



LANDFILL GAS CORRECTIVE ACTION UPDATE

BRIDGETON LANDFILL

BRIDGETON, ST. LOUIS COUNTY, MISSOURI

**Submitted Pursuant to Section 23 of Agreed Order
Case No. 13SL-CC01088, Effective May 13, 2013**

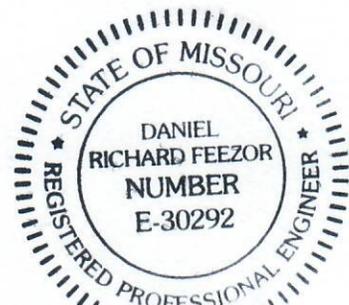
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1.0 INTRODUCTION

On May 13, 2013, Bridgeton Landfill entered into an Agreed Order with the State of Missouri which requires actions to address a subsurface reaction (SSR) occurring in the South Quarry area of the Bridgeton Landfill. Section 23 of the Agreed Order requires the preparation of an updated “Landfill Gas Corrective Action Plan” (CAP) and requests that the update consider SSR control measures. Bridgeton Landfill subsequently submitted such an updated CAP on July 26, 2013.

Section 5.0 of the July 2013 CAP proposed that weekly monitoring data would be summarized and reviewed in a quarterly report to be submitted on the 15th day of the month following each quarter. The Missouri Department of Natural Resources (MDNR) accepted this proposal with a letter dated October 18, 2013. Bridgeton Landfill has subsequently submitted updated Quarterly Corrective Action Plans Updates each quarter. The purpose of this document is to provide monitoring data subsequent to the July 2016 (second quarter 2016) CAP Update, and to review the current status of gas migration control measures.

The text of the July 2013 CAP is included in **Appendix A** for reference.

Pursuant to Title 10 of the Missouri Code of State Regulations (CSR) 80-3.010(14)(C)5.C, within 60 days of a new exceedance of the methane threshold, a remediation plan must be submitted to the MDNR to address the exceedance. Besides fulfilling the reporting requirements of the July 2013 CAP, this CAP Update report also constitutes the submittal to satisfy 10 CSR 80-3.010(14)(C)5.C. **Section 3.0** below describes the recent and planned gas migration control efforts that are intended to address the exceedances identified at probes GMP-10 and PZ-204A-SS.

2.0 REVIEW OF CURRENT GAS MIGRATION CONTROL STATUS

The Bridgeton Landfill (BL) continues an aggressive monitoring program and significant infrastructure investment with respect to landfill gas migration control at the facility.

Detailed graphs showing approximately one year of methane concentrations as measured in the probes from September 29, 2015 to September 26, 2016 are included in this document as **Appendix B**.

Table 1 lists the gas monitoring probes and their corresponding abbreviations, as presented in the July 2013 CAP, to clarify the historical graphs and the tabulated data for this monitoring period. The monitoring period is determined as June 28, 2016 through September 26, 2016.

Tables 2 through **5** present tabulated gas monitoring probe data for the monitoring period. Weekly water level readings were proposed by the July 2013 CAP and approved by the October 18, 2013 MDNR letter and are provided as depth to water (from top of well). Results of weekly water level measurements for the monitoring period are provided in **Table 6**.

The following discussion highlights observations regarding methane specific to the data observed this monitoring period. A site plan that depicts locations of the gas monitoring probes is provided in **Appendix C**.

Newly Elevated Compliance Probes

There were two probes that exhibited methane concentrations greater than the 2.5% threshold during this quarterly monitoring period which did not exhibit concentrations greater than 2.5% during the previous period: GMP-10 and PZ-204A-SS. Monitoring at these probes was increased in frequency to daily for a period following the initial exceeding concentrations.

Although probes GMP-10 and PZ-204A-SS have exhibited methane concentrations greater than 2.5% during this quarterly monitoring period, their recent monitoring results indicated concentrations less than 2.5%. Probe GMP-10 exhibited concentrations below 2.5% during daily monitoring events from August 3-12, 2016, and during the past seven weekly monitoring events. Probe PZ-204A-SS exhibited concentrations below 2.5% during daily monitoring events from September 10-16, 2016, and during the past two weekly monitoring events.

Probes with Greater Than or Equal to 2.5% Methane: Quarterly Review

The following probes exhibited methane concentrations greater than the 2.5% threshold during this quarterly monitoring period: GMP-4S, GMP-3, GMP-5, GMP-14D, GMP-14S, TMP-1S, TMP-2S, TMP-3M, and TMP-3S. All of these probes have exhibited methane concentrations above 2.5% in previous quarterly monitoring periods.

Probes Below 2.5% Methane

The following probes continued to exhibit methane concentrations less than the 2.5% threshold during this quarterly monitoring period: GMP-01, GMP-2, GMP-4D, GMP-5D, GMP-5S, GMP-06, GMP-6D, GMP-6S, GMP-07, GMP-7D, GMP-7S, GMP-08, GMP-09, GMP-11, GMP-12, GMP-13D, GMP-13S, GMP-15D, GMP-15S, GMP-16D, GMP-16S, TMP-1D, TMP-1M, TMP-2D, TMP-2M, TMP-3D, and PZ-204-SS.

Probes GMP-5S and GMP-6S had exhibited methane concentrations greater than 2.5% early in the previous quarterly monitoring period, but after May 31, 2016 and April 28, 2016, respectively, the probes indicated concentrations less than 2.5%. These reductions in methane concentrations at GMP-5S and GMP-6S may have been attributable to enhanced gas control, details of which have been summarized in earlier CAP updates.

Quarterly-Read Probes

Sentry Probes currently being monitored on a quarterly basis are GMP-05, GMP-06, and GMP-07. In the most recent quarterly reading (July 5, 2016), GMP-05 exhibited methane concentrations above the 2.5% threshold, while GMP-06 and GMP-07 exhibited concentrations below 2.5%. Sentry Probe GMP-04 was decommissioned in March 2014. Although Compliance Probe GMP-08 was listed as a quarterly-read probe, it was monitored more frequently during this monitoring period. It exhibited methane concentrations below the 2.5% threshold during this quarterly monitoring period.

Data Review

A review of the probe readings for this quarterly monitoring period indicates that two probes (GMP-5S and GMP-6S) that had exhibited methane concentrations above the 2.5% threshold during the previous monitoring period did not do so during this period. Two probes (GMP-10 and PZ-204A-SS) that had not exhibited concentrations above the threshold during the previous period did so during this period. These two newly exceeding probes are what are termed "Public Safety Gas Monitoring Probes." However, monitoring data from these two probes indicated that the concentrations have decreased to below the threshold as of August 3, 2016 (GMP-10) and September 10, 2016 (PZ-204A-SS).

Pursuant to Title 10 of the Missouri Code of State Regulations (CSR) 80-3.010(14)(C)5.C, within 60 days of a new exceedance of the methane threshold, a remediation plan must be submitted to the MDNR to address the exceedance. Besides fulfilling the reporting requirements of the July 2013 CAP, this CAP Update report also constitutes the submittal to satisfy 10 CSR 80-3.010(14)(C)5.C. **Section 3.0** below describes the recent and planned gas migration control efforts that are intended to continue to address the exceedances identified at probes GMP-10 and PZ-204A-SS.

3.0 RECENT GAS MIGRATION CONTROL EFFORTS

The July 2013 CAP and subsequent quarterly updates provide an overview of several ongoing and planned measures that are expected to reduce gas migration. The following are gas migration control efforts initiated, continued or completed in the third quarter of 2016.

Leachate Conveyance System

The continued operation of multiple upgraded lift stations around the perimeter of the South Quarry.

General LFG System Modifications and Improvements:

The following improvements have been completed in the South Quarry at the Bridgeton Landfill:

- Installation of sixteen (15) new landfill gas extraction wells in the south quarry within 1 year, and installation of GEW-177 this quarter. These wells have been installed to increase the gas extraction capacity in each respective area. The locations of these new extraction wells are shown in **Appendix D**. The locations were targeted to provide additional source control adjacent to areas displaying migration. Wells GEW-175 and -176 were installed to provide source control in the northeast corner of the South Quarry. Wells GEW-171, -172, -173, and -174 were installed to enhance source control of landfill gas on the east side of the South Quarry. The ten (10) additional wells were installed to enhance source control on the south side of the South Quarry. GEW – 177 was installed as an 18 inch diameter well to assist with leachate collection along with landfill gas extraction.
- The sixteen (16) new landfill gas extraction wells have been connected to the gas collection and control system. The initial gas flow has assisted with the removal of the landfill gas from the south slope area, but liquid removal must be monitored and maintained as much as possible.
- Continued operation and monitoring of the landfill gas extraction system adjacent to Metropolitan Sewer District lift station just southwest of the South Quarry. This gas extraction point is directed to a “Pure-Air” system of activated carbon, since air intrusion diluted the hydrogen content of the flared gas. This allows the vacuum of this collection point to be maximized.
- The installation of Phase F 18” Diameter Landfill Gas Header Piping. This improvement included the installation of 18” diameter HDPE piping to be utilized as landfill gas collection header. This improvement increased the overall system vacuum available on the north and southeast sides of the south quarry. Nearly every gas extraction point, perimeter extraction point, interceptor trench point and laterals connected to the new 18” header was

improved. These improvements included enhancing drainage for condensate management within laterals and multiple upgrades to the aforementioned connections. The location of the new header is presented graphically in **Appendix D**. This system continues to provide adequate vacuum to the South Quarry.

- Installation of five (5) new liquid extraction sumps (IT-2, IT-3, IT-4, IT-5, and IT-7) connected to existing landfill gas interceptor trench located on the south side of the South Quarry at the Bridgeton Landfill. These sumps were installed to increase the capacity for liquid removal and thus increase the efficiency of landfill gas extraction. These items are presented in **Appendix D**.
- The newly installed IT sumps have been connected to the gas collection and control system and have been outfitted with pumps to enhance liquid removal and increase gas collection. The initial gas flow has assisted with the removal of the landfill gas from the south slope area, but liquid removal must be monitored and maintained as much as possible.
- The BL are currently utilizing a new submersible diaphragm pump in a number of gas extraction points to enhance liquid extraction to increase gas collection. These pumps are a new addition to the pump network. The performance of these pumps will be monitored during the next quarterly monitoring period.
- Additional improvements included abandonment of non-functioning facilities and installation of multiple landfill gas flow control devices.

Leachate Pretreatment Facility:

The leachate pretreatment facility continued operation during the third quarter of 2016.

4.0 PROPOSED AND ONGOING GAS MIGRATION CONTROL EFFORTS

GMP-10 and PZ-204A-SS

The Subsurface Reaction (SSR) occurring in the South Quarry complicates gas collection and gas migration control. From a review of the latest settlement data, the SSR is currently active in the south and southwestern portions of the South Quarry, proximate to the newly elevated locations of GMP-10 and PZ-204A-SS. The settlement consolidates the waste, and increases free liquid in the waste. Free liquid can collect in gas extraction wells and can saturate the perforated sections of the gas collection piping, greatly reducing the flow capacity of a gas extraction well. Therefore, the gas migration control effort to address GMP-10 and PZ-204A-SS gas migration will include a specific protocol to ensure efforts are maximized to increase gas flow from newly installed gas wells in the vicinity of the two referenced gas probes.

The operational objective outlined below to minimize subsurface lateral gas migration by aggressively collecting landfill gas with the waste footprint, and use the gas collection infrastructure outside the waste boundary as secondary “cleanup” system. The corresponding observed reductions in the newly elevated probes (PZ-204-AS and GMP-10) will confirm that the ongoing measures to increase gas collection are achieving the desired result. The recommended six month protocol is outlined in the steps below:

- 1) Weekly Landtec GEM readings of GEW-163, GEW-164, GEW-165, GEW-166, GEW-167, GEW-168 and GEW-169 gas extraction wells and PEW-4, PEW -5, PEW-6, PEW-7, PEW-8, PEW-9, and PEW-10 perimeter extraction wells, and gas probes along the south side perimeter.
- 2) Based upon data collected in step 1, tune and dewater GEW-163, GEW-164, GEW-165, GEW-166, GEW-167, GEW-168 and GEW-169 to maximize gas flow rates and wellhead temperatures.
 - a. The noted GEWs will be checked each weekly for a period of 6 months.
 - b. The goal is to remove as much of the reaction landfill gas in this area as possible. Historical flowing gas wellhead temperatures in these wells has been 145 degrees F to 185 degrees F. Lower temperatures and / or lower flows suggest the gas extraction wells are becoming saturated, Dewatering the wells will allow for improved gas extraction which will benefit gas control in the area proximate to these wells.
 - c. Liquid management infrastructure servicing these GEW wells will be checked weekly to verify the ability to pump.
- 3) Tune and dewater IT-trenches on south perimeter to maximize flow and migration control.
 - a. Confirm with water loading test that IT-trenches are functional and not silted in. The water loading test will be conducted on IT sumps ITS-2, ITS-3, ITS-4, ITS-5 and ITS-7 on a monthly basis.
- 4) Data trending of these field results will provide insight and as to recommended tuning revisions and progress of subsurface gas mitigation.
- 5) Operational goal to control reaction gas at the source (GEW wells) and use the IT trenches and the PEW wells for secondary cleanup.

The results will be tabulated and reported in the following two quarterly CAP reports.

Remaining Gas Probes with Greater Than or Equal to 2.5% Methane

For the remaining gas probes greater than or equal to 2.5% Methane and system not associated with PZ-204-AS and GMP-10:

- The BL will continue to intensely monitor the effects of the vast completed and on-going system improvements directly and indirectly related to landfill gas migration control.

5.0 CONTINUED MONITORING AND REPORTING

Bridgeton Landfill will continue with gas probe monitoring and reporting as specified in Section 5.0 of the July 2013 CAP. Therefore, the next update is proposed to be included in the January 15, 2017 (fourth quarter 2016) quarterly report update.

TABLE 1

LIST OF LANDFILL GAS MONITORING PROBES

**Bridgeton Landfill
Landfill Gas Monitoring Probes
July 2013**

| ID | CSV ID | POINT NAME | Ref Boring/installation Record | Type | Current Monitoring Frequency |
|------------|----------|------------|--------------------------------|----------------------------|------------------------------|
| GMP-01 | BRIGMP01 | MP01 | GMP-01 | Compliance probe | weekly |
| GMP-02 | BRIGMP02 | MP02 | GMP-02 | Compliance probe | weekly |
| GMP-03 | BRIGMP03 | MP03 | GMP-03 | Compliance probe | weekly |
| GMP-04* | BRIGMP04 | MP04 | GMP-04 | Sentry probe | quarterly |
| GMP-05 | BRIGMP05 | MP05 | GMP-05 | Sentry probe | quarterly |
| GMP-06 | BRIGMP06 | MP06 | PZ-201-SS | Sentry probe | quarterly |
| GMP-07 | BRIGMP07 | MP07 | PZ-200-SS | Sentry probe | quarterly |
| GMP-08 | BRIGMP08 | MP08 | GMP-08 | Compliance probe | quarterly |
| GMP-09 | BRIGMP09 | MP09 | GMP-09 | Public Safety Probe | weekly |
| GMP-10 | BRIGMP10 | MP10 | GMP-10 | Public Safety Probe | weekly |
| GMP-11 | BRIGMP11 | MP11 | GMP-11 | Public Safety Probe | weekly |
| GMP-12 | BRIGMP12 | MP12 | GMP-12 | Public Safety Probe | weekly |
| GMP-4S | BRIGMP4S | BRIGMP4S | GMP-04 | Compliance nested probe | weekly |
| GMP-4D | BRIGMP4D | BRIGMP4D | GMP-04 | Compliance nested probe | weekly |
| GMP-5S | BRIGMP5S | BRIGMP5S | GMP-05 | Compliance nested probe | weekly |
| GMP-5D | BRIGMP5D | BRIGMP5D | GMP-05 | Compliance nested probe | weekly |
| GMP-6S | BRIGMP6S | BRIGMP6S | GMP-06 | Compliance nested probe | weekly |
| GMP-6D | BRIGMP6D | BRIGMP6D | GMP-06 | Compliance nested probe | weekly |
| GMP-7S | BRIGMP7S | BRIGMP7S | GMP-07 | Compliance nested probe | weekly |
| GMP-7D | BRIGMP7D | BRIGMP7D | GMP-07 | Compliance nested probe | weekly |
| GMP-13S | BRGMP13S | BRGMP13S | GMP-13 | Compliance nested probe | weekly |
| GMP-13D | BRGMP13D | BRGMP13D | GMP-13 | Compliance nested probe | weekly |
| GMP-14S | BRGMP14S | BRGMP14S | GMP-14 | Compliance nested probe | weekly |
| GMP-14D | BRGMP14D | BRGMP14D | GMP-14 | Compliance nested probe | weekly |
| GMP-15S | BRGMP15S | BRGMP15S | GMP-15 | Compliance nested probe | weekly |
| GMP-15D | BRGMP15D | BRGMP15D | GMP-15 | Compliance nested probe | weekly |
| GMP-16S | BRGMP16S | BRGMP16S | GMP-16 | Compliance nested probe | weekly |
| GMP-16D | BRGMP16D | BRGMP16D | GMP-16 | Compliance nested probe | weekly |
| TMP-1S | BRITMP1S | BRITMP1S | TMP-01 | Investigative nested probe | weekly |
| TMP-1M | BRITMP1M | BRITMP1M | TMP-01 | Investigative nested probe | weekly |
| TMP-1D | BRITMP1D | BRITMP1D | TMP-01 | Investigative nested probe | weekly |
| TMP-2S | BRITMP2S | BRITMP2S | TMP-02 | Investigative nested probe | weekly |
| TMP-2M | BRITMP2M | BRITMP2M | TMP-02 | Investigative nested probe | weekly |
| TMP-2D | BRITMP2D | BRITMP2D | TMP-02 | Investigative nested probe | weekly |
| TMP-3S | BRITMP3S | BRITMP3S | TMP-03 | Investigative nested probe | weekly |
| TMP-3M | BRITMP3M | BRITMP3M | TMP-03 | Investigative nested probe | weekly |
| TMP-3D | BRITMP3D | BRITMP3D | TMP-03 | Investigative nested probe | weekly |
| PZ-204-SS | PZ2040SS | 4OSS | PZ-204-SS | Public Safety Probe | weekly |
| PZ-204A-SS | PZ204ASS | 4ASS | PZ-204-ASS | Public Safety Probe | weekly |

