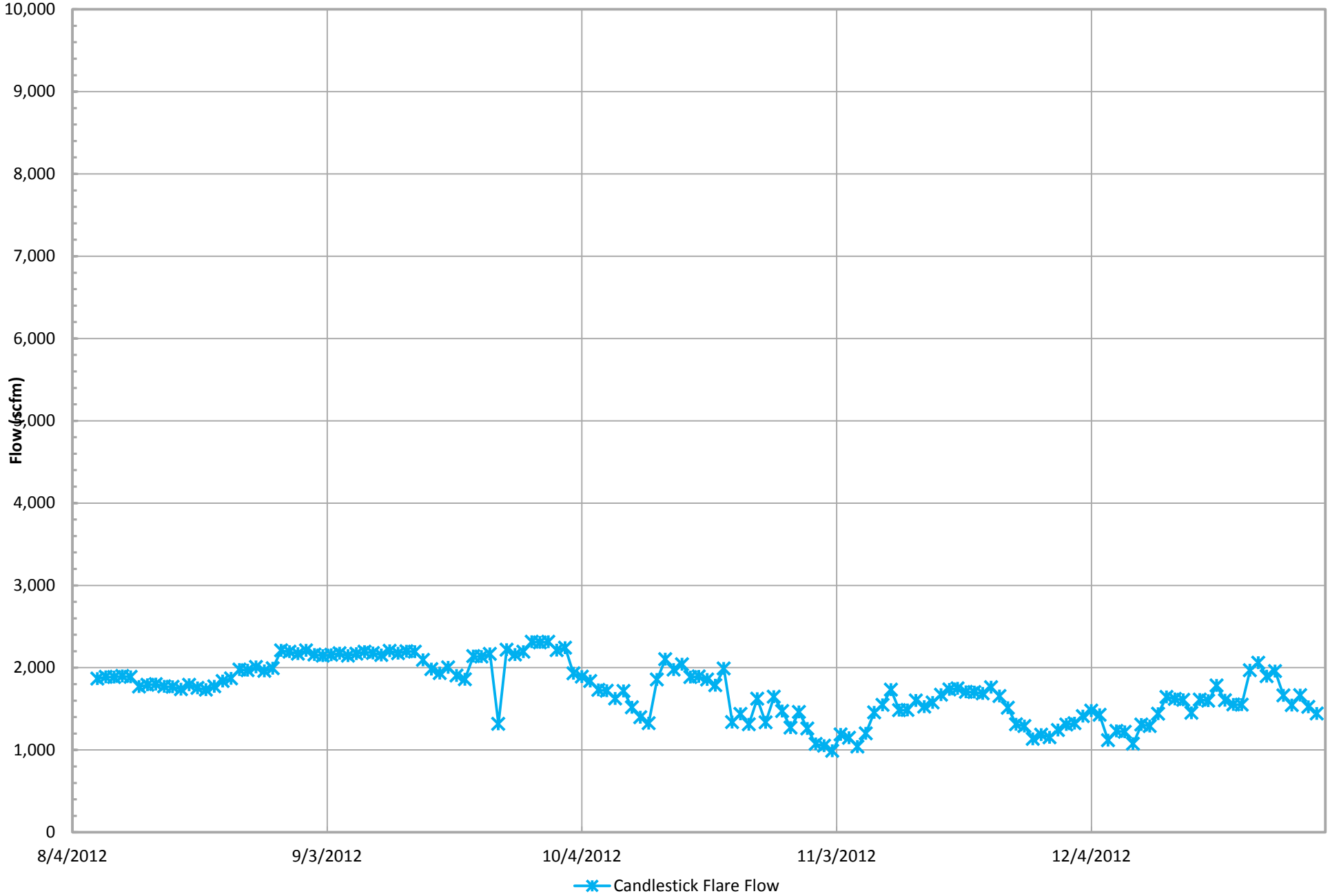
Graph 3c. Candlestick Flare Flow (scfm)*



*Flow is based on tabulated flow data collected

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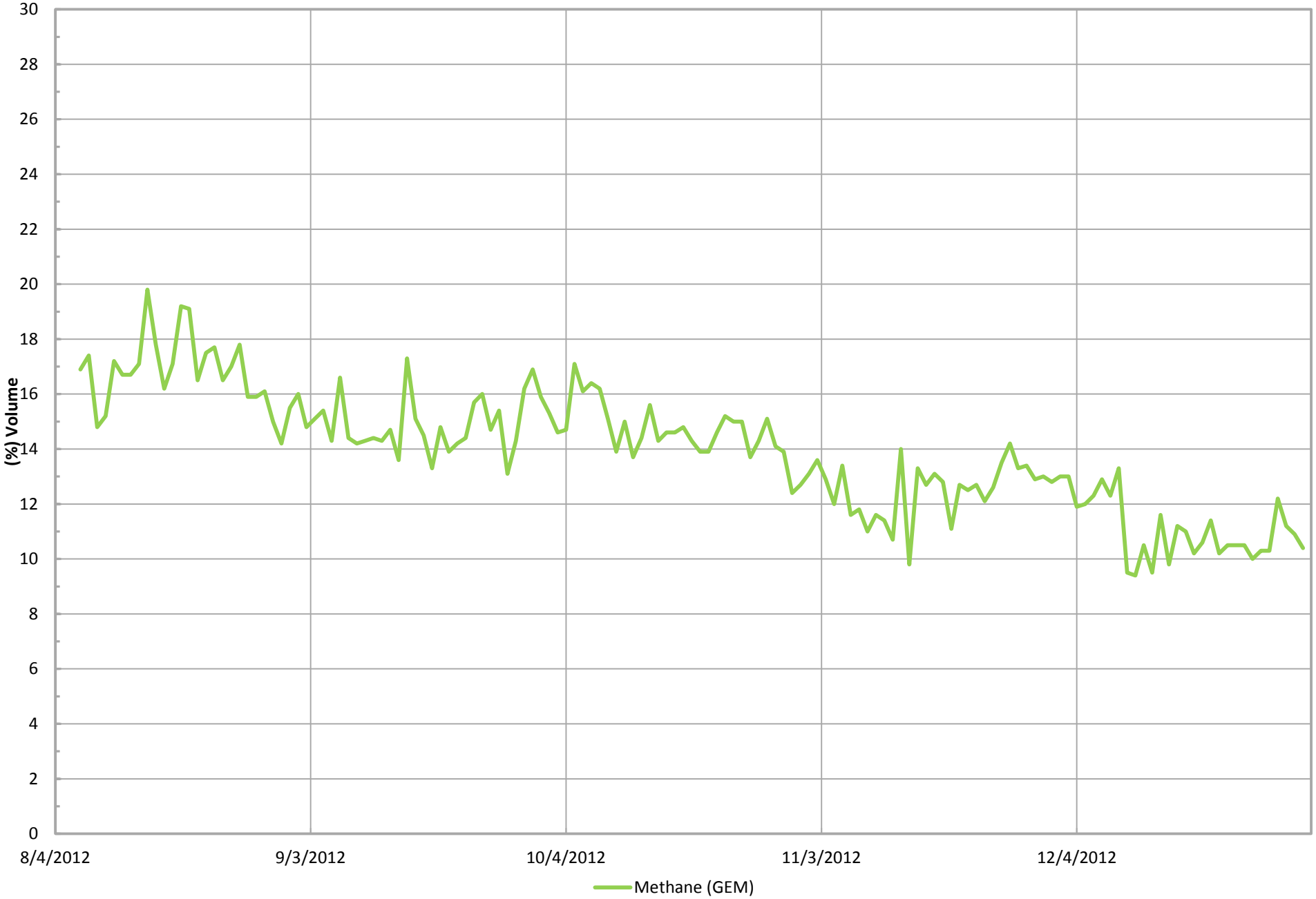
Graph 4. Enclosed Flare Methane (GEM 2000)*



*Gas data collected form GEM 2000

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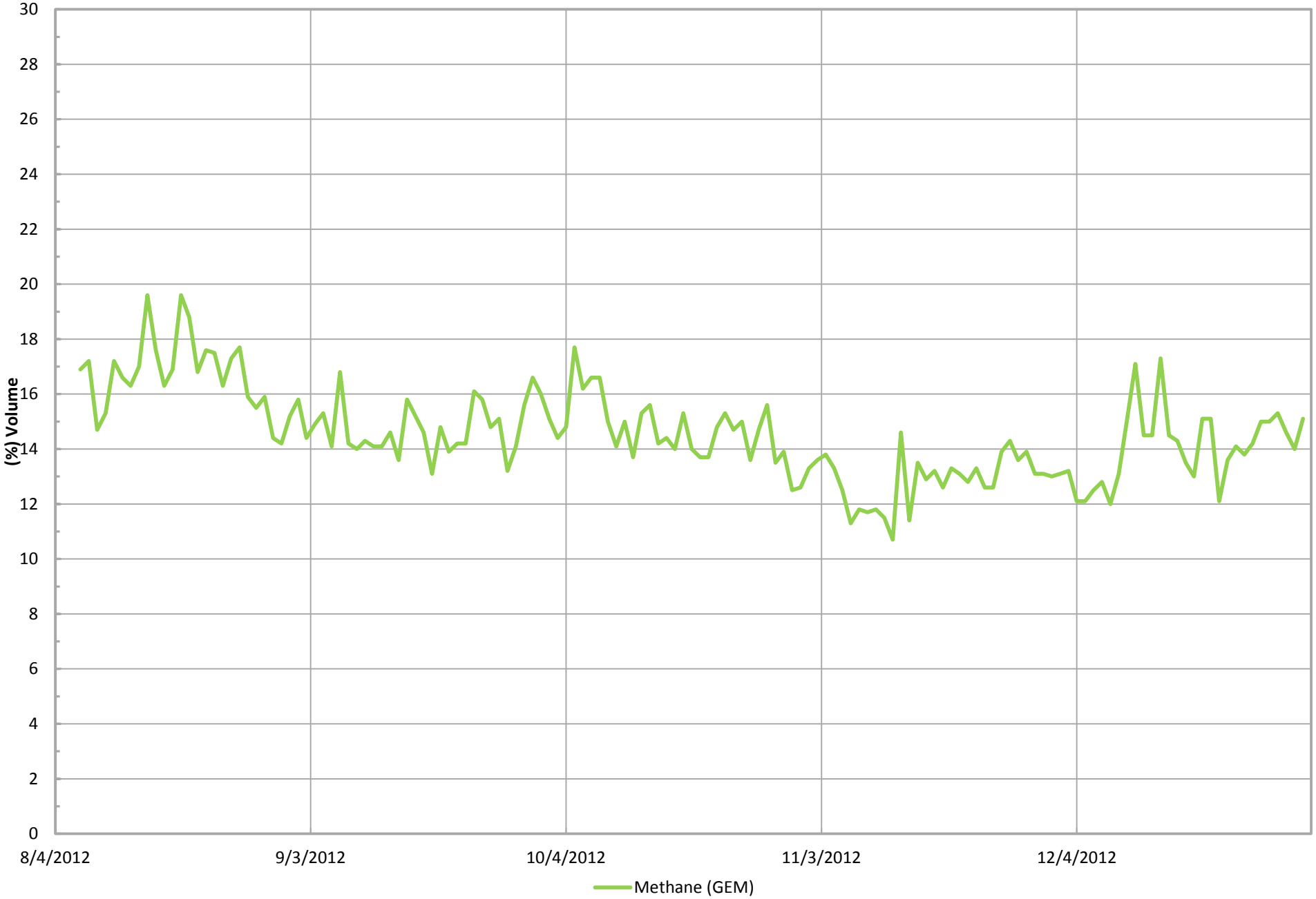
Graph 5. Candlestick Methane (GEM 2000)*



