



April 24, 2019

Mr. Mike Kovalchick  
 Michigan Department of Environmental Quality  
 Air Quality Division  
 Jackson District Office  
 Jackson State Office Building  
 301 East Louis B. Glick Highway  
 Jackson, Michigan 49201-1556

Subject: **Advanced Disposal Services – Arbor Hills Landfill, Inc.**  
 Response to Violation Notice Dated April 11, 2019

Dear Mr. Kovalchick:

Advanced Disposal Services Arbor Hills Landfill, Inc. (Arbor Hills) received a Violation Notice (VN) dated April 11, 2019 from Michigan Department of Environmental Quality (MDEQ) Air Quality Division (AQD). The table below presents the rule/permit conditions allegedly violated as stated in VN. This letter and referenced attachments provide the requested written response.

Table taken from VN dated April 11, 2019:

Process Description	Rule/Permit Condition Violated	Comments
Municipal solid waste landfill (MSWL), Gas Collection and Control System (GCCS)	40 CFR Part 60 – Standards of Performance for New Stationary Sources 40 CFR 60.11(d); 40 CFR Part 60 Standards of Performance for New Stationary Sources-Subpart WWW- MSWL; 40 CFR Part 63 – National Emission Standards for Hazardous Air Pollutants for Source Categories 40 CFR 63.6(e)(1)(i); Rule 299.4433 (7) (a) and (e) of Part 115 - Type II landfill operation, explosive gas control and monitoring; Rule	An Elevated Temperature Landfill (ETLF) event is negatively impacting the GCCS system and exacerbating the odor problem at the landfill. The Company failed to timely diagnose the problem and has yet to fully implement appropriate corrective actions that are required to contain the event.
	299.4434 (1) of Part 115 – Type II landfill operation air criteria.	

Arbor Hills Landfill self reported to MDEQ AQD staff at a meeting on April 2, 2019 that several wells located in relatively close proximity to one another have elevated temperatures above that allowed by NSPS 40 CFR Part 60 Subpart WWW. Arbor Hills also acknowledges, as we have done in prior correspondence with AQD, that higher operating values (HOVs) for temperature for these wells were not requested within the NSPS prescribed 15-day timeframe. However, we must respectfully disagree with certain statements in the VN regarding when AQD became aware of elevated landfill temperatures, the timeliness of diagnosis and implementation of corrective actions by Arbor Hills, the elevated temperature event not being contained, and the ramifications associated with these elevated temperatures. We explain our position further below.

The elevated temperatures are present in an isolated area of the landfill. This area of the landfill has exhibited elevated temperatures since May 2016 which AQD has been aware of since at least November 2016 as indicated in AQD's HOV approval letter to BFI Waste Systems of North America, LLC for wells WW284, WW285, WW286, and WW258R dated December 2, 2016 (**refer to Attachment 1**). This 2016 approval letter acknowledges ongoing thermogenic decomposition as opposed to the preferable methanogenic decomposition process at these four (4) well locations. In addition, gas well monitoring data including temperatures is routinely submitted to AQD. In more recent correspondence with AQD, Arbor Hills has also communicated the elevated temperatures seen in gas wells in this area of the landfill are believed to be due to the non-methanogenic degradation of a special waste stream previously accepted at the landfill. Given the nature of this waste and the fact that this material was segregated within the waste mass, the lack of methanogenic activity is not unexpected. Arbor Hills ceased acceptance of this special waste stream in November 2016. This coincides with the timeframe of initially seeing elevated temperatures and associating this special waste stream's impact on temperatures within the landfill at the four (4) above noted gas wells. Terminating acceptance of this special waste stream, the source of the elevated temperatures, was a timely corrective action taken by Arbor Hills.

While the number of wells with elevated temperatures has increased since 2016, the overall bounding area of elevated temperatures within the landfill has remained essentially unchanged based on the location of wells in the 2016 HOV approval, and the wells included in Arbor Hills March 28, 2019 HOV request submitted to AQD (**refer to Attachment 2**). Current wells AHW0285R and AHW0286R in the March 28, 2019 request were actually replacement wells for 2016 wells WW285 and WW286, respectively. WW258R from 2016 still remains the southernmost well relative to 2019 well requests, and with the exception of AHW272R2, AHW0286R remains the northernmost well in the elevated temperature area. The other 2019 elevated temperature well locations generally fall in between these locations with slight east-west offsets as depicted on the drawing included with the March 28, 2019 HOV request. Wells AHW0297 and AHW0315 are outliers. Given the almost 3 year period between May 2016 and April 2019, and the essentially unchanged area of elevated temperatures suggests the area of concern is contained or at least not spreading quickly.

While Arbor Hills agrees elevated temperatures can have significant ramifications and adverse impacts to a GCCS system, impacts to the GCCS at Arbor Hills from elevated temperatures are not readily discernible. Elevated temperatures are just one of many

conditions present within the landfill environment that can negatively impact a landfill's gas collection and control system (GCCS). Arbor Hills replaces GCCS infrastructure when its physical integrity has been compromised. Based on historical gas well replacement data, the frequency of GCCS infrastructure replacement in the elevated temperature area is actually less than seen in other areas of the landfill. In fact, Arbor Hills has replaced individual well locations in other areas as many as 5x as evidenced by well ID's ending in "R5" compared to zero or 1x in the elevated temperature area of the landfill. This would suggest the current elevated temperatures have not unduly impacted the GCCS infrastructure. In addition, one of the permit conditions the VN cites would suggest elevated temperatures have also resulted in elevated liquid levels within the gas wells. As indicated by data in the March 28, 2019 HOV request, while liquids may be present in wells, there is no direct correlation between elevated well temperatures, liquid levels, or exposed well screen, or evidence that elevated temperatures lead to elevated liquids.

In terms of corrective actions, although Arbor Hills ceased acceptance of the special waste stream in November 2016, how long this material may continue to degrade and generate elevated temperatures is unknown. Therefore, after collecting supporting field and laboratory data, Arbor Hills submitted an HOV temperature request for select gas wells dated March 28, 2019 which also outlined a corrective action plan for the elevated temperature area. The plan was based on current accepted industry best practices which have been implemented at other landfills with elevated temperature areas. The key element to remediating this condition is to remove the heat and take the energy out of the reaction. To allow heat to build within this area of the waste mass will likely result in the condition intensifying. A key component of the plan included getting HOV's for temperature for wells in this area approved by AQD. AQD rejected the HOV request in response letter dated April 11, 2019 (see **Attachment 3**).

Without an approved HOV for temperature for the requested wells, Arbor Hills is left without a clear path on how to address the elevated temperature area. In order to comply with NESHAP's "best air pollution control practices to minimize emissions," Arbor Hills needs to open up the valves on the wells in this elevated temperature area to extract the heat, thereby lowering the temperature, consistent with accepted industry best practices for these type events. However, doing so will result in wells having temperatures in excess of the 131 degrees F limit in NSPS without an approved HOV.

Given the above apparent conflict with ability to comply with both NESHAP and NSPS requirements, Arbor Hills would ask that AQD reconsider the March 28, 2019 HOV request. The NSPS recognize that any landfill, at times, may experience elevated temperatures in one or more gas wells and sets out a procedure to address the situation. The mere existence of elevated temperatures, in and of itself, is not unusual or a condition that necessarily impacts gas collection efficiency. We ask for the DEQ's cooperation in allowing us to work within the NSPS program to carry out the necessary engineering measures to correct this condition.

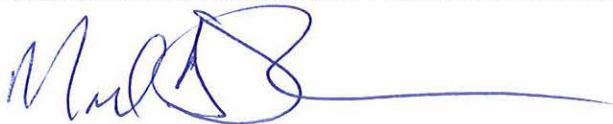
Delaying HOV approval to include as part of an enforcement action seems contradictory to addressing AQD's concern of a "significant elevated temperature event" with "immediate and aggressive corrective action". Approval of the HOV request now, will allow Arbor Hills to aggressively pull on the wells to remove the heat, rather than tuning

them down in an effort to comply with NSPS temperature requirements. Increasing applied vacuum to these wells as soon as possible is imperative and will have the biggest impact on reducing temperatures in this area of the landfill. AQD approved this requested approach previously in December 2016 given the same conditions, so such an approval would not be precedent setting.

Arbor Hills considers environmental compliance to be non-negotiable and will diligently pursue reducing elevated temperatures within this area of the landfill and work to avoid any reoccurrence. AQD's assistance in this regard via approval of the March 28, 2019 HOV request would be appreciated, or alternatively AQD's guidance on how best to address the conflict of Arbor Hills ability to timely comply with both the NESHAP and NSPS absent approval of the HOV request. If you have additional questions, please contact me at 248-412-0704, Anthony Testa at 734-718-4262, or Randy Frank at 414-422-9075 ext. 102.

Sincerely,

**ADVANCED DISPOSAL SERVICES ARBOR HILLS LANDFILL, INC.**



Mark Johnson  
Arbor Hills Landfill - General Manager

cc: Ms. Jenine Camilleri – DEQ Enforcement Unit Supervisor  
Michigan Department of Environmental Quality  
Air Quality Department  
P.O. Box 30260  
Lansing, MI 48909-7760

cc: (via e-mail)

Mr. Jay Warzinski, Advanced Disposal Services  
Mr. Randy Frank, Advanced Disposal Services  
Mr. Anthony Testa, Advanced Disposal Services  
Mr. Nathan Frank, USEPA  
Ms. Sarah Marshall, USEPA  
Mr. Kenneth Ruffatto, USEPA  
Ms. Mary Ann Dolehanty, DEQ  
Mr. Chris Ethridge, DEQ  
Mr. Scott Miller, DEQ  
Ms. Jenine Camillari, DEQ  
Mr. Jeff Rathbun, DEQ  
Ms. Diane Kavanaugh Vetort, DEQ  
Mr. Lonnie Lee, DEQ  
Mr. Larry Bean, DEQ  
Mr. Greg Morrow, DEQ  
Ms. Alexandria Clark, DEQ  
Ms. Melinda Shine, DEQ

# Attachment 1



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
JACKSON DISTRICT OFFICE



C. HEIDI GREYER  
DIRECTOR

December 2, 2016

Ms. Christina L. Pearse-Bossick  
Environmental Manager  
BFI Waste Systems of North America, LLC.  
5011 S. Lilley Road  
Canton, Michigan 48188

Dear Ms. Pearse-Bossick:

SUBJECT: SRN: N2688 Arbor Hills Landfill, Washtenaw County  
Request for Higher Operating Values pursuant to 40 CFR 60.753 (c)

The Michigan Department of Environmental Quality, Air Quality Division (AQD), received a letter from you dated November 9, 2016, on behalf of Arbor Hills Landfill, Inc. (AHL), requesting a higher operating value (HOV) for Temperature for Wells 284, 285, 286, and Well 258R (exhibited temperature in excess of 131 degrees Fahrenheit (F)), and a higher operating value for Oxygen for Well 320 (exhibited oxygen in excess of 5%) at AHL.

The New Source Performance Standard (NSPS) for Municipal Solid Waste Landfills, 40 CFR 60, Subpart WWW requires AHL to monitor its well field on a monthly basis in accordance with 40 CFR 60.755(a). These requirements are also contained in AHL Renewable Operating Permit MI-ROP-N2688-2011, Section 2.

A brief summary of AHL's request and AQD's response is provided in the following paragraphs. AHL attached 6-months of wellhead data for these wells.

**WW284, WW285, WW286, and WW258R** had temperature in excess of 131 degrees F since May 24, 2016, June 10, 2016, May 19, 2016, and June 15, 2016 respectively. AHL requested a HOV of 160 degrees F for Wells 284, 285 and 286. AHL requested a HOV of 150 degrees F for Well 258R. AHL stated in an earlier letter dated June 10, 2016 that **WW284** and **WW286** had carbon monoxide (CO) readings of less than 50 parts per million (ppm). The current letter states **WW258R** most recent CO reading on August 23, 2016 shows concentration of 30 ppm. Furthermore, AHL's request explains that the gas composition was analyzed and it appears that thermogenic decomposition is predominant instead of the preferable methanogenic decomposition. They propose to operate the wells at a higher temperature for an extended period of time. It is expected that by increasing the flow of gas out of the waste mass, the temperature of the remaining waste will lower.

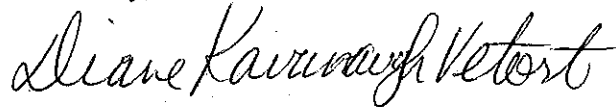
AQD finds this to be a reasonable proposal and approves of the HOV temperatures for the subject wells at this time. AQD requests AHL submit to AQD in approximately 6 months from now the results of this exercise and the progress of reducing the Well temperatures.

AQD noted that the 6 months of Well data included in the request also indicates **WW284** and **WW286** have had oxygen consistently in excess of 5%.

**WW0320** had oxygen in excess of 5% from July 21, 2016. AHL requested a HOV of 20% oxygen for this well. AHL's request states the well field was expanded within 120 days of the initial exceedance. They state the well is not in the waste mass. AQD approves of this HOV contingent on AHL continued monitoring of the Well and the gas quality, and making adjustments if necessary to reduce this % oxygen.

Thank you for your cooperation. If you have any questions pertaining to this response please contact me at the number listed below.

Sincerely,



Diane Kavanaugh Vetort  
Senior Environmental Quality Analyst  
Air Quality Division  
(517)780-7864

cc. Mr. Dana Oleniacz, Air Quality Specialists, Inc. (AQSI)  
Mr. Larry Bean, DEQ  
Mr. Scott Miller, DEQ

## **Attachment 2**





March 28, 2019

Ms. Diane Kavanaugh-Vetort  
 Michigan Department of Environmental Quality  
 Jackson District Office  
 Jackson State Office Building  
 301 Louis Glick Highway  
 Jackson, Michigan 49201

Subject: **Arbor Hills Landfill, Inc. - Advanced Disposal Services**  
 Alternate Operating Temperature Request: AHW259R2, AHW272R2,  
 AHW0290, AHW0297, AHW0299, AHW0301, AHW0302,  
 AHW0310R, AHW0311, AHW0312, AHW0315, AHW285R,  
 AHW286R

Dear Ms. Kavanaugh-Vetort:

Arbor Hills Landfill, Inc. - Advanced Disposal Services is subject to the New Source Performance Standards (NSPS) for Municipal Solid Waste (MSW) Landfills, 40 CFR 60, Subpart WWW, and Renewable Operating Permit (ROP) number MI-ROP-N2688-2011. The facility operates a gas collection and control system that complies with the requirements of the NSPS.

**Request for Alternate Operating Conditions for Temperature**

Arbor Hills is requesting an alternate operating condition to allow higher operating temperatures for thirteen vertical gas extraction wells located primarily on the upper north portion of the landfill. A summary of the gas extraction well, including the most recent CO reading, hydrogen concentration, depth to liquid, depth to bottom, and the requested temperature, is provided as Table 1. These points are also included on the drawing provided as Attachment 1.

TABLE 1  
 Requested Alternate Operating Conditions for Temperature

Well ID	Requested Temp (F)	Depth to Liquid (ft)	Depth to Bottom (ft)	Carbon Monoxide Concentration (ppm)	CH <sub>4</sub> /CO <sub>2</sub> Ratio	Hydrogen Concentration (%)
AHW259R2	160	45.1	45.1	33.9	<1	0.05

Well ID	Requested Temp (F)	Depth to Liquid (ft)	Depth to Bottom (ft)	Carbon Monoxide Concentration (ppm)	CH4/CO2 Ratio	Hydrogen Concentration (%)
AHW272R2	170	52.6	62.2	14400	<1	5.86
AHWW0290	170	115.8	150	0	1.47	N/A
AHWW0297	160	80	113	N/A	<1	N/A
AHWW0299	160	82.3	92.1	12.2	1.51	0.02
AHWW0301	160	100	130	19.3	<1	<0.02
AHWW0302	160	75	90.1	18.6	<1	0.03
AHWW0310R	150	68	150	25.9	1.47	<0.02
AHWW0311	150	91.5	120	8.41	1.49	0.04
AHWW0312	160	85.5	126.1	10.1	<1	0.04
AHWW0315	150	77	150	N/A	<1	N/A
AHWW0285R	170	72.9	85.6	19.2	<1	<0.02
AHWW0286R	180	64.6	150	567	<1	0.05

Arbor Hills believes the elevated temperatures in this area are attributed to the non-methanogenic degradation process of a special waste stream accepted at the landfill. Arbor Hills is also adjusting O&M of surrounding wells to increase the removal of heat from this area of the site. Arbor Hills acknowledges that, in some instances, this HOV request will not have been submitted within 15 days of the original exceedance.