* Well has been decommissioned

TABLE 2

COMPLIANCE GAS MONITORING PROBE DATA

JUNE 28 – SEPTEMBER 26, 2016

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-7D | Weekly | 1 | 7/5/2016 | 0.0 | 0.5 | 20.5 | 79.0 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 7/11/2016 | 0.0 | 0.6 | 20.6 | 78.8 | 30 | 0.01 |
| GMP-7D | Weekly | 1 | 7/25/2016 | 0.0 | 1.0 | 19.8 | 79.2 | 30 | 0.01 |
| GMP-7D | Weekly | 1 | 8/1/2016 | 0.0 | 2.2 | 19.7 | 78.1 | 30 | 0.01 |
| GMP-7D | Weekly | 1 | 8/8/2016 | 0.0 | 0.5 | 20.4 | 79.1 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 8/9/2016 | 0.0 | 0.2 | 20.4 | 79.4 | 30 | -0.01 |
| GMP-7D | Weekly | 1 | 8/16/2016 | 0.0 | 2.0 | 20.7 | 77.3 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 8/22/2016 | 0.0 | 0.1 | 21.2 | 78.7 | 30 | 0.01 |
| GMP-7D | Weekly | 1 | 8/29/2016 | 0.0 | 0.0 | 20.6 | 79.4 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 9/6/2016 | 0.0 | 0.7 | 21.7 | 77.6 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 9/12/2016 | 0.0 | 0.2 | 21.8 | 78.0 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 9/19/2016 | 0.0 | 0.2 | 20.7 | 79.1 | 30 | 0.00 |
| GMP-7D | Weekly | 1 | 9/26/2016 | 0.0 | 0.3 | 21.1 | 78.6 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 7/5/2016 | 0.0 | 0.7 | 13.2 | 86.1 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 7/11/2016 | 0.0 | 2.2 | 4.5 | 93.3 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 7/25/2016 | 0.0 | 3.5 | 3.6 | 92.9 | 30 | 2.10 |
| GMP-7S | Weekly | 1 | 8/1/2016 | 0.0 | 4.0 | 3.2 | 92.8 | 30 | 4.30 |
| GMP-7S | Weekly | 1 | 8/8/2016 | 0.0 | 4.5 | 4.2 | 91.3 | 30 | NA |
| GMP-7S | Weekly | 1 | 8/9/2016 | 0.0 | 2.4 | 6.8 | 90.8 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 8/16/2016 | 0.0 | 0.7 | 1.9 | 97.4 | 30 | 2.59 |
| GMP-7S | Weekly | 1 | 8/22/2016 | 0.0 | 3.2 | 4.8 | 92.0 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 8/29/2016 | 0.0 | 3.3 | 5.8 | 90.9 | 30 | 0.01 |
| GMP-7S | Weekly | 1 | 9/6/2016 | 0.0 | 0.2 | 6.7 | 93.1 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 9/12/2016 | 0.0 | 0.8 | 3.9 | 95.3 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 9/19/2016 | 0.0 | 1.9 | 3.9 | 94.2 | 30 | 0.00 |
| GMP-7S | Weekly | 1 | 9/26/2016 | 0.0 | 0.9 | 7.3 | 91.8 | 30 | 0.01 |
| GMP-08 | Quarterly | 1 | 7/5/2016 | 0.0 | 0.7 | 19.7 | 79.6 | 30 | 0.00 |
| GMP-08 | Quarterly | 1 | 7/11/2016 | 0.0 | 4.9 | 14.4 | 80.7 | 30 | 0.01 |
| GMP-08 | Quarterly | 1 | 7/25/2016 | 0.0 | 3.2 | 14.3 | 82.5 | 30 | 0.02 |
| GMP-08 | Quarterly | 1 | 8/1/2016 | 0.0 | 5.8 | 6.1 | 88.1 | 30 | -0.02 |
| GMP-08 | Quarterly | 1 | 8/8/2016 | 0.0 | 8.4 | 7.2 | 84.4 | 30 | 0.00 |
| GMP-08 | Quarterly | 1 | 8/16/2016 | 0.0 | 0.5 | 21.7 | 77.8 | 30 | -0.01 |
| GMP-08 | Quarterly | 1 | 8/22/2016 | 0.0 | 11.3 | 7.1 | 81.6 | 30 | -0.04 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-08 | Quarterly | 1 | 8/29/2016 | 0.0 | 1.5 | 15.5 | 83.0 | 30 | 0.00 |
| GMP-08 | Quarterly | 1 | 9/6/2016 | 0.0 | 0.1 | 21.5 | 78.4 | 30 | 0.02 |
| GMP-08 | Quarterly | 1 | 9/12/2016 | 0.0 | 0.1 | 19.1 | 80.8 | 30 | 0.00 |
| GMP-08 | Quarterly | 1 | 9/19/2016 | 0.0 | 0.3 | 18.0 | 81.7 | 30 | 0.00 |
| GMP-08 | Quarterly | 1 | 9/26/2016 | 0.0 | 0.2 | 19.3 | 80.5 | 30 | 0.02 |
| GMP-16D | Weekly | 1 | 7/5/2016 | 0.0 | 0.6 | 9.2 | 90.2 | 30 | -0.01 |
| GMP-16D | Weekly | 1 | 7/11/2016 | 0.0 | 8.1 | 7.2 | 84.7 | 30 | 0.06 |
| GMP-16D | Weekly | 1 | 7/25/2016 | 0.0 | 1.4 | 12.4 | 86.2 | 30 | 0.33 |
| GMP-16D | Weekly | 1 | 8/1/2016 | 0.0 | 1.6 | 15.2 | 83.2 | 30 | 0.11 |
| GMP-16D | Weekly | 1 | 8/8/2016 | 0.0 | 1.0 | 16.8 | 82.2 | 30 | NA |
| GMP-16D | Weekly | 1 | 8/9/2016 | 0.0 | 0.1 | 17.7 | 82.2 | 30 | 0.02 |
| GMP-16D | Weekly | 1 | 8/16/2016 | 0.0 | 0.3 | 20.0 | 79.7 | 30 | 5.45 |
| GMP-16D | Weekly | 1 | 8/22/2016 | 0.0 | 0.2 | 20.4 | 79.4 | 30 | -0.01 |
| GMP-16D | Weekly | 1 | 8/29/2016 | 0.0 | 0.6 | 19.5 | 79.9 | 30 | 0.12 |
| GMP-16D | Weekly | 1 | 9/6/2016 | 0.0 | 0.1 | 21.7 | 78.2 | 30 | -0.01 |
| GMP-16D | Weekly | 1 | 9/12/2016 | 0.0 | 0.0 | 17.9 | 82.1 | 30 | 0.01 |
| GMP-16D | Weekly | 1 | 9/19/2016 | 0.0 | 2.4 | 14.5 | 83.1 | 30 | 2.84 |
| GMP-16D | Weekly | 1 | 9/26/2016 | 0.0 | 0.0 | 21.3 | 78.7 | 30 | 0.02 |
| GMP-16S | Weekly | 1 | 7/5/2016 | 0.0 | 0.6 | 20.3 | 79.1 | 30 | 2.12 |
| GMP-16S | Weekly | 1 | 7/11/2016 | 0.0 | 0.1 | 20.3 | 79.6 | 30 | -0.25 |
| GMP-16S | Weekly | 1 | 7/25/2016 | 0.0 | 0.2 | 19.7 | 80.1 | 30 | 0.01 |
| GMP-16S | Weekly | 1 | 8/1/2016 | 0.0 | 0.4 | 20.1 | 79.5 | 30 | 0.00 |
| GMP-16S | Weekly | 1 | 8/8/2016 | 0.0 | 0.2 | 20.3 | 79.5 | 30 | 0.00 |
| GMP-16S | Weekly | 1 | 8/9/2016 | 0.0 | 0.0 | 20.5 | 79.5 | 30 | -0.01 |
| GMP-16S | Weekly | 1 | 8/16/2016 | 0.0 | 0.5 | 21.5 | 78.0 | 30 | 2.48 |
| GMP-16S | Weekly | 1 | 8/22/2016 | 0.0 | 0.0 | 21.1 | 78.9 | 30 | 0.00 |
| GMP-16S | Weekly | 1 | 8/29/2016 | 0.0 | 0.0 | 20.4 | 79.6 | 30 | 0.00 |
| GMP-16S | Weekly | 1 | 9/6/2016 | 0.0 | 0.1 | 21.8 | 78.1 | 30 | 0.00 |
| GMP-16S | Weekly | 1 | 9/12/2016 | 0.0 | 0.1 | 21.9 | 78.0 | 30 | -0.01 |
| GMP-16S | Weekly | 1 | 9/19/2016 | 0.0 | 1.3 | 20.1 | 78.6 | 30 | -0.01 |
| GMP-16S | Weekly | 1 | 9/26/2016 | 0.0 | 0.1 | 21.0 | 78.9 | 30 | 0.00 |
| GMP-15D | Weekly | 2 | 7/5/2016 | 0.0 | 0.4 | 20.6 | 79.0 | 30 | 0.00 |
| GMP-15D | Weekly | 2 | 7/11/2016 | 0.0 | 0.2 | 20.8 | 79.0 | 30 | 0.24 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-15D | Weekly | 2 | 7/25/2016 | 0.0 | 0.3 | 20.0 | 79.7 | 30 | 0.09 |
| GMP-15D | Weekly | 2 | 8/1/2016 | 0.0 | 1.0 | 20.0 | 79.0 | 30 | -0.02 |
| GMP-15D | Weekly | 2 | 8/8/2016 | 0.0 | 0.4 | 20.2 | 79.4 | 30 | NA |
| GMP-15D | Weekly | 2 | 8/9/2016 | 0.0 | 0.1 | 20.1 | 79.8 | 30 | 0.03 |
| GMP-15D | Weekly | 2 | 8/16/2016 | 0.0 | 0.3 | 21.6 | 78.1 | 30 | -0.01 |
| GMP-15D | Weekly | 2 | 8/22/2016 | 0.0 | 0.1 | 21.2 | 78.7 | 30 | 0.01 |
| GMP-15D | Weekly | 2 | 8/29/2016 | 0.0 | 0.0 | 20.3 | 79.7 | 30 | 0.03 |
| GMP-15D | Weekly | 2 | 9/6/2016 | 0.0 | 0.0 | 21.8 | 78.2 | 30 | 0.08 |
| GMP-15D | Weekly | 2 | 9/12/2016 | 0.0 | 0.1 | 21.8 | 78.1 | 30 | 0.07 |
| GMP-15D | Weekly | 2 | 9/19/2016 | 0.0 | 0.1 | 20.7 | 79.2 | 30 | 0.04 |
| GMP-15D | Weekly | 2 | 9/26/2016 | 0.0 | 0.0 | 21.3 | 78.7 | 30 | 0.09 |
| GMP-15S | Weekly | 2 | 7/5/2016 | 0.0 | 0.7 | 20.3 | 79.0 | 30 | 0.00 |
| GMP-15S | Weekly | 2 | 7/11/2016 | 0.0 | 1.3 | 20.6 | 78.1 | 30 | 0.04 |
| GMP-15S | Weekly | 2 | 7/25/2016 | 0.0 | 1.4 | 19.8 | 78.8 | 30 | 0.00 |
| GMP-15S | Weekly | 2 | 8/1/2016 | 0.0 | 2.4 | 19.6 | 78.0 | 30 | 0.00 |
| GMP-15S | Weekly | 2 | 8/8/2016 | 0.0 | 1.2 | 20.1 | 78.7 | 30 | NA |
| GMP-15S | Weekly | 2 | 8/9/2016 | 0.0 | 0.2 | 20.1 | 79.7 | 30 | 0.01 |
| GMP-15S | Weekly | 2 | 8/16/2016 | 0.0 | 0.6 | 21.5 | 77.9 | 30 | 0.00 |
| GMP-15S | Weekly | 2 | 8/22/2016 | 0.0 | 0.3 | 21.1 | 78.6 | 30 | 0.02 |
| GMP-15S | Weekly | 2 | 8/29/2016 | 0.0 | 0.3 | 20.2 | 79.5 | 30 | 0.02 |
| GMP-15S | Weekly | 2 | 9/6/2016 | 0.0 | 0.0 | 21.8 | 78.2 | 30 | 0.03 |
| GMP-15S | Weekly | 2 | 9/12/2016 | 0.0 | 0.3 | 21.8 | 77.9 | 30 | 0.02 |
| GMP-15S | Weekly | 2 | 9/19/2016 | 0.0 | 0.2 | 20.7 | 79.1 | 30 | 0.00 |
| GMP-15S | Weekly | 2 | 9/26/2016 | 0.0 | 0.0 | 21.4 | 78.6 | 30 | 0.02 |
| GMP-4D | Weekly | 3 | 7/5/2016 | 0.4 | 0.4 | 20.2 | 79.0 | 30 | 0.01 |
| GMP-4D | Weekly | 3 | 7/11/2016 | 0.3 | 0.3 | 20.9 | 78.5 | 30 | 0.03 |
| GMP-4D | Weekly | 3 | 7/25/2016 | 0.1 | 0.1 | 19.8 | 80.0 | 30 | 0.01 |
| GMP-4D | Weekly | 3 | 8/1/2016 | 0.3 | 0.3 | 19.6 | 79.8 | 30 | 0.02 |
| GMP-4D | Weekly | 3 | 8/8/2016 | 0.2 | 0.2 | 20.8 | 78.8 | 30 | 0.05 |
| GMP-4D | Weekly | 3 | 8/16/2016 | 0.5 | 1.6 | 21.4 | 76.5 | 30 | 0.02 |
| GMP-4D | Weekly | 3 | 8/22/2016 | 0.2 | 0.1 | 20.4 | 79.3 | 30 | 0.02 |
| GMP-4D | Weekly | 3 | 8/29/2016 | 0.1 | 0.1 | 21.7 | 78.1 | 30 | 0.02 |
| GMP-4D | Weekly | 3 | 9/6/2016 | 0.2 | 0.6 | 21.7 | 77.5 | 30 | 0.03 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-4D | Weekly | 3 | 9/12/2016 | 0.2 | 0.2 | 21.6 | 78.0 | 30 | 0.01 |
| GMP-4D | Weekly | 3 | 9/19/2016 | 0.5 | 0.4 | 20.2 | 78.9 | 30 | 0.00 |
| GMP-4D | Weekly | 3 | 9/26/2016 | 0.3 | 0.3 | 21.0 | 78.4 | 30 | 0.00 |
| GMP-4S | Weekly | 3 | 7/5/2016 | 27.2 | 6.1 | 13.0 | 53.7 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 7/11/2016 | 32.0 | 6.7 | 12.1 | 49.2 | 30 | 0.00 |
| GMP-4S | Weekly | 3 | 7/25/2016 | 36.1 | 8.1 | 10.2 | 45.6 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 8/1/2016 | 39.0 | 9.1 | 9.4 | 42.5 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 8/8/2016 | 35.1 | 8.4 | 11.3 | 45.2 | 30 | 0.02 |
| GMP-4S | Weekly | 3 | 8/16/2016 | 43.9 | 9.2 | 9.4 | 37.5 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 8/22/2016 | 32.0 | 5.2 | 12.2 | 50.6 | 30 | 0.02 |
| GMP-4S | Weekly | 3 | 8/29/2016 | 34.3 | 7.9 | 11.6 | 46.2 | 30 | 0.02 |
| GMP-4S | Weekly | 3 | 9/6/2016 | 33.4 | 7.7 | 11.9 | 47.0 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 9/12/2016 | 25.5 | 3.4 | 14.4 | 56.7 | 30 | 0.01 |
| GMP-4S | Weekly | 3 | 9/19/2016 | 29.0 | 3.3 | 12.8 | 54.9 | 30 | 0.00 |
| GMP-4S | Weekly | 3 | 9/26/2016 | 28.8 | 4.1 | 13.7 | 53.4 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 7/5/2016 | 0.0 | 0.3 | 20.3 | 79.4 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 7/11/2016 | 0.0 | 0.7 | 20.5 | 78.8 | 30 | 0.00 |
| GMP-5D | Weekly | 3 | 7/25/2016 | 0.0 | 0.8 | 19.6 | 79.6 | 30 | 0.02 |
| GMP-5D | Weekly | 3 | 8/1/2016 | 0.1 | 0.7 | 19.8 | 79.4 | 30 | 0.02 |
| GMP-5D | Weekly | 3 | 8/8/2016 | 0.0 | 0.3 | 20.6 | 79.1 | 30 | -0.02 |
| GMP-5D | Weekly | 3 | 8/16/2016 | 0.0 | 0.4 | 21.3 | 78.3 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 8/22/2016 | 0.0 | 0.7 | 20.6 | 78.7 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 8/29/2016 | 0.0 | 0.9 | 20.2 | 78.9 | 30 | 0.00 |
| GMP-5D | Weekly | 3 | 9/6/2016 | 0.4 | 1.5 | 20.7 | 77.4 | 30 | 0.00 |
| GMP-5D | Weekly | 3 | 9/12/2016 | 0.1 | 0.6 | 21.4 | 77.9 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 9/19/2016 | 0.1 | 1.1 | 19.9 | 78.9 | 30 | 0.01 |
| GMP-5D | Weekly | 3 | 9/26/2016 | 0.1 | 1.1 | 20.6 | 78.2 | 30 | 0.05 |
| GMP-5S | Weekly | 3 | 7/5/2016 | 0.1 | 0.5 | 20.3 | 79.1 | 30 | 0.00 |
| GMP-5S | Weekly | 3 | 7/11/2016 | 0.1 | 0.3 | 21.0 | 78.6 | 30 | 0.00 |
| GMP-5S | Weekly | 3 | 7/25/2016 | 0.1 | 1.2 | 19.8 | 78.9 | 30 | 0.01 |
| GMP-5S | Weekly | 3 | 8/1/2016 | 0.4 | 1.9 | 19.6 | 78.1 | 30 | -0.01 |
| GMP-5S | Weekly | 3 | 8/8/2016 | 0.1 | 0.2 | 20.8 | 78.9 | 30 | 0.01 |
| GMP-5S | Weekly | 3 | 8/16/2016 | 0.1 | 0.3 | 21.6 | 78.0 | 30 | 0.02 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-5S | Weekly | 3 | 8/22/2016 | 0.1 | 0.4 | 20.8 | 78.7 | 30 | 0.01 |
| GMP-5S | Weekly | 3 | 8/29/2016 | 0.0 | 0.3 | 20.6 | 79.1 | 30 | 0.01 |
| GMP-5S | Weekly | 3 | 9/6/2016 | 0.1 | 0.2 | 21.9 | 77.8 | 30 | 0.00 |
| GMP-5S | Weekly | 3 | 9/12/2016 | 0.0 | 0.1 | 21.6 | 78.3 | 30 | 0.02 |
| GMP-5S | Weekly | 3 | 9/19/2016 | 0.0 | 0.1 | 20.7 | 79.2 | 30 | 0.00 |
| GMP-5S | Weekly | 3 | 9/26/2016 | 0.0 | 0.3 | 21.4 | 78.3 | 30 | 0.02 |
| GMP-6D | Weekly | 3 | 7/5/2016 | 0.0 | 0.1 | 20.5 | 79.4 | 30 | 0.01 |
| GMP-6D | Weekly | 3 | 7/11/2016 | 0.0 | 0.0 | 21.0 | 79.0 | 30 | 0.02 |
| GMP-6D | Weekly | 3 | 7/25/2016 | 0.0 | 0.2 | 19.9 | 79.9 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 8/1/2016 | 0.0 | 0.2 | 19.9 | 79.9 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 8/8/2016 | 0.0 | 0.1 | 20.7 | 79.2 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 8/16/2016 | 0.2 | 0.8 | 21.4 | 77.6 | 30 | 0.01 |
| GMP-6D | Weekly | 3 | 8/22/2016 | 0.0 | 0.0 | 21.1 | 78.9 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 8/29/2016 | 0.0 | 0.0 | 20.6 | 79.4 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 9/6/2016 | 0.0 | 0.1 | 22.0 | 77.9 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 9/12/2016 | 0.0 | 0.0 | 21.9 | 78.1 | 30 | 0.01 |
| GMP-6D | Weekly | 3 | 9/19/2016 | 0.0 | 0.1 | 20.4 | 79.5 | 30 | 0.00 |
| GMP-6D | Weekly | 3 | 9/26/2016 | 0.0 | 0.0 | 21.6 | 78.4 | 30 | 0.01 |
| GMP-6S | Weekly | 3 | 7/5/2016 | 0.0 | 0.3 | 20.4 | 79.3 | 30 | 0.00 |
| GMP-6S | Weekly | 3 | 7/11/2016 | 0.0 | 0.2 | 20.8 | 79.0 | 30 | 0.01 |
| GMP-6S | Weekly | 3 | 7/25/2016 | 0.0 | 0.5 | 19.7 | 79.8 | 30 | 0.04 |
| GMP-6S | Weekly | 3 | 8/1/2016 | 0.0 | 0.4 | 19.9 | 79.7 | 30 | 0.02 |
| GMP-6S | Weekly | 3 | 8/8/2016 | 0.0 | 0.1 | 20.6 | 79.3 | 30 | 0.00 |
| GMP-6S | Weekly | 3 | 8/16/2016 | 0.4 | 2.9 | 20.9 | 75.8 | 30 | 0.00 |
| GMP-6S | Weekly | 3 | 8/22/2016 | 0.0 | 0.0 | 20.9 | 79.1 | 30 | 0.01 |
| GMP-6S | Weekly | 3 | 8/29/2016 | 0.0 | 0.3 | 20.2 | 79.5 | 30 | 0.01 |
| GMP-6S | Weekly | 3 | 9/6/2016 | 0.0 | 1.0 | 21.3 | 77.7 | 30 | 0.03 |
| GMP-6S | Weekly | 3 | 9/12/2016 | 0.0 | 0.2 | 21.7 | 78.1 | 30 | 0.03 |
| GMP-6S | Weekly | 3 | 9/19/2016 | 0.0 | 0.4 | 20.2 | 79.4 | 30 | 0.02 |
| GMP-6S | Weekly | 3 | 9/26/2016 | 0.0 | 0.7 | 20.9 | 78.4 | 30 | 0.00 |
| GMP-14D | Weekly | 3 | 7/5/2016 | 17.5 | 7.1 | 15.1 | 60.3 | 30 | 0.14 |
| GMP-14D | Weekly | 3 | 7/11/2016 | 34.8 | 16.7 | 9.9 | 38.6 | 30 | 1.18 |
| GMP-14D | Weekly | 3 | 7/25/2016 | 37.7 | 18.5 | 8.1 | 35.7 | 30 | 1.20 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-14D | Weekly | 3 | 8/1/2016 | 37.7 | 19.1 | 8.8 | 34.4 | 30 | 0.93 |
| GMP-14D | Weekly | 3 | 8/8/2016 | 35.7 | 16.2 | 9.9 | 38.2 | 30 | 1.24 |
| GMP-14D | Weekly | 3 | 8/16/2016 | 53.7 | 24.9 | 5.1 | 16.3 | 30 | 0.92 |
| GMP-14D | Weekly | 3 | 8/22/2016 | 38.1 | 17.5 | 9.0 | 35.4 | 30 | 0.98 |
| GMP-14D | Weekly | 3 | 8/29/2016 | 41.7 | 20.0 | 8.2 | 30.1 | 30 | 1.10 |
| GMP-14D | Weekly | 3 | 9/6/2016 | 44.1 | 20.4 | 7.4 | 28.1 | 30 | 1.28 |
| GMP-14D | Weekly | 3 | 9/12/2016 | 28.8 | 13.0 | 12.5 | 45.7 | 30 | 0.61 |
| GMP-14D | Weekly | 3 | 9/19/2016 | 42.7 | 16.4 | 8.1 | 32.8 | 30 | 0.74 |
| GMP-14D | Weekly | 3 | 9/26/2016 | 41.7 | 19.3 | 8.1 | 30.9 | 30 | 0.92 |
| GMP-14S | Weekly | 3 | 7/5/2016 | 9.8 | 2.9 | 17.1 | 70.2 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 7/11/2016 | 15.7 | 6.2 | 15.8 | 62.3 | 30 | 0.01 |
| GMP-14S | Weekly | 3 | 7/25/2016 | 24.2 | 11.0 | 12.1 | 52.7 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 8/1/2016 | 10.3 | 3.9 | 16.1 | 69.7 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 8/8/2016 | 9.7 | 5.0 | 17.0 | 68.3 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 8/16/2016 | 17.6 | 8.0 | 15.1 | 59.3 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 8/22/2016 | 4.3 | 2.3 | 18.5 | 74.9 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 8/29/2016 | 3.5 | 1.7 | 19.7 | 75.1 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 9/6/2016 | 1.4 | 1.1 | 20.5 | 77.0 | 30 | 0.01 |
| GMP-14S | Weekly | 3 | 9/12/2016 | 7.2 | 4.4 | 17.6 | 70.8 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 9/19/2016 | 7.2 | 3.5 | 17.5 | 71.8 | 30 | 0.00 |
| GMP-14S | Weekly | 3 | 9/26/2016 | 3.0 | 1.3 | 19.6 | 76.1 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 7/5/2016 | 0.1 | 0.7 | 20.6 | 78.6 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 7/11/2016 | 0.1 | 0.2 | 21.0 | 78.7 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 7/25/2016 | 0.3 | 0.6 | 20.0 | 79.1 | 30 | -0.01 |
| GMP-01 | Weekly | 4 | 8/1/2016 | 0.1 | 0.3 | 20.0 | 79.6 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 8/8/2016 | 0.0 | 0.1 | 21.1 | 78.8 | 30 | 0.01 |
| GMP-01 | Weekly | 4 | 8/16/2016 | 1.5 | 1.3 | 21.3 | 75.9 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 8/22/2016 | 0.0 | 0.2 | 20.5 | 79.3 | 30 | 0.01 |
| GMP-01 | Weekly | 4 | 8/29/2016 | 0.0 | 0.0 | 22.0 | 78.0 | 30 | 0.00 |
| GMP-01 | Weekly | 4 | 9/6/2016 | 0.0 | 0.3 | 22.2 | 77.5 | 30 | -0.01 |
| GMP-01 | Weekly | 4 | 9/12/2016 | 0.0 | 0.0 | 22.3 | 77.7 | 30 | -0.01 |
| GMP-01 | Weekly | 4 | 9/19/2016 | 0.0 | 0.2 | 21.0 | 78.8 | 30 | 0.01 |
| GMP-01 | Weekly | 4 | 9/26/2016 | 0.0 | 0.2 | 21.7 | 78.1 | 30 | 0.01 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-02 | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 20.9 | 79.1 | 30 | 0.00 |
| GMP-02 | Weekly | 4 | 7/11/2016 | 0.1 | 0.1 | 20.7 | 79.1 | 30 | 0.07 |
| GMP-02 | Weekly | 4 | 7/25/2016 | 0.1 | 0.4 | 20.0 | 79.5 | 30 | 0.00 |
| GMP-02 | Weekly | 4 | 8/1/2016 | 0.0 | 0.4 | 20.0 | 79.6 | 30 | -0.33 |
| GMP-02 | Weekly | 4 | 8/8/2016 | 0.1 | 0.5 | 20.8 | 78.6 | 30 | 0.11 |
| GMP-02 | Weekly | 4 | 8/22/2016 | 0.0 | 0.2 | 20.6 | 79.2 | 30 | 0.10 |
| GMP-02 | Weekly | 4 | 8/29/2016 | 0.0 | 0.2 | 21.2 | 78.6 | 30 | 0.04 |
| GMP-02 | Weekly | 4 | 9/6/2016 | 0.0 | 0.1 | 21.7 | 78.2 | 30 | 0.07 |
| GMP-02 | Weekly | 4 | 9/12/2016 | 0.0 | 0.0 | 22.1 | 77.9 | 30 | 0.11 |
| GMP-02 | Weekly | 4 | 9/19/2016 | 0.0 | 0.1 | 20.2 | 79.7 | 30 | 0.12 |
| GMP-02 | Weekly | 4 | 9/26/2016 | 0.0 | 0.0 | 20.7 | 79.3 | 30 | 0.07 |
| GMP-03 | Weekly | 4 | 7/5/2016 | 38.5 | 56.2 | 0.3 | 5.0 | 30 | 0.67 |
| GMP-03 | Weekly | 4 | 7/11/2016 | 39.9 | 54.1 | 0.2 | 5.8 | 30 | 0.25 |
| GMP-03 | Weekly | 4 | 7/25/2016 | 40.8 | 51.0 | 0.5 | 7.7 | 30 | 0.35 |
| GMP-03 | Weekly | 4 | 8/1/2016 | 40.3 | 53.1 | 0.2 | 6.4 | 30 | 0.26 |
| GMP-03 | Weekly | 4 | 8/8/2016 | 42.4 | 40.5 | 0.1 | 17.0 | 30 | 0.23 |
| GMP-03 | Weekly | 4 | 8/16/2016 | 42.6 | 49.9 | 0.1 | 7.4 | 30 | 0.25 |
| GMP-03 | Weekly | 4 | 8/22/2016 | 41.8 | 52.0 | 0.2 | 6.0 | 30 | 0.18 |
| GMP-03 | Weekly | 4 | 8/29/2016 | 40.8 | 50.7 | 0.0 | 8.5 | 30 | 0.16 |
| GMP-03 | Weekly | 4 | 9/6/2016 | 39.3 | 52.3 | 0.0 | 8.4 | 30 | 0.18 |
| GMP-03 | Weekly | 4 | 9/9/2016 | 40.0 | 44.1 | 0.0 | 15.9 | 30 | 0.22 |
| GMP-03 | Weekly | 4 | 9/10/2016 | 39.5 | 53.1 | 0.0 | 7.4 | 30 | 0.23 |
| GMP-03 | Weekly | 4 | 9/11/2016 | 40.5 | 51.7 | 0.0 | 7.8 | 30 | 0.15 |
| GMP-03 | Weekly | 4 | 9/12/2016 | 40.2 | 51.4 | 0.0 | 8.4 | 30 | 0.15 |
| GMP-03 | Weekly | 4 | 9/13/2016 | 40.1 | 52.9 | 0.0 | 7.0 | 30 | 0.15 |
| GMP-03 | Weekly | 4 | 9/14/2016 | 40.2 | 51.9 | 0.0 | 7.9 | 30 | 0.17 |
| GMP-03 | Weekly | 4 | 9/19/2016 | 40.2 | 53.0 | 0.0 | 6.8 | 30 | 0.20 |
| GMP-03 | Weekly | 4 | 9/26/2016 | 41.5 | 51.2 | 0.0 | 7.3 | 30 | 0.22 |
| GMP-13D | Weekly | 4 | 7/5/2016 | 0.0 | 0.5 | 20.4 | 79.1 | 30 | 0.09 |
| GMP-13D | Weekly | 4 | 7/11/2016 | 0.1 | 0.8 | 20.9 | 78.2 | 30 | 0.07 |
| GMP-13D | Weekly | 4 | 7/25/2016 | 0.0 | 0.3 | 19.7 | 80.0 | 30 | 0.09 |
| GMP-13D | Weekly | 4 | 8/1/2016 | 0.1 | 2.0 | 19.5 | 78.4 | 30 | 0.03 |
| GMP-13D | Weekly | 4 | 8/8/2016 | 0.0 | 0.4 | 20.8 | 78.8 | 30 | 0.05 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-13D | Weekly | 4 | 8/16/2016 | 0.1 | 3.1 | 21.3 | 75.5 | 30 | 0.03 |
| GMP-13D | Weekly | 4 | 8/22/2016 | 0.0 | 0.3 | 20.4 | 79.3 | 30 | 0.02 |
| GMP-13D | Weekly | 4 | 8/29/2016 | 0.0 | 1.5 | 21.5 | 77.0 | 30 | 0.02 |
| GMP-13D | Weekly | 4 | 9/6/2016 | 0.0 | 1.3 | 21.9 | 76.8 | 30 | 0.03 |
| GMP-13D | Weekly | 4 | 9/12/2016 | 0.0 | 0.4 | 22.2 | 77.4 | 30 | 0.02 |
| GMP-13D | Weekly | 4 | 9/19/2016 | 0.0 | 0.2 | 20.6 | 79.2 | 30 | 0.02 |
| GMP-13D | Weekly | 4 | 9/26/2016 | 0.0 | 0.7 | 21.4 | 77.9 | 30 | 0.03 |
| GMP-13S | Weekly | 4 | 7/5/2016 | 0.1 | 4.0 | 17.0 | 78.9 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 7/11/2016 | 0.2 | 5.1 | 17.2 | 77.5 | 30 | 0.01 |
| GMP-13S | Weekly | 4 | 7/25/2016 | 0.2 | 7.0 | 13.7 | 79.1 | 30 | 0.03 |
| GMP-13S | Weekly | 4 | 8/1/2016 | 0.1 | 3.5 | 14.9 | 81.5 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 8/8/2016 | 0.1 | 4.0 | 15.6 | 80.3 | 30 | 0.02 |
| GMP-13S | Weekly | 4 | 8/16/2016 | 0.3 | 7.6 | 15.8 | 76.3 | 30 | -0.01 |
| GMP-13S | Weekly | 4 | 8/22/2016 | 0.0 | 2.9 | 15.2 | 81.9 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 8/29/2016 | 0.0 | 3.1 | 16.3 | 80.6 | 30 | 0.01 |
| GMP-13S | Weekly | 4 | 9/6/2016 | 0.1 | 6.0 | 16.2 | 77.7 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 9/12/2016 | 0.1 | 5.1 | 15.7 | 79.1 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 9/19/2016 | 0.1 | 4.3 | 15.1 | 80.5 | 30 | 0.00 |
| GMP-13S | Weekly | 4 | 9/26/2016 | 0.1 | 5.7 | 15.4 | 78.8 | 30 | 0.00 |