*Gas data collected form GEM 2000

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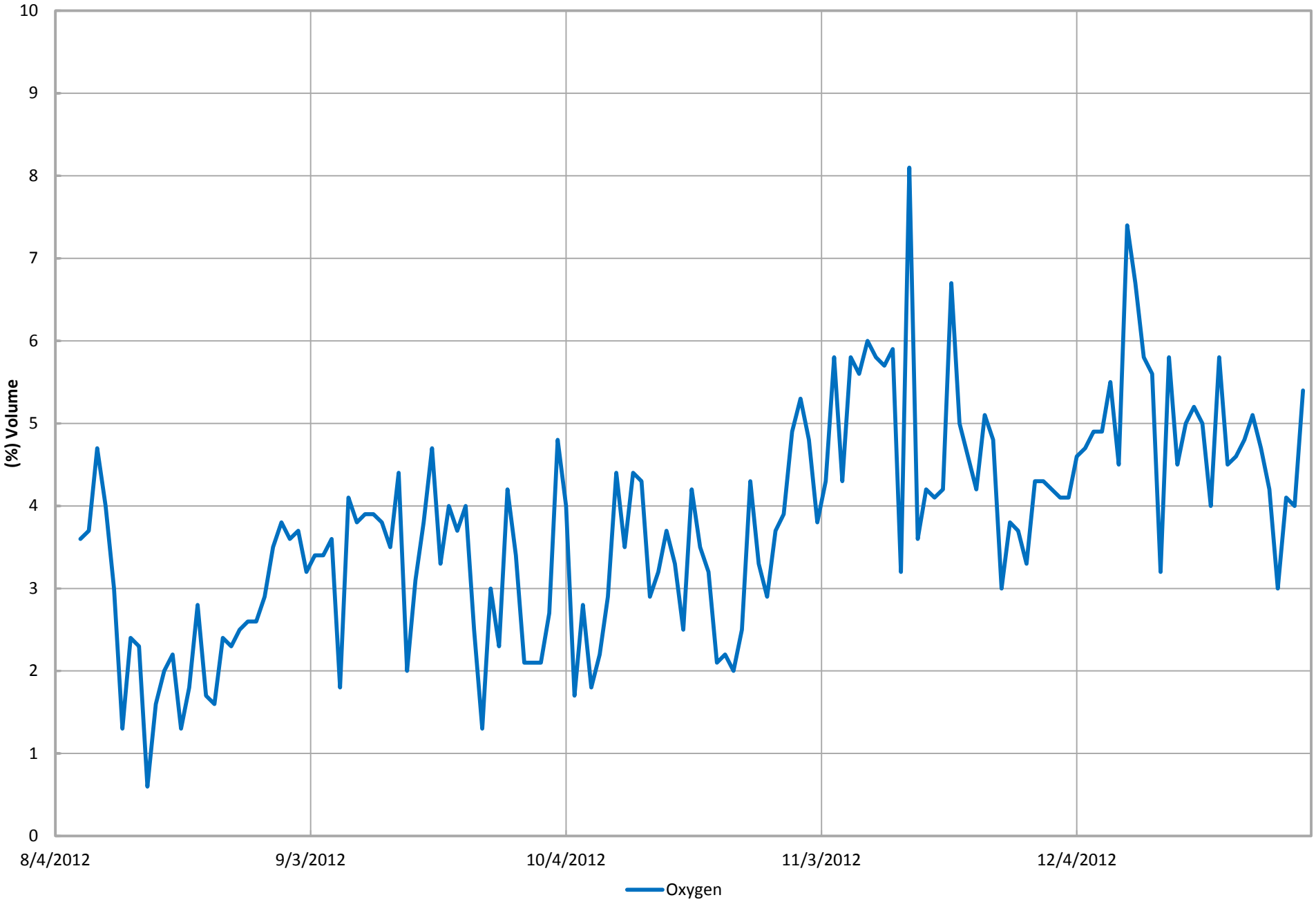
Graph 6. Enclosed Flare Oxygen (GEM 2000)*



*Gas data collected form GEM 2000

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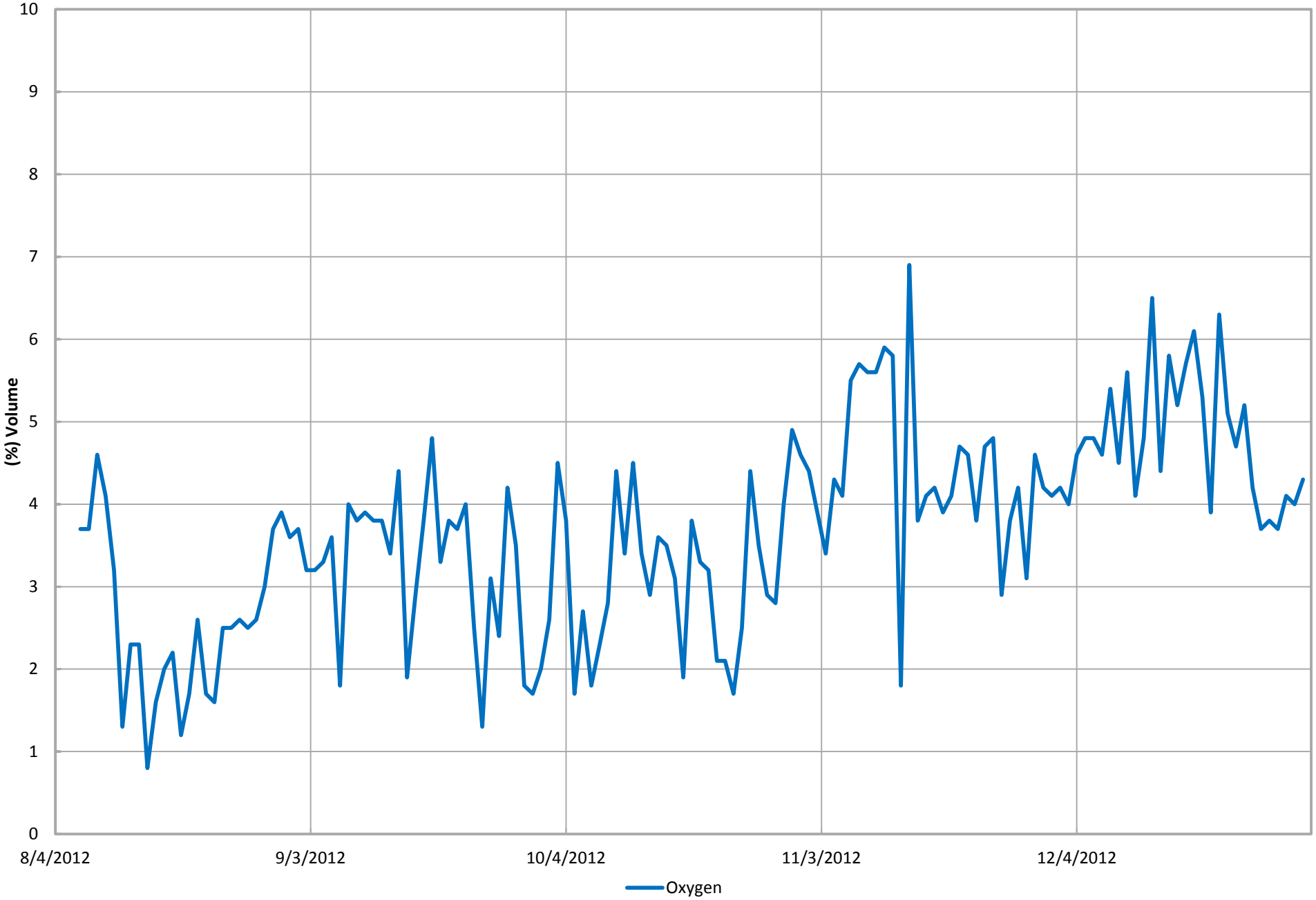
Graph 7. Candlestick Oxygen (GEM 2000)*



*Gas data collected form GEM 2000

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TMP-9 Temperature Readings

TMP-9 485.3882

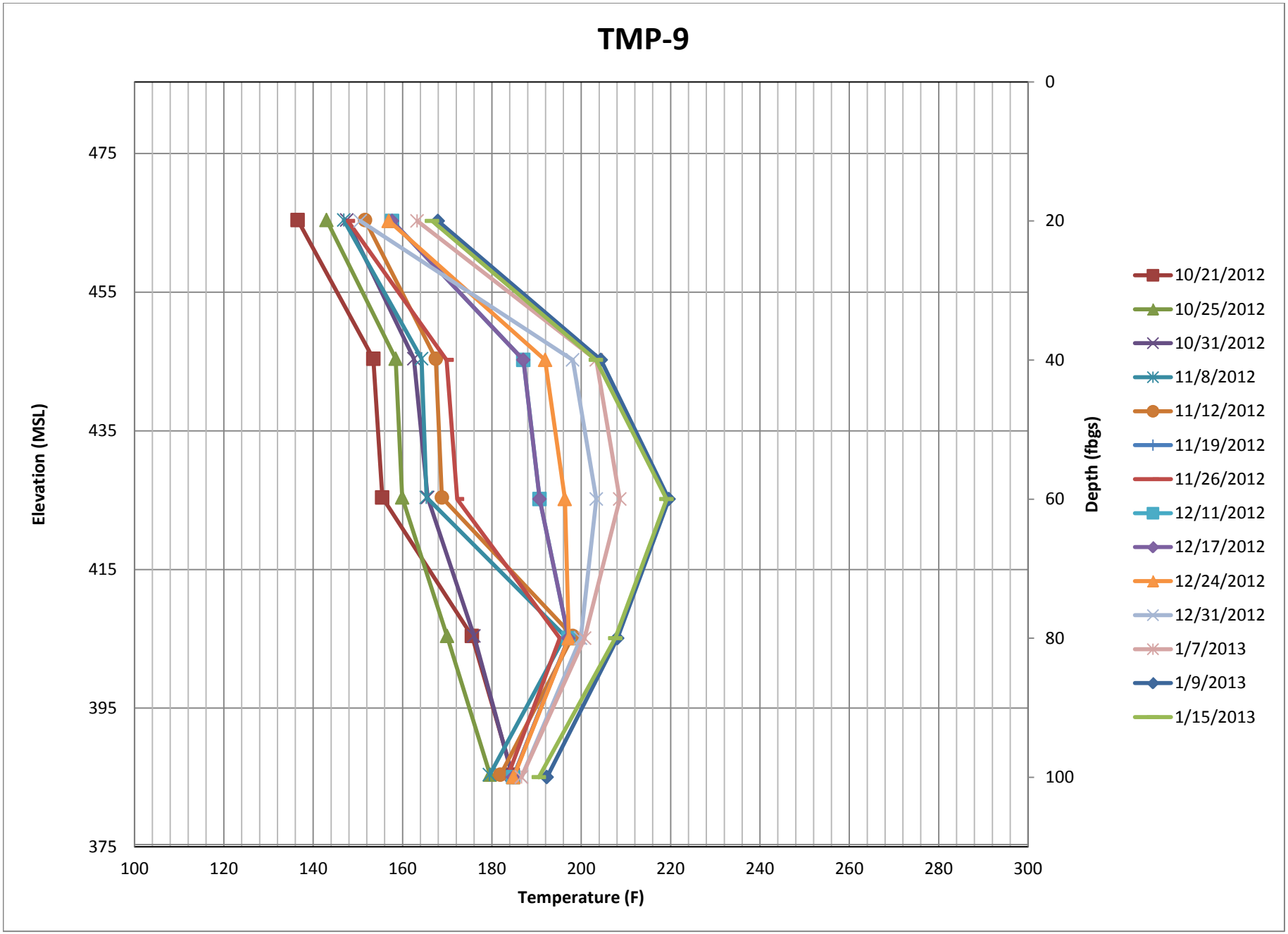
Depth Below Ground Surface (ft)	Elevation (ft)	10/21/2012	10/25/2012	10/31/2012	11/8/2012	11/12/2012	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
20	465.3882	136.524	142.994	147.501	146.858	151.626	152.358	147.777	157.649	157.649	156.921	150.527	163.280	167.9	166.6
40	445.3882	153.454	158.468	162.555	164.277	167.441	169.516	169.876	187.054	187.054	191.930	198.108	203.380	204.4	203.3
60	425.3882	155.463	159.923	165.634	165.362	168.794	171.227	172.217	190.691	190.691	196.346	203.380	208.629	219.6	219.1
80	405.3882	175.540	169.966	175.988	196.346	198.108	198.108	195.200	197.140	197.140	197.228	199.868	200.747	208.1	207.6
100	385.3882	184.653	179.569	184.475	179.479	181.890	184.119	183.406	184.742	184.742	184.831	186.610	186.610	192.3	190.5

lrock elevation (msl)