As stated above, in some cases, these wells currently exceed the air permit operating conditions of 131 deg. F. The current operating temperature limit (i.e. 131 deg. F) does not allow these wells to be operated most effectively. Current construction activities at Arbor Hills include installing new air, forcemain, and pump installation to a majority of the wells included in this HOV request to allow for effective gas extraction. In doing so, Arbor Hills anticipates that temperatures will increase above their current status as liquid extraction progresses. As a result, Arbor Hills anticipates that wells will only be able to be opened slightly and the wells will not be able to operate in a manner in which they could provide the most effective means of gas extraction.

Additionally, the methane concentrations at these wells have slowly diminished over time, which indicates that the anaerobic decomposition is being inhibited by the elevated temperatures.

A visible inspection of the well head and the area surrounding the well was conducted. Due to the high temp levels, visible cracks, fissures, and settlement were noted. Again, Arbor Hills believes the elevated temperatures in this area are attributed to the non-methanogenic degradation process of a special waste stream accepted at the landfill and extraction of heat and liquid. In addition, Arbor Hills is implementing the following steps:

- Delineation of the area through supplemental CPTs to establish horizontal/vertical extent.

- Replacement of restricted wells to reduce liquid levels to expose screen and extract the LFG/remove the heat.
- Increased maintenance of vertical extraction pumps within the existing wells to maintain well screen maintain LFG extraction/heat removal.
- Regrading of the surface in preparation for geosynthetic temp cap.

A historic review of wells indicates that the wells started to operate above 131 deg. F on a more consistent basis in May 2018. Well AHWW0290 showed the elevated temperature in January 2018. While well 311, did not show elevated temperatures until August 2018. Most recently, well AHW272R2 has just started to exhibit elevated temperatures in March 2019 and is also in the area that is attributed to the non-methanogenic degradation process of a special waste stream.

Prior to re-drilling, wells AHWW0285 and AHWW0286 were operated under an MDEQ approved HOV of 160 deg. F. In May 2018, replacement wells AHWW0285R and AHWW0286R were drilled and installed. Upon installation of the replacement wells AHWW0285R and AHWW286R, the typical operating temperature was consistently above 131 deg. F. A summary of the monthly wellfield monitoring data recorded at these gas extraction wells is included in the Gas Extraction Well Monitoring Data provided as Attachment 2.

Additionally, Arbor Hills understands that an Alternative Timeline Request was submitted on March 15, 2019 to the DEQ for the replacement of well AHW259R2, but is including the well as part of this request.

The age of the waste in these areas varies from approximately 10 years to within the last 2 years. The facility has been placing new waste on top of old in these areas.

The facility has taken general household waste, paper products and plastic products. In a discrete area the facility also received a solidification waste that contained cement kiln dust (CKD). The CKD may cause the temperature in the area to be higher than expected and the methane concentration to be lower due to the concentration of calcium. This condition is explained in greater detail below.

As part of this request, Drill Logs for the wells listed are provided in Attachment 3.

### **Bases for Heat Extraction**

Elevated temperatures can occur in a landfill when the amount of heat that is being generated exceeds the amount of heat that is being removed. Heat is *generated* through biological processes (methanogenesis and acetogenesis) and through abiotic processes (acid/base reactions, ash hydration, metals corrosion, etc.). Heat is *removed* by conduction to the landfill boundaries, and by liquid and gas removal. Just a small imbalance between heat generation and heat removal can cause heat accumulation over time.

When waste temperature rises to a certain point, methane producing organisms start to fade as acid-forming processes (acidogenesis and acetogenesis) take over. These acid-forming processes allow the accumulation of hydrogen which—in turn—can react with organisms to produce carbon monoxide.

At Arbor, reduced methane and elevated levels of carbon dioxide have been observed in the affected gas wells. These symptoms can be attributed to higher temperatures resulting from heat accumulation. If temperatures in the landfill increase too much, thermal decomposition (pyrolysis) can occur. Thermal decomposition is undesirable as it can destroy the waste fabric, resulting in excessive settlement and creating byproducts that have a strong odor. Therefore, it is important to create conditions whereby heat is actively removed to minimize heat accumulation. This means making a deliberate effort to remove the warmest gas from the warmest parts of the landfill. Often, warm gas removal is enhanced by liquid removal from a gas well allowing deeper gas to be captured.

It is important to recognize that removing gas does not increase the temperature in the landfill; it only removes heat from areas that are already warmer than desired. As long as it is known that a fire is not present, gas removal should not be inhibited by artificial temperature limits.

Arbor Hills requests your review and approval of alternate operating temperatures of the temperatures listed in Table 1 of this document. Should you have any questions regarding this request, please contact Anthony Testa, Advanced Disposal Services at (734) 718-4262 or Dana Oleniacz, Air Quality Specialist, Inc. at (248) 421-0499 or [danao@airqualityspecialist.com](mailto:danao@airqualityspecialist.com).

Sincerely,

**ARBOR HILLS LANDFILL, INC. - ADVANCED DISPOSAL SERVICES**

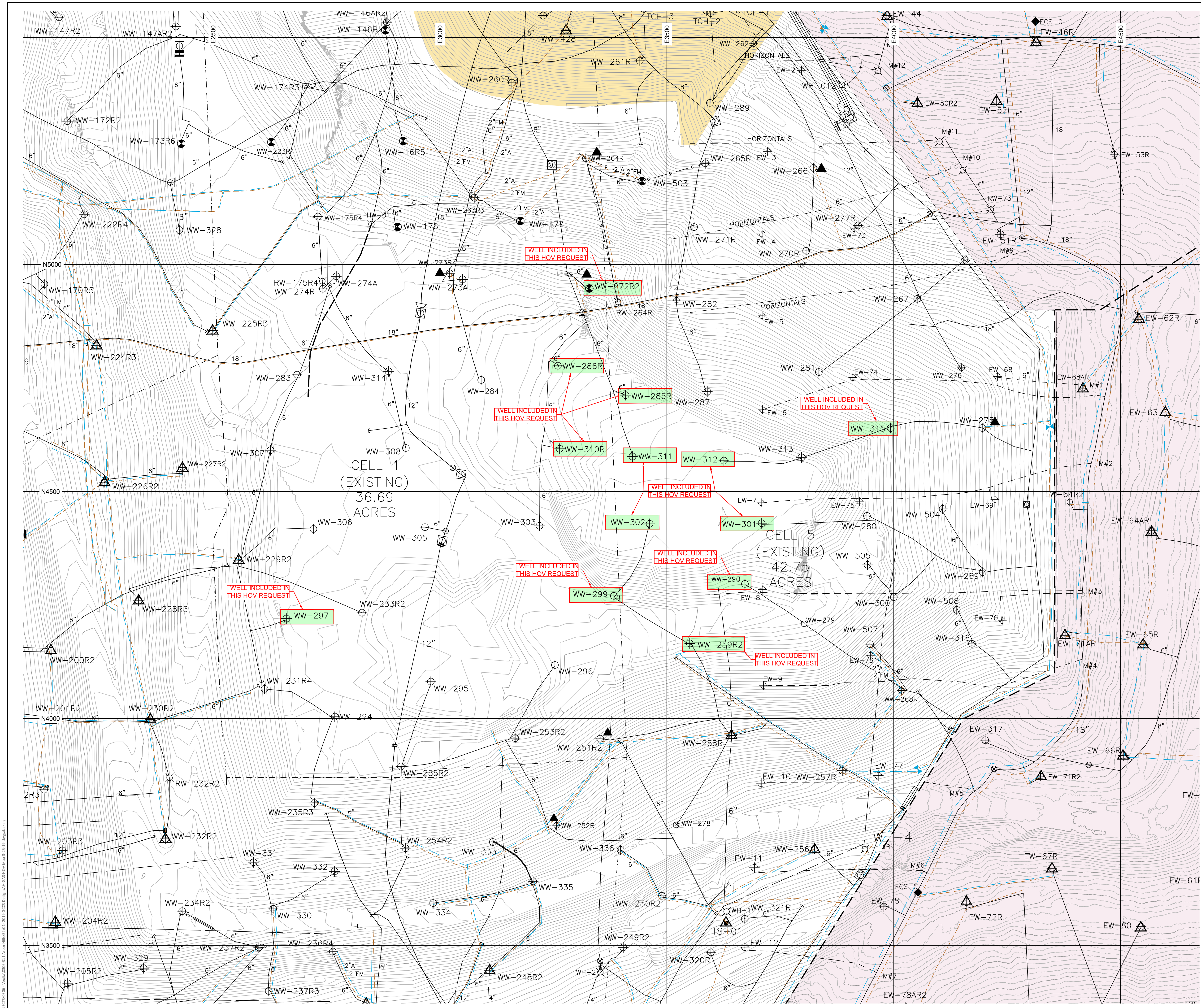


Anthony Testa  
Environmental Engineer – Arbor Hills Landfill

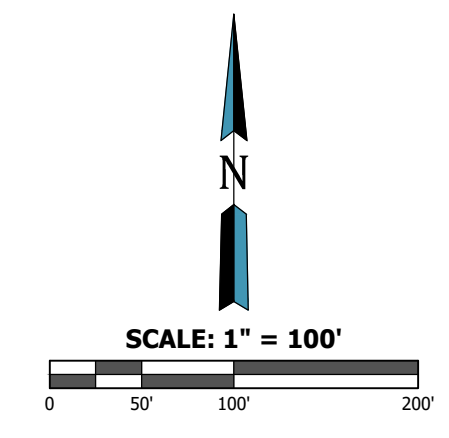
cc: Mr. Randy Frank, ADS  
Ms. Dana Oleniacz, AQSI  
Ms. Suparna Chakladar, Fortistar

**Attachment 1**  
**Well Field Map**





- LEGEND**
- PERMITTED SOLID WASTE BOUNDARY
  - CELL BOUNDARY
  - - - 1140 10' CONTOUR
  - EXISTING HORIZONTAL LFG COLLECTOR
  - EXISTING VACUUM LINE
  - G - EXISTING ABOVE GROUND VACUUM JUMPER
  - EXISTING AIR LINE
  - EXISTING FORCEMAIN LINE
  - EXISTING CONDENSATE LINE
  - ⊗ WW-2 EXISTING GAS HORIZONTAL WELL
  - ⊗ M#5 EXISTING MANIFOLD GROUP
  - ⊗ EW-18 EXISTING GAS EXTRACTION WELL
  - ⊗ RW-231 EXISTING REMOTE LFG EXTRACTION WELL
  - ◆ CS-2 EXISTING CONDENSATE PUMP STATION
  - L-4 EXISTING LEACHATE WELL
  - EXISTING ISOLATION VALVE
  - TGP-14 EXISTING TEMPORARY GAS PROBE
  - ▲ EW-29 EXISTING GAS WELL WITH PUMP
  - ▲ AHWW-COOS EXISTING LEACHATE CLEANOUT
  - EXISTING FINAL COVER
  - EXISTING TEMPORARY GEOMEMBRANE CAP



- PREPARED FOR:
- DRAFT
  - RELEASED FOR BID
  - APPROVED FOR CONSTRUCTION
  - CLIENT APPROVAL BY:



**GCCS EXISTING CONDITIONS**  
 ADVANCED DISPOSAL SERVICES ARBOR HILLS LANDFILL, INC.  
 WASHTENAW COUNTY, MICHIGAN

NO.	DATE	REVISION DESCRIPTION	BY

**Weaver Consultants Group**



400 ANN STREET, SUITE 201A  
 GRAND RAPIDS, MICHIGAN 49504  
 (616) 458-8056

www.wcgrp.com

REUSE OF DOCUMENTS  
 This document, and the designs incorporated herein, as an instrument of professional service, is the property of Weaver Consultants Group, and is not to be used in whole or in part without the written authorization of Weaver Consultants Group.

DRAWN BY: AMB  
 REVIEWED BY: -  
 DATE: 3/25/2019  
 FILE: 0306-311-52-01  
 CAD: RWG/HCH/Map 325-13

SHEET 1

**Attachment 2**  
**Gas Extraction Well Monitoring Data**

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHW259R2 / AHW259R2

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
4/30/2015 17:31	59.1	0.7	1.8	38.4	0	62	---	-0.1	-47.75	0	---	No Change: :
4/30/2015 17:31	59.1	0.7	1.8	38.4	0.1	62	23	-0.1	-47.75	0	---	
4/30/2015 17:35	59.1	0.9	1.4	38.6	2.6	65	126	-7.1	-44.91	0	---	Opened Valve &gt; 1Turn: :
4/30/2015 17:35	59.1	0.9	1.4	38.6	2.7	65	128	-7	-44.91	0	---	
5/1/2015 11:12	55	3.8	1.5	39.7	2.1	83	109	-6.2	-34.31	0	---	No Change: :
5/1/2015 11:12	55	3.8	1.5	39.7	2.2	83	110	-6.1	-34.31	0	---	
5/1/2015 11:16	56.2	3.8	2.3	37.7	4.1	83	152	-10.3	-33.32	0	---	Opened Valve &gt; 1Turn: :
5/1/2015 11:16	56.2	3.8	2.3	37.7	3.9	83	149	-10.3	-33.32	0	---	
5/4/2015 15:17	53.2	5.1	1.8	39.9	3.9	89	145	-10.4	-29.65	0	---	No Change: :
5/4/2015 15:17	53.2	5.1	1.8	39.9	4	89	146	-10.5	-29.65	0	---	
5/4/2015 15:19	54.9	5.2	1.7	38.2	6.8	88	193	-16.3	-25.66	0	---	Opened Valve &gt; 1Turn: :
5/4/2015 15:19	54.9	5.2	1.7	38.2	6.9	88	193	-17	-25.66	0	---	
5/8/2015 10:13	68.6	6.6	0.7	24.1	2.6	78	123	-21	-36.41	0	---	No Change: :
5/8/2015 10:13	68.6	6.6	0.7	24.1	2.6	78	123	-21.6	-36.41	0	---	
5/8/2015 10:15	64.6	6.9	0.2	28.3	3.8	78	145	-27.4	-34.88	0	---	Opened Valve &gt; 1Turn: :
5/8/2015 10:15	64.6	6.9	0.2	28.3	3.7	78	144	-27.6	-34.88	0	---	
5/14/2015 12:39	43.3	7.1	0.5	49.1	3.5	105	374	-26.7	-33.85	0	---	0: :
5/14/2015 12:39	43.3	7.1	0.5	49.1	3.4	105	371	-26.2	-33.85	0	---	
5/14/2015 12:41	43.4	7.1	0.4	49.1	3.2	105	359	-25.7	-33.52	0	---	0: :
5/14/2015 12:41	43.4	7.1	0.4	49.1	3.5	105	377	-25.8	-33.52	0	---	
6/8/2015 17:32	46.6	8.8	0.3	44.3	3.4	93	379	-23.8	-30.82	0	---	No Change: :
6/8/2015 17:32	46.6	8.8	0.3	44.3	3.5	93	381	-23.8	-30.82	0	---	
6/8/2015 17:35	44.3	11.7	0	44	3.2	93	360	-22.6	-31.75	0	---	Closed Valve 1/2 Turn or Less: :
6/8/2015 17:35	44.3	11.7	0	44	3.1	93	354	-22.6	-31.75	0	---	
7/7/2015 16:27	38.6	12.7	0	48.7	3.8	85	389	-25.1	-38.16	0	---	No Change: :
7/7/2015 16:27	38.6	12.7	0	48.7	3.7	85	384	-25	-38.16	0	---	
7/7/2015 16:29	38.5	13.3	0	48.2	2.4	83	308	-18.3	-42.54	0	---	Closed Valve &gt; 1 Turn: :
7/7/2015 16:29	38.5	13.3	0	48.2	2.5	83	317	-18.5	-42.54	0	---	
8/12/2015 15:20	26.2	13.3	0	60.5	2.6	89	312	-19.5	-50.22	0	---	No Change: :
8/12/2015 15:20	26.2	13.3	0	60.5	2.6	89	314	-19.6	-50.22	0	---	
8/12/2015 15:21	25.7	13.3	0	61	1.8	89	261	-5.5	-50.12	0	---	Closed Valve &gt; 1 Turn: :
8/12/2015 15:21	25.7	13.3	0	61	0.4	89	129	-5.6	-50.12	0	---	
9/17/2015 15:58	37.9	14.8	0.1	47.2	1.6	95	255	-4.4	-47.62	0	---	No Change: :
9/17/2015 15:58	37.9	14.8	0.1	47.2	0.3	95	98	-4.3	-47.62	0	---	
9/17/2015 16:00	38	14.6	0	47.4	2.3	95	306	-1.5	-49.2	0	---	Closed Valve 1/2 to 1 Turn: :
9/17/2015 16:00	38	14.6	0	47.4	0	95	25	-1.5	-49.2	0	---	
10/3/2015 10:05	57	17.1	0	25.9	0.2	62	85	-1.2	-41.21	0	---	No Change: :
10/3/2015 10:05	57	17.1	0	25.9	0.2	62	83	-1.2	-41.21	0	---	
10/3/2015 10:07	56.5	17	0	26.5	0.7	62	173	-6	-41.06	0	---	Opened Valve &gt; 1Turn: :
10/3/2015 10:07	56.5	17	0	26.5	0.6	62	170	-6	-41.06	0	---	
10/13/2015 10:49	44.3	15	0.3	40.4	0.9	111	184	-7.2	-46.79	0	---	No Change: :
10/13/2015 10:49	44.3	15	0.3	40.4	0.6	111	150	-7.2	-46.79	0	---	
10/13/2015 10:51	44.4	15.1	0.1	40.4	0.7	111	169	-7	-46.51	0	---	Closed Valve 1/2 Turn or Less: :