TABLE 3

SENTRY GAS MONITORING PROBE DATA

JUNE 28 – SEPTEMBER 26, 2016

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-06 | Quarterly | 1 | 7/5/2016 | 0.0 | 2.8 | 20.1 | 77.1 | 30 | 0.00 |
| GMP-07 | Quarterly | 1 | 7/5/2016 | 0.0 | 5.9 | 15.5 | 78.6 | 30 | 0.01 |
| GMP-05 | Quarterly | 3 | 7/5/2016 | 34.2 | 20.7 | 8.9 | 36.2 | 30 | 5.13 |

TABLE 4

INVESTIGATIVE GAS MONITORING PROBE DATA

JUNE 28 – SEPTEMBER 26, 2016

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| TMP-1D | Weekly | 4 | 7/5/2016 | 0.1 | 0.8 | 20.8 | 78.3 | 30 | 0.02 |
| TMP-1D | Weekly | 4 | 7/11/2016 | 0.1 | 0.2 | 21.0 | 78.7 | 30 | 0.02 |
| TMP-1D | Weekly | 4 | 7/25/2016 | 0.2 | 0.3 | 20.1 | 79.4 | 30 | 0.48 |
| TMP-1D | Weekly | 4 | 8/1/2016 | 0.3 | 0.4 | 20.1 | 79.2 | 30 | 0.02 |
| TMP-1D | Weekly | 4 | 8/8/2016 | 0.1 | 0.1 | 21.2 | 78.6 | 30 | 0.56 |
| TMP-1D | Weekly | 4 | 8/16/2016 | 0.4 | 0.6 | 21.7 | 77.3 | 30 | 0.17 |
| TMP-1D | Weekly | 4 | 8/22/2016 | 0.1 | 0.2 | 20.6 | 79.1 | 30 | 0.16 |
| TMP-1D | Weekly | 4 | 8/29/2016 | 0.0 | 0.0 | 22.0 | 78.0 | 30 | 0.01 |
| TMP-1D | Weekly | 4 | 9/6/2016 | 0.1 | 0.2 | 22.0 | 77.7 | 30 | 0.01 |
| TMP-1D | Weekly | 4 | 9/12/2016 | 0.1 | 0.1 | 22.3 | 77.5 | 30 | 0.19 |
| TMP-1D | Weekly | 4 | 9/19/2016 | 0.2 | 0.4 | 21.2 | 78.2 | 30 | 0.89 |
| TMP-1D | Weekly | 4 | 9/26/2016 | 0.1 | 0.4 | 21.6 | 77.9 | 30 | 0.13 |
| TMP-1M | Weekly | 4 | 7/5/2016 | 0.3 | 2.3 | 20.5 | 76.9 | 30 | 0.00 |
| TMP-1M | Weekly | 4 | 7/11/2016 | 0.1 | 0.3 | 21.1 | 78.5 | 30 | -0.02 |
| TMP-1M | Weekly | 4 | 7/25/2016 | 0.2 | 0.8 | 20.1 | 78.9 | 30 | 0.02 |
| TMP-1M | Weekly | 4 | 8/1/2016 | 0.6 | 0.5 | 20.1 | 78.8 | 30 | 0.00 |
| TMP-1M | Weekly | 4 | 8/8/2016 | 0.1 | 0.4 | 21.1 | 78.4 | 30 | -0.01 |
| TMP-1M | Weekly | 4 | 8/16/2016 | 0.5 | 3.0 | 21.1 | 75.4 | 30 | -0.04 |
| TMP-1M | Weekly | 4 | 8/22/2016 | 0.3 | 0.3 | 20.7 | 78.7 | 30 | -0.01 |
| TMP-1M | Weekly | 4 | 8/29/2016 | 0.1 | 0.2 | 22.0 | 77.7 | 30 | -0.03 |
| TMP-1M | Weekly | 4 | 9/6/2016 | 0.1 | 0.4 | 22.0 | 77.5 | 30 | -0.04 |
| TMP-1M | Weekly | 4 | 9/12/2016 | 0.1 | 0.3 | 22.2 | 77.4 | 30 | -0.03 |
| TMP-1M | Weekly | 4 | 9/19/2016 | 0.3 | 1.0 | 21.2 | 77.5 | 30 | -0.01 |
| TMP-1M | Weekly | 4 | 9/26/2016 | 0.2 | 1.2 | 21.4 | 77.2 | 30 | -0.03 |
| TMP-1S | Weekly | 4 | 7/5/2016 | 25.9 | 25.3 | 10.1 | 38.7 | 30 | 0.22 |
| TMP-1S | Weekly | 4 | 7/11/2016 | 50.9 | 45.3 | 0.0 | 3.8 | 30 | 0.55 |
| TMP-1S | Weekly | 4 | 7/25/2016 | 51.6 | 44.4 | 0.1 | 3.9 | 30 | 1.87 |
| TMP-1S | Weekly | 4 | 8/1/2016 | 53.8 | 42.9 | 0.1 | 3.2 | 30 | 0.34 |
| TMP-1S | Weekly | 4 | 8/8/2016 | 53.9 | 34.7 | 0.0 | 11.4 | 30 | 0.31 |
| TMP-1S | Weekly | 4 | 8/16/2016 | 52.7 | 41.6 | 0.0 | 5.7 | 30 | 1.64 |
| TMP-1S | Weekly | 4 | 8/22/2016 | 53.4 | 44.0 | 0.0 | 2.6 | 30 | 0.24 |
| TMP-1S | Weekly | 4 | 8/29/2016 | 52.5 | 42.3 | 0.0 | 5.2 | 30 | 0.12 |
| TMP-1S | Weekly | 4 | 9/6/2016 | 51.6 | 43.2 | 0.0 | 5.2 | 30 | 0.10 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| TMP-1S | Weekly | 4 | 9/12/2016 | 51.3 | 43.3 | 0.0 | 5.4 | 30 | 0.50 |
| TMP-1S | Weekly | 4 | 9/19/2016 | 51.5 | 45.1 | 0.0 | 3.4 | 30 | 0.59 |
| TMP-1S | Weekly | 4 | 9/26/2016 | 52.4 | 44.4 | 0.0 | 3.2 | 30 | 0.19 |
| TMP-2D | Weekly | 4 | 7/5/2016 | 0.1 | 1.8 | 19.9 | 78.2 | 30 | 0.00 |
| TMP-2D | Weekly | 4 | 7/11/2016 | 0.3 | 0.4 | 20.9 | 78.4 | 30 | 0.02 |
| TMP-2D | Weekly | 4 | 7/25/2016 | 0.2 | 0.4 | 20.0 | 79.4 | 30 | 0.07 |
| TMP-2D | Weekly | 4 | 8/1/2016 | 0.1 | 0.2 | 20.1 | 79.6 | 30 | 0.04 |
| TMP-2D | Weekly | 4 | 8/8/2016 | 0.3 | 0.6 | 20.9 | 78.2 | 30 | 0.04 |
| TMP-2D | Weekly | 4 | 8/16/2016 | 0.5 | 1.0 | 21.7 | 76.8 | 30 | 0.03 |
| TMP-2D | Weekly | 4 | 8/22/2016 | 0.1 | 0.1 | 20.7 | 79.1 | 30 | 0.05 |
| TMP-2D | Weekly | 4 | 8/29/2016 | 0.3 | 0.2 | 21.9 | 77.6 | 30 | 0.00 |
| TMP-2D | Weekly | 4 | 9/6/2016 | 0.3 | 0.3 | 21.7 | 77.7 | 30 | 0.08 |
| TMP-2D | Weekly | 4 | 9/12/2016 | 0.3 | 0.3 | 22.4 | 77.0 | 30 | 0.05 |
| TMP-2D | Weekly | 4 | 9/19/2016 | 0.4 | 0.3 | 20.8 | 78.5 | 30 | 0.06 |
| TMP-2D | Weekly | 4 | 9/26/2016 | 0.4 | 0.6 | 21.5 | 77.5 | 30 | 0.06 |
| TMP-2M | Weekly | 4 | 7/5/2016 | 0.2 | 1.7 | 20.0 | 78.1 | 30 | 0.00 |
| TMP-2M | Weekly | 4 | 7/11/2016 | 0.1 | 0.8 | 20.8 | 78.3 | 30 | -0.05 |
| TMP-2M | Weekly | 4 | 7/25/2016 | 0.1 | 0.9 | 19.9 | 79.1 | 30 | 0.03 |
| TMP-2M | Weekly | 4 | 8/1/2016 | 0.1 | 0.7 | 19.9 | 79.3 | 30 | 0.07 |
| TMP-2M | Weekly | 4 | 8/8/2016 | 0.1 | 0.7 | 21.0 | 78.2 | 30 | 0.02 |
| TMP-2M | Weekly | 4 | 8/16/2016 | 0.3 | 4.4 | 21.1 | 74.2 | 30 | 0.00 |
| TMP-2M | Weekly | 4 | 8/22/2016 | 0.1 | 0.1 | 20.7 | 79.1 | 30 | 0.02 |
| TMP-2M | Weekly | 4 | 8/29/2016 | 0.1 | 0.2 | 21.9 | 77.8 | 30 | 0.00 |
| TMP-2M | Weekly | 4 | 9/6/2016 | 0.1 | 0.3 | 21.8 | 77.8 | 30 | 0.03 |
| TMP-2M | Weekly | 4 | 9/12/2016 | 0.1 | 0.5 | 22.3 | 77.1 | 30 | -0.01 |
| TMP-2M | Weekly | 4 | 9/19/2016 | 0.1 | 0.8 | 20.7 | 78.4 | 30 | -0.94 |
| TMP-2M | Weekly | 4 | 9/26/2016 | 0.2 | 2.6 | 21.1 | 76.1 | 30 | -0.03 |
| TMP-2S | Weekly | 4 | 7/5/2016 | 10.6 | 9.3 | 16.0 | 64.1 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 7/11/2016 | 45.5 | 43.9 | 0.2 | 10.4 | 30 | 0.01 |
| TMP-2S | Weekly | 4 | 7/25/2016 | 33.3 | 24.0 | 0.1 | 42.6 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 8/1/2016 | 49.8 | 37.7 | 0.1 | 12.4 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 8/8/2016 | 50.1 | 34.4 | 0.1 | 15.4 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 8/16/2016 | 34.5 | 27.6 | 3.4 | 34.5 | 30 | 0.01 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| TMP-2S | Weekly | 4 | 8/22/2016 | 46.2 | 40.6 | 0.5 | 12.7 | 30 | 0.01 |
| TMP-2S | Weekly | 4 | 8/29/2016 | 46.7 | 42.7 | 0.1 | 10.5 | 30 | 0.01 |
| TMP-2S | Weekly | 4 | 9/6/2016 | 46.5 | 45.5 | 0.0 | 8.0 | 30 | 0.01 |
| TMP-2S | Weekly | 4 | 9/12/2016 | 48.5 | 42.9 | 0.0 | 8.6 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 9/19/2016 | 48.4 | 45.5 | 0.0 | 6.1 | 30 | 0.00 |
| TMP-2S | Weekly | 4 | 9/26/2016 | 49.7 | 44.1 | 0.0 | 6.2 | 30 | 0.00 |
| TMP-3D | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 21.0 | 79.0 | 30 | -0.25 |
| TMP-3D | Weekly | 4 | 7/11/2016 | 0.2 | 0.2 | 20.6 | 79.0 | 30 | 0.83 |
| TMP-3D | Weekly | 4 | 7/25/2016 | 0.1 | 0.6 | 20.1 | 79.2 | 30 | 0.16 |
| TMP-3D | Weekly | 4 | 8/1/2016 | 0.2 | 0.6 | 20.0 | 79.2 | 30 | 0.07 |
| TMP-3D | Weekly | 4 | 8/8/2016 | 0.0 | 0.6 | 21.0 | 78.4 | 30 | -2.37 |
| TMP-3D | Weekly | 4 | 8/16/2016 | 0.3 | 3.5 | 21.2 | 75.0 | 30 | -3.28 |
| TMP-3D | Weekly | 4 | 8/22/2016 | 0.0 | 0.1 | 20.8 | 79.1 | 30 | 1.32 |
| TMP-3D | Weekly | 4 | 8/29/2016 | 0.1 | 0.1 | 21.6 | 78.2 | 30 | -2.84 |
| TMP-3D | Weekly | 4 | 9/6/2016 | 0.0 | 0.1 | 22.0 | 77.9 | 30 | -3.37 |
| TMP-3D | Weekly | 4 | 9/8/2016 | 0.6 | 1.7 | 22.0 | 75.7 | 30 | 0.10 |
| TMP-3D | Weekly | 4 | 9/12/2016 | 0.1 | 0.1 | 22.1 | 77.7 | 30 | -4.19 |
| TMP-3D | Weekly | 4 | 9/19/2016 | 0.1 | 0.4 | 21.0 | 78.5 | 30 | -1.87 |
| TMP-3D | Weekly | 4 | 9/26/2016 | 0.1 | 0.4 | 21.5 | 78.0 | 30 | -3.67 |
| TMP-3M | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 21.0 | 79.0 | 30 | 0.01 |
| TMP-3M | Weekly | 4 | 7/11/2016 | 5.4 | 3.5 | 18.6 | 72.5 | 30 | -0.47 |
| TMP-3M | Weekly | 4 | 7/25/2016 | 1.4 | 2.6 | 19.5 | 76.5 | 30 | 1.95 |
| TMP-3M | Weekly | 4 | 8/1/2016 | 1.1 | 1.3 | 19.7 | 77.9 | 30 | -3.85 |
| TMP-3M | Weekly | 4 | 8/8/2016 | 2.2 | 2.0 | 20.2 | 75.6 | 30 | -0.02 |
| TMP-3M | Weekly | 4 | 8/16/2016 | 14.2 | 12.0 | 15.6 | 58.2 | 30 | 0.04 |
| TMP-3M | Weekly | 4 | 8/22/2016 | 3.7 | 2.3 | 19.5 | 74.5 | 30 | -0.11 |
| TMP-3M | Weekly | 4 | 8/29/2016 | 11.1 | 7.7 | 17.7 | 63.5 | 30 | 0.03 |
| TMP-3M | Weekly | 4 | 9/6/2016 | 16.9 | 12.5 | 15.7 | 54.9 | 30 | 0.13 |
| TMP-3M | Weekly | 4 | 9/8/2016 | 16.0 | 12.9 | 16.6 | 54.5 | 30 | -0.58 |
| TMP-3M | Weekly | 4 | 9/12/2016 | 0.0 | 0.0 | 19.5 | 80.5 | 30 | 0.05 |
| TMP-3M | Weekly | 4 | 9/19/2016 | 35.5 | 23.4 | 8.4 | 32.7 | 30 | -0.08 |
| TMP-3M | Weekly | 4 | 9/26/2016 | 40.1 | 25.7 | 6.8 | 27.4 | 30 | 0.01 |
| TMP-3S | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 21.0 | 79.0 | 30 | -0.74 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| TMP-3S | Weekly | 4 | 7/11/2016 | 0.1 | 0.1 | 20.9 | 78.9 | 30 | -1.49 |
| TMP-3S | Weekly | 4 | 7/25/2016 | 49.3 | 41.4 | 0.5 | 8.8 | 30 | -2.11 |
| TMP-3S | Weekly | 4 | 8/1/2016 | 49.7 | 45.9 | 0.1 | 4.3 | 30 | 3.96 |
| TMP-3S | Weekly | 4 | 8/8/2016 | 1.4 | 0.1 | 20.3 | 78.2 | 30 | -3.28 |
| TMP-3S | Weekly | 4 | 8/16/2016 | 52.4 | 41.8 | 0.0 | 5.8 | 30 | -0.93 |
| TMP-3S | Weekly | 4 | 8/22/2016 | 47.3 | 46.3 | 0.7 | 5.7 | 30 | 0.49 |
| TMP-3S | Weekly | 4 | 8/29/2016 | 35.8 | 34.2 | 5.1 | 24.9 | 30 | 7.41 |
| TMP-3S | Weekly | 4 | 9/6/2016 | 0.0 | 0.1 | 22.1 | 77.8 | 30 | 1.97 |
| TMP-3S | Weekly | 4 | 9/8/2016 | 44.2 | 21.7 | 6.0 | 28.1 | 30 | -0.79 |
| TMP-3S | Weekly | 4 | 9/12/2016 | 3.4 | 0.1 | 18.3 | 78.2 | 30 | -0.38 |
| TMP-3S | Weekly | 4 | 9/19/2016 | 1.4 | 0.1 | 20.4 | 78.1 | 30 | -0.78 |
| TMP-3S | Weekly | 4 | 9/26/2016 | 47.6 | 23.8 | 5.4 | 23.2 | 30 | -0.43 |