35.3882	0
35.3882	300

ground surface

0	0
0	300


TMP-9
Elevation (MSL)
475
455
435
415
395
375
Depth (fbgs)
0
20
40
60
80
100
Temperature (F)
100
120
140
160
180
200
220
240
260
280
300
10/21/2012
10/25/2012
10/31/2012
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-9 Temperature Readings

TMP-8 520.281

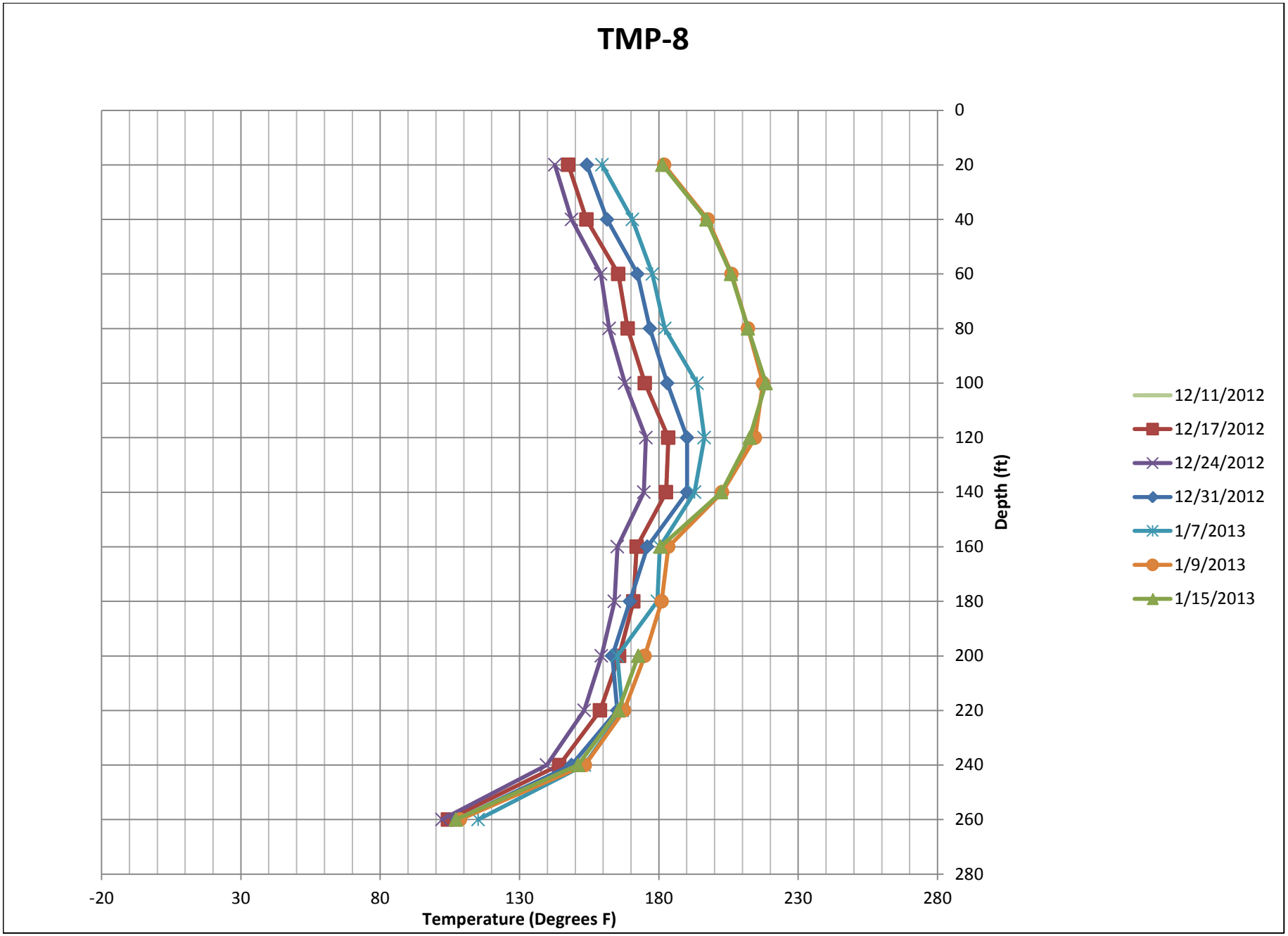
Depth Below Ground Surface (ft)	Elevation (ft)	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
20	500.281	147.501	147.501	142.718	154.185	159.651	181.9	181.3
40	480.281	154.002	154.002	148.697	161.467	170.507	197.6	197.1
60	460.281	165.453	165.453	159.153	172.307	177.690	206.1	205.9
80	440.281	168.794	168.794	162.187	176.794	182.158	212	212
100	420.281	175.001	175.001	167.803	183.050	193.698	217.4	218.4
120	400.281	183.406	183.406	175.366	190.159	196.346	214.5	212.6
140	380.281	182.604	182.604	174.646	190.159	192.815	202.7	202.4
160	360.281	172.037	172.037	165.124	175.898	180.373	183.4	180.6
180	340.281	170.867	170.867	164.066	169.606	179.479	181	
200	320.281	165.724	165.724	159.400	163.280	165.091	174.9	172.6
220	300.281	158.923	158.923	153.202	165.091	166.899	167.5	165.5
240	280.281	144.283	144.283	139.748	148.694	153.272	153.5	151
260	260.281	104.297	104.297	102.197	107.626	115.201	108.6	107.2

lrock elevation (msl)

70.281	0
70.281	300

ground surface

0	0
0	300


TMP-8
Depth (ft)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
-20
30
80
130
180
230
280
Temperature (Degrees F)
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-9 Temperature Readings

TMP-7R 503.738

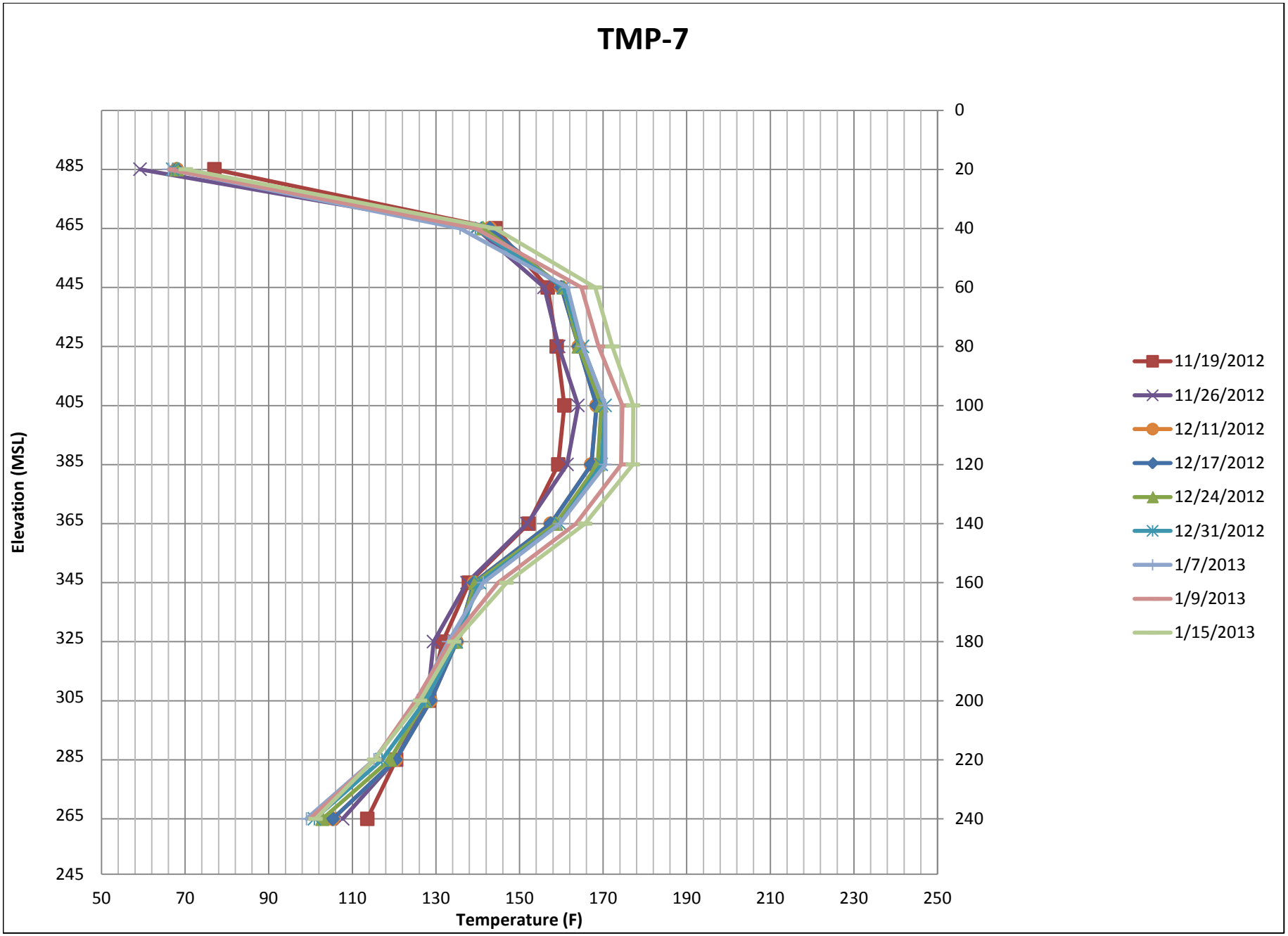
Depth Below Ground Surface (ft)	Elevation (ft)	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
20	483.738	77.031	59.264	68.032	68.032	68.032	67.050	66.067	66.2	70.2
40	463.738	144.283	139.671	142.901	142.901	141.333	139.486	135.782	139.5	144.1
60	443.738	156.739	155.919	160.014	160.014	160.559	160.559	161.467	164.8	168.1
80	423.738	158.923	159.378	164.186	164.186	164.186	165.091	165.091	168.9	172.2
100	403.738	160.741	164.005	168.434	168.434	169.606	170.507	170.507	174.6	177.2
120	383.738	159.287	161.376	167.170	167.170	168.704	169.606	170.507	174.3	177.1
140	363.738	152.175	151.809	157.467	157.467	158.741	159.651	159.651	163.5	165.7
160	343.738	137.913	137.450	139.116	139.116	139.486	140.410	141.333	144.9	146.9
180	323.738	131.602	129.459	134.947	134.947	134.854	134.854	132.997	133.5	134.4
200	303.738	128.340	127.966	128.713	128.713	127.406	127.406	125.537	125.1	126.2
220	283.738	120.474	120.286	120.380	120.380	118.970	117.087	115.201	115.3	115.2
240	263.738	113.595	107.721	105.345	105.345	102.868	100.959	99.047	99.8	101.2

lrock elevation (msl)

53.738	0
53.738	300

ground surface

503.738	0
503.738	300


TMP-7
Elevation (MSL)
485
465
445
425
405
385
365
345
325
305
285
265
245
0
20
40
60
80
100
120
140
160
180
200
220
240
50
70
90
110
130
150
170
190
210
230
250
Temperature (F)
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-6 Temperature Readings