10/13/2015 10:51	44.4	15.1	0.1	40.4	0.7	111	166	-7	-46.51	0	---	
11/4/2015 16:24	40.6	14.9	0	44.5	1.2	110	219	-7.2	-50.08	0	---	No Change : :
11/4/2015 16:24	40.6	14.9	0	44.5	0.7	110	163	-7.1	-50.08	0	---	
11/4/2015 16:27	40.7	15.1	0	44.2	0.2	108	86	-2.8	-50.21	0	---	Closed Valve > 1 Turn: :
11/4/2015 16:27	40.7	15.1	0	44.2	0.2	108	83	-2.9	-50.21	0	---	
12/21/2015 15:44	65.3	18.3	0	16.4	0.2	77	89	-2.4	-49.83	0	---	No Change : :
12/21/2015 15:44	65.3	18.3	0	16.4	0.2	77	86	-2.4	-49.83	0	---	
12/21/2015 15:46	65.7	17.8	0	16.5	0.3	80	122	-4.1	-49.51	0	---	Opened Valve 1/2 to 1 Turn: :
12/21/2015 15:46	65.7	17.8	0	16.5	0.4	80	126	-4	-49.51	0	---	
1/19/2016 14:23	57.1	19.7	0	23.2	1.5	39	260	-4.3	-20.58	0	---	No Change : :
1/19/2016 14:23	57.1	19.7	0	23.2	0.6	39	167	-4.3	-20.58	0	---	
1/19/2016 14:24	57	19.7	0	23.3	2.7	46	353	-7.1	-54.45	0	---	No Change : :
1/19/2016 14:24	57	19.7	0	23.3	0.9	46	203	-6.9	-54.45	0	---	
1/19/2016 14:26	57	19.4	0	23.6	2.1	46	311	-15.6	-54.12	0	---	Opened Valve 1/2 to 1 Turn: :
1/19/2016 14:26	57	19.4	0	23.6	2.2	46	314	-15.6	-54.12	0	---	
2/4/2016 16:40	44.1	17.2	0.2	38.5	2.1	105	287	-15.8	-53.9	0	---	No Change : :
2/4/2016 16:40	44.1	17.2	0.2	38.5	2.3	105	298	-15.9	-53.9	0	---	
2/4/2016 16:42	44.1	17.3	0	38.6	1.3	104	231	-7.6	-53.49	0	---	Closed Valve > 1 Turn: :
2/4/2016 16:42	44.1	17.3	0	38.6	0.9	104	190	-7.7	-53.49	0	---	
3/11/2016 16:44	51.3	17.6	0	31.1	0.6	101	151	-6.5	-44.86	0	---	No Change : :
3/11/2016 16:44	51.3	17.6	0	31.1	0.6	101	151	-6.1	-44.86	0	---	
4/7/2016 17:07	59.8	19.9	0	20.3	4.7	103	447	-6.6	-47.15	0	---	No Change : :
4/7/2016 17:07	59.8	19.9	0	20.3	4.9	103	456	-6.5	-47.15	0	---	
4/7/2016 17:09	60.3	20	0	19.7	7.8	109	570	-10.4	-49.17	0	---	Opened Valve 1/2 Turn or Less: :
4/7/2016 17:09	60.3	20	0	19.7	7.8	109	569	-10.2	-49.17	0	---	
4/18/2016 17:21	68.7	19.5	0.1	11.7	0.5	107	151	-1.3	-47.82	0	---	No Change : :
4/18/2016 17:21	68.7	19.5	0.1	11.7	0.5	107	146	-1.3	-47.82	0	---	
4/18/2016 17:23	69.2	19.6	0	11.2	0.4	106	134	-1	-50.03	0	---	Closed Valve 1/2 Turn or Less: :
4/18/2016 17:23	69.2	19.6	0	11.2	0.4	106	139	-1	-50.03	0	---	
4/22/2016 15:23	70.8	20.8	0	8.4	0.2	87	101	-1	-45.25	0	---	No Change : :
4/22/2016 15:23	70.8	20.8	0	8.4	0.2	87	88	-1	-45.25	0	---	
4/22/2016 15:25	71.3	20.9	0	7.8	0.5	91	153	-3.2	-44.66	0	---	Opened Valve 1/2 to 1 Turn: :
4/22/2016 15:25	71.3	20.9	0	7.8	0.7	91	176	-3.3	-44.66	0	---	
4/27/2016 16:45	60.6	20.4	0	19	0.7	93	175	-3.7	-49.17	0	---	No Change : :
4/27/2016 16:45	60.6	20.4	0	19	0.9	93	190	-3.7	-49.17	0	---	
4/27/2016 16:48	61.7	20.5	0	17.8	1	92	202	-5	-47.21	0	---	Opened Valve > 1 Turn: :
4/27/2016 16:48	61.7	20.5	0	17.8	1.1	92	215	-5.2	-47.21	0	---	
5/6/2016 16:04	60.3	19.6	0	20.1	0.9	95	191	-4.9	-50.43	0	---	No Change : :
5/6/2016 16:04	60.3	19.6	0	20.1	1.1	95	214	-4.9	-50.43	0	---	
5/6/2016 16:07	61.1	19.9	0	19	1.2	95	222	-7.5	-35.26	0	---	Opened Valve 1/2 to 1 Turn: :
5/6/2016 16:07	61.1	19.9	0	19	1	95	208	-7.4	-35.26	0	---	
5/11/2016 15:08	52.3	17	0	30.7	1.5	93	250	-7.3	-49.06	0	---	No Change : :
5/11/2016 15:08	52.3	17	0	30.7	1.6	93	255	-7.4	-49.06	0	---	
5/11/2016 15:12	52.6	17	0	30.4	1	91	208	-5.5	-49.49	0	---	Closed Valve 1/2 Turn or Less: :
5/11/2016 15:12	52.6	17	0	30.4	1.2	91	220	-5.2	-49.49	0	---	
6/6/2016 17:30	65.5	21.9	0.1	12.5	0.7	120	170	-4.5	-46.17	0	---	No Change : :
6/6/2016 17:30	65.5	21.9	0.1	12.5	0.7	120	171	-4.6	-46.17	0	---	
6/6/2016 17:32	66.1	22	0	11.9	1	120	202	-7.7	-44.92	0	---	Opened Valve > 1 Turn: :
6/6/2016 17:32	66.1	22	0	11.9	0.9	120	192	-7.7	-44.92	0	---	
6/15/2016 17:15	67.4	22	0	10.6	1.5	120	251	-5.5	-43.39	0	---	No Change : :
6/15/2016 17:15	67.4	22	0	10.6	1.5	120	252	-5.4	-43.39	0	---	
6/15/2016 17:18	67.1	21.9	0	11	0.4	121	133	-7.8	-40.54	0	---	Opened Valve 1/2 to 1 Turn: :
6/15/2016 17:18	67.1	21.9	0	11	0.7	121	171	-7.6	-40.54	0	---	

6/23/2016 10:26	68.6	27.3	0.1	4	0.2	120	89	-7.1	-41.97	0	---	No Change ::
6/23/2016 10:26	68.6	27.3	0.1	4	0.8	120	172	-7.1	-41.97	0	---	
6/23/2016 10:29	69.2	27.6	0	3.2	1.5	120	246	-12.3	-40.94	0	---	Opened Valve > 1Turn: :
6/23/2016 10:29	69.2	27.6	0	3.2	1.1	121	205	-12.2	-40.94	0	---	
6/28/2016 17:45	68.7	27	0	4.3	0.4	120	121	-11.1	-33.96	0	---	No Change ::
6/28/2016 17:45	68.7	27	0	4.3	1.3	120	231	-11	-33.96	0	---	
6/28/2016 17:48	69.2	27.4	0	3.4	1.2	120	212	-15.4	-32.74	0	---	Opened Valve > 1Turn: :
6/28/2016 17:48	69.2	27.4	0	3.4	1.3	120	228	-15.5	-32.74	0	---	
7/7/2016 14:15	58	20.4	0	21.6	0.9	120	182	-18.2	-39.12	0	---	No Change ::
7/7/2016 14:15	58	20.4	0	21.6	1.3	120	226	-18.5	-39.12	0	---	
7/7/2016 14:17	57.9	20.5	0	21.6	2.7	120	319	-21.6	-38.01	0	---	Opened Valve > 1Turn: :
7/7/2016 14:17	57.9	20.5	0	21.6	2.1	120	281	-21.9	-38.01	0	---	
7/20/2016 17:06	65.3	25.4	0	9.3	1.9	120	271	-17.5	-28.89	0	---	No Change ::
7/20/2016 17:06	65.3	25.4	0	9.3	1.3	121	225	-17.7	-28.89	0	---	
7/20/2016 17:17	63.9	25.2	0	10.9	0.2	120	76	-16.7	-24.67	0	---	Opened Valve 1/2 Turn or Less: :
7/20/2016 17:17	63.9	25.2	0	10.9	1.6	121	252	-16.5	-24.67	0	---	
8/5/2016 13:09	60	25.9	0	14.1	0.9	121	184	-8.8	-12.32	0	---	No Change ::
8/5/2016 13:09	60	25.9	0	14.1	0.7	121	166	-8.8	-12.32	0	---	
8/5/2016 13:11	60.6	26.2	0	13.2	0.9	121	180	-9.1	-12.69	0	---	Opened Valve 1/2 to 1 Turn: :
8/5/2016 13:11	60.6	26.2	0	13.2	0.8	121	170	-9.1	-12.69	0	---	
8/16/2016 14:13	48.8	22.3	0	28.9	-1.8	121.1	---	-21.27	-33.47	0	---	"No Change ::
8/16/2016 14:13	48.8	22.3	0	28.9	-1.7	121.2	---	-21.31	-33.47	0	---	
9/15/2016 11:59	45.8	20.5	0	33.7	1.5	122	233	-18.4	-25.78	0	---	No Change ::
9/15/2016 11:59	45.8	20.5	0	33.7	1.4	122	228	-18	-25.78	0	---	
9/15/2016 12:01	46.6	20.8	0	32.6	1.1	122	203	-10.1	-32.43	0	---	Closed Valve > 1 Turn: :
9/15/2016 12:01	46.6	20.8	0	32.6	0.7	122	164	-10	-32.43	0	---	
10/13/2016 16:08	64.9	25.7	0	9.4	0.7	123	165	-6.4	-18.03	0	---	No Change ::
10/13/2016 16:08	64.9	25.7	0	9.4	0.2	123	85	-6.5	-18.03	0	---	
10/13/2016 16:11	64.9	25.7	0	9.4	0.1	123	58	-8.2	-16.94	0	---	Opened Valve > 1Turn: :
10/13/2016 16:11	64.9	25.7	0	9.4	0.4	124	129	-8.3	-16.94	0	---	
10/18/2016 15:31	56.5	23.5	0	20	0.7	97	163	-11.3	-19.86	0	---	No Change ::
10/18/2016 15:31	56.5	23.5	0	20	0.7	97	170	-11.2	-19.86	0	---	
10/18/2016 15:33	56.7	23.5	0	19.8	1.1	96	211	-12.5	-19.24	0	---	Opened Valve 1/2 to 1 Turn: :
10/18/2016 15:33	56.7	23.5	0	19.8	1	96	200	-12.1	-19.24	0	---	
11/4/2016 15:59	37.6	18.2	0.2	44	1.4	124	228	-14.4	-27.59	0	---	No Change ::
11/4/2016 15:59	37.6	18.2	0.2	44	1.4	124	227	-14.5	-27.59	0	---	
11/4/2016 16:01	38.5	18.4	0	43.1	0.2	123	77	-3.4	-27.79	0	---	Closed Valve > 1 Turn: :
11/4/2016 16:01	38.5	18.4	0	43.1	0.2	123	75	-3.4	-27.79	0	---	
12/13/2016 11:51	46	19.4	0	34.6	0.1	89	69	-3.2	-32.66	0	---	No Change ::
12/13/2016 11:51	46	19.4	0	34.6	0.2	89	91	-3.2	-32.66	0	---	
12/13/2016 11:53	46.5	19.6	0	33.9	-0.1	84	---	-2	-30.78	0	---	Closed Valve 1/2 to 1 Turn: :
12/13/2016 11:53	46.5	19.6	0	33.9	-0.1	84	---	-1.9	-30.78	0	---	
1/9/2017 13:11	34.2	16.7	0.3	48.8	0.3	73	100	-2.1	-31.01	0	---	No Change ::
1/9/2017 13:11	34.2	16.7	0.3	48.8	0.3	73	104	-2.2	-31.01	0	---	
1/9/2017 13:13	35.1	17	0.1	47.8	0	71	---	-1	-31.53	0	---	Closed Valve > 1 Turn: :
1/9/2017 13:13	35.1	17	0.1	47.8	0	71	---	-1	-31.53	0	---	
2/2/2017 14:53	27.2	15.8	1	56	0	60	33	-1	-33.15	0	---	No Change ::
2/2/2017 14:53	27.2	15.8	1	56	0	60	39	-1	-33.15	0	---	
2/2/2017 14:53	27.2	15.8	1	56	0	60	33	-1	-33.15	---	---	No Change ::
2/2/2017 14:53	27.2	15.8	1	56	0	60	39	-1	-33.15	---	---	
2/2/2017 14:56	28.2	15.6	0	56.2	-0.1	60	---	-0.6	-33.79	---	---	Closed Valve 1/2 to 1 Turn: :
2/2/2017 14:56	28.2	15.6	0	56.2	0	60	34	-0.6	-33.79	---	---	
2/2/2017 14:56	28.2	15.6	0	56.2	-0.1	60	---	-0.6	-33.79	0	---	Closed Valve 1/2 to 1 Turn: :