TABLE 5

PUBLIC SAFETY GAS MONITORING PROBE DATA

JUNE 28 – SEPTEMBER 26, 2016

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| 4ASS | Weekly | 4 | 7/5/2016 | 0.4 | 0.0 | 20.0 | 79.6 | 30 | -0.02 |
| 4ASS | Weekly | 4 | 7/11/2016 | 0.7 | 0.6 | 19.9 | 78.8 | 30 | 0.43 |
| 4ASS | Weekly | 4 | 7/25/2016 | 1.3 | 1.8 | 17.8 | 79.1 | 30 | -0.18 |
| 4ASS | Weekly | 4 | 8/1/2016 | 13.5 | 8.1 | 12.6 | 65.8 | 30 | 1.41 |
| 4ASS | Weekly | 4 | 8/1/2016 | 4.5 | 2.2 | 17.9 | 75.4 | 30 | -0.38 |
| 4ASS | Weekly | 4 | 8/2/2016 | 1.9 | 1.1 | 20.1 | 76.9 | 30 | -1.79 |
| 4ASS | Weekly | 4 | 8/3/2016 | 1.5 | 0.7 | 20.4 | 77.4 | 30 | 0.21 |
| 4ASS | Weekly | 4 | 8/4/2016 | 0.9 | 0.4 | 20.8 | 77.9 | 30 | 0.07 |
| 4ASS | Weekly | 4 | 8/5/2016 | 7.4 | 2.8 | 18.6 | 71.2 | 30 | 0.22 |
| 4ASS | Weekly | 4 | 8/6/2016 | 4.6 | 1.9 | 19.5 | 74.0 | 30 | NA |
| 4ASS | Weekly | 4 | 8/7/2016 | 3.3 | 1.7 | 18.9 | 76.1 | 30 | NA |
| 4ASS | Weekly | 4 | 8/8/2016 | 1.4 | 0.8 | 20.0 | 77.8 | 30 | -0.27 |
| 4ASS | Weekly | 4 | 8/9/2016 | 0.6 | 0.4 | 19.7 | 79.3 | 30 | -0.23 |
| 4ASS | Weekly | 4 | 8/10/2016 | 0.2 | 0.3 | 20.5 | 79.0 | 30 | -0.26 |
| 4ASS | Weekly | 4 | 8/11/2016 | 0.1 | 0.3 | 19.9 | 79.7 | 30 | -0.20 |
| 4ASS | Weekly | 4 | 8/12/2016 | 0.0 | 0.3 | 19.9 | 79.8 | 30 | -0.01 |
| 4ASS | Weekly | 4 | 8/16/2016 | 0.0 | 1.0 | 19.4 | 79.6 | 30 | -1.54 |
| 4ASS | Weekly | 4 | 8/22/2016 | 0.0 | 0.6 | 19.2 | 80.2 | 30 | -0.20 |
| 4ASS | Weekly | 4 | 8/29/2016 | 0.1 | 2.6 | 18.5 | 78.8 | 30 | 0.17 |
| 4ASS | Weekly | 4 | 9/6/2016 | 13.5 | 7.3 | 17.0 | 62.2 | 30 | 0.14 |
| 4ASS | Weekly | 4 | 9/7/2016 | 2.3 | 0.9 | 19.7 | 77.1 | 30 | -0.01 |
| 4ASS | Weekly | 4 | 9/8/2016 | 6.4 | 4.1 | 20.2 | 69.3 | 30 | 2.85 |
| 4ASS | Weekly | 4 | 9/9/2016 | 11.6 | 6.4 | 16.8 | 65.2 | 30 | -1.42 |
| 4ASS | Weekly | 4 | 9/10/2016 | 0.4 | 0.1 | 21.8 | 77.7 | 30 | 5.51 |
| 4ASS | Weekly | 4 | 9/11/2016 | 2.4 | 0.7 | 21.2 | 75.7 | 30 | 4.39 |
| 4ASS | Weekly | 4 | 9/12/2016 | 1.8 | 0.5 | 21.8 | 75.9 | 30 | -0.52 |
| 4ASS | Weekly | 4 | 9/13/2016 | 0.6 | 1.3 | 21.3 | 76.8 | 30 | -0.06 |
| 4ASS | Weekly | 4 | 9/14/2016 | 0.3 | 0.4 | 21.9 | 77.4 | 30 | -0.01 |
| 4ASS | Weekly | 4 | 9/15/2016 | 0.9 | 0.6 | 21.4 | 77.1 | 30 | -0.47 |
| 4ASS | Weekly | 4 | 9/16/2016 | 1.2 | 1.0 | 19.7 | 78.1 | 30 | -0.73 |
| 4ASS | Weekly | 4 | 9/19/2016 | 2.4 | 1.5 | 19.2 | 76.9 | 30 | -2.58 |
| 4ASS | Weekly | 4 | 9/26/2016 | 0.5 | 6.1 | 7.8 | 85.6 | 30 | -7.29 |
| 4OSS | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 20.3 | 79.7 | 30 | 1.13 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| 4OSS | Weekly | 4 | 7/11/2016 | 0.0 | 0.1 | 21.0 | 78.9 | 30 | 0.06 |
| 4OSS | Weekly | 4 | 7/25/2016 | 0.0 | 0.5 | 20.0 | 79.5 | 30 | 0.15 |
| 4OSS | Weekly | 4 | 8/1/2016 | 0.0 | 0.4 | 20.1 | 79.5 | 30 | -0.07 |
| 4OSS | Weekly | 4 | 8/3/2016 | 0.0 | 0.3 | 21.4 | 78.3 | 30 | -0.23 |
| 4OSS | Weekly | 4 | 8/8/2016 | 0.0 | 0.2 | 21.1 | 78.7 | 30 | -0.80 |
| 4OSS | Weekly | 4 | 8/13/2016 | 0.0 | 0.9 | 20.1 | 79.0 | 30 | 1.62 |
| 4OSS | Weekly | 4 | 8/16/2016 | 0.0 | 1.1 | 21.5 | 77.4 | 30 | -1.99 |
| 4OSS | Weekly | 4 | 8/22/2016 | 0.0 | 0.1 | 20.6 | 79.3 | 30 | 3.59 |
| 4OSS | Weekly | 4 | 8/29/2016 | 0.0 | 0.8 | 21.5 | 77.7 | 30 | 0.05 |
| 4OSS | Weekly | 4 | 9/6/2016 | 0.0 | 0.5 | 21.8 | 77.7 | 30 | -0.77 |
| 4OSS | Weekly | 4 | 9/12/2016 | 0.0 | 0.2 | 22.3 | 77.5 | 30 | -0.49 |
| 4OSS | Weekly | 4 | 9/19/2016 | 0.0 | 0.5 | 20.7 | 78.8 | 30 | 0.76 |
| 4OSS | Weekly | 4 | 9/26/2016 | 0.0 | 4.2 | 20.4 | 75.4 | 30 | -2.55 |
| GMP-09 | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 20.4 | 79.6 | 30 | 0.00 |
| GMP-09 | Weekly | 4 | 7/11/2016 | 0.0 | 0.1 | 20.9 | 79.0 | 30 | 0.01 |
| GMP-09 | Weekly | 4 | 7/25/2016 | 0.2 | 0.3 | 19.8 | 79.7 | 30 | -0.02 |
| GMP-09 | Weekly | 4 | 8/1/2016 | 0.0 | 0.1 | 20.1 | 79.8 | 30 | -0.01 |
| GMP-09 | Weekly | 4 | 8/8/2016 | 0.0 | 0.0 | 21.1 | 78.9 | 30 | 0.01 |
| GMP-09 | Weekly | 4 | 8/16/2016 | 0.1 | 0.5 | 21.8 | 77.6 | 30 | 0.03 |
| GMP-09 | Weekly | 4 | 8/22/2016 | 0.0 | 0.1 | 20.7 | 79.2 | 30 | -0.69 |
| GMP-09 | Weekly | 4 | 8/29/2016 | 0.0 | 0.1 | 21.6 | 78.3 | 30 | 0.06 |
| GMP-09 | Weekly | 4 | 9/6/2016 | 0.0 | 0.2 | 21.8 | 78.0 | 30 | -0.01 |
| GMP-09 | Weekly | 4 | 9/12/2016 | 0.0 | 0.3 | 22.3 | 77.4 | 30 | -0.02 |
| GMP-09 | Weekly | 4 | 9/19/2016 | 0.0 | 0.4 | 20.6 | 79.0 | 30 | 0.00 |
| GMP-09 | Weekly | 4 | 9/26/2016 | 0.0 | 0.4 | 21.4 | 78.2 | 30 | 0.01 |
| GMP-10 | Weekly | 4 | 7/5/2016 | 0.0 | 0.1 | 18.7 | 81.2 | 30 | -1.80 |
| GMP-10 | Weekly | 4 | 7/11/2016 | 0.1 | 0.1 | 14.9 | 84.9 | 30 | 0.26 |
| GMP-10 | Weekly | 4 | 7/25/2016 | 0.8 | 0.2 | 11.9 | 87.1 | 30 | 3.92 |
| GMP-10 | Weekly | 4 | 8/1/2016 | 11.6 | 0.6 | 16.1 | 71.7 | 30 | 0.00 |
| GMP-10 | Weekly | 4 | 8/2/2016 | 4.8 | 1.4 | 12.6 | 81.2 | 30 | -6.74 |
| GMP-10 | Weekly | 4 | 8/3/2016 | 0.2 | 4.3 | 15.4 | 80.1 | 30 | -0.29 |
| GMP-10 | Weekly | 4 | 8/4/2016 | 0.0 | 0.7 | 17.4 | 81.9 | 30 | -2.60 |
| GMP-10 | Weekly | 4 | 8/5/2016 | 0.0 | 2.5 | 16.5 | 81.0 | 30 | -7.94 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-10 | Weekly | 4 | 8/6/2016 | 0.0 | 0.0 | 21.4 | 78.6 | 30 | NA |
| GMP-10 | Weekly | 4 | 8/7/2016 | 1.3 | 4.2 | 17.6 | 76.9 | 30 | 0.04 |
| GMP-10 | Weekly | 4 | 8/8/2016 | 0.5 | 2.2 | 18.9 | 78.4 | 30 | -7.40 |
| GMP-10 | Weekly | 4 | 8/9/2016 | 0.2 | 0.4 | 19.7 | 79.7 | 30 | 1.82 |
| GMP-10 | Weekly | 4 | 8/10/2016 | 0.3 | 0.9 | 20.3 | 78.5 | 30 | 0.12 |
| GMP-10 | Weekly | 4 | 8/11/2016 | 0.2 | 0.1 | 19.6 | 80.1 | 30 | 0.05 |
| GMP-10 | Weekly | 4 | 8/12/2016 | 0.3 | 0.2 | 19.8 | 79.7 | 30 | 0.02 |
| GMP-10 | Weekly | 4 | 8/16/2016 | 1.8 | 0.4 | 21.2 | 76.6 | 30 | 6.37 |
| GMP-10 | Weekly | 4 | 8/22/2016 | 0.2 | 0.1 | 20.3 | 79.4 | 30 | 0.14 |
| GMP-10 | Weekly | 4 | 8/29/2016 | 0.5 | 0.2 | 21.3 | 78.0 | 30 | 0.02 |
| GMP-10 | Weekly | 4 | 9/6/2016 | 0.5 | 0.4 | 21.7 | 77.4 | 30 | 1.63 |
| GMP-10 | Weekly | 4 | 9/12/2016 | 1.4 | 1.0 | 21.6 | 76.0 | 30 | 8.08 |
| GMP-10 | Weekly | 4 | 9/19/2016 | 0.5 | 0.4 | 20.1 | 79.0 | 30 | -6.37 |
| GMP-10 | Weekly | 4 | 9/26/2016 | 0.1 | 0.0 | 21.0 | 78.9 | 30 | -4.26 |
| GMP-11 | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 20.3 | 79.7 | 30 | 0.01 |
| GMP-11 | Weekly | 4 | 7/11/2016 | 0.2 | 0.1 | 20.8 | 78.9 | 30 | 0.00 |
| GMP-11 | Weekly | 4 | 7/25/2016 | 0.1 | 0.3 | 20.0 | 79.6 | 30 | 0.03 |
| GMP-11 | Weekly | 4 | 8/1/2016 | 0.0 | 0.0 | 19.5 | 80.5 | 30 | 0.00 |
| GMP-11 | Weekly | 4 | 8/8/2016 | 0.0 | 0.0 | 21.2 | 78.8 | 30 | 0.01 |
| GMP-11 | Weekly | 4 | 8/16/2016 | 0.1 | 0.6 | 21.8 | 77.5 | 30 | 0.02 |
| GMP-11 | Weekly | 4 | 8/22/2016 | 0.0 | 0.1 | 20.2 | 79.7 | 30 | 0.02 |
| GMP-11 | Weekly | 4 | 8/29/2016 | 0.0 | 0.1 | 21.6 | 78.3 | 30 | 0.00 |
| GMP-11 | Weekly | 4 | 9/6/2016 | 0.0 | 0.1 | 21.9 | 78.0 | 30 | 0.01 |
| GMP-11 | Weekly | 4 | 9/12/2016 | 0.0 | 0.1 | 22.4 | 77.5 | 30 | -0.17 |
| GMP-11 | Weekly | 4 | 9/19/2016 | 0.0 | 0.1 | 21.1 | 78.8 | 30 | 0.00 |
| GMP-11 | Weekly | 4 | 9/26/2016 | 0.0 | 0.1 | 21.5 | 78.4 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 7/5/2016 | 0.0 | 0.0 | 20.2 | 79.8 | 30 | 0.04 |
| GMP-12 | Weekly | 4 | 7/11/2016 | 0.2 | 0.1 | 20.8 | 78.9 | 30 | 0.01 |
| GMP-12 | Weekly | 4 | 7/25/2016 | 0.1 | 0.3 | 19.8 | 79.8 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 8/1/2016 | 0.0 | 0.0 | 19.3 | 80.7 | 30 | 0.01 |
| GMP-12 | Weekly | 4 | 8/8/2016 | 0.0 | 0.0 | 21.2 | 78.8 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 8/16/2016 | 0.0 | 0.2 | 22.0 | 77.8 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 8/22/2016 | 0.0 | 0.0 | 20.8 | 79.2 | 30 | 0.00 |

| Point Name | Frequency | Quadrant | Date | CH ₄ (%) | CO ₂ (%) | O ₂ (%) | Balance Gas (%) | Barometric Pressure | Relative Pressure |
|------------|-----------|----------|-----------|---------------------|---------------------|--------------------|-----------------|---------------------|-------------------|
| GMP-12 | Weekly | 4 | 8/29/2016 | 0.0 | 0.0 | 21.7 | 78.3 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 9/6/2016 | 0.0 | 0.1 | 22.0 | 77.9 | 30 | 0.01 |
| GMP-12 | Weekly | 4 | 9/12/2016 | 0.0 | 0.0 | 22.5 | 77.5 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 9/19/2016 | 0.0 | 0.0 | 21.1 | 78.9 | 30 | 0.00 |
| GMP-12 | Weekly | 4 | 9/26/2016 | 0.0 | 0.0 | 21.6 | 78.4 | 30 | 0.00 |