TMP-6 487.1828

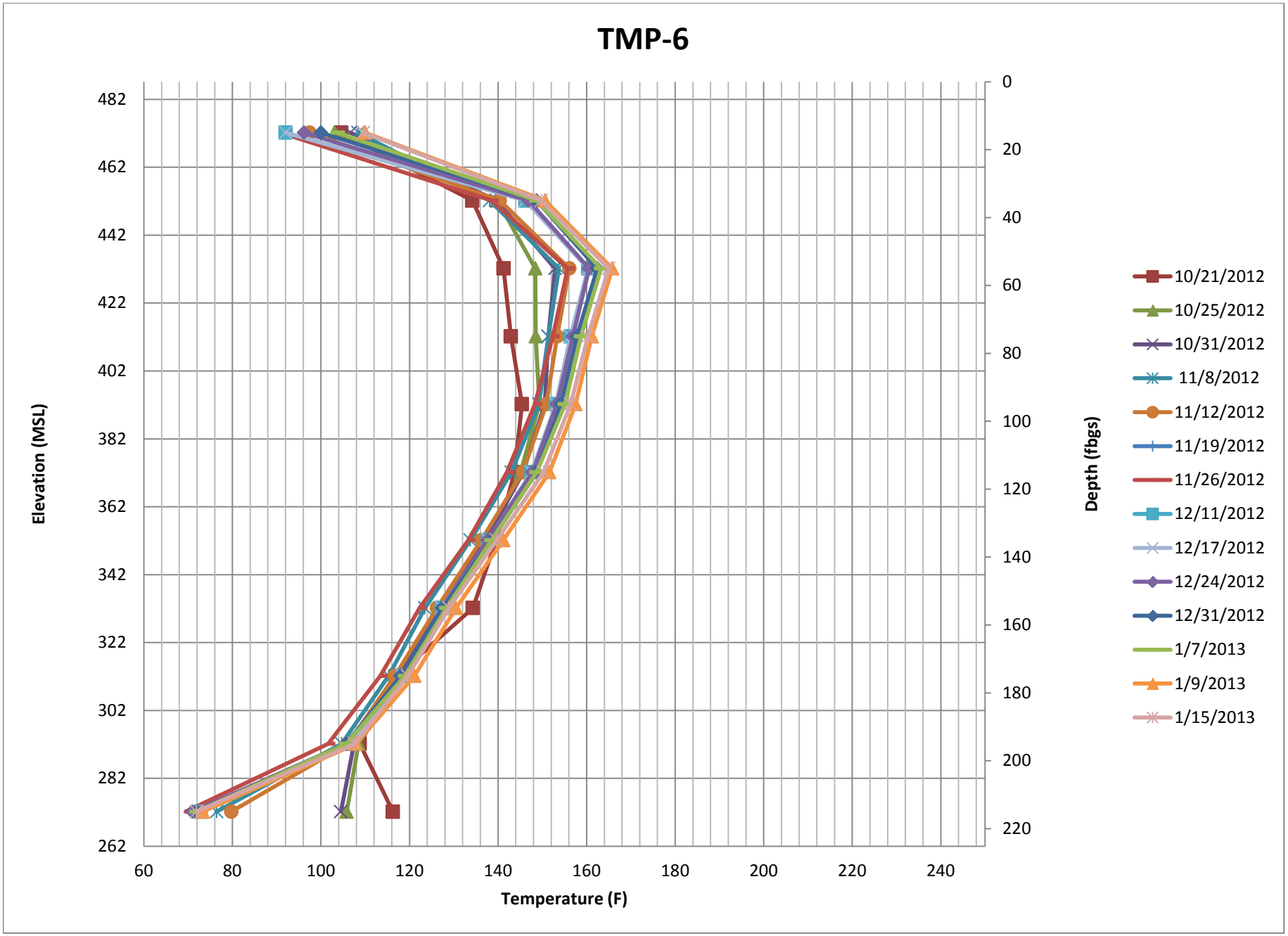
Depth Below Ground Surface (ft)	Elevation (ft)	10/21/2012	10/25/2012	10/31/2012	11/8/2012	11/12/2012	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
15	472.1828	104.583	103.058	106.676	108.386	97.419	97.706	90.886	92.042	92.042	96.173	100.003	103.821	110	109.6
35	452.1828	134.205	139.856	139.671	138.098	140.410	143.454	138.561	146.215	146.215	146.858	148.694	148.694	150.6	149.8
55	432.1828	141.241	148.419	152.906	153.728	156.101	160.014	155.736	160.377	160.377	160.559	162.374	163.280	165.8	165
75	412.1828	142.901	148.511	151.351	151.351	153.363	156.465	152.358	156.374	156.374	156.921	157.832	158.741	161.2	160.3
95	392.1828	145.388	149.336	150.527	149.245	150.894	153.911	148.327	153.089	153.089	153.272	154.185	155.098	157.5	156.4
115	372.1828	143.731	145.112	145.663	142.994	145.571	148.236	141.979	147.593	147.593	147.777	148.694	148.694	151.6	150.3
135	352.1828	139.578	137.358	137.265	133.740	136.246	138.746	133.276	137.728	137.728	137.635	138.561	138.561	141.2	139.7
155	332.1828	134.297	128.900	126.846	123.477	126.191	128.433	122.258	127.313	127.313	127.406	127.406	128.340	130.5	128.9
175	312.1828	117.087	117.652	117.275	115.295	116.710	118.876	113.406	118.405	118.405	118.029	118.029	118.970	121.1	119.6
195	292.1828	108.766	108.481	107.436	104.678	106.106	108.196	101.627	106.866	106.866	105.725	105.725	105.725	107.9	107.6
215	272.1828	116.238	105.820	104.488	76.446	79.756	78.686	69.406	72.833	72.833	70.974	71.952	71.952	73.3	71.9

drock elevation (msl)

37.1828	0
37.1828	300

ground surface

0	0
0	300


TMP-6
Elevation (MSL)
482
462
442
422
402
382
362
342
322
302
282
262
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
60
80
100
120
140
160
180
200
220
240
Temperature (F)
10/21/2012
10/25/2012
10/31/2012
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-9 Temperature Readings

TMP-5 503.059

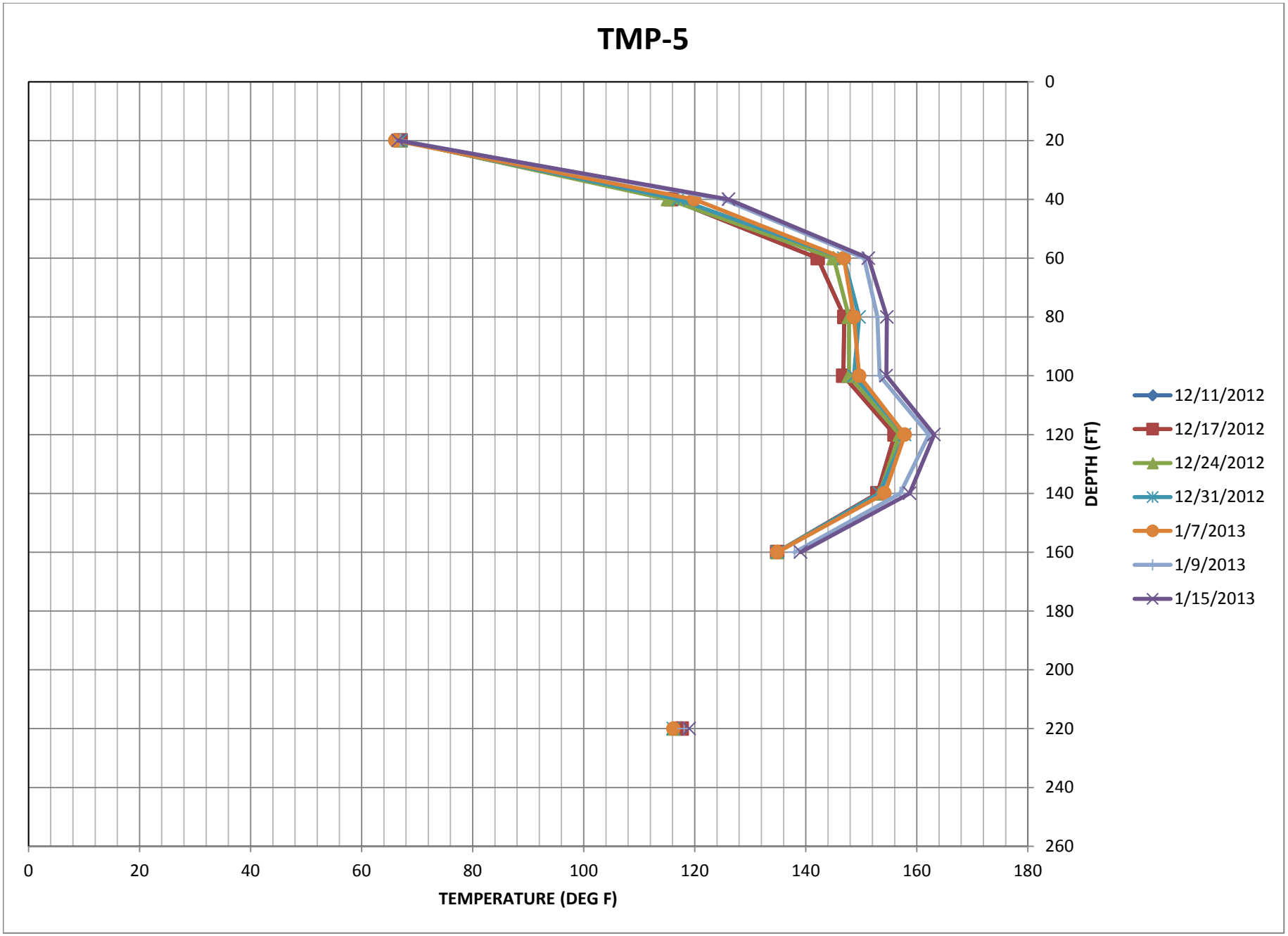
Depth Below Ground Surface (ft)	Elevation (ft)	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
20	483.059	67.050	67.050	67.050	67.050	66.067	67	66.6
40	463.059	115.767	115.767	115.201	117.087	119.910	125.2	126.1
60	443.059	142.164	142.164	145.020	146.858	146.858	150.5	151.3
80	423.059	146.950	146.950	147.777	149.611	148.694	152.9	154.6
100	403.059	146.766	146.766	147.777	148.694	149.611	153.3	154.5
120	383.059	156.010	156.010	156.921	157.832	157.832	162.2	163.1
140	363.059	152.906	152.906	153.272	153.272	154.185	157	158.7
160	343.059	134.854	134.854	134.854	134.854	134.854	138	139.1
180	323.059							
200	303.059							
220	283.059	117.652	117.652	116.144	116.144	116.144	118.1	119
240	263.059							

lrock elevation (msl)

53.059	0
53.059	300

ground surface

0	0
0	300


TMP-5
DEPTH (FT)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
TEMPERATURE (DEG F)
0
20
40
60
80
100
120
140
160
180
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-4 501.5