2/2/2017 14:56	28.2	15.6	0	56.2	0	60	34	-0.6	-33.79	0	---	
3/7/2017 14:39	32	13.7	0.2	54.1	-0.1	66	---	-0.7	-34.95	---	---	No Change .....
3/7/2017 14:39	32	13.7	0.2	54.1	-0.1	66	---	-0.7	-34.95	---	---	
3/7/2017 14:40	31.9	13.6	0.3	54.2	-0.2	67	---	-0.6	-34.53	---	---	Closed Valve 1/2 to 1 Turn,Valve Barely Open,,,,,
3/7/2017 14:40	31.9	13.6	0.3	54.2	-0.3	67	---	-0.6	-34.53	---	---	
4/7/2017 11:19	25.5	17.8	0.9	55.8	-0.2	42	---	-2.4	-33.21	---	---	No Change .....
4/7/2017 11:19	25.5	17.8	0.9	55.8	-0.1	42	---	-2.4	-33.21	---	---	
4/7/2017 11:21	26	17.2	0.3	56.5	0	40	---	-1.9	-34	---	---	Closed Valve 1/2 to 1 Turn,.....
4/7/2017 11:21	26	17.2	0.3	56.5	-0.1	40	---	-1.9	-34	---	---	
5/9/2017 16:04	24	14.4	0	61.6	0	127.1	19.2	-1.47	-29.05	---	736	No Change .....
5/9/2017 16:04	24	14.4	0	61.6	0	127.2	19.2	-1.45	-29.05	---	736	
5/9/2017 16:07	23.8	14	0	62.2	0	123.7	---	-0.85	-28.8	---	747	Closed Valve 1/2 to 1 Turn,Valve Barely Open,,,,,
5/9/2017 16:07	23.8	14	0	62.2	0	123.7	---	-0.85	-28.8	---	747	
6/12/2017 12:14	17.4	11.1	0	71.5	0.1	117	47	-0.7	-32.53	---	---	No Change .....
6/12/2017 12:14	17.4	11.1	0	71.5	0.1	118	46	-0.7	-32.53	---	---	
6/12/2017 12:16	17.2	10.8	0.3	71.7	0.1	113	43	-0.6	-32.59	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
6/12/2017 12:16	17.2	10.8	0.3	71.7	0.1	113	44	-0.5	-32.59	---	---	
7/18/2017 14:33	1.1	0.9	16.9	81.1	0.1	97	55	-0.5	-31.02	---	---	No Change.....
7/18/2017 14:33	1.1	0.9	16.9	81.1	0.1	97	55	-0.5	-31.02	---	---	
7/18/2017 14:37	12.5	10	0.3	77.2	0.1	124	67	-2.5	-30.37	---	---	Opened Valve 1/2 Turn or Less.....
7/18/2017 14:37	12.5	10	0.3	77.2	0.1	123	69	-2.4	-30.37	---	---	
8/15/2017 17:27	21.7	12.2	0.2	65.9	-0.1	127	---	-1.3	-42.91	---	---	No Change .....
8/15/2017 17:27	21.7	12.2	0.2	65.9	-0.1	128	---	-1.3	-42.91	---	---	
8/15/2017 17:28	22.3	12.4	0.2	65.1	-0.2	126	---	-0.3	-42.51	---	---	Closed Valve > 1 Turn,.....
8/15/2017 17:28	22.3	12.4	0.2	65.1	-0.2	126	---	-0.3	-42.51	---	---	
9/25/2017 15:03	28.6	11.3	0	60.1	0	125	---	-0.2	-48.37	---	---	No Change ,Valve Barely Open,.....
9/25/2017 15:03	28.6	11.3	0	60.1	0	125	---	-0.2	-48.37	---	---	
10/19/2017 17:20	17.1	10.7	0.5	71.7	-0.1	111	---	-0.5	-42.91	---	---	No Change ,Valve Barely Open,.....
10/19/2017 17:20	17.1	10.7	0.5	71.7	-0.1	112	---	-0.5	-42.91	---	---	
11/14/2017 11:21	11	10.4	0.1	78.5	0.1	90	53	-0.4	-37.72	---	---	No Change .....
11/14/2017 11:21	11	10.4	0.1	78.5	0.1	91	64	-0.4	-37.72	---	---	
11/14/2017 11:23	10.9	10.1	0.2	78.8	-0.2	90	---	-0.4	-37.75	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
11/14/2017 11:23	10.9	10.1	0.2	78.8	-0.2	91	---	-0.4	-37.75	---	---	
12/18/2017 14:25	56	19.3	0	24.7	0	60	29	0.1	-52.49	---	---	No Change .....
12/18/2017 14:25	56	19.3	0	24.7	0	60	25	0.1	-52.49	---	---	
12/18/2017 14:27	54	19	0	27	0	59	20	-0.3	-52.15	---	---	Opened Valve 1/2 Turn or Less.....
12/18/2017 14:27	54	19	0	27	0	59	22	-0.4	-52.15	---	---	
1/11/2018 16:23	47.4	23.5	0.1	29	0	73	---	-0.6	-45.84	---	---	No Change .....
1/11/2018 16:23	47.4	23.5	0.1	29	0	73	29	-0.6	-45.84	---	---	
1/11/2018 16:24	47.2	23.7	0	29.1	0	73	---	-0.6	-44.78	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
1/11/2018 16:24	47.2	23.7	0	29.1	0	73	30	-0.6	-44.78	---	---	
2/9/2018 10:52	21.3	15.9	0.1	62.7	0	48	8	-0.5	-41.75	---	---	No Change ,Valve Barely Open,.....
2/9/2018 10:52	21.3	15.9	0.1	62.7	0	48	19	-0.5	-41.75	---	---	
3/8/2018 10:20	17.5	10.1	0	72.4	0.1	60	48	0.1	-49.76	---	---	No Change.....
3/8/2018 10:20	17.5	10.1	0	72.4	0	60	32	0.2	-49.76	---	---	
3/8/2018 10:22	16.5	9.9	0	73.6	0.9	65	187	-0.6	-49.74	---	---	Opened Valve 1/2 Turn or Less,Valve Barely Open,,,,,
3/8/2018 10:22	16.5	9.9	0	73.6	0.1	65	53	-0.6	-49.74	---	---	
4/10/2018 13:02	54.6	28	0.1	17.3	-0.3	75	---	-0.4	-49.51	---	---	No Change .....
4/10/2018 13:02	54.6	28	0.1	17.3	-0.3	75	---	-0.4	-49.51	---	---	
4/10/2018 13:04	54.6	28	0	17.4	-0.2	85	---	-1.7	-49.14	---	---	Opened Valve 1/2 to 1 Turn,.....
4/10/2018 13:04	54.6	28	0	17.4	-0.2	85	---	-1.7	-49.14	---	---	
5/14/2018 11:50	37.4	19.8	0	42.8	0.1	137.1	56.9	-2.33	-51.54	---	96	No Change.....
5/14/2018 11:50	37.4	19.8	0	42.8	0.1	137.1	37.3	-2.33	-51.54	---	96	

5/14/2018 11:52	37.6	20	0	42.4	0.2	135.9	63.6	-1.39	-53.6	---	94	Closed Valve 1/2 to 1 Turn,Valve Barely Open,,,,,
5/14/2018 11:52	37.6	20	0	42.4	0.2	135.9	62.4	-1.36	-53.6	---	94	
5/25/2018 15:41	18.5	13.5	0.4	67.6	0	136.1	29.4	-1.06	-46.27	---	---	No Change,,,,,
5/25/2018 15:41	18.5	13.5	0.4	67.6	0	136.1	28.3	-1.06	-46.27	---	---	
5/25/2018 15:43	20.5	14.1	0	65.4	0	135	18	-0.77	-46.91	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
5/25/2018 15:43	20.5	14.1	0	65.4	0	135	17.3	-0.77	-46.91	---	---	
6/2/2018 12:50	4.3	1.1	20.9	73.7	0.2	63.5	64.9	0.02	-47.71	---	---	Opened Valve 1/2 to 1 turn: WFC:
6/2/2018 12:50	4.3	1.1	20.9	73.7	0	126.9	0	-0.05	-46.1	---	---	
6/2/2018 12:52	0	0	22.8	77.2	0	130.8	0	0.01	-44.53	---	---	Opened Valve 1/2 turn or less: 2 READ:
6/2/2018 12:52	0	0	22.8	77.2	0	131.7	0	-0.04	-43.72	---	---	
6/2/2018 15:39	56.6	25.7	0	17.7	0.2	138.2	60.4	-3.98	-46.31	---	---	No Change: :
6/2/2018 15:39	56.6	25.7	0	17.7	0.2	138.4	64.8	-4.05	-48.39	---	---	
6/2/2018 16:00	56	23.2	0	20.8	0.2	138.2	60	-4.15	-48.81	---	---	No Change,Opened Valve 1/2 turn or less: CLEANED PITO
6/2/2018 16:00	56	23.2	0	20.8	0.2	138.2	62.8	-4.06	-48.26	---	---	
6/13/2018 13:50	50.7	26.4	0	22.9	0.2	138.5	63.5	-4.19	-46.3	---	---	Closed Valve 1/2 Turn or Less,,,,,
6/13/2018 13:50	50.7	26.4	0	22.9	0.2	138.5	62.9	-4.08	-46.3	---	---	
6/13/2018 13:51	51.2	26.7	0	22.1	0.1	138.4	45	-3.58	-46.96	---	---	No Change,,,,,
6/13/2018 13:51	51.2	26.7	0	22.1	0.1	138.5	42.8	-3.6	-46.96	---	---	
7/17/2018 9:19	61.7	31.9	0.2	6.2	0	137.6	35.2	-0.61	-53.36	---	353	.....
7/17/2018 9:19	61.7	31.9	0.2	6.2	0	137.6	34.7	-0.62	-53.36	---	353	
8/17/2018 13:50	56.3	28.9	0	14.8	0.1	133.8	38	-0.84	-25.33	---	---	No Change,,,,,
8/17/2018 13:50	56.3	28.9	0	14.8	0.1	133.6	36.4	-0.82	-25.33	---	---	
8/17/2018 13:51	55.4	28.9	0	15.7	0	133.7	32.3	-0.81	-25.62	---	---	Opened Valve 1/2 Turn or Less,,,,,
8/17/2018 13:51	55.4	28.9	0	15.7	0	134.4	33.7	-1.03	-25.62	---	---	
8/28/2018 13:53	26.7	16	0	57.3	0.1	133.4	35.3	-1.2	-21.53	---	---	No Change,,,,,
8/28/2018 13:53	26.7	16	0	57.3	0	133.4	34.1	-1.2	-21.53	---	---	
8/28/2018 13:57	25.6	15.7	0	58.7	0	133.6	29.8	-1.19	-21.42	---	---	Closed Valve 1/2 to 1 Turn,,,,,
8/28/2018 13:57	25.6	15.7	0	58.7	0.2	130.9	78.2	-0.65	-21.42	---	---	
8/28/2018 14:00	26.4	15.7	0	57.9	0.2	129.3	75.6	-0.52	-23.91	---	---	Opened Valve 1/2 Turn or Less,Surging In Header,,,,,
8/28/2018 14:00	26.4	15.7	0	57.9	0	130.6	27.7	-0.56	-23.91	---	---	
9/12/2018 8:35	12.8	12.5	0	74.7	0.1	129.3	49.9	-0.85	-28.94	---	---	No Change,,,,,
9/12/2018 8:35	12.8	12.5	0	74.7	0.1	129.4	49.8	-0.85	-28.94	---	---	
9/12/2018 8:38	12.8	12.5	0	74.7	0	129.6	3.7	-0.73	-29.4	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,Surging In
9/12/2018 8:38	12.8	12.5	0	74.7	0	129.3	2.6	-0.7	-29.4	---	---	
10/4/2018 14:58	5.8	9.5	0	84.7	0.1	123.8	49.1	-0.74	-32.8	---	---	No Change,,,,,
10/4/2018 14:58	5.8	9.5	0	84.7	0.1	123.6	46.1	-0.73	-32.8	---	---	
10/4/2018 14:59	5.7	9.5	0	84.8	0.2	124	68.9	-0.74	-33.49	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,Surging In
10/4/2018 14:59	5.7	9.5	0	84.8	0.2	124.5	69.1	-0.7	-33.49	---	---	
10/24/2018 14:31	25.3	15.1	0.2	59.4	0.2	122.7	62.6	-0.26	-41.53	---	---	No Change,,,,,
10/24/2018 14:31	25.3	15.1	0.2	59.4	0.1	122.3	59	-0.26	-41.53	---	---	
10/24/2018 14:33	25	15.2	0.3	59.5	0.2	122.8	63.3	-0.19	-40.32	---	---	Closed Valve 1/2 Turn or Less,,,,,
10/24/2018 14:33	25	15.2	0.3	59.5	0.1	119.6	40.2	-0.04	-40.32	---	---	
10/26/2018 10:50	11.7	12.9	0	75.4	0	118.9	32.7	-1.31	-28.51	---	---	No Change,,,,,
10/26/2018 10:50	11.7	12.9	0	75.4	0	119.2	29.3	-1.3	-28.51	---	---	
10/26/2018 10:57	13.3	12.3	0	74.4	0.1	123.7	45.3	-1.31	-26.58	---	---	Opened Valve > 1Turn,,,,,
10/26/2018 10:57	13.3	12.3	0	74.4	0.3	135.2	90.4	-7.99	-26.58	---	---	
10/27/2018 11:30	29.3	16.2	0.6	53.9	0.3	137	86	-7.22	-21.67	---	---	No Change,,,,,
10/27/2018 11:30	29.3	16.2	0.6	53.9	0.3	137	86	-7.2	-21.67	---	---	
10/27/2018 11:34	29.4	16.2	0.6	53.8	0.3	137.1	89.8	-7.18	-22.41	---	---	Closed Valve > 1 Turn,,,,,
10/27/2018 11:34	29.4	16.2	0.6	53.8	0.1	136	52.2	-3.86	-22.41	---	---	
11/1/2018 14:04	11.2	11.7	0.8	76.3	0.4	137.2	95.4	-3.6	-22.2	---	---	No Change,,,,,
11/1/2018 14:04	11.2	11.7	0.8	76.3	0.4	137.2	96.5	-3.59	-22.2	---	---	
11/1/2018 14:09	11.2	11.7	0.8	76.3	0.5	137.2	106.4	-3.65	-21.33	---	---	Opened Valve > 1Turn,,,,,

11/1/2018 14:09	11.2	11.7	0.8	76.3	0.5	138.2	104.9	-7.25	-21.33	---	---	
11/1/2018 14:12	11.3	11.7	0.9	76.1	0.8	138.7	136.4	-7.96	-22.2	---	---	No Change.....
11/1/2018 14:12	11.3	11.7	0.9	76.1	0.9	138.7	149.3	-7.96	-22.2	---	---	
11/6/2018 10:26	12.8	12.5	1.2	73.5	1.3	139.1	176.8	-8.46	-21.92	---	---	No Change.....
11/6/2018 10:26	12.8	12.5	1.2	73.5	1.3	139.1	176.9	-8.39	-21.92	---	---	
11/6/2018 10:28	12.8	12.5	1.2	73.5	1.3	139	174.8	-8.09	-19.91	---	---	Opened Valve > 1Turn,Surging In Header,,,,,
11/6/2018 10:28	12.8	12.5	1.2	73.5	1.5	139.4	187.8	-11.13	-19.91	---	---	
11/6/2018 10:31	12.7	12.4	1.3	73.6	1.6	139.5	199	-11.87	-19.55	---	---	No Change.....
11/6/2018 10:31	12.7	12.4	1.3	73.6	1.6	139.5	198.9	-11.86	-19.55	---	---	
11/7/2018 13:38	14.4	13	1.6	71	1.7	139.5	199.5	-11.38	-18.19	---	---	No Change.....
11/7/2018 13:38	14.4	13	1.6	71	1.6	139.6	193.5	-11.35	-18.19	---	---	
11/7/2018 13:44	14.3	12.9	1.5	71.3	1.5	139.5	189.4	-11.13	-16.06	---	---	Valve 100% Open,Opened Valve > 1Turn,,,,,
11/7/2018 13:44	14.3	12.9	1.5	71.3	1.8	139.6	207.6	-13.7	-16.06	---	---	
11/7/2018 13:47	14.4	13	1.6	71	1.7	139.6	201.8	-13.93	-16.35	---	---	No Change.....
11/7/2018 13:47	14.4	13	1.6	71	1.7	139.7	202	-13.93	-16.35	---	---	
11/12/2018 10:53	14.2	12.5	1.6	71.7	1.8	140.2	206	-13.23	-15.54	---	---	No Change.....
11/12/2018 10:53	14.2	12.5	1.6	71.7	1.5	140.3	191.8	-13.23	-15.54	---	---	
11/12/2018 10:57	14.2	12.6	1.6	71.6	1.6	140.2	196.4	-12.93	-15.51	---	---	Valve 100% Open.....
11/12/2018 10:57	14.2	12.6	1.6	71.6	1.5	139.5	192.4	-13.29	-15.51	---	---	
12/13/2018 14:23	16	12.9	2.2	68.9	0.3	140.9	87.2	-10.02	-11.89	---	---	No Change.....
12/13/2018 14:23	16	12.9	2.2	68.9	0.4	141	93	-10.03	-11.89	---	---	
12/14/2018 16:18	15.2	13	2.3	69.5	1.5	142	190.2	-12.36	-14.34	---	---	No Change.....
12/14/2018 16:18	15.2	13	2.3	69.5	1.5	142	189	-12.38	-14.34	---	---	
12/14/2018 16:24	15	12.7	2.3	70	1.5	141.8	189.7	-12.32	-14.12	---	---	Valve 100% Open.....
12/14/2018 16:24	15	12.7	2.3	70	1.4	141.8	184.4	-12.39	-14.12	---	---	
1/5/2019 13:33	19.4	13	2.6	65.1	0.4	144.3	89.1	-11.53	-13.35	---	---	No Change: :
1/5/2019 13:33	19.4	13	2.6	65.1	0.2	144.5	68.8	-11.62	-13.95	---	---	
1/9/2019 11:49	15.9	12.3	2.7	69.1	0.5	144.9	104.8	-11.77	-14.45	---	---	No Change,Valve compltley open: :
1/9/2019 11:49	15.9	12.3	2.7	69.1	0.6	144.7	111	-12.45	-14.79	---	---	
1/25/2019 10:14	16	13.2	5.3	65.5	0.6	144.7	115.9	-13.29	-15.55	---	---	No Change: : CO Tube Taken
1/25/2019 10:14	16	13.2	5.3	65.5	0.6	144.7	109.6	-12.87	-15.09	---	---	
1/25/2019 10:16	16.1	13.2	5.3	65.4	0.6	144.7	112.6	-13.12	-14.7	---	---	Closed Valve 1/2 to 1 turn: :
1/25/2019 10:16	16.1	13.2	5.3	65.4	0.3	144.7	82.9	-12.62	-15.3	---	---	
1/25/2019 10:20	16.1	13.2	5.2	65.5	0.6	144.7	115.7	-12.53	-14.96	---	---	No Change: :
1/25/2019 10:20	16.1	13.2	5.2	65.5	0.2	144.7	62.7	-12.87	-15	---	---	
1/25/2019 14:27	16.5	12.4	5.2	65.9	0.6	144	114.6	-12.53	-14.45	---	---	Closed Valve > 1 turn: :
1/25/2019 14:27	16.5	12.4	5.2	65.9	0.3	143.6	78.5	-10.84	-15.55	---	---	
1/25/2019 14:30	16.6	12.6	5.1	65.7	0.4	143.4	92.1	-10.58	-15.6	---	---	No Change: :
1/25/2019 14:30	16.6	12.6	5.1	65.7	0.4	143.4	90.8	-10.71	-15.21	---	---	
1/26/2019 11:08	15.4	11.9	5.3	67.4	0	145.2	0	-9.82	-15.98	---	---	No Change: :
1/26/2019 11:08	15.4	11.9	5.3	67.4	0	145.2	0	-10.2	-15.85	---	---	
1/26/2019 11:09	15.4	11.9	5.3	67.4	0	145.2	0	-10.16	-15.85	---	---	Closed Valve > 1 turn: :
1/26/2019 11:09	15.4	11.9	5.3	67.4	0	144.7	0	-5.42	-18.19	---	---	
1/26/2019 11:12	15.5	12	5.2	67.3	0	144.5	0	-5.12	-19.08	---	---	No Change: :
1/26/2019 11:12	15.5	12	5.2	67.3	0	144.5	0	-5.08	-18.91	---	---	
1/28/2019 11:10	9.6	10.1	5.1	75.2	0.2	143.8	64.5	-4.97	-17.98	---	---	No Change: :
1/28/2019 11:10	9.6	10.1	5.1	75.2	0.2	143.8	66.9	-4.83	-18.44	---	---	
1/28/2019 11:11	9.6	10.1	5.1	75.2	0.2	143.8	71.5	-5.08	-18.23	---	---	Closed Valve 1/2 to 1 turn,Valve barely open: :
1/28/2019 11:11	9.6	10.1	5.1	75.2	0	142.2	0	-3.2	-19.55	---	---	
1/29/2019 8:55	4.2	7.8	6.7	81.3	0	142.3	10.1	-3.81	-18.91	---	---	No Change: :
1/29/2019 8:55	4.2	7.8	6.7	81.3	0	142.3	18.5	-3.8	-19.55	---	---	
1/29/2019 8:56	4.2	7.8	6.7	81.3	0.1	142.3	51.9	-3.84	-20.48	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/29/2019 8:56	4.2	7.8	6.7	81.3	0	142.3	26.6	-3.79	-20.14	---	---	