TABLE 6

GAS MONITORING PROBE WATER LEVEL DATA

JUNE 28 – SEPTEMBER 26, 2016

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| 4ASS | 7/5/2016 | 4 | 4.10 | No Comment |
| 4ASS | 7/11/2016 | 4 | 3.95 | No Comment |
| 4ASS | 7/18/2016 | 4 | 3.95 | No Comment |
| 4ASS | 7/25/2016 | 4 | 3.70 | No Comment |
| 4ASS | 8/1/2016 | 4 | 4.05 | No Comment |
| 4ASS | 8/8/2016 | 4 | 3.95 | No Comment |
| 4ASS | 8/15/2016 | 4 | 3.95 | No Comment |
| 4ASS | 8/22/2016 | 4 | 4.25 | No Comment |
| 4ASS | 8/30/2016 | 4 | 4.30 | No Comment |
| 4ASS | 9/6/2016 | 4 | 4.10 | No Comment |
| 4ASS | 9/12/2016 | 4 | 4.00 | No Comment |
| 4ASS | 9/19/2016 | 4 | 3.70 | No Comment |
| 4ASS | 9/26/2016 | 4 | 4.20 | No Comment |
| 4OSS | 7/5/2016 | 4 | 8.25 | No Comment |
| 4OSS | 7/11/2016 | 4 | 8.20 | No Comment |
| 4OSS | 7/18/2016 | 4 | 8.10 | No Comment |
| 4OSS | 7/25/2016 | 4 | 8.60 | No Comment |
| 4OSS | 8/1/2016 | 4 | 8.45 | No Comment |
| 4OSS | 8/8/2016 | 4 | 8.32 | No Comment |
| 4OSS | 8/15/2016 | 4 | 3.70 | No Comment |
| 4OSS | 8/22/2016 | 4 | 8.32 | No Comment |
| 4OSS | 8/30/2016 | 4 | 8.50 | No Comment |
| 4OSS | 9/6/2016 | 4 | 8.50 | No Comment |
| 4OSS | 9/12/2016 | 4 | 8.60 | No Comment |
| 4OSS | 9/19/2016 | 4 | 8.50 | No Comment |
| 4OSS | 9/26/2016 | 4 | 8.60 | No Comment |
| GMP-01 | 7/5/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 7/11/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 7/18/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 7/25/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 8/1/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 8/8/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 8/15/2016 | 4 | 12.00 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-01 | 8/22/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 8/30/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 9/6/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 9/12/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 9/19/2016 | 4 | 11.80 | No Comment |
| GMP-01 | 9/26/2016 | 4 | 11.80 | No Comment |
| GMP-02 | 7/5/2016 | 4 | 6.75 | No Comment |
| GMP-02 | 7/11/2016 | 4 | 6.80 | No Comment |
| GMP-02 | 7/18/2016 | 4 | 6.83 | No Comment |
| GMP-02 | 7/25/2016 | 4 | 7.46 | No Comment |
| GMP-02 | 8/1/2016 | 4 | 7.51 | No Comment |
| GMP-02 | 8/8/2016 | 4 | 7.14 | No Comment |
| GMP-02 | 8/15/2016 | 4 | 10.30 | No Comment |
| GMP-02 | 8/22/2016 | 4 | 7.74 | No Comment |
| GMP-02 | 8/30/2016 | 4 | 8.00 | No Comment |
| GMP-02 | 9/6/2016 | 4 | 7.90 | No Comment |
| GMP-02 | 9/12/2016 | 4 | 7.80 | No Comment |
| GMP-02 | 9/19/2016 | 4 | 7.70 | No Comment |
| GMP-02 | 9/26/2016 | 4 | 7.90 | No Comment |
| GMP-03 | 7/5/2016 | 4 | 10.30 | No Comment |
| GMP-03 | 7/11/2016 | 4 | 10.55 | No Comment |
| GMP-03 | 7/18/2016 | 4 | 11.04 | No Comment |
| GMP-03 | 7/25/2016 | 4 | 10.62 | No Comment |
| GMP-03 | 8/1/2016 | 4 | 10.90 | No Comment |
| GMP-03 | 8/8/2016 | 4 | 10.76 | No Comment |
| GMP-03 | 8/15/2016 | 4 | 32.90 | No Comment |
| GMP-03 | 8/22/2016 | 4 | 11.72 | No Comment |
| GMP-03 | 8/30/2016 | 4 | 12.20 | No Comment |
| GMP-03 | 9/6/2016 | 4 | 12.30 | No Comment |
| GMP-03 | 9/12/2016 | 4 | 12.50 | No Comment |
| GMP-03 | 9/19/2016 | 4 | 11.60 | No Comment |
| GMP-03 | 9/26/2016 | 4 | 12.10 | No Comment |
| GMP-05 | 7/5/2016 | 3 | 8.05 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-06 | 7/5/2016 | 1 | 8.10 | No Comment |
| GMP-07 | 7/5/2016 | 1 | 21.35 | No Comment |
| GMP-08 | 7/5/2016 | 1 | 32.70 | No Comment |
| GMP-08 | 7/11/2016 | 1 | 32.65 | No Comment |
| GMP-08 | 7/18/2016 | 1 | 33.00 | No Comment |
| GMP-08 | 7/25/2016 | 1 | 32.10 | No Comment |
| GMP-08 | 8/1/2016 | 1 | 32.00 | No Comment |
| GMP-08 | 8/8/2016 | 1 | 32.30 | No Comment |
| GMP-08 | 8/15/2016 | 1 | 7.70 | No Comment |
| GMP-08 | 8/22/2016 | 1 | 33.10 | No Comment |
| GMP-08 | 8/30/2016 | 1 | 32.10 | No Comment |
| GMP-08 | 9/6/2016 | 1 | 33.00 | No Comment |
| GMP-08 | 9/12/2016 | 1 | 32.70 | No Comment |
| GMP-08 | 9/19/2016 | 1 | 32.60 | No Comment |
| GMP-08 | 9/26/2016 | 1 | 32.30 | No Comment |
| GMP-09 | 7/5/2016 | 4 | 9.58 | No Comment |
| GMP-09 | 7/11/2016 | 4 | 9.10 | No Comment |
| GMP-09 | 7/18/2016 | 4 | 9.10 | No Comment |
| GMP-09 | 7/25/2016 | 4 | 8.70 | No Comment |
| GMP-09 | 8/1/2016 | 4 | 8.10 | No Comment |
| GMP-09 | 8/8/2016 | 4 | 8.15 | No Comment |
| GMP-09 | 8/15/2016 | 4 | 7.60 | No Comment |
| GMP-09 | 8/22/2016 | 4 | 8.75 | No Comment |
| GMP-09 | 8/30/2016 | 4 | 8.30 | No Comment |
| GMP-09 | 9/6/2016 | 4 | 8.20 | No Comment |
| GMP-09 | 9/12/2016 | 4 | 8.50 | No Comment |
| GMP-09 | 9/19/2016 | 4 | 8.00 | No Comment |
| GMP-09 | 9/26/2016 | 4 | 9.00 | No Comment |
| GMP-10 | 7/5/2016 | 4 | 6.00 | No Comment |
| GMP-10 | 7/11/2016 | 4 | 8.95 | No Comment |
| GMP-10 | 7/18/2016 | 4 | 8.90 | No Comment |
| GMP-10 | 7/25/2016 | 4 | 6.50 | No Comment |
| GMP-10 | 8/1/2016 | 4 | 7.60 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-10 | 8/8/2016 | 4 | 8.60 | No Comment |
| GMP-10 | 8/15/2016 | 4 | 0.00 | No Comment |
| GMP-10 | 8/22/2016 | 4 | 9.13 | No Comment |
| GMP-10 | 8/30/2016 | 4 | 8.80 | No Comment |
| GMP-10 | 9/6/2016 | 4 | 7.80 | No Comment |
| GMP-10 | 9/12/2016 | 4 | 8.00 | No Comment |
| GMP-10 | 9/19/2016 | 4 | 4.00 | No Comment |
| GMP-10 | 9/26/2016 | 4 | 7.80 | No Comment |
| GMP-11 | 7/5/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 7/11/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 7/18/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 7/25/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 8/1/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 8/8/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 8/15/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 8/22/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 8/30/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 9/6/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 9/12/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 9/19/2016 | 4 | 0.00 | No Comment |
| GMP-11 | 9/26/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 7/5/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 7/11/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 7/18/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 7/25/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 8/1/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 8/8/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 8/15/2016 | 4 | 8.70 | No Comment |
| GMP-12 | 8/22/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 8/30/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 9/6/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 9/12/2016 | 4 | 0.00 | No Comment |
| GMP-12 | 9/19/2016 | 4 | 0.00 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-12 | 9/26/2016 | 4 | 0.00 | No Comment |
| GMP-13D | 7/5/2016 | 4 | 9.35 | No Comment |
| GMP-13D | 7/11/2016 | 4 | 9.45 | No Comment |
| GMP-13D | 7/18/2016 | 4 | 9.54 | No Comment |
| GMP-13D | 7/25/2016 | 4 | 9.63 | No Comment |
| GMP-13D | 8/1/2016 | 4 | 9.69 | No Comment |
| GMP-13D | 8/8/2016 | 4 | 9.81 | No Comment |
| GMP-13D | 8/15/2016 | 4 | 9.80 | No Comment |
| GMP-13D | 8/22/2016 | 4 | 10.06 | No Comment |
| GMP-13D | 8/30/2016 | 4 | 10.20 | No Comment |
| GMP-13D | 9/6/2016 | 4 | 10.30 | No Comment |
| GMP-13D | 9/12/2016 | 4 | 11.00 | No Comment |
| GMP-13D | 9/19/2016 | 4 | 11.10 | No Comment |
| GMP-13D | 9/26/2016 | 4 | 11.20 | No Comment |
| GMP-13S | 7/5/2016 | 4 | 9.88 | No Comment |
| GMP-13S | 7/11/2016 | 4 | 10.00 | No Comment |
| GMP-13S | 7/18/2016 | 4 | 10.47 | No Comment |
| GMP-13S | 7/25/2016 | 4 | 10.45 | No Comment |
| GMP-13S | 8/1/2016 | 4 | 10.40 | No Comment |
| GMP-13S | 8/8/2016 | 4 | 10.20 | No Comment |
| GMP-13S | 8/15/2016 | 4 | 9.80 | No Comment |
| GMP-13S | 8/22/2016 | 4 | 10.38 | No Comment |
| GMP-13S | 8/30/2016 | 4 | 11.30 | No Comment |
| GMP-13S | 9/6/2016 | 4 | 11.70 | No Comment |
| GMP-13S | 9/12/2016 | 4 | 11.50 | No Comment |
| GMP-13S | 9/19/2016 | 4 | 11.30 | No Comment |
| GMP-13S | 9/26/2016 | 4 | 11.70 | No Comment |
| GMP-14D | 7/5/2016 | 3 | 8.05 | No Comment |
| GMP-14D | 7/11/2016 | 3 | 7.75 | No Comment |
| GMP-14D | 7/18/2016 | 3 | 8.22 | No Comment |
| GMP-14D | 7/25/2016 | 3 | 6.80 | No Comment |
| GMP-14D | 8/1/2016 | 3 | 8.00 | No Comment |
| GMP-14D | 8/8/2016 | 3 | 8.19 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-14D | 8/15/2016 | 3 | 8.80 | No Comment |
| GMP-14D | 8/22/2016 | 3 | 8.23 | No Comment |
| GMP-14D | 8/30/2016 | 3 | 8.70 | No Comment |
| GMP-14D | 9/6/2016 | 3 | 9.20 | No Comment |
| GMP-14D | 9/12/2016 | 3 | 8.90 | No Comment |
| GMP-14D | 9/19/2016 | 3 | 8.20 | No Comment |
| GMP-14D | 9/26/2016 | 3 | 9.20 | No Comment |
| GMP-14S | 7/5/2016 | 3 | 8.61 | No Comment |
| GMP-14S | 7/11/2016 | 3 | 8.60 | No Comment |
| GMP-14S | 7/18/2016 | 3 | 8.98 | No Comment |
| GMP-14S | 7/25/2016 | 3 | 8.97 | No Comment |
| GMP-14S | 8/1/2016 | 3 | 8.95 | No Comment |
| GMP-14S | 8/8/2016 | 3 | 9.04 | No Comment |
| GMP-14S | 8/15/2016 | 3 | 9.00 | No Comment |
| GMP-14S | 8/22/2016 | 3 | 9.20 | No Comment |
| GMP-14S | 8/30/2016 | 3 | 9.80 | No Comment |
| GMP-14S | 9/6/2016 | 3 | 11.40 | No Comment |
| GMP-14S | 9/12/2016 | 3 | 10.20 | No Comment |
| GMP-14S | 9/19/2016 | 3 | 9.70 | No Comment |
| GMP-14S | 9/26/2016 | 3 | 11.40 | No Comment |
| GMP-15D | 7/5/2016 | 2 | 10.70 | No Comment |
| GMP-15D | 7/11/2016 | 2 | 10.50 | No Comment |
| GMP-15D | 7/18/2016 | 2 | 10.65 | No Comment |
| GMP-15D | 7/25/2016 | 2 | 10.10 | No Comment |
| GMP-15D | 8/1/2016 | 2 | 10.03 | No Comment |
| GMP-15D | 8/8/2016 | 2 | 10.32 | No Comment |
| GMP-15D | 8/15/2016 | 2 | 10.90 | No Comment |
| GMP-15D | 8/22/2016 | 2 | 10.20 | No Comment |
| GMP-15D | 8/30/2016 | 2 | 10.30 | No Comment |
| GMP-15D | 9/6/2016 | 2 | 8.20 | No Comment |
| GMP-15D | 9/12/2016 | 2 | 10.00 | No Comment |
| GMP-15D | 9/19/2016 | 2 | 9.60 | No Comment |
| GMP-15D | 9/26/2016 | 2 | 9.90 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-15S | 7/5/2016 | 2 | 7.50 | No Comment |
| GMP-15S | 7/11/2016 | 2 | 7.25 | No Comment |
| GMP-15S | 7/18/2016 | 2 | 7.38 | No Comment |
| GMP-15S | 7/25/2016 | 2 | 6.70 | No Comment |
| GMP-15S | 8/1/2016 | 2 | 6.58 | No Comment |
| GMP-15S | 8/8/2016 | 2 | 7.15 | No Comment |
| GMP-15S | 8/15/2016 | 2 | 6.70 | No Comment |
| GMP-15S | 8/22/2016 | 2 | 7.11 | No Comment |
| GMP-15S | 8/30/2016 | 2 | 7.40 | No Comment |
| GMP-15S | 9/6/2016 | 2 | 7.60 | No Comment |
| GMP-15S | 9/12/2016 | 2 | 7.00 | No Comment |
| GMP-15S | 9/19/2016 | 2 | 6.90 | No Comment |
| GMP-15S | 9/26/2016 | 2 | 7.30 | No Comment |
| GMP-16D | 7/5/2016 | 1 | 6.63 | No Comment |
| GMP-16D | 7/11/2016 | 1 | 6.56 | No Comment |
| GMP-16D | 7/18/2016 | 1 | 6.60 | No Comment |
| GMP-16D | 7/25/2016 | 1 | 5.95 | No Comment |
| GMP-16D | 8/1/2016 | 1 | 5.82 | No Comment |
| GMP-16D | 8/8/2016 | 1 | 5.98 | No Comment |
| GMP-16D | 8/15/2016 | 1 | 5.30 | No Comment |
| GMP-16D | 8/22/2016 | 1 | 6.00 | No Comment |
| GMP-16D | 8/30/2016 | 1 | 6.20 | No Comment |
| GMP-16D | 9/6/2016 | 1 | 6.80 | No Comment |
| GMP-16D | 9/12/2016 | 1 | 6.30 | No Comment |
| GMP-16D | 9/19/2016 | 1 | 6.00 | No Comment |
| GMP-16D | 9/26/2016 | 1 | 6.40 | No Comment |
| GMP-16S | 7/5/2016 | 1 | 6.80 | No Comment |
| GMP-16S | 7/11/2016 | 1 | 6.41 | No Comment |
| GMP-16S | 7/18/2016 | 1 | 6.80 | No Comment |
| GMP-16S | 7/25/2016 | 1 | 6.20 | No Comment |
| GMP-16S | 8/1/2016 | 1 | 6.15 | No Comment |
| GMP-16S | 8/8/2016 | 1 | 6.22 | No Comment |
| GMP-16S | 8/15/2016 | 1 | 5.40 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-16S | 8/22/2016 | 1 | 6.20 | No Comment |
| GMP-16S | 8/30/2016 | 1 | 6.70 | No Comment |
| GMP-16S | 9/6/2016 | 1 | 7.00 | No Comment |
| GMP-16S | 9/12/2016 | 1 | 6.50 | No Comment |
| GMP-16S | 9/19/2016 | 1 | 6.20 | No Comment |
| GMP-16S | 9/26/2016 | 1 | 6.80 | No Comment |
| GMP-4D | 7/5/2016 | 3 | 9.45 | No Comment |
| GMP-4D | 7/11/2016 | 3 | 9.60 | No Comment |
| GMP-4D | 7/18/2016 | 3 | 9.85 | No Comment |
| GMP-4D | 7/25/2016 | 3 | 9.80 | No Comment |
| GMP-4D | 8/1/2016 | 3 | 9.88 | No Comment |
| GMP-4D | 8/8/2016 | 3 | 10.00 | No Comment |
| GMP-4D | 8/15/2016 | 3 | 9.10 | No Comment |
| GMP-4D | 8/22/2016 | 3 | 10.10 | No Comment |
| GMP-4D | 8/30/2016 | 3 | 10.80 | No Comment |
| GMP-4D | 9/6/2016 | 3 | 11.00 | No Comment |
| GMP-4D | 9/12/2016 | 3 | 11.10 | No Comment |
| GMP-4D | 9/19/2016 | 3 | 10.90 | No Comment |
| GMP-4D | 9/26/2016 | 3 | 11.10 | No Comment |
| GMP-4S | 7/5/2016 | 3 | 9.36 | No Comment |
| GMP-4S | 7/11/2016 | 3 | 9.40 | No Comment |
| GMP-4S | 7/18/2016 | 3 | 9.70 | No Comment |
| GMP-4S | 7/25/2016 | 3 | 9.60 | No Comment |
| GMP-4S | 8/1/2016 | 3 | 9.71 | No Comment |
| GMP-4S | 8/8/2016 | 3 | 9.90 | No Comment |
| GMP-4S | 8/15/2016 | 3 | 18.70 | No Comment |
| GMP-4S | 8/22/2016 | 3 | 9.96 | No Comment |
| GMP-4S | 8/30/2016 | 3 | 10.50 | No Comment |
| GMP-4S | 9/6/2016 | 3 | 10.80 | No Comment |
| GMP-4S | 9/12/2016 | 3 | 10.70 | No Comment |
| GMP-4S | 9/19/2016 | 3 | 10.50 | No Comment |
| GMP-4S | 9/26/2016 | 3 | 11.00 | No Comment |
| GMP-5D | 7/5/2016 | 3 | 19.70 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-5D | 7/11/2016 | 3 | 19.75 | No Comment |
| GMP-5D | 7/18/2016 | 3 | 19.55 | No Comment |
| GMP-5D | 7/25/2016 | 3 | 19.35 | No Comment |
| GMP-5D | 8/1/2016 | 3 | 19.17 | No Comment |
| GMP-5D | 8/8/2016 | 3 | 19.15 | No Comment |
| GMP-5D | 8/15/2016 | 3 | 13.10 | No Comment |
| GMP-5D | 8/22/2016 | 3 | 19.19 | No Comment |
| GMP-5D | 8/30/2016 | 3 | 19.40 | No Comment |
| GMP-5D | 9/6/2016 | 3 | 19.60 | No Comment |
| GMP-5D | 9/12/2016 | 3 | 19.20 | No Comment |
| GMP-5D | 9/19/2016 | 3 | 10.80 | No Comment |
| GMP-5D | 9/26/2016 | 3 | 19.30 | No Comment |
| GMP-5S | 7/5/2016 | 3 | 13.75 | No Comment |
| GMP-5S | 7/11/2016 | 3 | 13.30 | No Comment |
| GMP-5S | 7/18/2016 | 3 | 13.65 | No Comment |
| GMP-5S | 7/25/2016 | 3 | 13.13 | No Comment |
| GMP-5S | 8/1/2016 | 3 | 13.42 | No Comment |
| GMP-5S | 8/8/2016 | 3 | 13.68 | No Comment |
| GMP-5S | 8/15/2016 | 3 | 10.70 | No Comment |
| GMP-5S | 8/22/2016 | 3 | 13.67 | No Comment |
| GMP-5S | 8/30/2016 | 3 | 14.10 | No Comment |
| GMP-5S | 9/6/2016 | 3 | 14.30 | No Comment |
| GMP-5S | 9/12/2016 | 3 | 14.10 | No Comment |
| GMP-5S | 9/19/2016 | 3 | 13.60 | No Comment |
| GMP-5S | 9/26/2016 | 3 | 14.20 | No Comment |
| GMP-6D | 7/5/2016 | 3 | 11.50 | No Comment |
| GMP-6D | 7/11/2016 | 3 | 11.20 | No Comment |
| GMP-6D | 7/18/2016 | 3 | 11.36 | No Comment |
| GMP-6D | 7/25/2016 | 3 | 11.05 | No Comment |
| GMP-6D | 8/1/2016 | 3 | 11.20 | No Comment |
| GMP-6D | 8/8/2016 | 3 | 11.36 | No Comment |
| GMP-6D | 8/15/2016 | 3 | 8.20 | No Comment |
| GMP-6D | 8/22/2016 | 3 | 11.40 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-6D | 8/30/2016 | 3 | 10.20 | No Comment |
| GMP-6D | 9/6/2016 | 3 | 11.40 | No Comment |
| GMP-6D | 9/12/2016 | 3 | 10.20 | No Comment |
| GMP-6D | 9/19/2016 | 3 | 10.60 | No Comment |
| GMP-6D | 9/26/2016 | 3 | 10.80 | No Comment |
| GMP-6S | 7/5/2016 | 3 | 8.76 | No Comment |
| GMP-6S | 7/11/2016 | 3 | 8.10 | No Comment |
| GMP-6S | 7/18/2016 | 3 | 8.14 | No Comment |
| GMP-6S | 7/25/2016 | 3 | 8.00 | No Comment |
| GMP-6S | 8/1/2016 | 3 | 8.08 | No Comment |
| GMP-6S | 8/8/2016 | 3 | 8.20 | No Comment |
| GMP-6S | 8/15/2016 | 3 | 14.80 | No Comment |
| GMP-6S | 8/22/2016 | 3 | 8.22 | No Comment |
| GMP-6S | 8/30/2016 | 3 | 7.80 | No Comment |
| GMP-6S | 9/6/2016 | 3 | 8.30 | No Comment |
| GMP-6S | 9/12/2016 | 3 | 7.20 | No Comment |
| GMP-6S | 9/19/2016 | 3 | 6.40 | No Comment |
| GMP-6S | 9/26/2016 | 3 | 7.20 | No Comment |
| GMP-7D | 7/5/2016 | 1 | 16.15 | No Comment |
| GMP-7D | 7/11/2016 | 1 | 16.35 | No Comment |
| GMP-7D | 7/18/2016 | 1 | 16.83 | No Comment |
| GMP-7D | 7/25/2016 | 1 | 15.75 | No Comment |
| GMP-7D | 8/1/2016 | 1 | 15.70 | No Comment |
| GMP-7D | 8/8/2016 | 1 | 16.00 | No Comment |
| GMP-7D | 8/15/2016 | 1 | 14.10 | No Comment |
| GMP-7D | 8/22/2016 | 1 | 15.81 | No Comment |
| GMP-7D | 8/30/2016 | 1 | 16.60 | No Comment |
| GMP-7D | 9/6/2016 | 1 | 17.20 | No Comment |
| GMP-7D | 9/12/2016 | 1 | 16.20 | No Comment |
| GMP-7D | 9/19/2016 | 1 | 15.00 | No Comment |
| GMP-7D | 9/26/2016 | 1 | 16.90 | No Comment |
| GMP-7S | 7/5/2016 | 1 | 15.89 | No Comment |
| GMP-7S | 7/11/2016 | 1 | 15.25 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| GMP-7S | 7/18/2016 | 1 | 16.10 | No Comment |
| GMP-7S | 7/25/2016 | 1 | 14.00 | No Comment |
| GMP-7S | 8/1/2016 | 1 | 13.91 | No Comment |
| GMP-7S | 8/8/2016 | 1 | 15.22 | No Comment |
| GMP-7S | 8/15/2016 | 1 | 18.00 | No Comment |
| GMP-7S | 8/22/2016 | 1 | 14.95 | No Comment |
| GMP-7S | 8/30/2016 | 1 | 16.00 | No Comment |
| GMP-7S | 9/6/2016 | 1 | 17.20 | No Comment |
| GMP-7S | 9/12/2016 | 1 | 13.00 | No Comment |
| GMP-7S | 9/19/2016 | 1 | 14.80 | No Comment |
| GMP-7S | 9/26/2016 | 1 | 16.20 | No Comment |
| TMP-1D | 7/5/2016 | 4 | 20.02 | No Comment |
| TMP-1D | 7/11/2016 | 4 | 19.55 | No Comment |
| TMP-1D | 7/18/2016 | 4 | 19.90 | No Comment |
| TMP-1D | 7/25/2016 | 4 | 19.77 | No Comment |
| TMP-1D | 8/1/2016 | 4 | 19.40 | No Comment |
| TMP-1D | 8/8/2016 | 4 | 19.15 | No Comment |
| TMP-1D | 8/15/2016 | 4 | 17.30 | No Comment |
| TMP-1D | 8/22/2016 | 4 | 19.62 | No Comment |
| TMP-1D | 8/30/2016 | 4 | 20.10 | No Comment |
| TMP-1D | 9/6/2016 | 4 | 20.40 | No Comment |
| TMP-1D | 9/12/2016 | 4 | 19.50 | No Comment |
| TMP-1D | 9/19/2016 | 4 | 19.20 | No Comment |
| TMP-1D | 9/26/2016 | 4 | 20.00 | No Comment |
| TMP-1M | 7/5/2016 | 4 | 20.20 | No Comment |
| TMP-1M | 7/11/2016 | 4 | 19.60 | No Comment |
| TMP-1M | 7/18/2016 | 4 | 19.90 | No Comment |
| TMP-1M | 7/25/2016 | 4 | 19.77 | No Comment |
| TMP-1M | 8/1/2016 | 4 | 19.39 | No Comment |
| TMP-1M | 8/8/2016 | 4 | 19.21 | No Comment |
| TMP-1M | 8/15/2016 | 4 | 16.10 | No Comment |
| TMP-1M | 8/22/2016 | 4 | 19.60 | No Comment |
| TMP-1M | 8/30/2016 | 4 | 20.40 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| TMP-1M | 9/6/2016 | 4 | 20.50 | No Comment |
| TMP-1M | 9/12/2016 | 4 | 19.70 | No Comment |
| TMP-1M | 9/19/2016 | 4 | 19.60 | No Comment |
| TMP-1M | 9/26/2016 | 4 | 20.00 | No Comment |
| TMP-1S | 7/5/2016 | 4 | 18.74 | No Comment |
| TMP-1S | 7/11/2016 | 4 | 18.25 | No Comment |
| TMP-1S | 7/18/2016 | 4 | 18.41 | No Comment |
| TMP-1S | 7/25/2016 | 4 | 18.15 | No Comment |
| TMP-1S | 8/1/2016 | 4 | 17.86 | No Comment |
| TMP-1S | 8/8/2016 | 4 | 17.73 | No Comment |
| TMP-1S | 8/15/2016 | 4 | 16.30 | No Comment |
| TMP-1S | 8/22/2016 | 4 | 18.20 | No Comment |
| TMP-1S | 8/30/2016 | 4 | 19.00 | No Comment |
| TMP-1S | 9/6/2016 | 4 | 19.50 | No Comment |
| TMP-1S | 9/12/2016 | 4 | 17.80 | No Comment |
| TMP-1S | 9/19/2016 | 4 | 17.90 | No Comment |
| TMP-1S | 9/26/2016 | 4 | 18.90 | No Comment |
| TMP-2D | 7/5/2016 | 4 | 17.60 | No Comment |
| TMP-2D | 7/11/2016 | 4 | 16.90 | No Comment |
| TMP-2D | 7/18/2016 | 4 | 17.55 | No Comment |
| TMP-2D | 7/25/2016 | 4 | 16.05 | No Comment |
| TMP-2D | 8/1/2016 | 4 | 16.85 | No Comment |
| TMP-2D | 8/8/2016 | 4 | 16.75 | No Comment |
| TMP-2D | 8/15/2016 | 4 | 16.00 | No Comment |
| TMP-2D | 8/22/2016 | 4 | 17.05 | No Comment |
| TMP-2D | 8/30/2016 | 4 | 16.50 | No Comment |
| TMP-2D | 9/6/2016 | 4 | 16.90 | No Comment |
| TMP-2D | 9/12/2016 | 4 | 16.80 | No Comment |
| TMP-2D | 9/19/2016 | 4 | 16.30 | No Comment |
| TMP-2D | 9/26/2016 | 4 | 16.50 | No Comment |
| TMP-2M | 7/5/2016 | 4 | 17.61 | No Comment |
| TMP-2M | 7/11/2016 | 4 | 16.92 | No Comment |
| TMP-2M | 7/18/2016 | 4 | 17.54 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| TMP-2M | 7/25/2016 | 4 | 16.05 | No Comment |
| TMP-2M | 8/1/2016 | 4 | 16.85 | No Comment |
| TMP-2M | 8/8/2016 | 4 | 16.75 | No Comment |
| TMP-2M | 8/15/2016 | 4 | 15.20 | No Comment |
| TMP-2M | 8/22/2016 | 4 | 17.05 | No Comment |
| TMP-2M | 8/30/2016 | 4 | 17.80 | No Comment |
| TMP-2M | 9/6/2016 | 4 | 18.50 | No Comment |
| TMP-2M | 9/12/2016 | 4 | 17.10 | No Comment |
| TMP-2M | 9/19/2016 | 4 | 16.70 | No Comment |
| TMP-2M | 9/26/2016 | 4 | 17.70 | No Comment |
| TMP-2S | 7/5/2016 | 4 | 17.04 | No Comment |
| TMP-2S | 7/11/2016 | 4 | 16.03 | No Comment |
| TMP-2S | 7/18/2016 | 4 | 16.55 | No Comment |
| TMP-2S | 7/25/2016 | 4 | 15.20 | No Comment |
| TMP-2S | 8/1/2016 | 4 | 16.40 | No Comment |
| TMP-2S | 8/8/2016 | 4 | 16.20 | No Comment |
| TMP-2S | 8/15/2016 | 4 | 12.10 | No Comment |
| TMP-2S | 8/22/2016 | 4 | 16.75 | No Comment |
| TMP-2S | 8/30/2016 | 4 | 17.40 | No Comment |
| TMP-2S | 9/6/2016 | 4 | 17.00 | No Comment |
| TMP-2S | 9/12/2016 | 4 | 16.70 | No Comment |
| TMP-2S | 9/19/2016 | 4 | 16.20 | No Comment |
| TMP-2S | 9/26/2016 | 4 | 17.50 | No Comment |
| TMP-3D | 7/5/2016 | 4 | 12.60 | No Comment |
| TMP-3D | 7/11/2016 | 4 | 12.60 | No Comment |
| TMP-3D | 7/18/2016 | 4 | 12.90 | No Comment |
| TMP-3D | 7/25/2016 | 4 | 12.55 | No Comment |
| TMP-3D | 8/1/2016 | 4 | 12.60 | No Comment |
| TMP-3D | 8/8/2016 | 4 | 12.30 | No Comment |
| TMP-3D | 8/15/2016 | 4 | 13.30 | No Comment |
| TMP-3D | 8/22/2016 | 4 | 12.80 | No Comment |
| TMP-3D | 8/30/2016 | 4 | 10.70 | No Comment |
| TMP-3D | 9/6/2016 | 4 | 13.00 | No Comment |