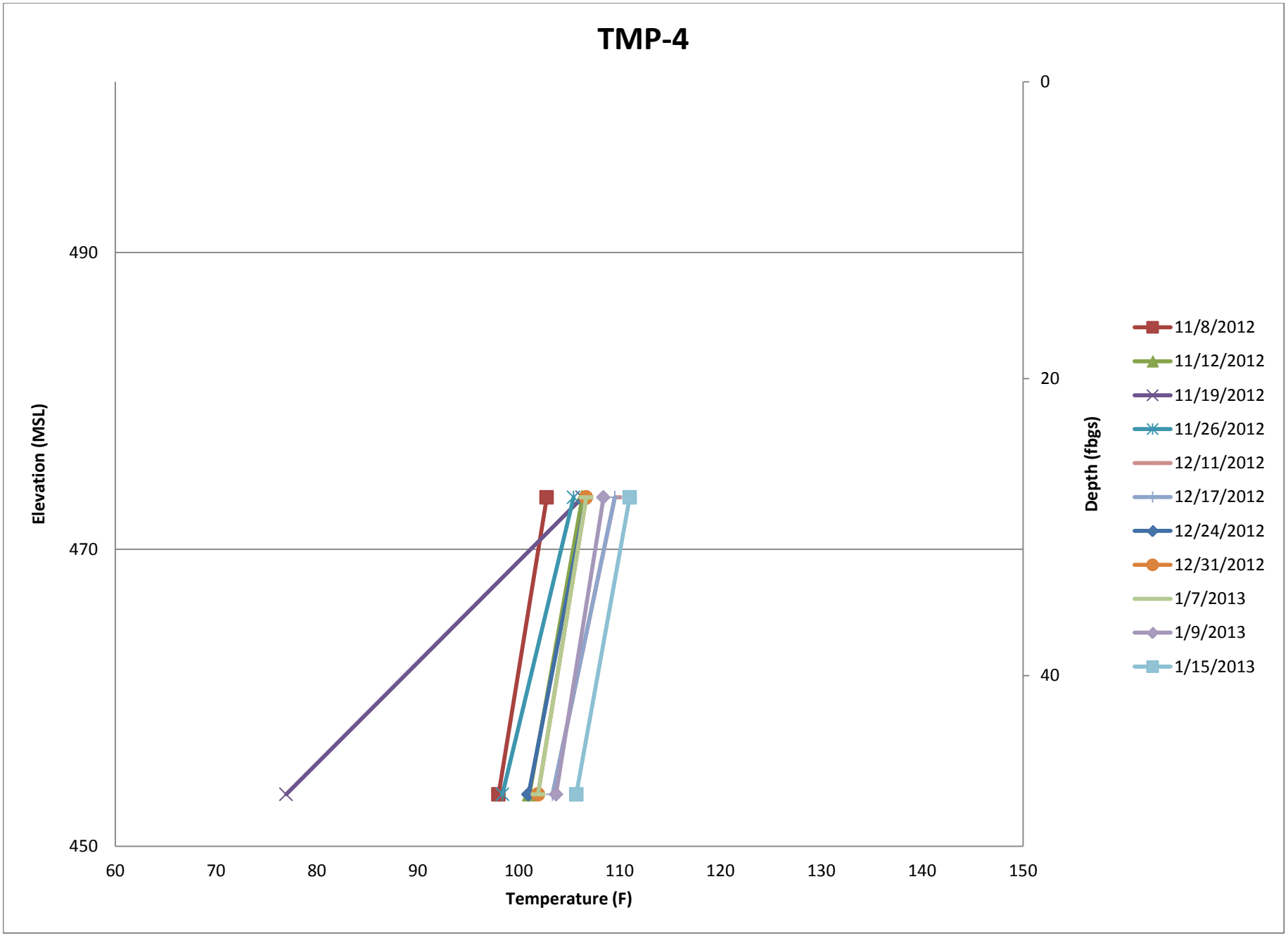
Depth Below Ground Surface (ft)	Elevation (ft)	11/8/2012	11/12/2012	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
28	473.5	102.772	106.296	106.296	105.440	109.525	109.525	106.676	106.676	106.676	108.4	111
48	453.5	97.994	101.054	76.933	98.377	103.344	103.344	100.959	101.913	101.913	103.7	105.7

lrock elevation (msl)

51.5	0
51.5	300

ground surface

0	0
0	300


TMP-4
Elevation (MSL)
490
470
450
Depth (fbgs)
0
20
40
60
70
80
90
100
110
120
130
140
150
Temperature (F)
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-3 499.025

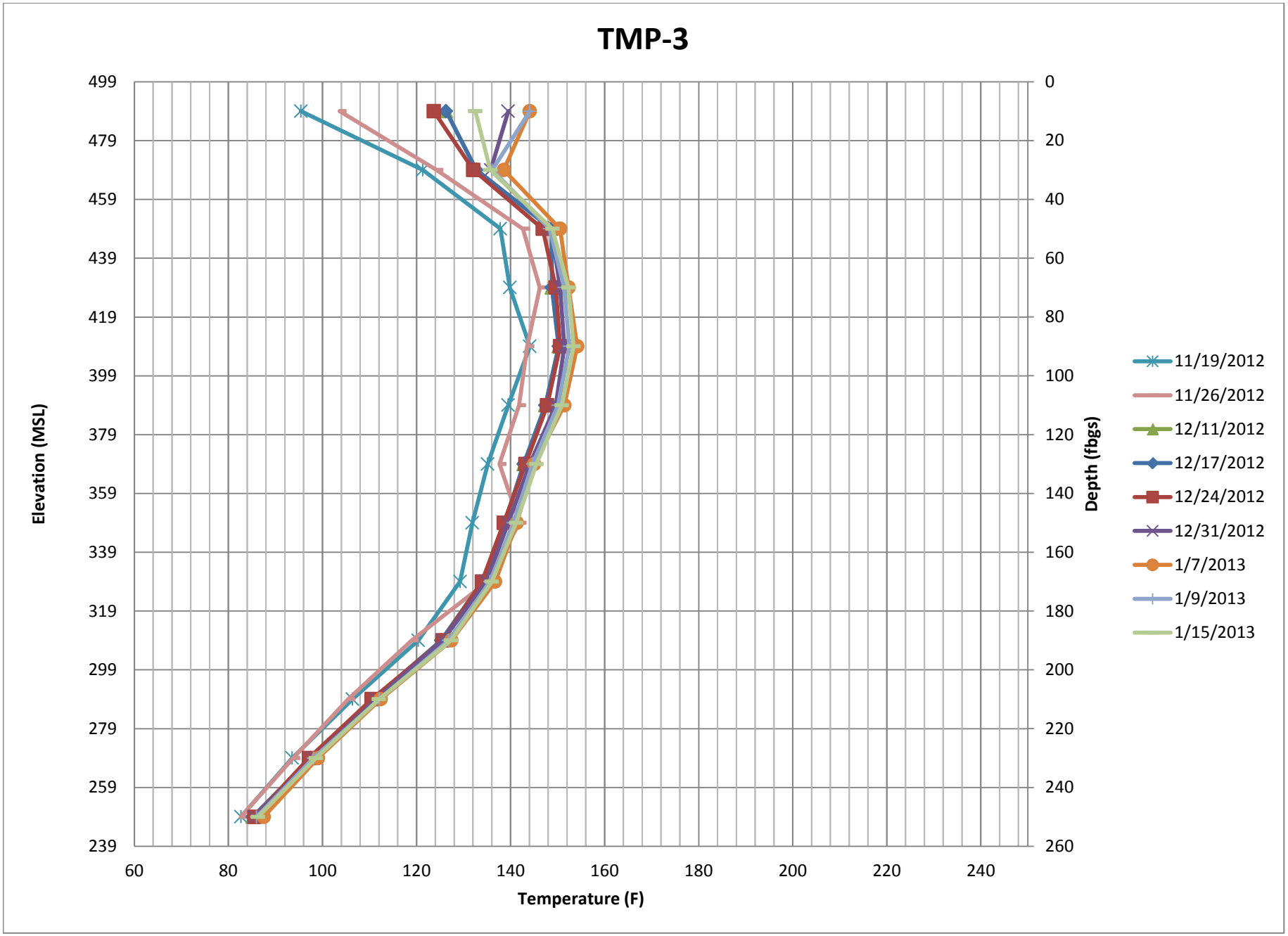
Depth Below Ground Surface (ft)	Elevation (ft)	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
10	489.025	95.41	103.63	126.28	126.28	123.66	139.49	144.10	144.1	132.5
30	469.025	121.32	124.23	132.72	132.72	132.07	135.78	138.56	136.1	135.7
50	449.025	137.82	142.62	148.69	148.69	146.86	148.69	150.53	148.3	148.9
70	429.025	139.86	146.22	148.79	148.79	149.61	150.53	152.36	151.4	152.3
90	409.025	144.10	143.55	150.25	150.25	150.53	151.44	154.19	152.5	153.4
110	389.025	139.49	141.79	147.41	147.41	147.78	149.61	151.44	150.1	150.9
130	369.025	135.13	137.64	142.81	142.81	143.18	144.10	145.02	144.7	145.5
150	349.025	131.88	141.89	138.75	138.75	138.56	139.49	141.33	140.6	141.2
170	329.025	129.27	135.04	134.02	134.02	133.93	134.85	136.71	135.6	136
190	309.025	120.38	118.97	125.26	125.26	125.54	125.54	127.41	126.8	127.3
210	289.025	106.39	105.44	110.85	110.85	110.47	111.42	112.37	112.1	112
230	269.025	93.58	93.77	97.51	97.51	97.13	98.09	99.05	98.1	98.6
250	249.025	82.67	82.67	85.19	85.19	85.58	85.58	87.51	86	86.3

lrock elevation (msl)

49.025	0
49.025	300

ground surface

0	0
0	300


TMP-3
Elevation (MSL)
499
479
459
439
419
399
379
359
339
319
299
279
259
239
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
Temperature (F)
60
80
100
120
140
160
180
200
220
240
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-2 491.567

Depth Below Ground Surface (ft)	Elevation (ft)	11/12/2012	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
0	491.567	82.48	85.67	81.41	77.81	77.81	81.70	79.76	81.70	77.5	78
20	471.567	108.39	116.71	117.56	118.12	118.12	119.91	122.73	124.60	122.7	120.3
40	451.567	136.52	142.99	140.41	145.39	145.39	147.78	148.69	149.61	152.3	152.2
60	431.567	152.91	159.83	157.38	160.56	160.56	161.47	162.37	163.28	165.0	163.7
80	411.567	153.36	160.01	161.29	163.73	163.73	165.09	165.09	166.00	168.3	167.7
100	391.567	153.91	159.29	155.92	160.74	160.74	161.47	162.37	163.28	165.2	164.5
120	371.567	150.34	154.37	154.46	155.65	155.65	156.01	156.92	157.83	159.5	158.7
140	351.567	145.66	159.47	147.59	149.79	149.79	150.53	150.53	151.44	153.3	146.8
160	331.567	132.72	141.89	133.00	140.87	140.87	140.41	140.41	142.26	144.0	142.9
180	311.567	127.03	128.90	121.69							
200	291.567	97.61	97.04	91.66	97.23	97.23	97.13	97.13	98.09	99.1	99