1/29/2019 15:27	4	8	6.6	81.4	0.1	142.9	41	-3.51	-20.43	---	---	No Change: :
1/29/2019 15:27	4	8	6.6	81.4	0.1	142.7	33.9	-3.52	-20.52	---	---	
1/29/2019 15:28	4.2	8.2	6.4	81.2	0.2	142.3	70.2	-3.56	-20.35	---	---	Closed Valve 1/2 turn or less: :
1/29/2019 15:28	4.2	8.2	6.4	81.2	0	141.4	0	-3.06	-21.28	---	---	
1/29/2019 15:29	4.3	8.2	6.5	81.1	0.3	141.8	79.1	-3.04	-20.35	---	---	No Change: :
1/29/2019 15:29	4.3	8.2	6.5	81.1	0.2	141.3	75.1	-3	-20.73	---	---	
1/30/2019 9:20	3.1	7.3	7.3	82.3	0	140.4	0	-3.43	-22.51	---	---	No Change: :
1/30/2019 9:20	3.1	7.3	7.3	82.3	0	140.5	0	-3.31	-21.83	---	---	
1/30/2019 9:22	3.1	7.4	7.4	82.2	0	140.7	0	-3.28	-20.14	---	---	Closed Valve 1/2 turn or less: :
1/30/2019 9:22	3.1	7.4	7.4	82.2	0	139.5	0	-2.96	-20.81	---	---	
2/1/2019 14:41	2.9	6.8	6.5	83.8	0	142.2	11.6	-2.43	-19.16	---	---	No Change: :
2/1/2019 14:41	2.9	6.8	6.5	83.8	0	142	8.2	-2.41	-19.29	---	---	
2/1/2019 14:42	2.3	6.6	6.6	84.5	0	142	8.2	-2.41	-17.04	---	---	Closed Valve 1/2 turn or less: :
2/1/2019 14:42	2.3	6.6	6.6	84.5	0	141.3	8.8	-2.16	-18.36	---	---	
2/1/2019 14:47	2.1	6.4	6.9	84.6	0	140.5	0	-2.14	-18.31	---	---	No Change: :
2/1/2019 14:47	2.1	6.4	6.9	84.6	0	140.4	0	-2.15	-18.23	---	---	
2/2/2019 10:14	0.7	5.4	6.4	87.5	0.2	137.5	73.2	-2.03	-18.4	---	---	No Change: :
2/2/2019 10:14	0.7	5.4	6.4	87.5	0.2	137.1	71.8	-2.04	-18.44	---	---	
2/2/2019 10:20	0.8	5.5	6.3	87.4	0.2	137.3	69.4	-2.01	-18.1	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/2/2019 10:20	0.8	5.5	6.3	87.4	0.3	137.3	80.7	-1.94	-17.98	---	---	
2/4/2019 11:02	0.5	4.2	7.2	88.1	0.2	139.8	68.8	-2.16	-20.95	---	---	No Change: :
2/4/2019 11:02	0.5	4.2	7.2	88.1	0.2	139.6	68.8	-2.17	-20.31	---	---	
2/4/2019 11:03	0.5	4.3	7.2	88	0.2	139.6	67.2	-2.16	-19.85	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/4/2019 11:03	0.5	4.3	7.2	88	0	139.6	18.7	-2.15	-20.23	---	---	
2/5/2019 12:25	0.7	4.6	8.4	86.3	0	139.3	0	-2.36	-20.65	---	---	No Change: :
2/5/2019 12:25	0.7	4.6	8.4	86.3	0	139.3	0	-2.35	-19.55	---	---	
2/5/2019 12:25	0.7	4.6	8.4	86.3	0	139.1	0	-2.36	-19.63	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/5/2019 12:25	0.7	4.6	8.4	86.3	0	139.1	0	-2.36	-19.46	---	---	
2/5/2019 18:40	0	3.7	9.8	86.5	0.3	126.5	6.8	-1.87	-20.4	---	---	Closed Valve 1/2 turn or less,Valve barely open: : New QED
2/5/2019 18:40	0	3.7	9.8	86.5	0.2	120.9	4.9	-1.8	-19.34	---	---	
2/6/2019 13:43	0	3.6	11.1	85.3	0	113	2.8	-1.72	-18.83	---	---	No Change: :
2/6/2019 13:43	0	3.6	11.1	85.3	0	112.6	2.4	-1.71	-18.83	---	---	
2/6/2019 13:44	0	3.5	11	85.5	0.1	112.8	2.8	-1.69	-18.74	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/6/2019 13:44	0	3.5	11	85.5	0	75	0.5	-1.56	-18.4	---	---	
2/7/2019 8:48	0	2.5	14.8	82.7	0	76.8	2	-1.5	-18.1	---	---	No Change,Valve barely open: :
2/7/2019 8:48	0	2.5	14.8	82.7	0	76.6	1.7	-1.5	-18.02	---	---	
2/7/2019 9:15	0	2.6	14.9	82.5	0.6	73.4	1.6	-2.44	-17.38	---	---	Closed Valve 1/2 turn or less,Valve barely open: : Changed
2/7/2019 9:15	0	2.6	14.9	82.5	0.2	70.7	1	-1.85	-18.32	---	---	
2/8/2019 15:13	0	1.5	19.6	78.9	0.5	58.8	1.4	-2.41	-19.85	---	---	No Change,Valve barely open: :
2/8/2019 15:13	0	1.5	19.6	78.9	0.5	52.7	1.4	-2.47	-20.65	---	---	
2/8/2019 15:34	0	2.9	16.9	80.2	2.5	83.8	3.2	-3.8	-20.02	---	---	Opened Valve > 1 turn: :
2/8/2019 15:34	0	2.9	16.9	80.2	8.1	94.3	5.6	-10.03	-19.89	---	---	
2/8/2019 15:45	0	4.6	12.2	83.2	8.4	107.6	5.6	-9.74	-21.08	---	---	No Change: :
2/8/2019 15:45	0	4.6	12.2	83.2	8.2	106.9	5.5	-10.25	-20.48	---	---	
2/8/2019 15:54	0	0	---	75	7.7	108.5	5.3	-9.53	-19.42	---	---	Opened Valve > 1 turn: :
2/8/2019 15:54	0	0	---	75	13.5	107.8	7	-15.41	-19.55	---	---	
2/9/2019 10:35	0	4.1	10.8	85.1	14.1	123.6	7.1	-15.58	-19.29	---	---	No Change: :
2/9/2019 10:35	0	4.1	10.8	85.1	12.8	124.9	6.8	-14.39	-18.87	---	---	
2/11/2019 13:53	0.1	3.9	9	87	11.5	127	6.4	-12.91	-18.44	---	---	No Change: :
2/11/2019 13:53	0.1	3.9	9	87	11.5	128.8	6.4	-13.55	-19.85	---	---	
2/11/2019 13:54	0.1	3.9	9.1	86.9	11.6	127.8	6.4	-13.21	-18.61	---	---	Closed Valve > 1 turn: :
2/11/2019 13:54	0.1	3.9	9.1	86.9	3	118	3.4	-4.62	-18.57	---	---	
2/14/2019 11:06	0	3.8	11.2	85	1.8	94.8	2.6	-2.83	-13	---	---	No Change: :

2/14/2019 11:06	0	3.8	11.2	85	1.8	95.7	2.6	-2.82	-13.17	---	---	
2/14/2019 11:07	0	3.8	11.1	85.1	2.1	96.1	2.9	-3.16	-13.39	---	---	Closed Valve > 1 turn,Valve barely open: :
2/14/2019 11:07	0	3.8	11.1	85.1	1.6	93.7	2.5	-2.67	-11.98	---	---	
2/18/2019 8:38	0	2.1	17.8	80.1	1	68.2	2.1	-2.59	-19.08	---	---	No Change: :
2/18/2019 8:38	0	2.1	17.8	80.1	0.9	68.5	1.9	-2.63	-19.21	---	---	
2/18/2019 8:39	0	2.1	17.7	80.2	1.4	68.7	2.4	-3.28	-19.21	---	---	Closed Valve 1/2 turn or less: :
2/18/2019 8:39	0	2.1	17.7	80.2	1.4	69.4	2.4	-3.18	-18.7	---	---	
2/19/2019 10:46	0	2.4	17.4	80.2	1.3	101.5	2.3	-3.15	-18.4	---	---	No Change,Valve barely open: :
2/19/2019 10:46	0	2.4	17.4	80.2	1.4	101.1	2.3	-3.15	-18.87	---	---	
2/19/2019 10:46	0	2.4	17.3	80.3	1.3	100.2	2.3	-3.1	-18.44	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/19/2019 10:46	0	2.4	17.3	80.3	1.1	98.2	2.1	-2.94	-17.72	---	---	
2/20/2019 13:15	0	0	24.8	75.2	0	79	0.4	0.01	-0.08	---	---	No Change: :
2/20/2019 13:15	0	0	24.8	75.2	0	79.5	0.1	0.02	0.04	---	---	
2/20/2019 13:15	0	0	24.3	75.7	0	79.2	0.4	0.02	-0.04	---	---	Opened Valve > 1 turn: :
2/20/2019 13:15	0	0	24.3	75.7	0	90.5	0.1	-0.17	-0.34	---	---	
2/22/2019 15:07	0	2.4	14.4	83.2	1.9	98.1	2.8	-3.43	-18.4	---	---	No Change: :
2/22/2019 15:07	0	2.4	14.4	83.2	2	100.4	2.8	-3.4	-18.36	---	---	
2/22/2019 15:08	0	2.4	14.3	83.3	2.1	100.9	2.8	-3.41	-18.4	---	---	Closed Valve 1/2 to 1 turn: :
2/22/2019 15:08	0	2.4	14.3	83.3	0.2	80.1	0.8	-1.57	-19.46	---	---	
3/6/2019 10:33	0	1.5	19.7	78.8	0.1	21.2	0.6	-2.16	-30.68	---	---	No Change: : CO 0 ppm
3/6/2019 10:33	0	1.5	19.7	78.8	0.1	20.1	0.6	-2.15	-30.81	---	---	
3/6/2019 10:34	0	1.6	19.1	79.3	0.1	20.1	0.6	-2.14	-31.11	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
3/6/2019 10:34	0	1.6	19.1	79.3	0.3	20.3	1.2	-1.76	-30.34	---	---	
3/8/2019 14:54	0	3.2	14.5	82.3	0.1	54.5	0.7	-2.54	-30.9	---	---	No Change: : CO 5 ppm
3/8/2019 14:54	0	3.2	14.5	82.3	0.1	54.5	0.7	-2.52	-29.97	---	---	
3/8/2019 14:56	0	3.5	14.1	82.4	0.8	82	1.8	-2.63	-29.29	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
3/8/2019 14:56	0	3.5	14.1	82.4	0	68.9	0.2	-1.76	-29.67	---	---	
3/11/2019 12:57	0	1.7	18.1	80.2	1.6	59.9	2.6	-3.87	-30.44	---	---	No Change: : CO 0 ppm
3/11/2019 12:57	0	1.7	18.1	80.2	1.6	59.2	2.6	-3.8	-30.61	---	---	
3/11/2019 12:58	0	1.9	17.7	80.4	1.5	52.9	2.6	-3.84	-32.05	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
3/11/2019 12:58	0	1.9	17.7	80.4	0.5	51.8	1.5	-2.79	-31.11	---	---	
3/13/2019 9:39	0	4.4	11.8	83.8	5.4	110.5	4.5	-8.1	-33.11	---	---	No Change: : CO 30 ppm
3/13/2019 9:39	0	4.4	11.8	83.8	5.2	111.6	4.4	-7.75	-31.96	---	---	
3/13/2019 9:40	0.1	4.5	11.8	83.6	5.3	109.2	4.4	-7.84	-32.81	---	---	Opened Valve 1/2 to 1 turn,Valve barely open: :
3/13/2019 9:40	0.1	4.5	11.8	83.6	0	103.6	0.3	-2.35	-32.94	---	---	
3/15/2019 7:47	0	3.9	15	81.1	0.2	51.6	1	-2.39	-29.42	---	---	No Change,Valve barely open: : CO 5 ppm
3/15/2019 7:47	0	3.9	15	81.1	0.2	51.1	1	-2.39	-30.1	---	---	
3/15/2019 9:12	0	2.3	17.2	80.5	0.1	84	48.9	-2.43	-29.46	---	---	No Change,Valve barely open: : 40ft hose.
3/15/2019 9:12	0	2.3	17.2	80.5	0.1	84	46.5	-2.39	-29.08	---	---	
3/15/2019 14:34	0	4.4	12.6	83	0.3	100	89	-2.61	-31.62	---	---	No Change: : 30ft hose
3/15/2019 14:34	0	4.4	12.6	83	0.3	100	86.6	-2.62	-29.38	---	---	
3/15/2019 14:37	0	4.9	8.8	86.3	0.8	110	134.9	-5.77	-27.34	---	---	Opened Valve > 1 turn: : 30ft hose
3/15/2019 14:37	0	4.9	8.8	86.3	0.6	114	122.8	-5.72	-28.06	---	---	
3/18/2019 11:21	0	0	21	79	0	36.9	0.2	0	0	---	---	No Change,Valve barely open: : CO 0 ppm
3/18/2019 11:21	0	0	21	79	0	---	0.1	0	0	---	---	