| Point Name | Date | Quadrant | Depth to Water (ft) | Comments |
|------------|-----------|----------|---------------------|------------|
| TMP-3D | 9/12/2016 | 4 | 12.90 | No Comment |
| TMP-3D | 9/19/2016 | 4 | 12.70 | No Comment |
| TMP-3D | 9/26/2016 | 4 | 12.50 | No Comment |
| TMP-3M | 7/5/2016 | 4 | 13.00 | No Comment |
| TMP-3M | 7/11/2016 | 4 | 13.30 | No Comment |
| TMP-3M | 7/18/2016 | 4 | 13.30 | No Comment |
| TMP-3M | 7/25/2016 | 4 | 13.15 | No Comment |
| TMP-3M | 8/1/2016 | 4 | 12.81 | No Comment |
| TMP-3M | 8/8/2016 | 4 | 13.20 | No Comment |
| TMP-3M | 8/15/2016 | 4 | 15.40 | No Comment |
| TMP-3M | 8/22/2016 | 4 | 12.99 | No Comment |
| TMP-3M | 8/30/2016 | 4 | 13.30 | No Comment |
| TMP-3M | 9/6/2016 | 4 | 10.40 | No Comment |
| TMP-3M | 9/12/2016 | 4 | 8.70 | No Comment |
| TMP-3M | 9/19/2016 | 4 | 10.80 | No Comment |
| TMP-3M | 9/26/2016 | 4 | 10.10 | No Comment |
| TMP-3S | 7/5/2016 | 4 | 11.00 | No Comment |
| TMP-3S | 7/11/2016 | 4 | 12.56 | No Comment |
| TMP-3S | 7/18/2016 | 4 | 12.60 | No Comment |
| TMP-3S | 7/25/2016 | 4 | 12.41 | No Comment |
| TMP-3S | 8/1/2016 | 4 | 17.00 | No Comment |
| TMP-3S | 8/8/2016 | 4 | 17.16 | No Comment |
| TMP-3S | 8/15/2016 | 4 | 8.50 | No Comment |
| TMP-3S | 8/22/2016 | 4 | 14.87 | No Comment |
| TMP-3S | 8/30/2016 | 4 | 14.90 | No Comment |
| TMP-3S | 9/6/2016 | 4 | 13.00 | No Comment |
| TMP-3S | 9/12/2016 | 4 | 11.10 | No Comment |
| TMP-3S | 9/19/2016 | 4 | 10.00 | No Comment |
| TMP-3S | 9/26/2016 | 4 | 10.10 | No Comment |

APPENDIX A

LANDFILL GAS CORRECTIVE ACTION PLAN UPDATE, JULY 26, 2013

**BRIDGETON LANDFILL
LANDFILL GAS CORRECTIVE ACTION PLAN UPDATE**

**Submitted Pursuant to Section 23 of Agreed Order
Case No. 13SL-CC01088, Effective May 13, 2013**

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July 26, 2013

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- Appendix A – Gas Monitoring Probe Methane Level Graphs
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- Appendix C – Bridgeton Landfill Infrastructure As-Built Drawing, July 2013

1.0 INTRODUCTION

On May 13, 2013, Bridgeton Landfill entered into an Agreed Order with the State of Missouri which requires actions to address what was called a subsurface smoldering event (SSE). Section 23 of the Agreed Order requires the preparation of an updated "Landfill Gas Corrective Action Plan" (CAP) and requests that the update consider SSE control measures.

Missouri Solid Waste Management Regulations require that subsurface landfill gas be controlled so that it does not exceed 2.5% (which is equal to 50% of the lower explosive limit, or LEL) in the ground at the facility property boundary. If this level is exceeded at the property boundary, the facility must implement enhanced monitoring and corrective measures. Corrective Action Plans are frequently used to present and communicate these measures.

Bridgeton Landfill has been monitoring for gas migration using permanent gas monitoring probes since 1998. Since that time, landfill gas Corrective Action Plans have been implemented, additional monitoring locations have been added, and many control features have been installed. These efforts have been previously documented and are incorporated by reference as background for this current work.

Lateral landfill gas migration is common at unlined municipal solid waste (MSW) landfills, and especially in quarry fill environments. Bridgeton Landfill has some areas where the property line is close to solid waste limits (near the edge of the quarry wall) and monitoring has detected methane near the property line in certain locations. In addition, the SSE that Bridgeton Landfill has been experiencing since 2010, and that intensified in 2012, has further challenged methane control in those areas.

The purpose of this document, as required by the Agreed Order, is to provide an update to the November 27, 2012 CAP that considers the SSE control measures. As such, this document includes monitoring data up to July 2013, reviews the status of gas migration control, presents recent (since the approved November 27, 2012 CAP) efforts to reduce methane migration, and discusses forward-going monitoring and reporting procedures. It is intended that this CAP supplements and/or supersedes the previous CAPs and agreements.

2.0 REVIEW OF CURRENT GAS MIGRATION CONTROL STATUS

The intensification of the SSE has created conditions that have made control of gas migration more challenging, including:

- Increased pressure within the landfill waste with pressure-gradient which forces gas outward;
- Increased liquid generation resulting in steam and saturated gas which effects collection efficiency, and
- Carefully controlled and reduced application of gas extraction well vacuum with efforts to minimize oxygen content in the gas well.

Detailed graphs showing methane concentrations for the past three years are included in Appendix A. Appendix B includes a list of the gas monitoring probes monitored at the Bridgeton Landfill along with the boring logs and/or construction logs for each probe. Please note, the gas monitoring probes has been referenced with different abbreviations and the table in Appendix B is included to provide clarity.

As can be seen on the graphs, there are several compliance point and sentry monitoring probe locations that have been historically elevated (GMP-01, GMP-04, GMP-05 GMP-06 and GMP-07), as well as elevated levels in new gas monitoring probes where monitoring began in October 2012 after the SSE intensified (GMP-5S, GMP-14S, GMP-14D). Temporary monitoring probes installed to determine the rate and extent of the methane migration in the vicinity of impacted probe GMP-01 (TMP-1S, TMP-2S, TMP-2M, TMP-2D, TMP-3S, TMP-3M, and TMP-3D) have also exhibited elevated levels of methane since installation.

Due to the additional gas monitoring probes, which initiated monitoring in October 2012 to better define the zone of migration on the eastern boundary of the landfill, GMP-04 through GMP-07 located closer to the landfill are typically monitored on a quarterly basis but are sentry probes and are no longer utilized as the compliance probes in accordance with Missouri Solid Waste Law and Rules. Tables 1 through 4 present the probe results for the monitoring period November 21, 2012 through July 5, 2013.

Along the southern boundary of the landfill, adjacent to Boenker Road, GMP-01 has continued to show elevated levels above the regulatory threshold. Corrective measures have not been effective to address the migration in this vicinity. Corrective actions taken to date have focused on methane migration within the soil overburden due to investigative action demonstrating shallow migration. However, after the installation of the interceptor trench, which was constructed to the soil/bedrock interface between the waste disposal area and impacted GMP-01, elevated levels continued to be exhibited in GMP-01. Due to the ineffectiveness of the perimeter gas wells (2005) and interceptor trench (2010) installed in the vicinity of GMP-01 to eliminate or reduce methane impacts, further investigation was deemed necessary under the conditions of the Settlement Agreement.

In order to effectively determine the zone of migration in the vicinity of GMP-01, temporary probes (TMP-1, TMP-2 and TMP-3) were installed as investigation probes to better define the zone of migration. In order to do this, each temporary probe were installed as nested probes with three monitored zones – shallow (S), middle (M) and deep (D). The shallow zone was screened within the soil overburden; the middle zone was screened through the uppermost weathered/fractured bedrock and the deep zone within the saturated bedrock. As presented in Appendix A, TMP-1 located west of GMP-01 is impacted with elevated methane levels within the soil overburden and weathered bedrock. TMP-2, located east of GMP-01, and TMP-3, located north of GMP-01, has observed elevated methane in each of the monitored zones. It is likely the observed elevated methane within the deep monitored zone observed in TMP-2 and TMP-3 are a result of diffusion transport due to these probes located less than 75 feet from the waste mass as well as the pressure-gradient force caused by the SSE as noted with increased relative pressure during monitoring of the probes.

As noted in the TMP boring logs, weathered bedrock was observed at lower elevations than the base of the interceptor trench. TMP-1, located west of GMP-1, the weathered bedrock was observed between 36 feet below ground surface (bgs) to 66.5 feet bgs. TMP-2, located east of GMP-1, the weathered bedrock was observed between 18 feet bgs to 47 feet bgs. TMP-3, located between the landfill and GMP-1, the weathered bedrock was observed between 31 feet bgs to 50 feet bgs. TMP-2, located between the landfill and GMP-1, the weathered bedrock was observed between 31 feet bgs to 50 feet bgs. Due to weathered bedrock observed at lower elevations than the base of the interceptor trench, it is likely methane continues to migrate through these weathered zones. Table 3 presents the temporary gas monitoring probe data.

The intensification of the SSE in 2012, resulting in increased pressure within the landfill, brought challenges associated within dewatering the interceptor trench located south of the waste boundary and maintaining sufficient vacuum on select gas extraction wells located within the south quarry. As a result, elevated levels of methane continue to be observed since October 2012.

Currently the public safety probes located across Boenker Road, on private property (GMP-09, GMP-10, GMP-11, and GMP-12) have no detectable levels of methane and have not observed elevated methane in two years (GMP-11). There is no evidence of methane migration onto adjacent properties at this time. Table 4 presents the gas monitoring probe data for the public safety probes.

Along the east property boundary, adjacent to the south quarry, elevated methane has been observed at two gas monitoring probe locations utilized for compliance: GMP-5S, GMP-14S, GMP-14D. The gas monitoring probes installed between August and September 2012 were installed as nested probes with two monitoring zones - shallow (S) and deep (D). The shallow zone was screened within the soil overburden; the deep zone was screened through the uppermost weathered bedrock to approximately 10 feet below the historic low water table.

The intent of these nested probes is to determine if methane migration is occurring at the property boundary as well as to ascertain the zone in which it is occurring. Similar to GMP-01, weathered bedrock was observed below the soil overburden at GMP-14 where GMP-14D is screened. The weathered bedrock is likely providing a zone of migration within the deeper zone, GMP-14D.

As described in Section 3.0, Bridgeton Landfill has performed recent improvements that should ultimately reduce landfill gas migration.

3.0 RECENT GAS MIGRATION CONTROL EFFORTS

Many recent additional measures have been recently undertaken that should ultimately reduce gas migration, including:

1. The SSE has impacted the facility's infrastructure designed to remove liquid efficiently from the waste mass which results in increased liquid in the force main and the gas conveyance system resulting in a reduction of their efficiency to remove landfill gas. Adding new gas extraction wells, replacing compromised gas extraction wells, and adding liquid pumps and extraction points will improve landfill gas collection and improve overall efficiency of the system. The following features have been installed per the November 27, 2012 CAP and in addition to the measures proposed in the CAP:
 - In November 2012 the Bridgeton Landfill installed 5 new trench wells, 5 new liquid sumps, and 7 new gas extraction wells.
 - During the January 1, 2013 through June 30, 2013 period the following additional extraction points were installed at the Bridgeton Landfill:
 - In February 2013 the Bridgeton Landfill installed 9 new gas extraction wells,
 - In March 2013 the Bridgeton Landfill installed 3 new gas extraction wells,
 - In April 2013 the Bridgeton Landfill installed 11 new gas extraction wells,
 - In May 2013 the Bridgeton Landfill installed 13 new gas extraction wells,
2. Addition of a 2,500 scfm utility flare in the southeastern portion of the disposal area in June 2013. This flare has improved vacuum distribution around the well field, especially in the southern and southeastern end where migration has been problematic.
3. Installation of 25 perimeter liquid sumps connected by perforated liquid/gas collection piping in May and June 2013. These were installed as part of the South Quarry capping project, and will allow collection of additional gas at the perimeter of the landfill, and
4. Placement of 32 acres of geomembrane cap and enhanced gas collection features which should be completed in August 2013. The cap will allow additional vacuum to be pulled from the cover integrity system consisting of a composite liner system which will reduce concern for oxygen intrusion. This should result in better long term gas capture and, in time, reduced gas pressure.

An updated as-built map that shows all of these features that were in place as of June 30, 2013 is included in Appendix C.

Due to the increased liquid generation and increased pressure within the landfill the improvements completed within the past nine months have not yet resulted in a reduction of methane observed within the gas monitoring probes. It is premature to evaluate the

effectiveness of the recent gas migration control efforts outlined in this section due to impacts associated with increased liquid generation and the continued dynamic movement and changes of the SSE in the South Quarry area.

4.0 PROPOSED AND ONGOING GAS MIGRATION CONTROL EFFORTS

The recent additional measures outlined in Section 3.0 are on-going efforts to improve landfill gas control at the Bridgeton Landfill. These upgrades should reduce pressure within the waste mass that may be contributing to the exceedances and in turn alleviate methane migration along the southern and eastern property boundaries. Improvements to the landfill are on-going and will continue until the SSE is controlled. Below are additional improvements that are being proposed or currently implemented:

1. The SSE has resulted in an increase in condensate generation. In order to improve liquid removal at the site a third party consultant has been contracted to evaluate the effectiveness of the existing force main. Due to the increased liquid movement within the force main pressure has built up within the system resulting in back pressure and reduced pump functionality. Pressure relief valves have been installed on numerous pneumatic pumps to address this issue. However, due to the increased liquid generation additional capacity within the force main is needed. As such, the preliminary design proposes utilizing the existing force main for management of liquid removed from the LCSs and a second separate force main for liquids removed from the remaining extraction points. The additional liquid force main will allow optimum operations of the pumps while providing increased available vacuum on the landfill gas collection system. This corrective action measure will be submitted to the MDNR in third quarter 2013 sealed by a Missouri Professional Engineer.
2. In order to improve liquid management once the liquids are removed from the disposal area the Bridgeton Landfill has contracted with a third party consulting firm for additional storage and pretreatment of the extracted liquid. During the second quarter 2013 the landfill installed a 316,000 gallon above ground liquid storage and treatment tank. The preliminary treatment plant design includes incorporation of the existing 96,000 gallon tank located near Boenker Road, the newly installed 316,000 gallon tank, four-1,000,000 gallon tanks and a pretreatment facility. This will provide the landfill additional capacity to remove the liquid from the disposal area at a design capacity of 300,000 gallons per day. The treatment plant design will be submitted to the MDNR in third quarter 2013 sealed by a Missouri Professional Engineer.
3. The Bridgeton Landfill has submitted a Permit to Construct application to the St. Louis County Department of Health for the installation of two 4,000 scfm utility flares. These utility flares would replace the existing enclosed flares with a design flow of 3,500 scfm each. The replacement of the enclosed flares with the two 4,000 scfm utility flares coupled with the existing 3,500 scfm John Zink utility flare and the 2,500 scfm LFG Specialties utility flare will provide a combined design flow of the four utility flares of 14,000 scfm. Authorization to Construct is anticipated to be issued by the end of July 2013. The installation of the 4,000 scfm utility flares is anticipated to be completed shortly after permit issuance with operations of each unit by the end of third quarter

2013. Utility flares are better suited to handle the lower heating value gas at the Bridgeton Landfill resulting in less downtime of the control devices.

4. A natural gas line has been installed in the vicinity of the flare compound. It will be connected to the gas collection system if the lower heating value or hydrogen concentration drop below levels to effectively operate the landfill gas control devices.
5. The Bridgeton Landfill will be upgrading the landfill gas coolers at the east utility flare (2,500 scfm LFG Specialties) and at the flare compound in the near future. This improvement will result in additional vacuum available to the well field.

The improvements associated with the liquid conveyance system and the landfill gas control devices are essential to address methane migration at the facility. These efforts should result in a decrease in pressure within the landfill and improved landfill gas collection efficiencies within the south quarry. The liquid force main modification and the liquid treatment system will be submitted to the MDNR for review and approval. The landfill appreciates the continued support to address the SSE in a timely manner and appreciates an expedited review of these submittals.

Monitoring results of the nested gas and temporary monitoring probes have shown that methane is migrating through the weathered bedrock and additional controls are likely needed to address these exceedances. However, due to increased liquid generation associated with the SSE, the effectiveness of the recent improvements could not be determined. It is requested to further evaluate the zone of migration of the impacted gas monitoring and temporary monitoring probes with weekly water level readings and monitoring of the impacted probes to better delineate if methane is migrating through deeper zones. It is requested that this evaluation period be extended through the third quarter 2013. At that time a comprehensive corrective action plan will be submitted evaluating the impact of the recently-completed capping, other recent measures, and the proposed measures described above. During this period the landfill will continue to complete improvements to the liquid conveyance system in efforts to minimize liquids within the gas collection system.