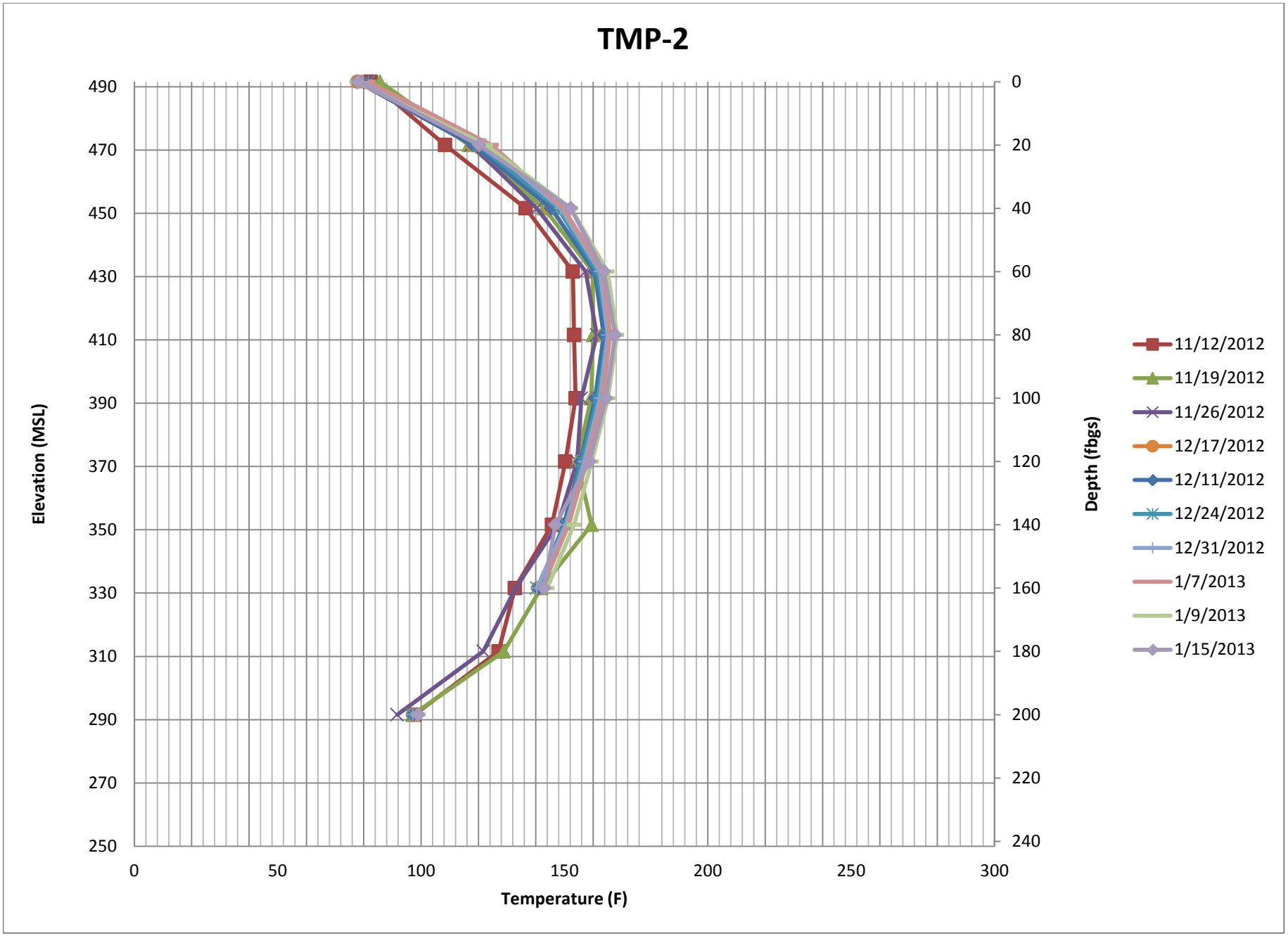
Erroneous data

lrock elevation (msl)

41.567	0
41.567	300

ground surface

0	0
0	300


TMP-2
Elevation (MSL)
490
470
450
430
410
390
370
350
330
310
290
270
250
Depth (fbgs)
0
20
40
60
80
100
120
140
160
180
200
220
240
0
50
100
150
200
250
300
Temperature (F)
11/12/2012
11/19/2012
11/26/2012
12/17/2012
12/11/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

TMP-1 472.22

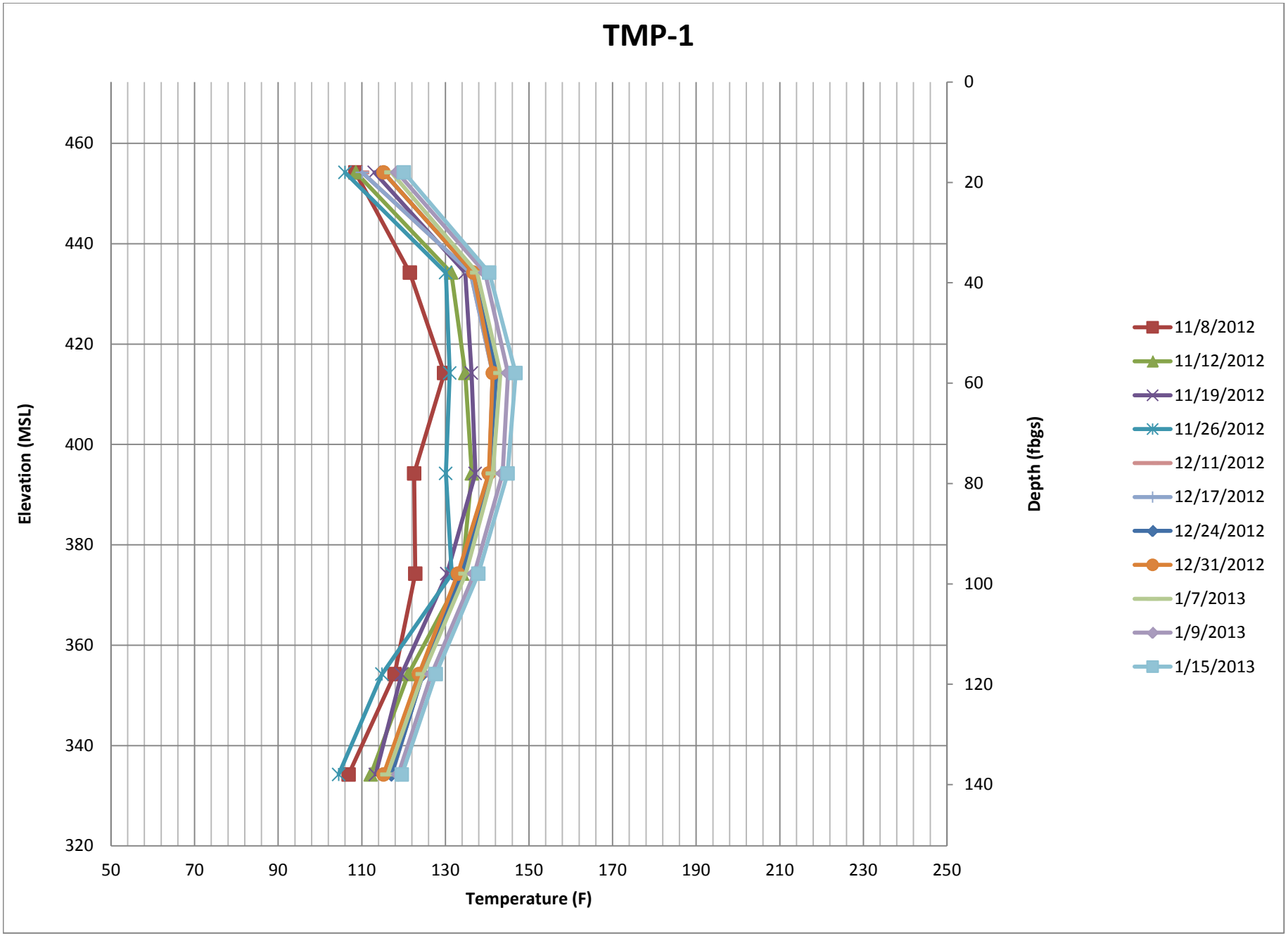
Depth Below Ground Surface (ft)	Elevation (ft)	11/8/2012	11/12/2012	11/19/2012	11/26/2012	12/11/2012	12/17/2012	12/24/2012	12/31/2012	1/7/2013	1/9/2013	1/15/2013
18	454.22	108.481	108.576	113.028	106.011	110.093	110.093	115.201	115.201	117.087	118.5	120.1
38	434.22	121.507	131.415	134.762	130.112	136.060	136.060	136.709	136.709	137.635	139.5	140.5
58	414.22	129.739	134.762	136.246	131.043	141.333	141.333	142.256	141.333	143.178	145	146.8
78	394.22	122.539	136.339	137.172	130.112	140.502	140.502	140.410	140.410	141.333	143.7	144.9
98	374.22	122.821	134.019	130.391	131.509	134.019	134.019	133.926	132.997	134.854	136.9	137.9
118	354.22	117.840	121.132	119.534	114.823	124.507	124.507	124.601	123.664	124.601	126.7	127.7
138	334.22	106.866	112.177	113.312	104.488	117.181	117.181	117.087	115.201	116.144	118.7	119.6

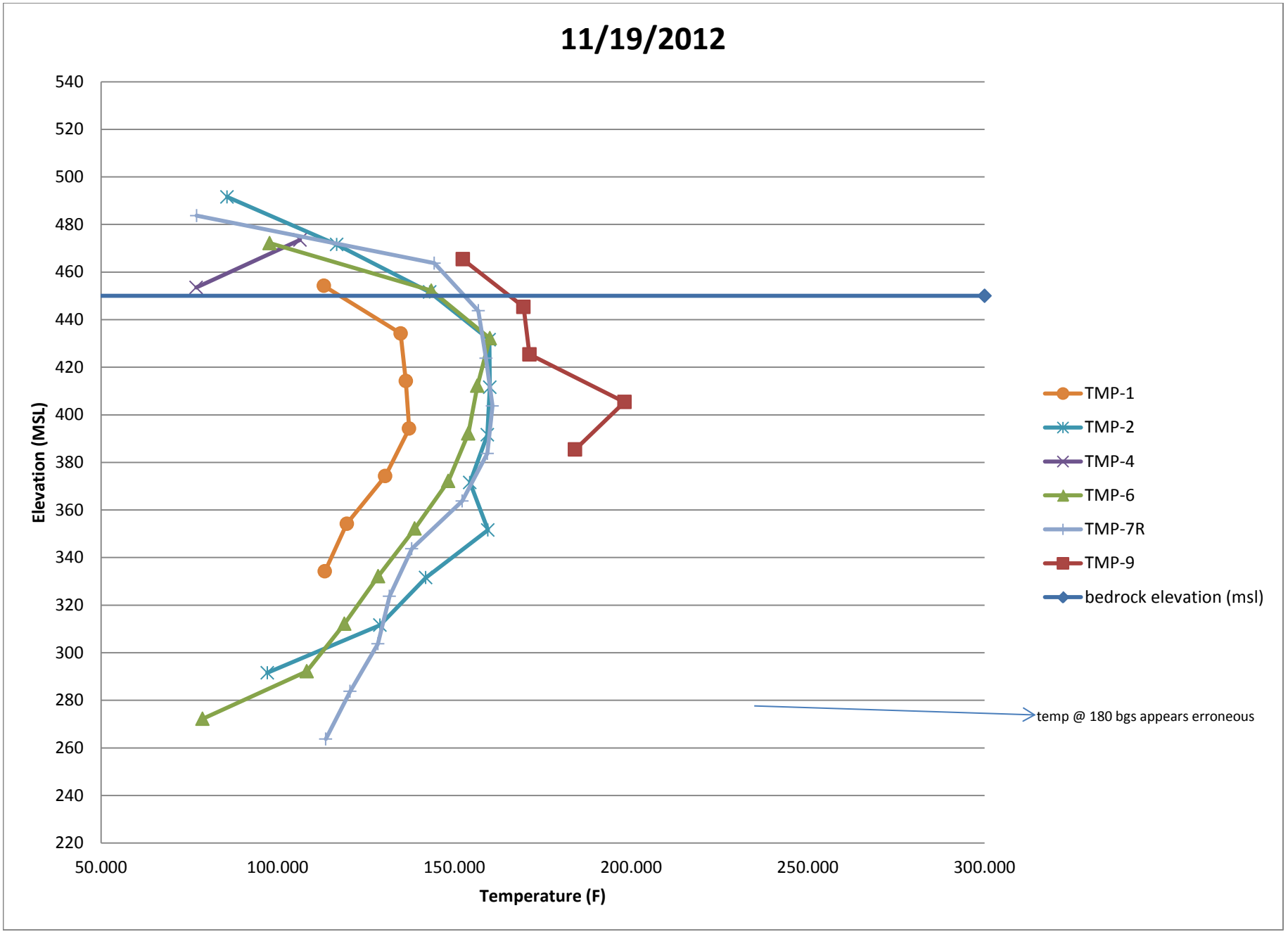
lrock elevation (msl)