The following alternate standards have been approved for the following wells:

Arbor Hills Landfill  
 Gas Extraction Well Head Monitoring

Well Number: AHW272R2 / AHW272R2

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/10/2018 12:32	30.9	31.9	0	37.2	0	81.9	12.8	0.17	-0.82	---	---	No Change..... :
8/10/2018 12:32	30.9	31.9	0	37.2	0	81.8	11.5	0.2	-0.82	---	---	
8/10/2018 12:36	31	31.8	0	37.2	0	81.5	10.6	0.19	0	---	---	No Change,Header Vacuum Loss..... :
8/10/2018 12:36	31	31.8	0	37.2	0	81.4	9.2	0.2	0	---	---	
9/11/2018 9:01	26.6	29.3	0	44.1	0	72.7	5.8	-0.02	-0.04	---	---	No Change.....
9/11/2018 9:01	26.6	29.3	0	44.1	0	72.8	3	-0.01	-0.04	---	---	
9/11/2018 9:02	26.2	29.1	0	44.7	0	72.8	---	-0.01	-0.01	---	---	Header Vacuum Loss.....
9/11/2018 9:02	26.2	29.1	0	44.7	0	72.8	---	-0.01	-0.01	---	---	
10/5/2018 11:14	19.5	26.1	0	54.4	0.3	70.6	35.8	-0.28	0.02	---	---	Header Vacuum Loss.....
10/5/2018 11:14	19.5	26.1	0	54.4	0.3	70.6	35.2	-0.26	0.02	---	---	
10/5/2018 11:17	19.4	26	0	54.6	0	70.6	10.1	0.02	0.06	---	---	Header Vacuum Loss.....
10/5/2018 11:17	19.4	26	0	54.6	0	70.6	7.3	0.07	0.06	---	---	
10/23/2018 9:11	20.3	27.2	0	52.5	0	71	---	0	0.01	---	---	No Change.....
10/23/2018 9:11	20.3	27.2	0	52.5	0	71	---	0	0.01	---	---	
10/23/2018 9:12	19.9	27.1	0	53	0	71.1	---	0.06	0.05	---	---	Closed Valve > 1 Turn,Header Vacuum Loss.....
10/23/2018 9:12	19.9	27.1	0	53	0	71.1	---	0.06	0.05	---	---	
11/6/2018 13:36	39	28	0	33	0.5	72.9	46.8	0.59	0.66	---	---	Header Vacuum Loss.....
11/6/2018 13:36	39	28	0	33	0.5	72.9	43.3	0.57	0.66	---	---	
11/16/2018 13:42	32.1	27.1	0	40.8	-0.7	72.7	---	0.87	0.72	---	---	.....
11/16/2018 13:42	32.1	27.1	0	40.8	-0.6	72.6	---	0.86	0.72	---	---	
11/16/2018 13:48	34	27.3	0	38.7	-0.4	72.7	---	0.73	0.67	---	---	Header Vacuum Loss.....
11/16/2018 13:48	34	27.3	0	38.7	-0.4	72.7	---	0.74	0.67	---	---	
11/20/2018 11:08	21.3	21.5	3.4	53.8	2.5	76	100.4	-4.94	-12.84	---	---	No Change.....
11/20/2018 11:08	21.3	21.5	3.4	53.8	2.2	76	94.9	-4.92	-12.84	---	---	
11/20/2018 11:09	20.9	21.4	3.4	54.3	2.4	76	97.7	-4.69	-18.68	---	---	Closed Valve > 1 Turn.....
11/20/2018 11:09	20.9	21.4	3.4	54.3	1.4	76.4	75.5	-2.67	-18.68	---	---	
11/27/2018 9:28	20.4	21.6	3	55	1.5	86.8	75.7	-3.16	-19.56	---	---	No Change.....
11/27/2018 9:28	20.4	21.6	3	55	1.3	86.8	71.1	-3.16	-19.56	---	---	
11/28/2018 11:33	22.2	24.5	1.2	52.1	1.4	86.4	74.4	-3.05	-19.44	---	---	No Change.....
11/28/2018 11:33	22.2	24.5	1.2	52.1	1.5	86.4	76.2	-3.05	-19.44	---	---	
11/28/2018 11:36	22.9	24.6	1.2	51.3	1.5	86.4	76.3	-2.95	-13.49	---	---	Opened Valve > 1Turn.....
11/28/2018 11:36	22.9	24.6	1.2	51.3	2.3	86.2	95.7	-5.03	-13.49	---	---	
12/1/2018 13:42	17.4	21.2	2.9	58.5	2.9	91.4	104.8	-5.42	-14.5	---	---	No Change.....
12/1/2018 13:42	17.4	21.2	2.9	58.5	2.8	91.3	103.8	-5.43	-14.5	---	---	
12/1/2018 13:45	17.7	21.3	2.9	58.1	2.8	91.3	104	-5.59	-12.94	---	---	Opened Valve > 1Turn.....
12/1/2018 13:45	17.7	21.3	2.9	58.1	3.1	91.5	108.9	-6.28	-12.94	---	---	
12/14/2018 11:38	21.6	20.4	8.4	49.6	2.6	94.7	100.2	-5.75	-10.87	---	---	No Change.....
12/14/2018 11:38	21.6	20.4	8.4	49.6	2.4	94.7	96.1	-5.76	-10.87	---	---	
12/15/2018 9:09	12.4	18.3	7.1	62.2	2.6	93.8	99.3	-5.69	-11.05	---	---	No Change.....
12/15/2018 9:09	12.4	18.3	7.1	62.2	2.6	93.8	99.7	-5.67	-11.05	---	---	
12/15/2018 9:11	12.7	18.4	7.1	61.8	2.5	93.8	98	-5.73	-13.29	---	---	Closed Valve > 1 Turn.....
12/15/2018 9:11	12.7	18.4	7.1	61.8	2.1	93.8	88.6	-4.79	-13.29	---	---	



1/3/2019 11:53	23.2	30.3	0	46.5	0.4	100.6	97.3	-0.46	-21.87	---	---	No Change: :
1/3/2019 11:53	23.2	30.3	0	46.5	0.5	100.4	115.1	-0.56	-21.75	---	---	
1/9/2019 12:54	18.5	26.8	4.1	50.6	1.1	---	76.9	-0.82	-21.08	---	---	No Change: :
1/9/2019 12:54	18.5	26.8	4.1	50.6	1.4	---	89	-1.23	-22.44	---	---	
1/14/2019 14:16	18.2	25.1	3.8	52.9	4.5	104.2	328.8	-3.13	-20.44	---	---	No Change: :
1/14/2019 14:16	18.2	25.1	3.8	52.9	4.7	104.2	335.3	-3.31	-20.7	---	---	
1/14/2019 14:17	18.3	25	3.9	52.8	3.3	104.2	279.7	-1.74	-20.7	---	---	Closed Valve 1/2 to 1 turn: :
1/14/2019 14:17	18.3	25	3.9	52.8	2.9	104.4	262.3	-1.26	-20.74	---	---	
2/25/2019 17:46	23.8	28.1	0.1	48	0.7	129.7	126.9	-0.67	-22.04	---	---	No Change: :
2/25/2019 17:46	23.8	28.1	0.1	48	0.7	129.7	125.3	-0.61	-21.87	---	---	
3/16/2019 11:00	55.9	40.2	0.2	3.8	1.2	93	156.7	-31.24	-31.88	---	---	No Change, Valve completely open:
3/16/2019 11:00	55.9	40.2	0.2	3.8	0.7	93	123.8	-30.9	-33.23	---	---	
3/18/2019 14:50	19.9	27.8	0	52.3	2.8	138.4	249.8	-3.03	-28.27	---	---	No Change: :
3/18/2019 14:50	19.9	27.8	0	52.3	2.8	138.6	252.1	-2.97	-27.34	---	---	
3/18/2019 14:52	20.9	28.3	0.2	50.6	4	138.6	300.5	-3.27	-31.41	---	---	Closed Valve 1/2 to 1 turn: :
3/18/2019 14:52	20.9	28.3	0.2	50.6	3.4	143.4	276.9	-2.7	-31.54	---	---	
3/18/2019 14:54	21.8	28.5	0	49.7	2.5	144	238.5	-1.93	-31.33	---	---	No Change: :
3/18/2019 14:54	21.8	28.5	0	49.7	2.2	144	220.2	-1.87	-31.28	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHW285R / AHW285R

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
5/31/2018 17:53	18.8	19.9	0	61.3	0	129.2	6.6	0.09	-38.68	---	---	No Change,Opened Valve 1/2 to 1 turn: new well initial re
5/31/2018 17:53	18.8	19.9	0	61.3	0.1	134.2	21.4	-0.04	-40.08	---	---	
5/31/2018 17:55	20.2	20.6	0	59.2	0.1	135	21.6	-0.08	-40.71	---	---	Closed Valve 1/2 turn or less: :
5/31/2018 17:55	20.2	20.6	0	59.2	0.1	135	18.8	-0.02	-38.89	---	---	
6/25/2018 17:38	15.2	18.3	0	66.5	0.3	137.6	31.9	-0.03	-36.04	---	---	No Change,Valve Barely Open.....
6/25/2018 17:38	15.2	18.3	0	66.5	0.1	137.8	22.5	-0.04	-36.04	---	---	
6/25/2018 17:39	15.1	19.1	0	65.8	0.3	137.9	32.1	-0.03	-35.75	---	---	No Change,Valve Barely Open.....
6/25/2018 17:39	15.1	19.1	0	65.8	0.4	137.9	35.6	-0.05	-35.75	---	---	
7/14/2018 8:16	13.4	18.3	0.3	68	0	140.2	---	0.03	-44.99	---	828	.....
7/14/2018 8:16	13.4	18.3	0.3	68	0	140.2	---	0.03	-44.99	---	828	
8/16/2018 10:34	22.1	23.8	0	54.1	3.8	138	117.4	-3.19	-4.3	---	---	No Change.....
8/16/2018 10:34	22.1	23.8	0	54.1	3.8	137.9	117.4	-3.24	-4.3	---	---	
8/16/2018 10:36	21.9	23.8	0	54.3	4.3	137.8	124.2	-3.74	-8.07	---	---	Closed Valve 1/2 to 1 Turn,Surging In Header,,,,,
8/16/2018 10:36	21.9	23.8	0	54.3	4.4	136.6	125.5	-3.92	-8.07	---	---	
8/17/2018 13:42	21.8	23.7	0	54.5	-0.7	138.6	---	-0.23	-17.13	---	---	No Change.....
8/17/2018 13:42	21.8	23.7	0	54.5	-0.5	138.1	---	-0.24	-17.13	---	---	
8/17/2018 13:46	22.2	23.2	0	54.6	1.4	138	69.9	-0.35	-16.94	---	---	Closed Valve 1/2 Turn or Less.....
8/17/2018 13:46	22.2	23.2	0	54.6	1.1	137.9	63.1	-0.05	-16.94	---	---	
8/28/2018 9:00	24.3	25.2	0	50.5	3.4	137.2	110.2	-2.99	-18.79	---	---	No Change.....
8/28/2018 9:00	24.3	25.2	0	50.5	3.9	137.1	118.3	-3.53	-18.79	---	---	
8/28/2018 9:02	23.4	25	0	51.6	0.3	136.8	33.9	-0.35	-17.85	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
8/28/2018 9:02	23.4	25	0	51.6	0.5	135.8	41.8	-0.33	-17.85	---	---	
8/28/2018 9:03	23.4	24.7	0	51.9	0.7	135.5	50.2	-0.55	-17.61	---	---	No Change.....
8/28/2018 9:03	23.4	24.7	0	51.9	0.9	135.1	55.6	-0.65	-17.61	---	---	
8/30/2018 15:01	15.9	22.4	0	61.7	0.1	128.1	2.8	-0.06	-21.16	---	---	No Change: :
8/30/2018 15:01	15.9	22.4	0	61.7	0	128.1	2.1	-0.03	-21.46	---	---	
8/30/2018 15:04	15.8	21.9	0	62.3	0.5	137.3	8.8	-0.13	-21.37	---	---	Opened Valve 1/2 to 1 turn: :
8/30/2018 15:04	15.8	21.9	0	62.3	0.2	139.5	5	-0.2	-20.95	---	---	
8/30/2018 15:06	18.9	23	0	58.1	0.3	139.8	6.6	-0.52	-21.2	---	---	No Change: :
8/30/2018 15:06	18.9	23	0	58.1	0.2	140	5.3	-0.43	-20.99	---	---	
8/30/2018 15:16	20.6	22.6	0	56.8	0.3	140.5	6.8	0.02	-20.74	---	---	No Change: :
8/30/2018 15:16	20.6	22.6	0	56.8	0.3	140.5	6.7	0.02	-20.36	---	---	
8/30/2018 15:20	19.3	22.6	0	58.1	0.2	140.4	5.8	0	-20.36	---	---	
8/30/2018 15:20	19.3	22.6	0	58.1	1	140.9	12.4	-0.02	-20.44	---	---	
9/12/2018 11:31	30.3	26.8	0	42.9	3.3	139.6	109.3	-3.44	-21.55	---	---	No Change.....
9/12/2018 11:31	30.3	26.8	0	42.9	3.3	139.6	109.4	-3.43	-21.55	---	---	
9/12/2018 11:37	29.9	26.9	0	43.2	4.6	139.6	129.7	-4.56	-25.43	---	---	Closed Valve > 1 Turn,Surging In Header,,,,,
9/12/2018 11:37	29.9	26.9	0	43.2	1.1	138.8	64	-1.26	-25.43	---	---	
9/12/2018 11:41	29.6	26.7	0	43.7	2	139.1	84.9	-1.93	-24.49	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
9/12/2018 11:41	29.6	26.7	0	43.7	1.7	139.1	79.3	-1.86	-24.49	---	---	
9/13/2018 12:59	27.6	26.5	0	45.9	0.9	137.6	57.2	-0.75	-14.65	---	---	No Change.....
9/13/2018 12:59	27.6	26.5	0	45.9	0.9	137.5	57.4	-0.74	-14.65	---	---	