5.0 CONTINUED MONITORING AND REPORTING

The Bridgeton Landfill will initiate weekly monitoring of all monitoring probes including the gas monitoring probes, sentry probes and temporary monitoring probes. The Bridgeton Landfill proposes that landfill gas corrective summary reports to be incorporated into the quarterly report and submitted by the 15th of each month following a calendar quarter. These reports will summarize all corrective action completed to address methane migration within the prior quarter and, if elevated levels persist, provide a corrective action plan to address the methane exceedances.

Bridgeton Landfill understands that the submittal of quarterly landfill gas corrective action summary reports and corrective action plans is at a higher frequency than outlined in Paragraph 4 of the January 17, 2011 Settlement Agreement between the MDNR and the Bridgeton Landfill but believes that incorporation in the quarterly report is valuable.

This section of the report will include at a minimum a review previous data, evaluate effectiveness of efforts made to control migration, and propose additional measures directed at eliminating detection levels in gas monitoring probes. As a regular procedure, these reports will be submitted by the 15th of each month following a calendar quarter.

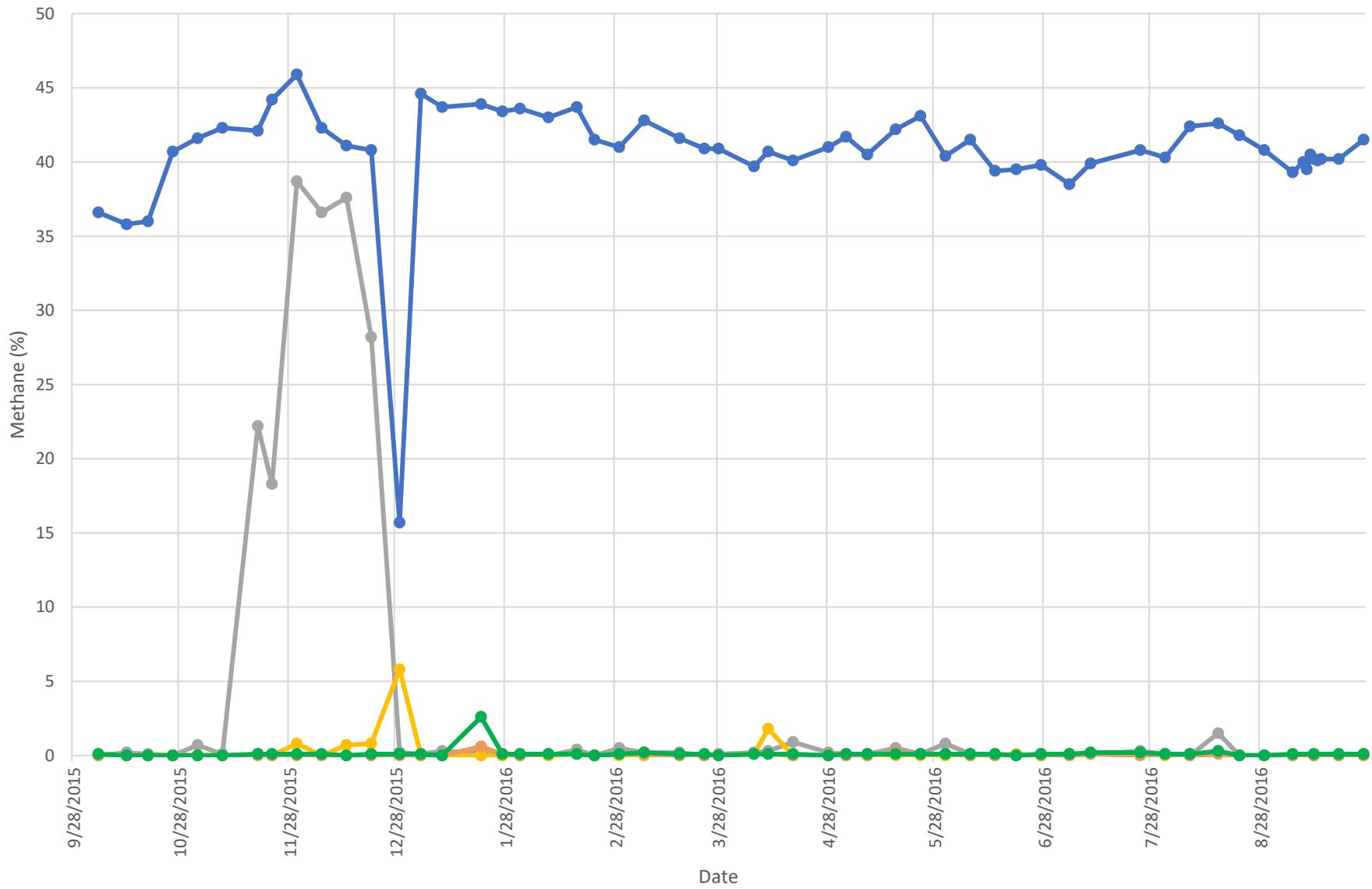
Bridgeton Landfill will continue to take aggressive action to control the impacts of the SSE, evaluate corrective measures to address methane migration within the weathered bedrock and improve gas collection within the limits of waste. Any major new gas migration control features needed--particularly those located outside the limit of waste--would be designed and sealed by a Missouri professional engineer and submitted to the MDNR for comment and approval.

The MDNR will continue to provide ongoing review, comment, and approval of actions as it deems necessary. This reporting process will continue until Bridgeton Landfill demonstrates uninterrupted compliance with the MDNR's methane regulations (all compliance gas monitoring probes less than 2.5% methane) for a period of one year.

APPENDIX B

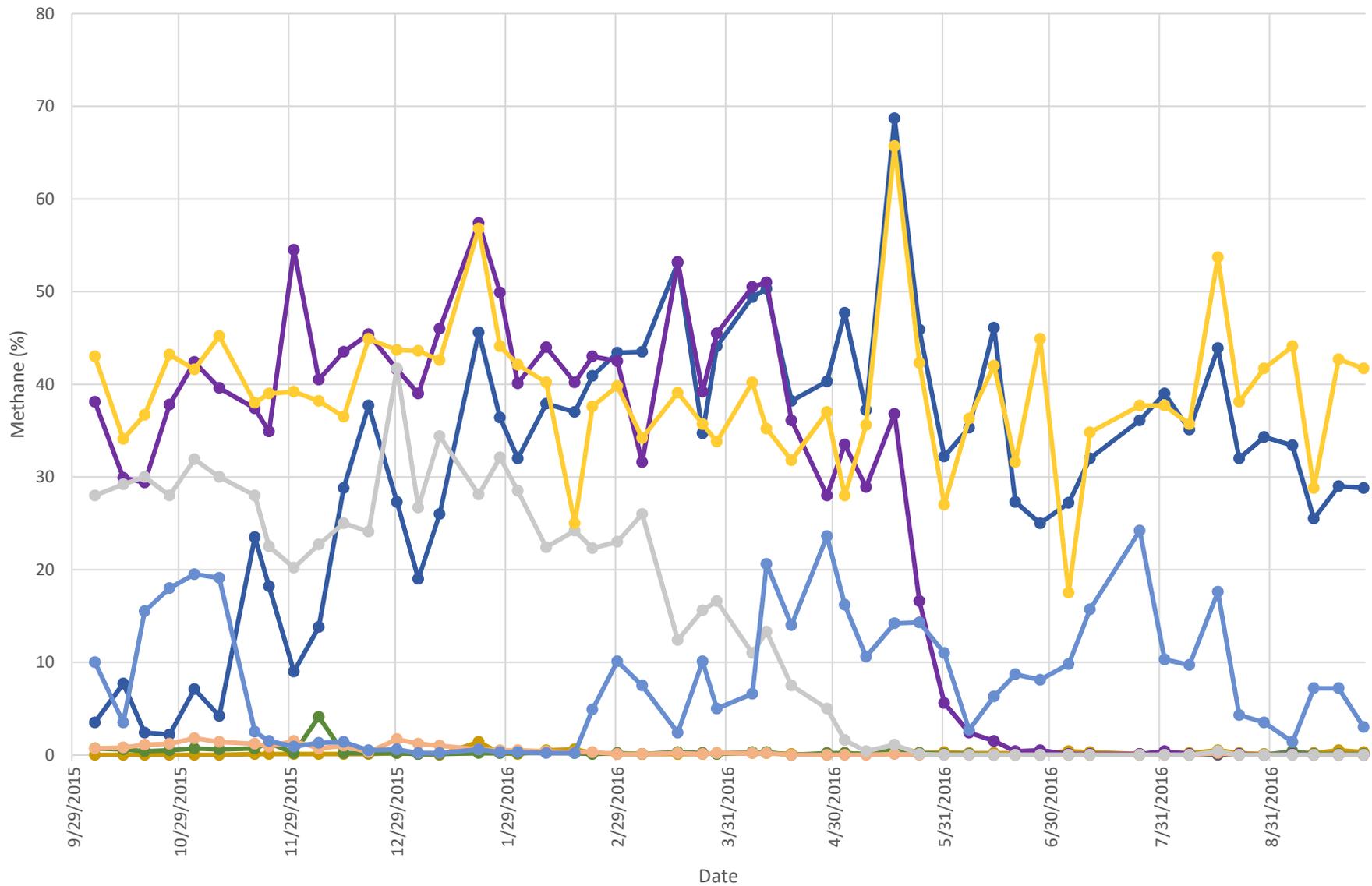
GAS MONITORING PROBE METHANE LEVEL GRAPHS

Southern and Western Compliance Probes



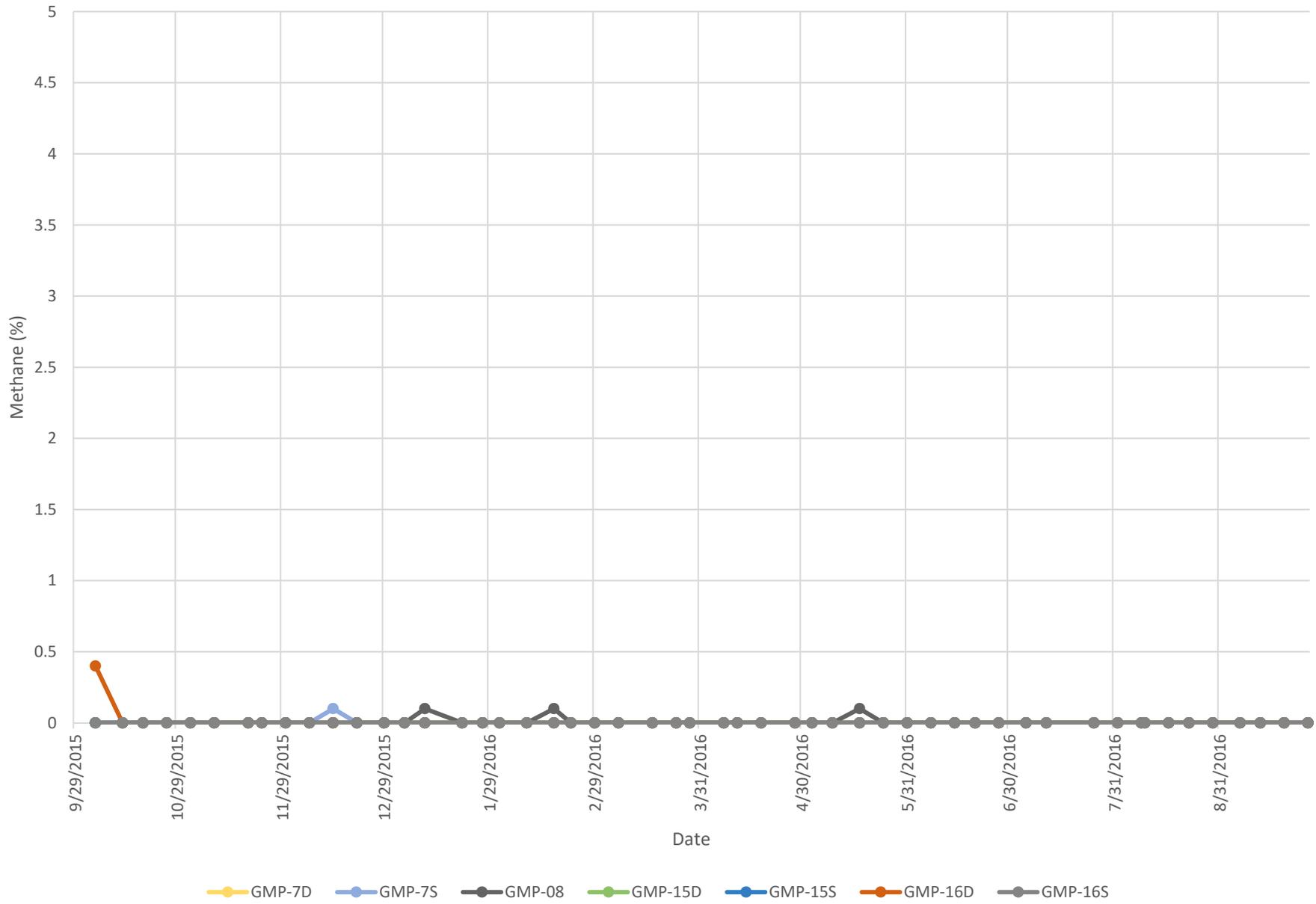
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Eastern Compliance Probes

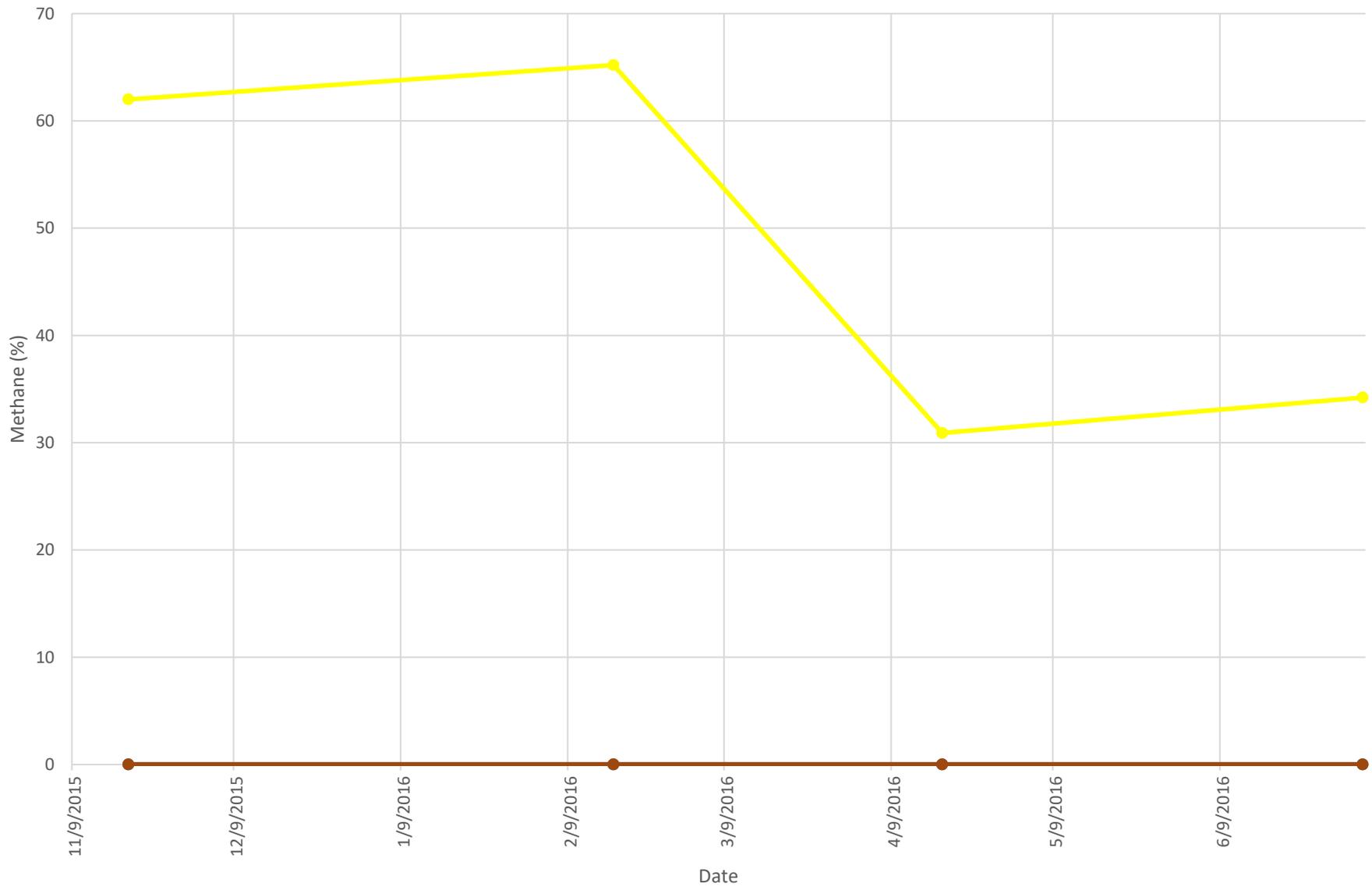


Legend: GMP-4D (yellow), GMP-4S (dark blue), GMP-5D (green), GMP-5S (purple), GMP-6D (orange), GMP-6S (grey), GMP-14D (gold), GMP-14S (light blue)