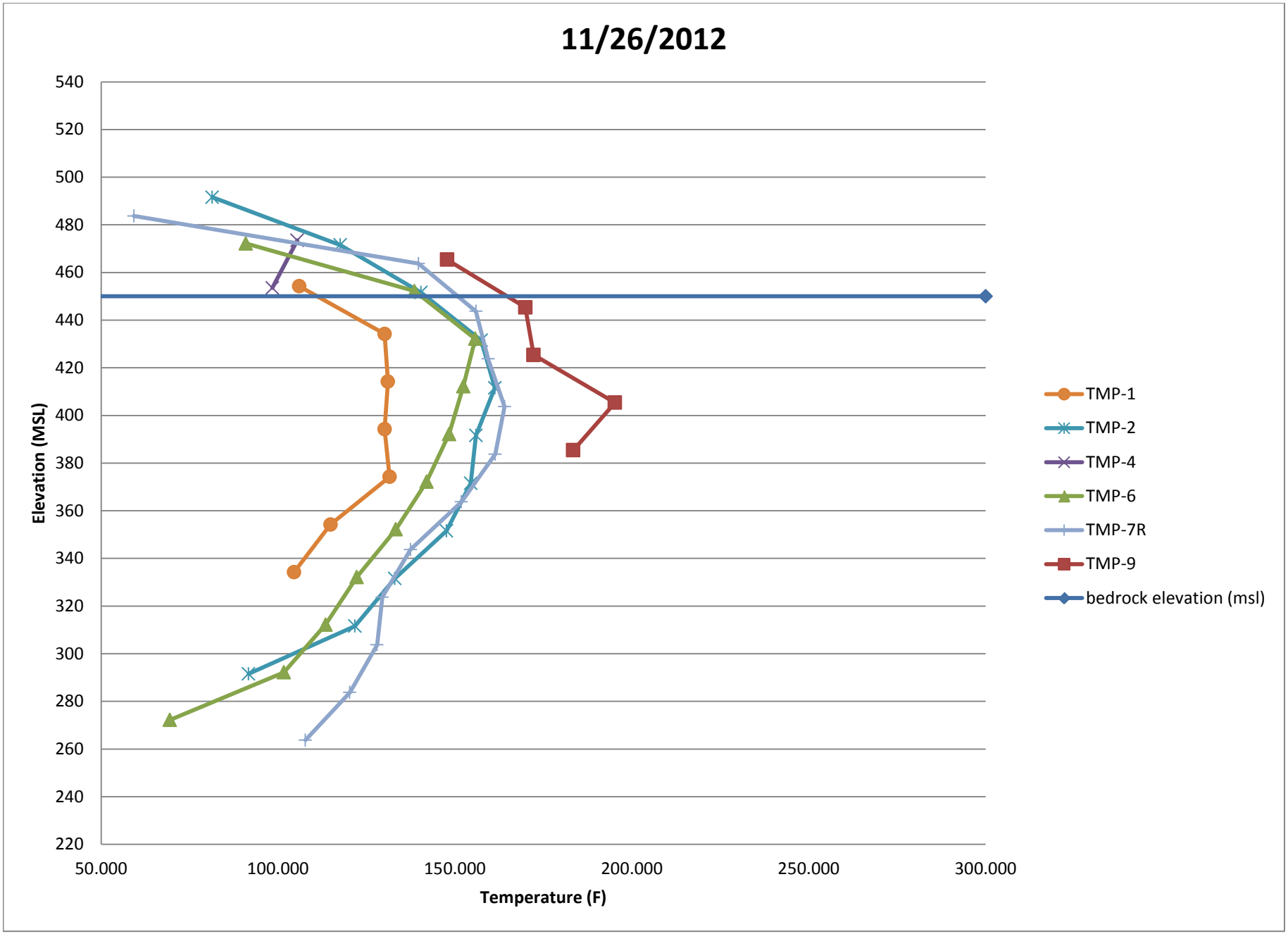
22.22	0
22.22	300

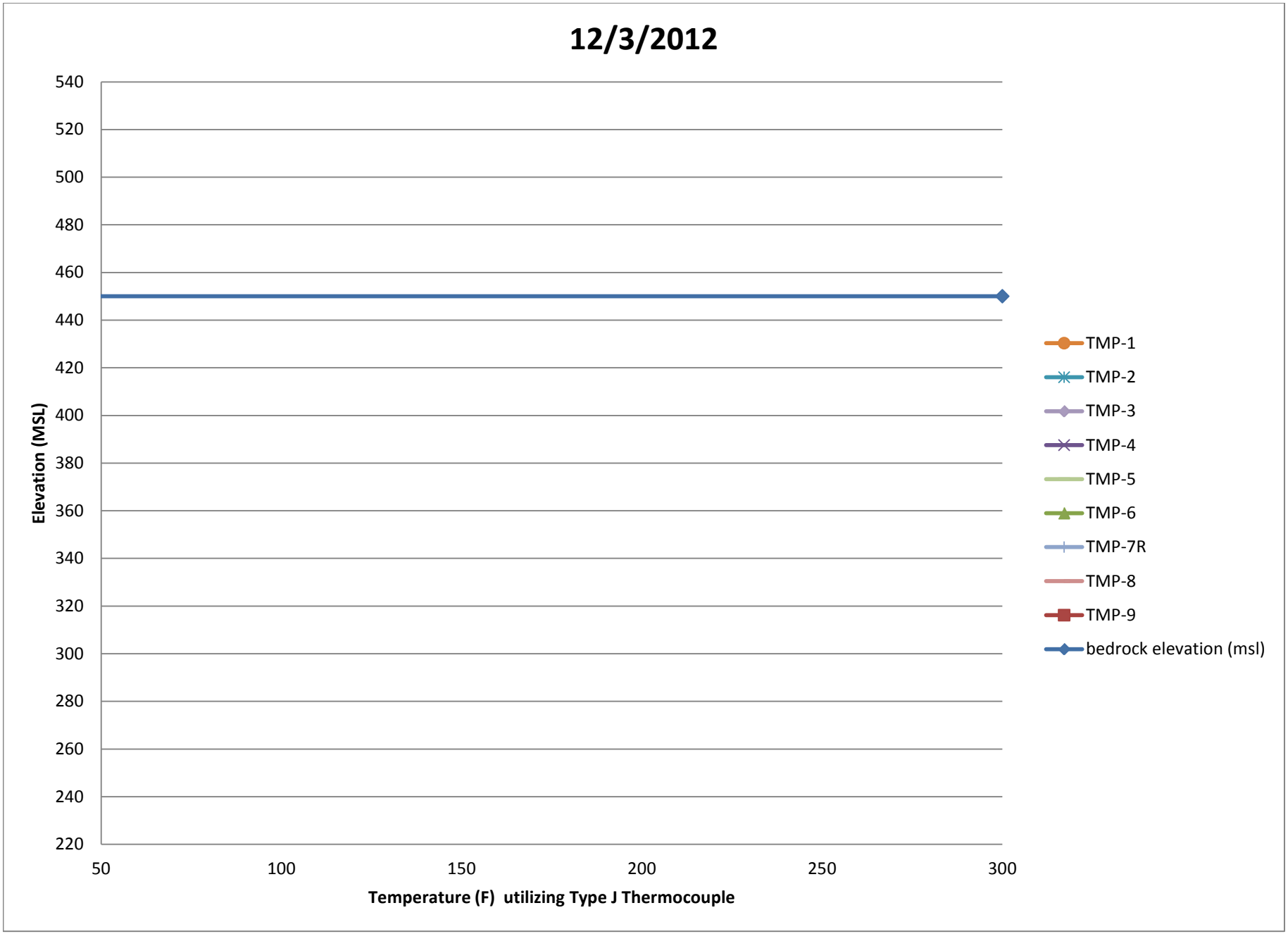
ground surface

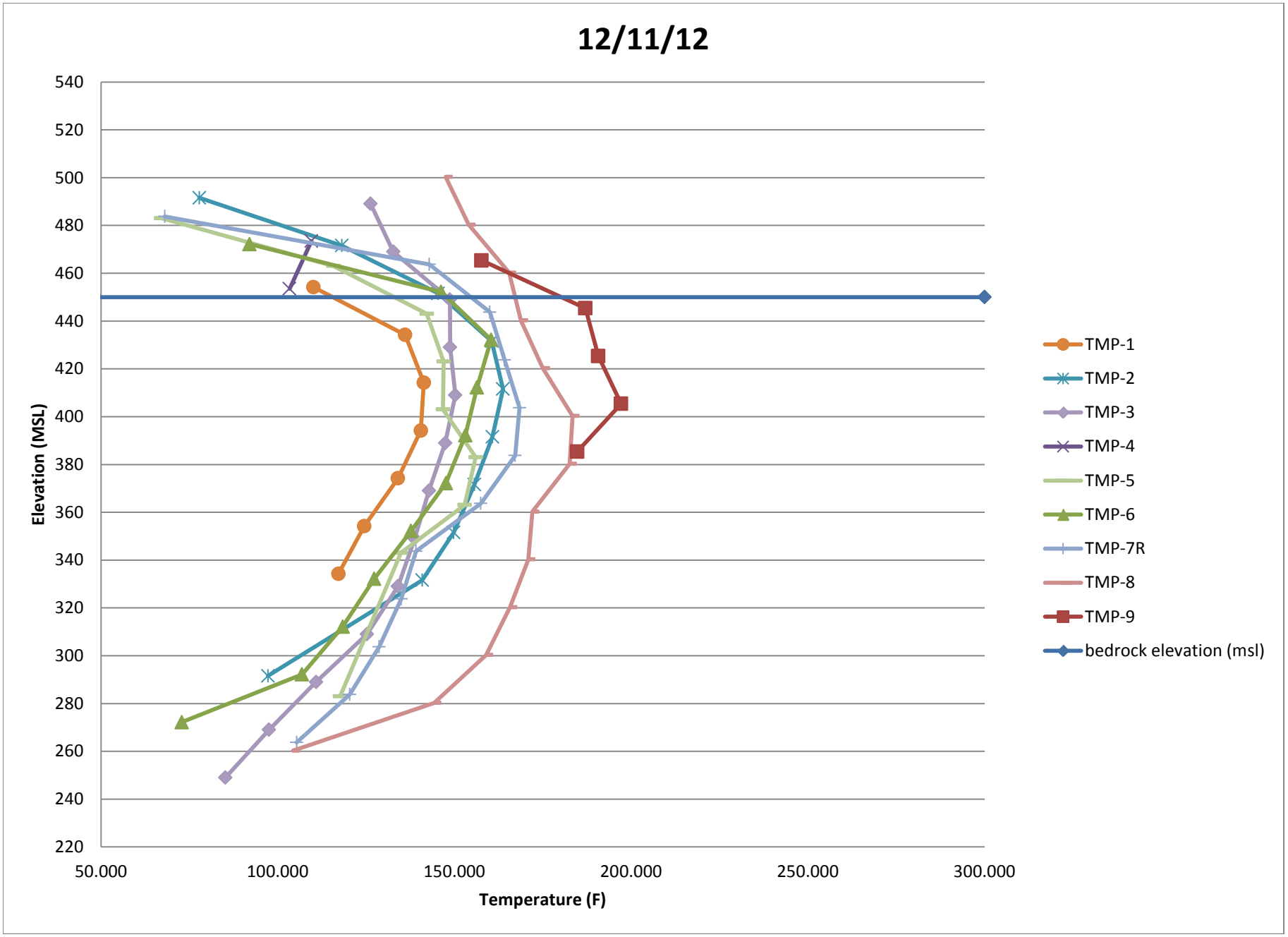
0	0
0	300

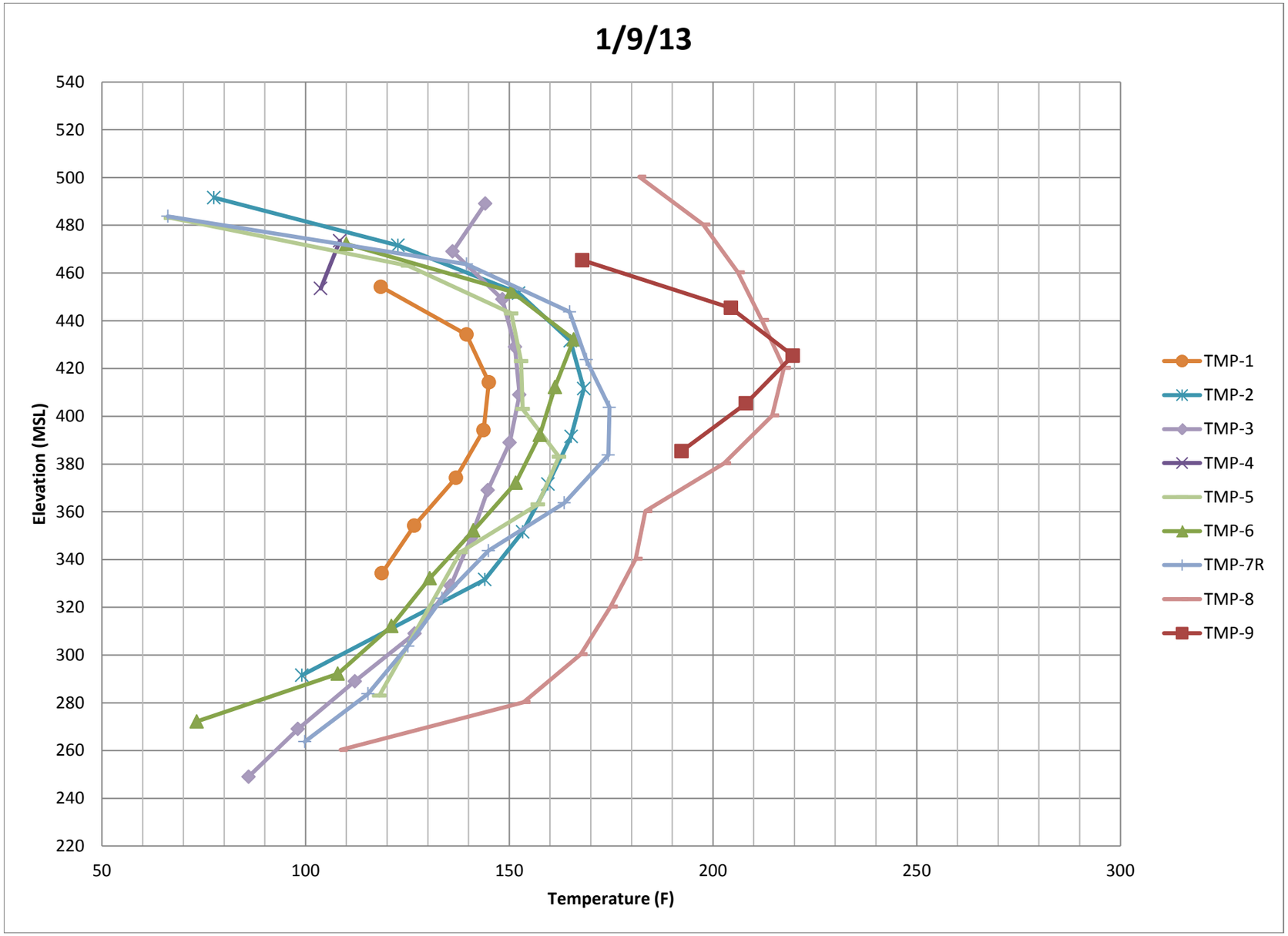

TMP-1
Elevation (MSL)
460
440
420
400
380
360
340
320
Depth (fbgs)
0
20
40
60
80
100
120
140
Temperature (F)
50
70
90
110
130
150
170
190
210
230
250
11/8/2012
11/12/2012
11/19/2012
11/26/2012
12/11/2012
12/17/2012
12/24/2012
12/31/2012
1/7/2013
1/9/2013
1/15/2013

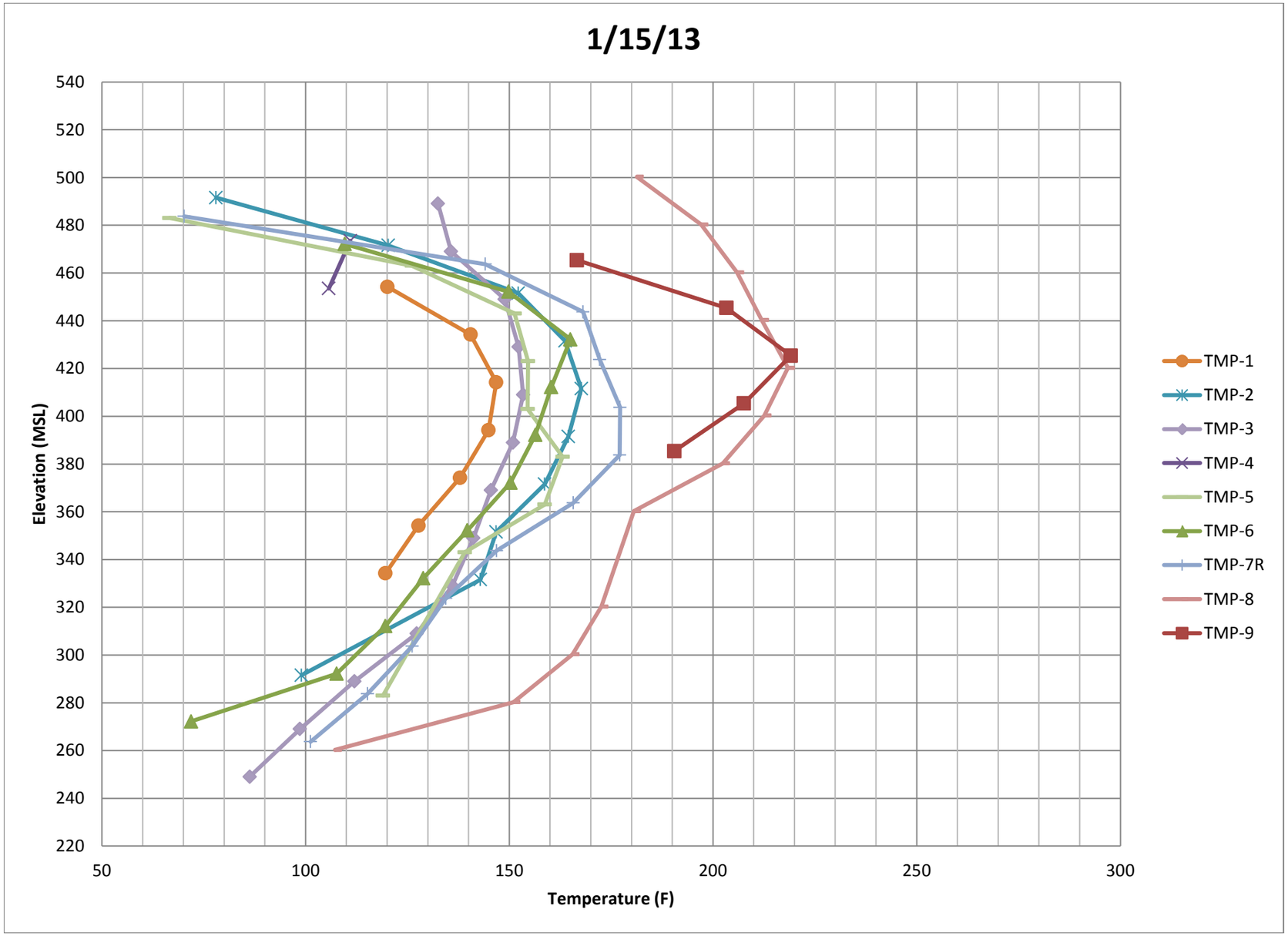

11/19/2012
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50.000
100.000
150.000
200.000
250.000
300.000
Temperature (F)
TMP-1
TMP-2
TMP-4
TMP-6
TMP-7R
TMP-9
bedrock elevation (msl)
temp @ 180 bgs appears erroneous


11/26/2012
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50.000
100.000
150.000
200.000
250.000
300.000
Temperature (F)
TMP-1
TMP-2
TMP-4
TMP-6
TMP-7R
TMP-9
bedrock elevation (msl)


12/3/2012
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
Elevation (MSL)
50
100
150
200
250
300
Temperature (F) utilizing Type J Thermocouple
TMP-1
TMP-2
TMP-3
TMP-4
TMP-5
TMP-6
TMP-7R
TMP-8
TMP-9
bedrock elevation (msl)


12/11/12
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50.000
100.000
150.000
200.000
250.000
300.000
Temperature (F)
TMP-1
TMP-2
TMP-3
TMP-4
TMP-5
TMP-6
TMP-7R
TMP-8
TMP-9
bedrock elevation (msl)


1/9/13
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50
100
150
200
250
300
Temperature (F)
TMP-1
TMP-2
TMP-3
TMP-4
TMP-5
TMP-6
TMP-7R
TMP-8
TMP-9


1/15/13
Elevation (MSL)
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
50
100
150
200
250
300
Temperature (F)
TMP-1
TMP-2
TMP-3
TMP-4
TMP-5
TMP-6
TMP-7R
TMP-8
TMP-9

ID	Northing	Easting	Elevation	Latitude	Longitude	Description	bgs
TMP-1	1067949.937	516267.12	472.22	38° 45' 59.78781137"	90° 26' 35.03262178"	TMP-1 GROUND	138
	N/A	N/A	N/A	N/A	N/A	TMP-1 TOC	
TMP-2	1067919.324	516332.174	491.567	38° 45' 59.4847778"	90° 26' 34.21159367"	TMP-2 GROUND	200