9/13/2018 13:02	27.5	26.5	0	46	0.5	137.3	44	-0.24	-14.81	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
9/13/2018 13:02	27.5	26.5	0	46	0.2	136.8	29.2	-0.03	-14.81	---	---	
10/9/2018 10:56	43.5	29.8	0	26.7	2.3	135	93	-1.89	-27.45	---	---	No Change,,,,,,
10/9/2018 10:56	43.5	29.8	0	26.7	1.1	135.4	65.5	-0.78	-27.45	---	---	
10/9/2018 10:58	44.7	31.6	0	23.7	0.4	135.2	36.2	-0.08	-26.83	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
10/9/2018 10:58	44.7	31.6	0	23.7	0.2	135.6	25.7	-0.03	-26.83	---	---	
10/26/2018 10:10	44.9	33	0	22.1	0.7	132	52.1	-0.43	-20.02	---	---	No Change,,,,,,
10/26/2018 10:10	44.9	33	0	22.1	0.2	132.2	23.9	-0.42	-20.02	---	---	
10/26/2018 10:17	45.5	33.4	0	21.1	0.6	132.4	48.4	-0.51	-18.6	---	---	Opened Valve > 1Turn,Surging In Header,,,,,
10/26/2018 10:17	45.5	33.4	0	21.1	5.2	138.2	140.8	-5.6	-18.6	---	---	
10/27/2018 8:17	23.6	25.7	0.2	50.5	4.5	138.4	126.7	-4.63	-15.76	---	---	No Change,,,,,,
10/27/2018 8:17	23.6	25.7	0.2	50.5	4.5	138.4	127.1	-4.63	-15.76	---	---	
10/27/2018 8:27	21.5	24.9	0.2	53.4	4.3	138.3	123.9	-4.71	-15.42	---	---	Closed Valve 1/2 Turn or Less,,,,,,
10/27/2018 8:27	21.5	24.9	0.2	53.4	2.3	138.2	90.9	-2.31	-15.42	---	---	
10/29/2018 8:21	12.5	20.8	0.4	66.3	2.7	141.1	96.8	-2.65	-16.42	---	---	No Change,,,,,,
10/29/2018 8:21	12.5	20.8	0.4	66.3	2.8	141	98.4	-2.69	-16.42	---	---	
10/29/2018 8:27	12.7	20.8	0.4	66.1	2.9	141.1	100.6	-2.76	-17.9	---	---	Closed Valve > 1 Turn,,,,,,
10/29/2018 8:27	12.7	20.8	0.4	66.1	0.5	138.5	39.9	-0.59	-17.9	---	---	
10/29/2018 9:55	1.4	18.1	0.8	79.7	0.5	139.9	42.4	-0.42	-17.55	---	---	No Change,,,,,,
10/29/2018 9:55	1.4	18.1	0.8	79.7	0.5	139.9	42.3	-0.44	-17.55	---	---	
10/29/2018 9:57	1.4	18.1	0.8	79.7	0.6	139.6	44.5	-0.49	-17.15	---	---	Opened Valve > 1Turn,,,,,,
10/29/2018 9:57	1.4	18.1	0.8	79.7	4.9	143.4	129.3	-5.52	-17.15	---	---	
11/1/2018 10:27	40.8	30.7	0	28.5	-6.4	138.8	---	-0.3	-22.88	---	---	No Change,,,,,,
11/1/2018 10:27	40.8	30.7	0	28.5	-6.3	139	---	-0.28	-22.88	---	---	
11/1/2018 10:34	40.7	30.4	0	28.9	-6.3	138.6	---	-0.25	-20.58	---	---	Valve 100% Open,Opened Valve > 1Turn,,,,,
11/1/2018 10:34	40.7	30.4	0	28.9	-6.3	139.4	---	-1.19	-20.58	---	---	
11/1/2018 10:58	36.9	29.6	0	33.5	5	139	136.8	-5.23	-21.94	---	---	No Change,,,,,,
11/1/2018 10:58	36.9	29.6	0	33.5	5	139.1	136.8	-5.23	-21.94	---	---	
11/1/2018 11:02	39.9	30.5	0	29.6	5.2	138.8	139.2	-5.45	-21.9	---	---	Opened Valve > 1Turn,,,,,,
11/1/2018 11:02	39.9	30.5	0	29.6	8.1	139.1	174.3	-8.48	-21.9	---	---	
11/1/2018 11:05	35.4	29.1	0	35.5	8	139.3	172.4	-8.41	-21.67	---	---	No Change,,,,,,
11/1/2018 11:05	35.4	29.1	0	35.5	8	139.2	172.5	-8.42	-21.67	---	---	
11/7/2018 10:02	11.5	20	2.3	66.2	8.3	148.4	169.2	-7.82	-19.22	---	---	No Change,,,,,,
11/7/2018 10:02	11.5	20	2.3	66.2	8.3	148.5	169.2	-7.81	-19.22	---	---	
11/7/2018 10:06	11.1	19.8	2.3	66.8	8.4	148.5	170.7	-7.99	-19.7	---	---	Opened Valve > 1Turn,,,,,,
11/7/2018 10:06	11.1	19.8	2.3	66.8	8.4	148.5	170.7	-11.71	-19.7	---	---	
11/7/2018 10:09	15.2	21.7	1.8	61.3	---	147.4	---	-13.47	-19.72	---	---	No Change,,,,,,
11/7/2018 10:09	15.2	21.7	1.8	61.3	---	147.4	---	-13.42	-19.72	---	---	
11/12/2018 10:03	12.6	20.9	1.6	64.9	---	149	---	-13.07	-19.66	---	---	No Change,,,,,,
11/12/2018 10:03	12.6	20.9	1.6	64.9	---	149	---	-13.05	-19.66	---	---	
11/12/2018 10:07	12.6	20.8	1.6	65	---	149.1	---	-13.19	-18.3	---	---	Opened Valve > 1Turn,,,,,,
11/12/2018 10:07	12.6	20.8	1.6	65	---	148.4	---	-17.35	-18.3	---	---	
12/14/2018 13:56	19.8	23.7	0.8	55.7	---	146.1	---	-11.31	-12.4	---	---	No Change,,,,,,
12/14/2018 13:56	19.8	23.7	0.8	55.7	---	146.3	---	-11.36	-12.4	---	---	
12/14/2018 14:02	0	0.3	21.7	78	---	147.3	---	-11.5	-11.21	---	---	Valve 100% Open,Opened Valve > 1Turn,,,,,
12/14/2018 14:02	0	0.3	21.7	78	---	147.3	---	-14.18	-11.21	---	---	
12/14/2018 14:11	16	22.2	1.2	60.6	---	146.7	---	-14.53	-11.08	---	---	No Change,,,,,,
12/14/2018 14:11	16	22.2	1.2	60.6	---	146.7	---	-14.57	-11.08	---	---	
1/9/2019 12:27	---	---	---	---	15	26.8	287.7	-15.62	-13.39	---	---	No Change: :
1/9/2019 12:27	---	---	---	---	15.1	---	288.9	-15.83	-13.73	---	---	
1/24/2019 13:13	9.7	21.3	1	68	14	148.1	250.4	-14.48	-12.2	---	---	No Change: :
1/24/2019 13:13	9.7	21.3	1	68	13.9	148.1	250	-14.61	-12.24	---	---	

1/24/2019 13:15	9.7	21.3	1.2	67.8	14	148.1	250.2	-14.52	-12.15	---	---	No Change,Valve compltley open:
1/24/2019 13:15	9.7	21.3	1.2	67.8	14	147.9	250.6	-14.61	-12.45	---	---	
2/25/2019 14:28	5.8	17.3	5.6	71.3	19.7	145.6	290.6	-21.13	-18.19	---	---	No Change: :
2/25/2019 14:28	5.8	17.3	5.6	71.3	19.8	145.6	291	-21	-17.59	---	---	
2/25/2019 14:29	5.8	17.4	5.6	71.2	20.1	145.6	293.4	-21.04	-17.89	---	---	Closed Valve > 1 turn: :
2/25/2019 14:29	5.8	17.4	5.6	71.2	1.4	144.7	80.2	-1.34	-19.76	---	---	
2/26/2019 10:44	0.1	14.7	3.8	81.4	1.5	143.1	84.8	-1.63	-21.84	---	---	No Change: : CO 5ppm
2/26/2019 10:44	0.1	14.7	3.8	81.4	1.5	143.2	85.2	-1.62	-22.01	---	---	
2/26/2019 10:45	0.3	14.2	4.4	81.1	1.5	143.2	84.7	-1.55	-22.48	---	---	Closed Valve > 1 turn: :
2/26/2019 10:45	0.3	14.2	4.4	81.1	0.2	137.1	34.3	-0.18	-22.86	---	---	
3/4/2019 15:32	30.2	27.7	0	42.1	0	103.3	0	0.12	-24.93	---	---	No Change: :
3/4/2019 15:32	30.2	27.7	0	42.1	0	101.8	0	0.1	-24.59	---	---	
3/4/2019 15:32	29.5	27.3	0.5	42.7	0	101.8	0	0.12	-24.42	---	---	Opened Valve 1/2 turn or less: : CO 0ppm
3/4/2019 15:32	29.5	27.3	0.5	42.7	0.5	107.4	50.7	-0.33	-24.42	---	---	
3/6/2019 11:23	13.5	23.4	0.5	62.6	0.1	128.5	24.5	0.02	-29.54	---	---	No Change: : CO 0 ppm
3/6/2019 11:23	13.5	23.4	0.5	62.6	0.1	126.5	24.2	0.01	-29.83	---	---	
3/6/2019 11:23	11.5	21.9	1	65.6	0.1	127.4	25	0.02	-29.45	---	---	Opened Valve 1/2 turn or less: :
3/6/2019 11:23	11.5	21.9	1	65.6	0.9	130.5	67	-0.83	-29.03	---	---	
3/8/2019 15:38	30	26.6	0	43.4	0.4	140.5	44.4	-0.33	-22.47	---	---	No Change: : CO 0 ppm
3/8/2019 15:38	30	26.6	0	43.4	0.6	140.5	53.3	-0.32	-22.3	---	---	
3/8/2019 15:38	30	26.3	0.3	43.4	1	140	69.5	-0.58	-22.81	---	---	Opened Valve 1/2 turn or less: :
3/8/2019 15:38	30	26.3	0.3	43.4	1.1	140.7	71.1	-0.41	-22.85	---	---	
3/11/2019 13:52	0.9	16.3	3.5	79.3	0.5	138.6	48	-0.43	-19.63	---	---	No Change: : CO 10 ppm
3/11/2019 13:52	0.9	16.3	3.5	79.3	0.3	138.7	39.5	-0.35	-19.71	---	---	
3/11/2019 13:52	1.1	15.7	4.3	78.9	0.5	138.9	48.5	-0.31	-19.37	---	---	Opened Valve 1/2 turn or less: :
3/11/2019 13:52	1.1	15.7	4.3	78.9	0.7	140.9	59	-0.7	-19.33	---	---	
3/13/2019 10:30	24.6	24.5	0	50.9	0	35.6	5.2	0.1	-20.98	---	---	No Change: : CO 30 ppm
3/13/2019 10:30	24.6	24.5	0	50.9	0	35.6	7.9	0.09	-21.11	---	---	
3/13/2019 10:30	24.6	24.3	0.5	50.6	0	36.7	6.7	0.05	-21.24	---	---	Opened Valve 1/2 turn or less: :
3/13/2019 10:30	24.6	24.3	0.5	50.6	0.3	36.7	39.2	-0.21	-21.28	---	---	
3/13/2019 10:32	10.3	21.4	0	68.3	0.1	114.1	25.2	-0.07	-21.15	---	---	No Change: : Temp probe disconnected on last Two reads
3/13/2019 10:32	10.3	21.4	0	68.3	0.1	115.3	24.4	-0.04	-20.86	---	---	
3/15/2019 12:49	10.9	22	0.6	66.5	0.7	119.1	59	-0.5	-19.33	---	---	No Change: : CO 10 ppm
3/15/2019 12:49	10.9	22	0.6	66.5	0.7	118.9	59.6	-0.51	-19.2	---	---	
3/15/2019 12:50	10.4	20.7	0.5	68.4	0.5	122.2	52.1	-0.38	-19.29	---	---	Opened Valve 1/2 turn or less: :
3/15/2019 12:50	10.4	20.7	0.5	68.4	0.6	122.4	52.6	-0.3	-18.99	---	---	
3/18/2019 13:51	27.8	25.3	0	46.9	0.5	124.5	51.7	-0.29	-21.07	---	---	No Change: : CO 10 ppm
3/18/2019 13:51	27.8	25.3	0	46.9	0.2	125.8	29.5	-0.06	-20.77	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged
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Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHW286R / AHW286R

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
5/31/2018 18:00	42.2	31.7	0.1	26	0	87.1	10.8	0.06	-37.32	---	---	Opened Valve 1/2 turn or less: new well initial read:
5/31/2018 18:00	42.2	31.7	0.1	26	0.1	122.7	21.4	-0.02	-36.94	---	---	
5/31/2018 18:01	42.6	31.1	0	26.3	0.1	133.5	19.2	-0.01	-38.72	---	---	second read:
5/31/2018 18:01	42.6	31.1	0	26.3	0.1	136	20.9	-0.04	-38.34	---	---	
6/25/2018 17:30	39.2	29.6	0.6	30.6	0	152.5	---	0.04	-33.27	---	---	Opened Valve 1/2 Turn or Less.....
6/25/2018 17:30	39.2	29.6	0.6	30.6	0.2	154.6	25.7	-0.11	-33.27	---	---	
6/25/2018 17:33	34.5	29.1	1.2	35.2	0.4	155	36.1	-0.34	-35.38	---	---	Valve Barely Open,Closed Valve 1/2 Turn or Less.....
6/25/2018 17:33	34.5	29.1	1.2	35.2	0	152.2	36.1	-0.16	-35.38	---	---	
7/14/2018 8:22	33.4	28.6	0.2	37.8	0.1	132.3	14.5	-0.02	-40.97	---	135	Closed Valve 1/2 to 1 Turn,Valve Barely Open.....
7/14/2018 8:22	33.4	28.6	0.2	37.8	0.1	133.7	14.2	-0.01	-40.97	---	135	
8/7/2018 14:29	51	36.3	0	12.7	-0.1	137.8	---	0.1	-23.45	---	---	No Change.....
8/7/2018 14:29	51	36.3	0	12.7	-0.1	137.7	---	0.1	-23.45	---	---	
8/7/2018 14:36	52.8	37.5	0	9.7	-0.1	136.9	---	0.1	-20.27	---	---	Opened Valve 1/2 to 1 Turn.....
8/7/2018 14:36	52.8	37.5	0	9.7	0.4	147.8	39.5	-0.46	-20.27	---	---	
8/8/2018 9:40	27.5	29.4	0.2	42.9	0.1	152	13.8	0.14	-17.23	---	---	No Change.....
8/8/2018 9:40	27.5	29.4	0.2	42.9	0.1	152.3	13.8	0.14	-17.23	---	---	
8/8/2018 9:46	25.1	28.4	0.2	46.3	0	152.3	9.1	0.18	-16.58	---	---	Opened Valve 1/2 Turn or Less,Surging In Header.....
8/8/2018 9:46	25.1	28.4	0.2	46.3	0.3	152.9	31.2	-0.08	-16.58	---	---	
8/10/2018 12:27	35.8	30.1	0.4	33.7	0.4	152.2	39.4	-0.35	-15.43	---	---	No Change.....
8/10/2018 12:27	35.8	30.1	0.4	33.7	0.5	152.3	43.2	-0.35	-15.43	---	---	
8/10/2018 12:28	35.6	30.2	0.4	33.8	0.2	152.3	28.3	-0.02	-14.92	---	---	Opened Valve 1/2 Turn or Less,Surging In Header.....
8/10/2018 12:28	35.6	30.2	0.4	33.8	0.3	152.4	33.4	-0.07	-14.92	---	---	
8/14/2018 9:29	26.9	29.3	0.1	43.7	0.3	155.5	31.1	-0.15	-14.48	---	---	No Change.....
8/14/2018 9:29	26.9	29.3	0.1	43.7	0.3	155.4	31.3	-0.15	-14.48	---	---	
8/14/2018 9:32	26.4	29.2	0.1	44.3	0.4	155.7	37.4	-0.31	-13.09	---	---	Opened Valve 1/2 Turn or Less,Surging In Header.....
8/14/2018 9:32	26.4	29.2	0.1	44.3	0.5	155.7	40	-0.33	-13.09	---	---	
8/17/2018 13:59	32.4	31.2	0.2	36.2	0.8	155	53.3	-0.82	-12.35	---	---	No Change.....
8/17/2018 13:59	32.4	31.2	0.2	36.2	0.6	155.1	43.2	-0.78	-12.35	---	---	
8/17/2018 14:00	32.4	31.5	0.2	35.9	0.6	155.1	43.2	-0.79	-13.29	---	---	Closed Valve 1/2 Turn or Less.....
8/17/2018 14:00	32.4	31.5	0.2	35.9	0.5	155	41.7	-0.43	-13.29	---	---	
8/28/2018 9:07	26.2	28.4	1	44.4	0.6	155.5	43.2	-0.83	-14.29	---	---	No Change.....
8/28/2018 9:07	26.2	28.4	1	44.4	0.6	155.7	43	-0.82	-14.29	---	---	
8/28/2018 9:09	25.9	28.3	1	44.8	0.4	155.8	36	-0.58	-18.22	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,Surging
8/28/2018 9:09	25.9	28.3	1	44.8	0.4	155	37.8	-0.56	-18.22	---	---	
8/28/2018 9:10	25.6	28	1	45.4	0	155.3	10.3	-0.14	-18.45	---	---	No Change.....
8/28/2018 9:10	25.6	28	1	45.4	0	155.7	9.5	-0.12	-18.45	---	---	
8/30/2018 14:57	47.8	31.4	0.4	20.4	0.4	151	41.5	-0.28	-20.44	---	---	No Change: high temp:
8/30/2018 14:57	47.8	31.4	0.4	20.4	0.4	150.8	41.1	-0.22	-20.65	---	---	
9/12/2018 13:13	51.1	37.1	0.5	11.3	-0.6	150.9	---	0.61	-25	---	---	No Change.....
9/12/2018 13:13	51.1	37.1	0.5	11.3	-0.6	150.8	---	0.63	-25	---	---	
9/12/2018 13:17	50.8	37	0.5	11.7	-0.8	150.7	---	0.76	-14.05	---	---	Opened Valve > 1Turn,Surging In Header.....
9/12/2018 13:17	50.8	37	0.5	11.7	0	152.4	1.4	-0.09	-14.05	---	---	