North Compliance Probes

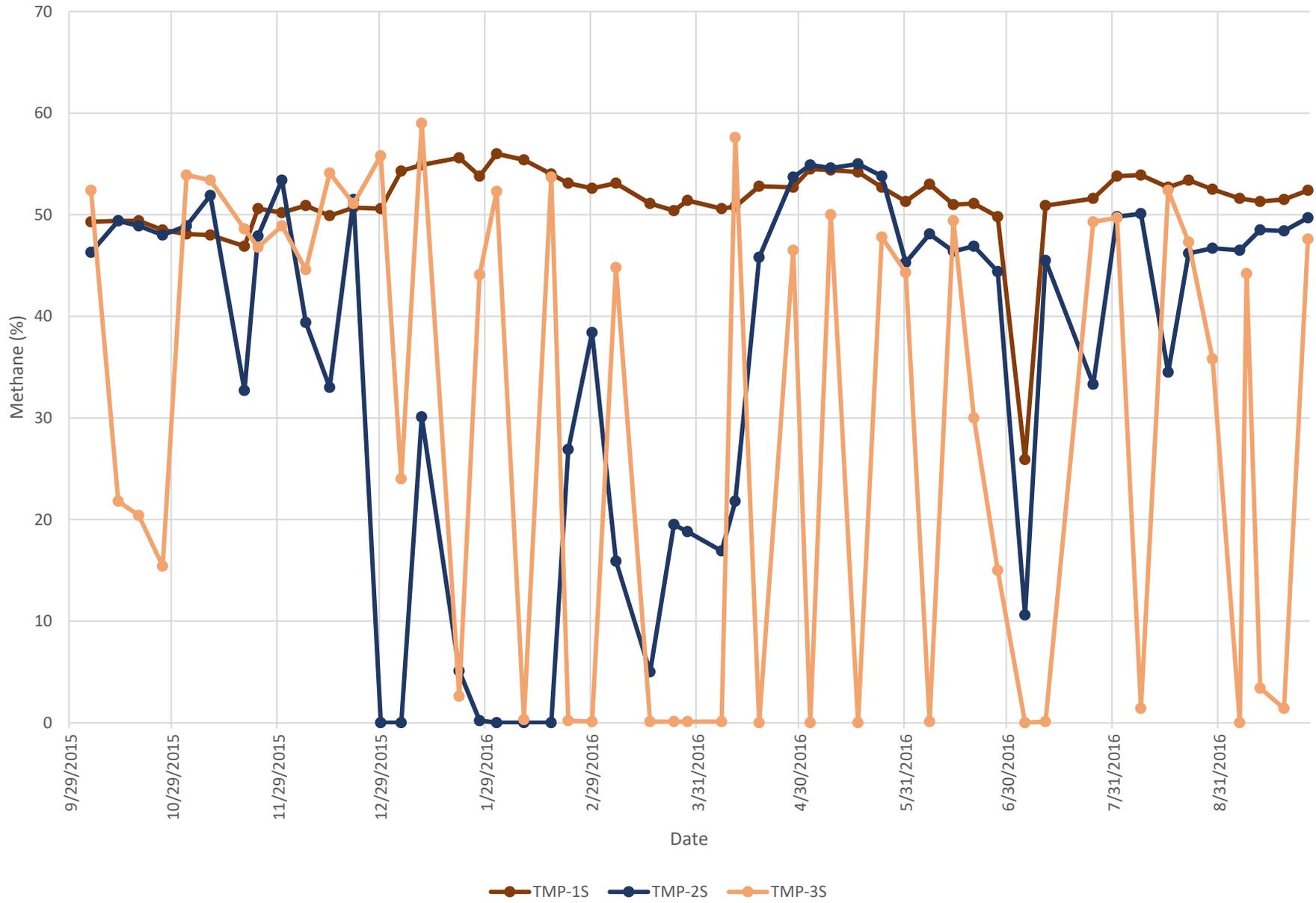


Sentry Probes

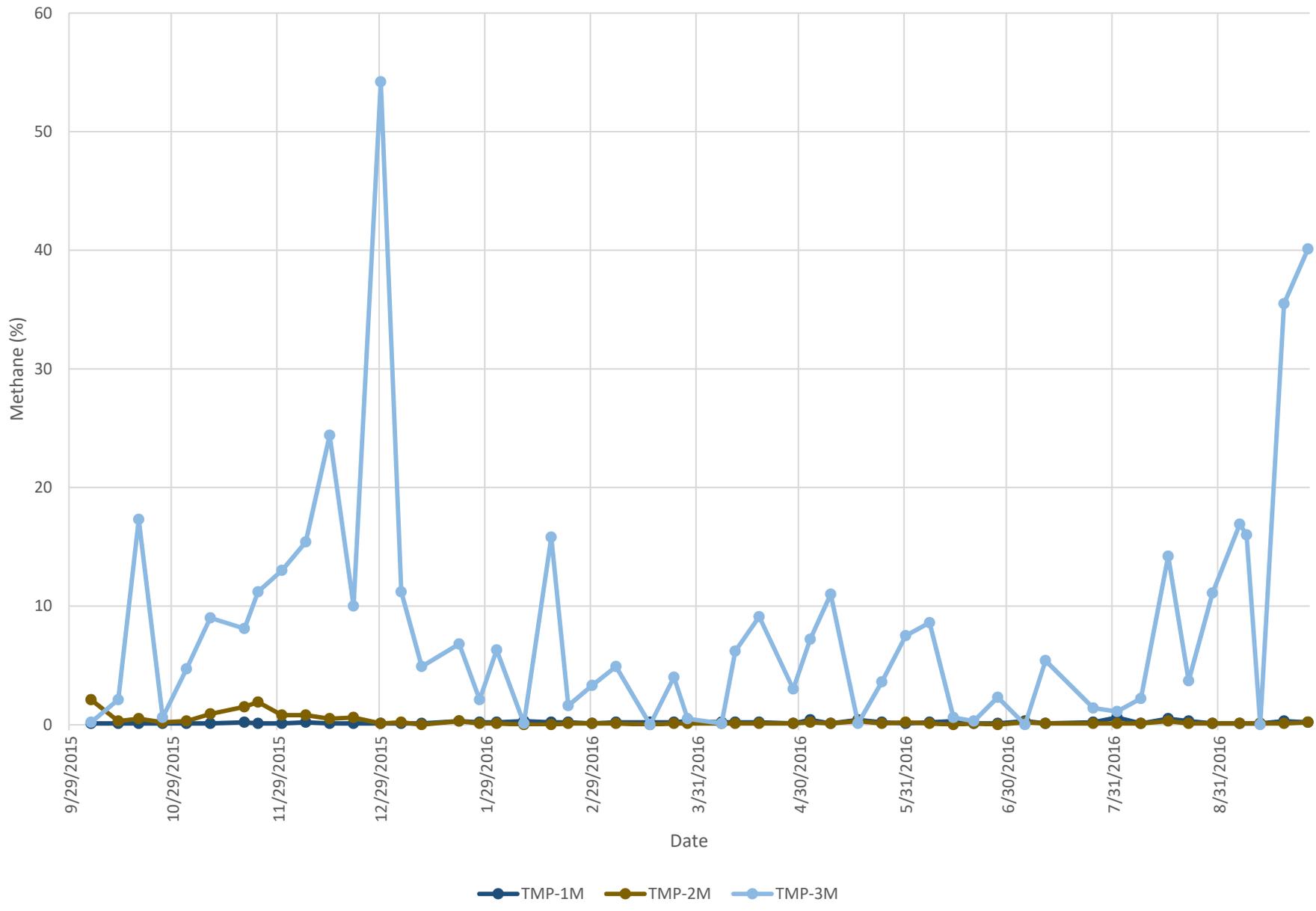


—●— GMP-05 —●— GMP-06 —●— GMP-07

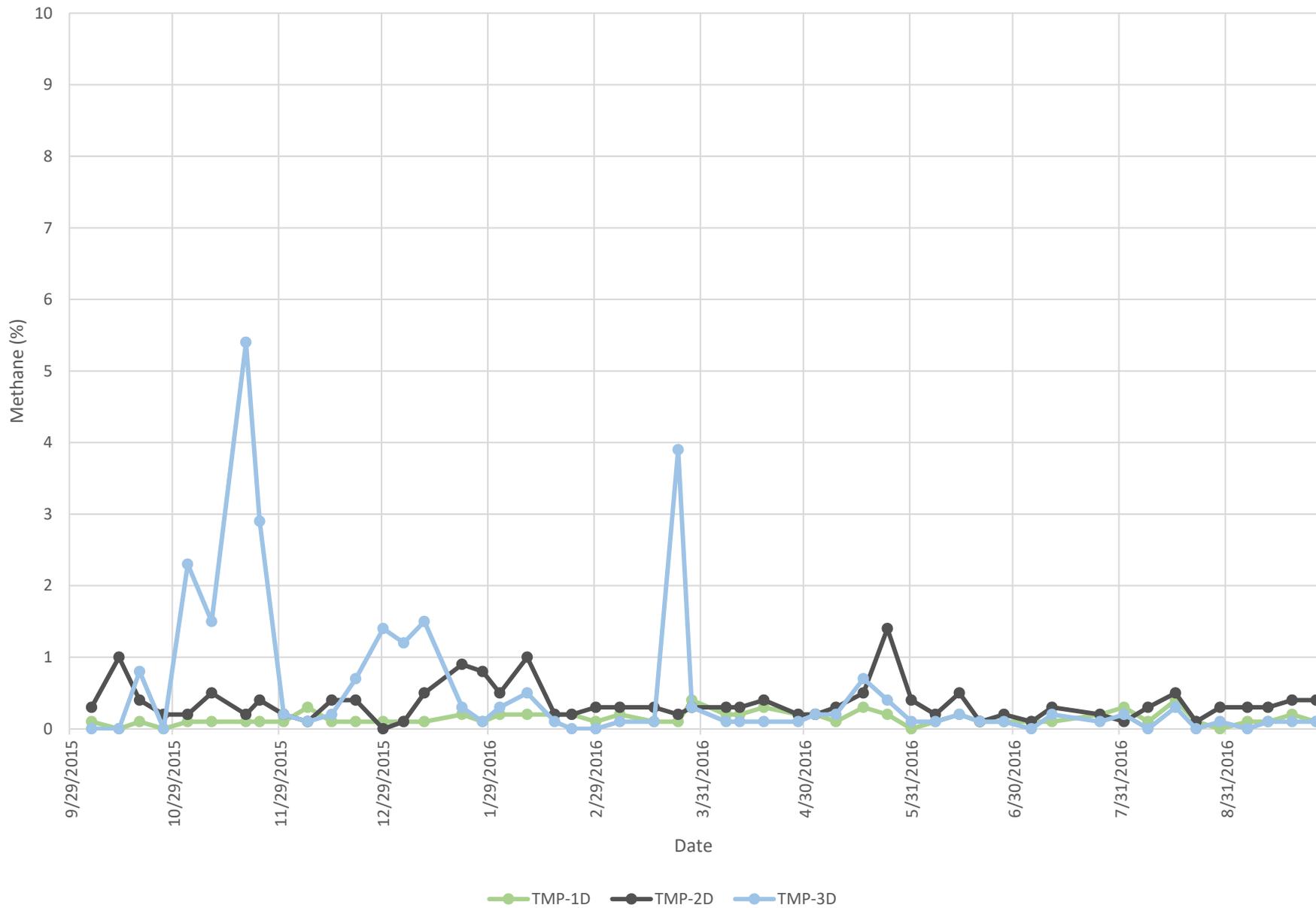
Shallow Investigative Probes



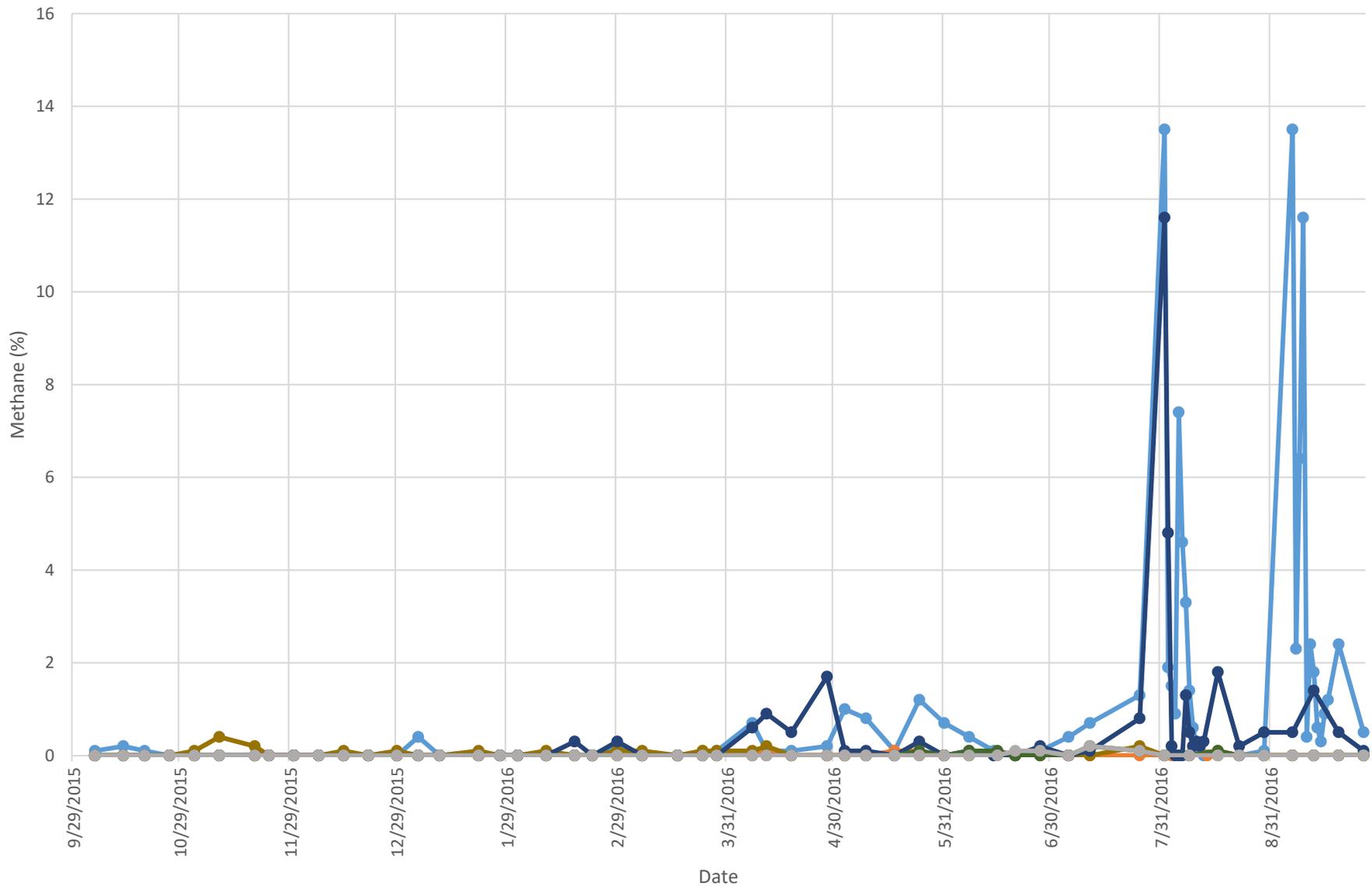
Mid Investigative Probes



Deep Investigative Probes



Public Safety Probes



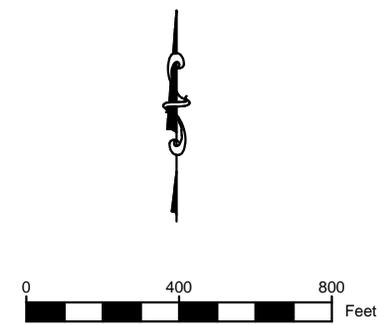
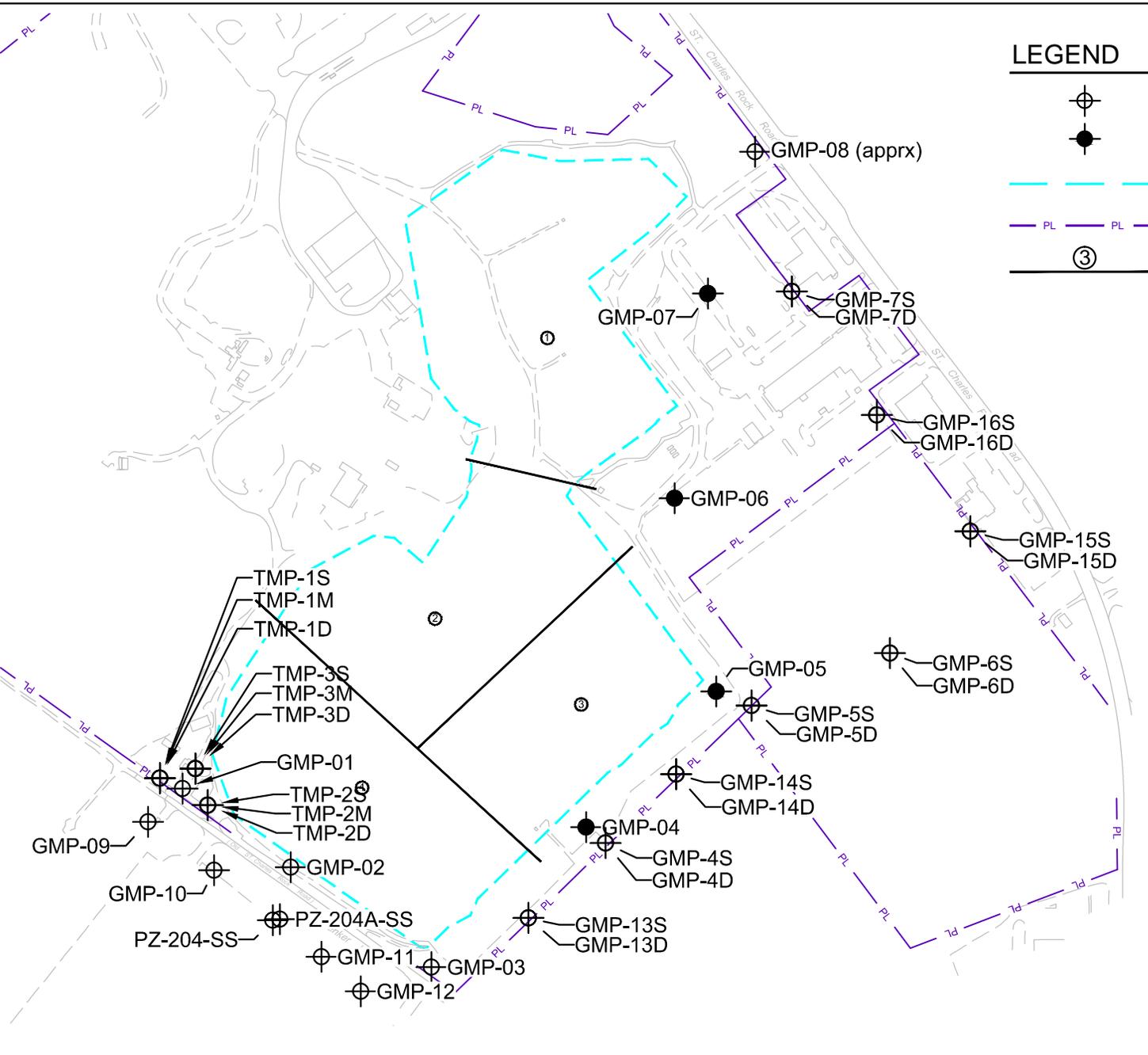
4ASS 4OSS GMP-09 GMP-10 GMP-11 GMP-12

APPENDIX C

INFRASTRUCTURE SITE PLAN, GAS MONITORING PROBE LOCATIONS

LEGEND

-  LFG WEEKLY MONITORING PROBE
-  LFG QUARTERLY MONITORING PROBE
-  PERMITTED WASTE LIMIT
-  PROPERTY LINE
-  QUADRANT BOUNDARIES



BRIDGETON LANDFILL LLC
13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

BRIDGETON LANDFILL
SITE INFRASTRUCTURE



DECEMBER 2013
DESIGNED BY: PML
APPROVED BY: ---

DRAWING NO.:

001

GAS MONITORING PROBES

REVISION DATE

APPENDIX D

LANDFILL GAS COLLECTION ENHANCEMENTS

BRIDGETON LANDFILL 2016

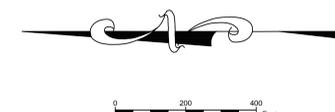
Q2 LFG CORRECTIVE ACTION PLAN

BRIDGETON LANDFILL, LLC
13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

| INDEX OF DRAWINGS | |
|-------------------|-------------------------|
| | TITLE PAGE |
| 001 | ITS AND GEW - SITE VIEW |
| 002 | ITS AND GEW - PLAN VIEW |



3405 HOLLENBERG DRIVE
BRIDGETON, MO 63044
TEL. (217) 483-3118
FAX. (217) 483-2356



NOTE: SEVERAL SIGNIFICANT PROJECTS ARE CURRENTLY UNDER CONSTRUCTION AT SITE.
 AS-BUILTS TO BE SUBMITTED UPON COMPLETION AND CERTIFICATION.

| BRIDGETON LANDFILL, LLC 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044 | BRIDGETON LANDFILL 2016 Q2 LFG CORRECTIVE ACTION PLAN |  Engineering for a Better World FEEZOR ENGINEERING, INC. | JULY 2016 | DRAWING NO.: 001 | | | | |
|--|---|---|------------------|---|----------|------|--|--|
| | | | DESIGNED BY: AMR | | | | | |
| ITS AND GEW - SITE VIEW | | | APPROVED BY: DRF | <table border="1"> <tr> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table> | REVISION | DATE | | |
| | | | REVISION | | DATE | | | |
| | | | | | | | | |
| PROJECT NO: BT-024 FILE PATH: D:\Users\FEZOR\Documents\Projects\Bridgeton\2016 Q2 LFG CORRECTIVE ACTION PLAN | | | | | | | | |



LEGEND

| | | |
|---|---------|-------------------------------|
|  | 2X4L | 2x4" DUAL CONTAINED FORCEMAIN |
|  | 2A | 2" AIRLINE |
|  | 6G | 6" LFG LATERALS |
|  | 4G | 4" LFG LATERALS |
|  | 3G | 3" LFG LATERALS |
|  | 2G | 2" LFG LATERALS |
|  | ITS7 | ITS 18" SUMPS |
|  | GEW-167 | GEW 18" LFG WELLS |
|  | GEW-177 | PROPOSED GEW 18" LFG WELLS |

| | | | | |
|--|---|---|--------------------------------------|----------------------------|
| BRIDGETON LANDFILL, LLC 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044 | BRIDGETON LANDFILL 2016 Q2 LFG CORRECTIVE ACTION PLAN |  | JULY 2016 | DRAWING NO.: 002 |
| | | | DESIGNED BY: AMR APPROVED BY: DRF | |
| ITS AND GEW - PLAN VIEW | | | REVISION DATE | |
| <small>PROJECT NO: BT-024 FILE PATH: D:\Users\TJ\Desktop\Approved\0187-024 - 2016 Q2 LFG CAP.dwg</small> | | | | |

Gas Well ID: GEW-177

Sheet: 1 of 1

Project: Gas Well Installation CQA

Site Location: Bridgeton, MO

Client: Bridgeton Landfill LLC

Project No.: BT-117

Ground Elevation: 495.6' MSL

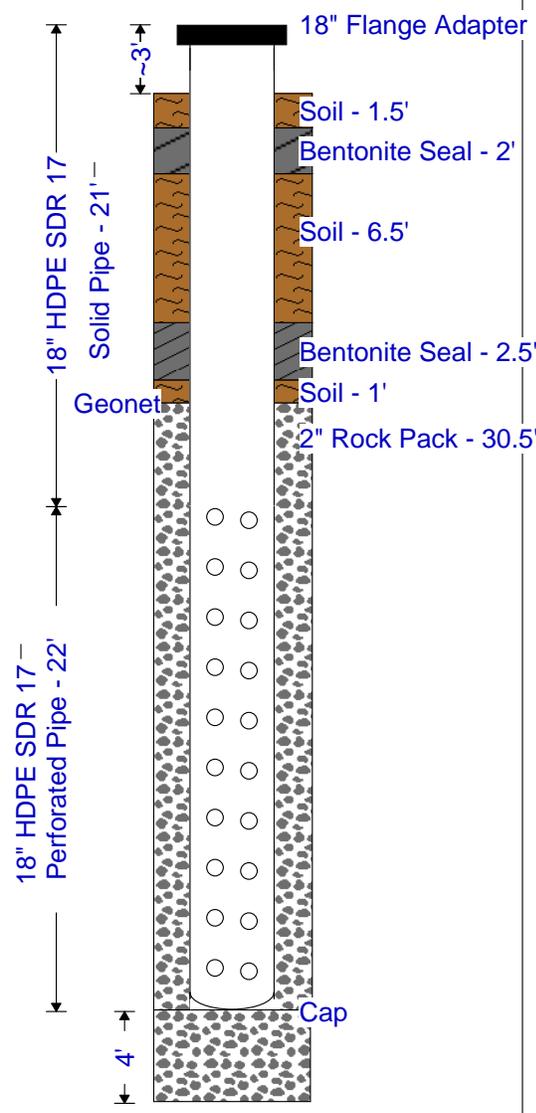
Northing: 1,066,520.1

Easting: 516,083.4



SUBSURFACE PROFILE

| Depth | Graphic Log | Description | Notes | Well Completion Details |
|-------|-------------|--|---|--|
| -5 | | | | |
| 0 | | Ground Surface | Ground EL. 495.6' | |
| 0-6 | | 0-6 Soil | Top of Bentonite EL. 494.1' Top of Soil EL. 492.1' Temperature 126.8° F | 18" Flange Adapter Soil - 1.5' Bentonite Seal - 2' |
| 6-21 | | 6-21 Household, C&D, Carpet, Wood, Metal; DRY | Temperature 148.7° F Top of Bentonite EL. 485.6' | Soil - 6.5' |
| 21-22 | | 21-22 Soil | Top of Soil EL. 483.1' Top of Gravel EL. 482.1' Temperature 188.5° F | Bentonite Seal - 2.5' Soil - 1' |
| 22-26 | | 22-26 Household, Metal, C&D, Wood, Wire; SLIGHT | Temperature 191.6° F | 2" Rock Pack - 30.5' |
| 26-27 | | 26-27 Soil | Temperature 201.6° F | |
| 27-44 | | 27-44 Household, Wood, Cloth, C&D, Wire; SATURATED | Temperature 193.5° F Temperature 193.8° F Temperature 202.3° F | |
| 45 | | | EL. 451.6' | Cap |



Drilled By: Recovery Drilling Services
Drill Method: Core Barrel Bucket
Drill Date: 7/19/2016
Boring Size: 36" OD