	N/A	N/A	N/A	N/A	N/A	TMP-2 TOC	
TMP-3	1067891.459	516389.966	499.025	38° 45' 59.209"	90° 26' 33.4822"	TMP-3 GROUND	250
	1067891.279	516389.597	504.417	N/A	N/A	TMP-3 TOC	
TMP-4	1067856.279	516459.386	501.5	38° 45' 58.86074058"	90° 26' 32.60612319"	TMP-4 GROUND	48
	1067856.19	516459.836	505.164	38° 45' 58.85985023"	90° 26' 32.60043928"	TMP-4 TOC	
TMP-5	1067767.704	516438.301	503.059	38° 45' 57.9854"	90° 26' 32.8731"	TMP-5 GROUND	231
	N/A	N/A	N/A	N/A	N/A	TMP-5 TOC	
TMP-6	1067809.741	516282.793	487.1828	38° 45' 58.40200418"	90° 26' 34.83601248"	TMP-6 GROUND	215
	1067808.83	516283.895	491.5295	38° 45' 58.39299252"	90° 26' 34.82210265"	TMP-6 TOC	
TMP-7A	1067664.698	516520.927	503.738	38° 45' 56.9667"	90° 26' 31.8309"	TMP-7R GROUND	225
	1067666.175	516521.083	507.822	N/A	N/A	TMP-7R TOC	
TMP-8	1067618.211	516396.441	520.281	38° 45' 56.5081"	90° 26' 33.4029"	TMP-8 GROUND	249
	N/A	N/A	N/A	N/A	N/A	TMP-8 TOC	
TMP-9	1067695.842	516218.831	485.3882	38° 45' 57.27666881"	90° 26' 35.64454177"	TMP-9 GROUND	100
	1067695.872	516219.64	491.0738	38° 45' 57.27695981"	90° 26' 35.63432918"	TMP-9 TOC	

Name	Northing	Easting	Approx GS E	Approx. Quarry Bottom	Approx Depth of Boring	revised bott	diff	new depth	depth	installation	QC
TMP-1	1067952.93	516262.22	469	260	209	338.18	-78	131	138	11/7/2012	Hill
TMP-2	1067922.55	516325.33	488	260	228	277.5	-18	211	200	11/8/2012	Hill
TMP-3	1067891.27	516390.60	500	250	250	243.6	6	256	250	11/15/2012	Hill
TMP-4	1067855.46	516461.77	500	460	40	470	-10	30	48	11/1/2012	Hill
TMP-5	1067763.01	516436.11	503	300	203	271.33	29	231		11/28/2012	Hill/Carson
TMP-6	1067808.94	516285.93	487	320	167	278	42	209	215	9/18/2012	Hill
TMP-7A	1067657.77	516516.95	504				ABANDONED		200' -6", 2	plete-abandoned	Hill
TMP-7	1067664.70	516520.93	503.74	260	244	272.21	-12	225	200' -6", 2	11/16/2012	Hill
TMP-8	1067618.88	516405.61	522	240	282	270	-30	252		30-Nov	Hill
TMP-9	1067695.90	516217.25	486	350	136	396	-46	90	100	10/19/2012	Hill

edrock elevation (msl)

450	0
450	300