9/12/2018 13:20	45.7	33.7	0.9	19.7	0.3	152.4	32.9	-0.36	-14.82	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
9/12/2018 13:20	45.7	33.7	0.9	19.7	0.2	152.5	27.8	-0.36	-14.82	---	---	
10/9/2018 10:51	39	31.4	0.8	28.8	4.3	157.2	124.6	-0.58	-15.44	---	---	No Change,,,,,,
10/9/2018 10:51	39	31.4	0.8	28.8	3.7	157.2	115.4	-0.57	-15.44	---	---	
10/9/2018 10:53	38.7	31.4	0.8	29.1	3.2	155	107.4	-0.72	-23.05	---	---	Closed Valve > 1 Turn,Surging In Header,,,,,
10/9/2018 10:53	38.7	31.4	0.8	29.1	2.3	156.2	90.9	-0.33	-23.05	---	---	
10/26/2018 14:11	35.3	31.5	3.1	30.1	0.3	156.9	33	-0.3	-13.9	---	---	No Change,,,,,,
10/26/2018 14:11	35.3	31.5	3.1	30.1	0.1	157	21.9	-0.22	-13.9	---	---	
10/26/2018 14:19	31.8	29.3	3.6	35.3	0.7	158.4	49.3	-0.53	-4.05	---	---	Opened Valve > 1Turn,,,,,,
10/26/2018 14:19	31.8	29.3	3.6	35.3	1	158.3	58.2	-1.19	-4.05	---	---	
10/27/2018 7:53	26.2	26.2	4.4	43.2	-0.3	162	---	-0.61	-3.95	---	---	No Change,,,,,,
10/27/2018 7:53	26.2	26.2	4.4	43.2	-0.4	162	---	-0.57	-3.95	---	---	
10/27/2018 8:11	27.8	27.1	4.1	41	0.7	161.9	48.1	-0.51	-3.41	---	---	Opened Valve 1/2 to 1 Turn,Surging In Header,Header Va
10/27/2018 8:11	27.8	27.1	4.1	41	0.8	162	53.6	-0.54	-3.41	---	---	
10/29/2018 8:10	24.9	25.9	4.1	45.1	0.6	162.9	43.2	-0.69	-3.7	---	---	No Change,,,,,,
10/29/2018 8:10	24.9	25.9	4.1	45.1	0.6	162.9	43.3	-0.67	-3.7	---	---	
10/29/2018 8:15	24.5	25.7	4.2	45.6	1	163.1	58.9	-0.64	-10.66	---	---	Closed Valve > 1 Turn,,,,,,
10/29/2018 8:15	24.5	25.7	4.2	45.6	0.5	163.1	42.1	-0.29	-10.66	---	---	
10/29/2018 10:00	21.2	23.7	4.8	50.3	0.8	163.8	51.7	-0.63	-10.9	---	---	No Change,,,,,,
10/29/2018 10:00	21.2	23.7	4.8	50.3	0.7	163.8	49.2	-0.61	-10.9	---	---	
10/29/2018 10:03	20.7	23.6	4.8	50.9	0.6	163.7	43.3	-0.48	-1.8	---	---	Opened Valve > 1Turn,,,,,,
10/29/2018 10:03	20.7	23.6	4.8	50.9	0.8	163.2	50.4	-0.87	-1.8	---	---	
10/30/2018 13:15	29.7	28.5	2.3	39.5	1	162.2	59.6	-1.17	-2.23	---	---	No Change,,,,,,
10/30/2018 13:15	29.7	28.5	2.3	39.5	1	162.2	59.8	-1.18	-2.23	---	---	
10/30/2018 13:30	34.6	30.6	2.4	32.4	0.7	158.1	50.3	-0.59	-18.32	---	---	Opened Valve > 1Turn,,,,,,
10/30/2018 13:30	34.6	30.6	2.4	32.4	5.2	161.9	134.5	-5.19	-18.32	---	---	
11/1/2018 10:11	34.4	31	2	32.6	-4.9	160.5	0	-5.02	-18.51	---	---	No Change,,,,,,
11/1/2018 10:11	34.4	31	2	32.6	4.7	160.4	26.8	-0.19	-18.51	---	---	
11/1/2018 10:18	37.9	32.7	1.4	28	4.8	160.2	27	-0.19	-10.05	---	---	Valve 100% Open,Opened Valve > 1Turn,,,,,
11/1/2018 10:18	37.9	32.7	1.4	28	4.8	160.7	27	-0.87	-10.05	---	---	
11/3/2018 9:00	26	26.6	3	44.4	---	163.1	---	-11.86	-9.16	---	---	No Change,,,,,,
11/3/2018 9:00	26	26.6	3	44.4	---	162.8	---	-11.37	-9.16	---	---	
11/3/2018 9:08	24.8	26.3	3.2	45.7	---	163.4	---	-12.08	-9.18	---	---	Valve 100% Open,,,,,,
11/3/2018 9:08	24.8	26.3	3.2	45.7	---	163.4	---	-12.07	-9.18	---	---	
11/6/2018 9:27	26.2	27	2.6	44.2	---	161.4	---	-11.53	-9.8	---	---	No Change,,,,,,
11/6/2018 9:27	26.2	27	2.6	44.2	---	161.4	---	-11.53	-9.8	---	---	
11/6/2018 9:32	26.8	27.4	2.4	43.4	---	161.9	---	-11.8	-9.18	---	---	Valve 100% Open,,,,,,
11/6/2018 9:32	26.8	27.4	2.4	43.4	---	161.9	---	-11.83	-9.18	---	---	
11/7/2018 9:48	22.4	24.7	4.1	48.8	8.4	163.1	35.3	-0.98	-8.36	---	---	No Change,,,,,,
11/7/2018 9:48	22.4	24.7	4.1	48.8	8.6	163.1	35.6	-0.95	-8.36	---	---	
11/7/2018 9:53	25.3	26.1	3.6	45	8.2	162.8	35	-0.96	-8.21	---	---	Valve 100% Open,,,,,,
11/7/2018 9:53	25.3	26.1	3.6	45	8.2	162.8	35	-0.98	-8.21	---	---	
11/12/2018 9:22	17.8	22.7	4.1	55.4	7.7	164.1	33.5	-0.42	-7.69	---	---	No Change,,,,,,
11/12/2018 9:22	17.8	22.7	4.1	55.4	7.7	164.3	33.5	-0.47	-7.69	---	---	
11/12/2018 9:26	22.1	24.8	3.3	49.8	7.4	163.1	33.1	-0.81	-7.25	---	---	Valve 100% Open,,,,,,
11/12/2018 9:26	22.1	24.8	3.3	49.8	7.3	163.1	32.8	-0.83	-7.25	---	---	
11/16/2018 14:05	24.6	26	3.1	46.3	7.1	161.4	32.4	-0.38	-6.45	---	---	No Change,,,,,,
11/16/2018 14:05	24.6	26	3.1	46.3	7.1	161.4	32.4	-0.4	-6.45	---	---	
11/16/2018 14:09	21.7	24.8	3.4	50.1	7.1	162.3	32.3	-0.56	-5.92	---	---	Valve 100% Open,,,,,,
11/16/2018 14:09	21.7	24.8	3.4	50.1	7.3	162.3	32.8	-0.57	-5.92	---	---	
12/14/2018 13:40	16.9	20.8	5.3	57	4.9	164.6	26.8	-5.54	-4.06	---	---	No Change,,,,,,
12/14/2018 13:40	16.9	20.8	5.3	57	4.8	164.4	26.5	-5.49	-4.06	---	---	

12/14/2018 13:48	19.6	22.4	4.8	53.2	4.6	163.7	25.8	-5.13	-3.67	---	---	Valve 100% Open,.....
12/14/2018 13:48	19.6	22.4	4.8	53.2	4.6	163.7	25.8	-5.08	-3.67	---	---	
1/3/2019 12:00	21.8	23.9	3.7	50.6	0	52.9	1.4	0.19	-12.17	---	---	No Change: :
1/3/2019 12:00	21.8	23.9	3.7	50.6	0	54.1	1.4	0.21	-12.21	---	---	
1/3/2019 12:03	---	---	---	---	0	54.9	1	0.2	-12.21	---	---	Opened Valve 1/2 to 1 turn: :
1/3/2019 12:03	---	---	---	---	0.2	118.4	6	-0.34	-11.28	---	---	
1/3/2019 12:05	36.7	31.9	1.8	29.6	0.9	133.2	11.9	-0.79	-11.36	---	---	No Change: :
1/3/2019 12:05	36.7	31.9	1.8	29.6	1	134.4	12.6	-0.72	-11.49	---	---	
1/9/2019 12:36	5.5	16.1	8.2	70.2	0	---	2.5	0.24	-13.43	---	---	No Change: :
1/9/2019 12:36	5.5	16.1	8.2	70.2	0	---	2.5	0.23	-13.43	---	---	
1/14/2019 9:14	6	15.3	6.8	71.9	0	45	1	0.13	-12.28	---	---	No Change: :
1/14/2019 9:14	6	15.3	6.8	71.9	0	45	0.9	0.13	-12.28	---	---	
1/14/2019 9:17	6.2	15.3	6.9	71.6	0	47.1	0.5	0.13	-12.24	---	---	Opened Valve 1/2 turn or less: :
1/14/2019 9:17	6.2	15.3	6.9	71.6	0.2	60.3	5.7	-0.09	-11.86	---	---	
1/14/2019 9:30	11.1	16.5	7.8	64.6	1.9	165.7	16.4	-1.76	-9.65	---	---	No Change: :
1/14/2019 9:30	11.1	16.5	7.8	64.6	1.8	165.7	16.1	-1.75	-9.48	---	---	
1/14/2019 9:31	10.7	16.3	7.8	65.2	1.8	165.6	16.3	-1.9	-9.77	---	---	Closed Valve 1/2 turn or less: :
1/14/2019 9:31	10.7	16.3	7.8	65.2	0.8	163.6	11	-0.66	-11.09	---	---	
1/14/2019 9:33	8.8	15.3	8.2	67.7	0.7	163.2	10.1	-0.72	-10.71	---	---	No Change: :
1/14/2019 9:33	8.8	15.3	8.2	67.7	0.7	162.5	10.2	-0.54	-11.56	---	---	
1/15/2019 15:17	13.6	20.4	6.8	59.2	1.8	160.2	16.1	-1.6	-10.45	---	---	No Change: :
1/15/2019 15:17	13.6	20.4	6.8	59.2	1.3	160.2	13.8	-1.1	-10.5	---	---	
1/15/2019 15:18	9.2	18.5	6.2	66.1	2.8	160.5	20.2	-2.63	-10.41	---	---	Closed Valve > 1 turn: :
1/15/2019 15:18	9.2	18.5	6.2	66.1	2	157.8	17.2	-1.85	-11.56	---	---	
1/15/2019 15:22	5.3	17	7	70.7	0.3	150.4	6.5	-0.24	-9.73	---	---	No Change: :
1/15/2019 15:22	5.3	17	7	70.7	0.3	156	6.7	-0.24	-9.82	---	---	
1/24/2019 12:57	6.9	18	5.2	69.9	0	45.3	0.6	0.09	-12.24	---	---	No Change: :
1/24/2019 12:57	6.9	18	5.2	69.9	0	45.1	0.6	0.09	-12.28	---	---	
1/24/2019 12:58	6.9	18	5.3	69.8	0	45.5	1.2	0.09	-12.24	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/24/2019 12:58	6.9	18	5.3	69.8	0.1	55.9	4	-0.01	-11.98	---	---	
1/24/2019 13:03	6.4	16.4	7.1	70.1	0.5	130.6	8.3	-0.3	-11.69	---	---	No Change: :
1/24/2019 13:03	6.4	16.4	7.1	70.1	0.2	130.6	5.2	-0.35	-11.69	---	---	
1/24/2019 13:04	6.4	16.4	7.2	70	0	131.5	2.5	0.02	-11.9	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/24/2019 13:04	6.4	16.4	7.2	70	0.1	125.2	3.4	-0.04	-11.94	---	---	
1/25/2019 9:54	5.4	16.7	7.3	70.6	0	62.4	2.2	-0.46	-14.28	---	---	No Change: : CO Tube Taken
1/25/2019 9:54	5.4	16.7	7.3	70.6	0	62.8	2.2	-0.44	-14.28	---	---	
1/25/2019 9:59	5.4	16.7	7.1	70.8	0	61.3	2.2	-0.5	-14.28	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/25/2019 9:59	5.4	16.7	7.1	70.8	0.1	115.2	3.5	-0.04	-13.22	---	---	
1/25/2019 14:56	5.7	15.3	8.5	70.5	4.8	120.2	4.2	-4.92	-12.88	---	---	Closed Valve 1/2 turn or less,Valve barely open: : Change
1/25/2019 14:56	5.7	15.3	8.5	70.5	3.6	116.8	3.7	-3.38	-12.92	---	---	
1/26/2019 10:51	7.6	16.8	5.7	69.9	4.3	100.4	4.1	-3.73	-12.79	---	---	No Change: :
1/26/2019 10:51	7.6	16.8	5.7	69.9	4.3	---	4.1	-3.73	-12.79	---	---	
1/26/2019 10:56	7.7	16.9	5.7	69.7	4.3	100.8	4.1	-4.15	-12.96	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/26/2019 10:56	7.7	16.9	5.7	69.7	3.1	89.6	3.5	-3.08	-13.26	---	---	
1/28/2019 13:59	10.3	20.8	3.9	65	1.3	18.7	2.4	-1.12	-12.32	---	---	No Change: :
1/28/2019 13:59	10.3	20.8	3.9	65	1.3	18.7	2.4	-1.12	-12.24	---	---	
1/28/2019 14:00	10.4	20.7	3.9	65	1.3	18.7	2.4	-1.11	-12.32	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
1/28/2019 14:00	10.4	20.7	3.9	65	1.2	18.5	2.3	-1.06	-12.28	---	---	
2/1/2019 15:12	6.8	17.2	4.5	71.5	0	29.3	0.2	0.07	-12.58	---	---	No Change: :
2/1/2019 15:12	6.8	17.2	4.5	71.5	0	28.8	0.1	0.07	-12.58	---	---	
2/1/2019 15:15	6.9	17.3	4.4	71.4	0	28.4	0.2	0.11	-12.45	---	---	Opened Valve 1/2 to 1 turn: :
2/1/2019 15:15	6.9	17.3	4.4	71.4	0.1	29.5	0.8	-0.06	-6.8	---	---	

2/1/2019 15:53	6.1	15.1	6.1	72.7	10.5	115.9	6.2	-10.67	-12.96	---	---	Closed Valve 1/2 turn or less: :
2/1/2019 15:53	6.1	15.1	6.1	72.7	6.7	116.1	5	-6.22	-12.28	---	---	
2/2/2019 11:20	9	18.9	4.4	67.7	0.7	97.3	1.6	-0.41	-12.71	---	---	No Change: :
2/2/2019 11:20	9	18.9	4.4	67.7	0.7	97.3	1.6	-0.5	-12.92	---	---	
2/4/2019 14:38	9.5	19.3	4	67.2	0.1	79	0.8	-0.07	-13.26	---	---	No Change: :
2/4/2019 14:38	9.5	19.3	4	67.2	0.1	80.1	0.7	-0.04	-13.34	---	---	
2/4/2019 14:39	9.7	19.1	4.3	66.9	0.1	79.9	0.8	-0.06	-13.6	---	---	Opened Valve 1/2 turn or less,Valve barely open: :
2/4/2019 14:39	9.7	19.1	4.3	66.9	1	81	2	-0.84	-13.34	---	---	
2/5/2019 12:49	7	17.3	6.8	68.9	0.3	90.1	1	-0.21	-13.73	---	---	No Change: :
2/5/2019 12:49	7	17.3	6.8	68.9	0.2	90.5	1	-0.21	-13.51	---	---	
2/5/2019 12:50	7	17.4	6.7	68.9	0.6	90.5	1.5	-0.57	-13.51	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/5/2019 12:50	7	17.4	6.7	68.9	0.2	92.3	0.9	-0.16	-13.51	---	---	
2/5/2019 14:48	7.6	18.4	5.8	68.2	0.2	92.3	1	-0.12	-13.85	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/5/2019 14:48	7.6	18.4	5.8	68.2	0.1	91.2	0.7	-0.05	-13.94	---	---	
2/6/2019 11:45	8.4	17.6	5.7	68.3	0.1	74.1	0.7	-0.07	-12.58	---	---	No Change,Valve barely open: :
2/6/2019 11:45	8.4	17.6	5.7	68.3	0.1	74.7	0.7	-0.07	-12.49	---	---	
2/6/2019 11:46	8.5	17.6	5.7	68.2	0.2	74.1	0.8	-0.14	-12.45	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/6/2019 11:46	8.5	17.6	5.7	68.2	0.2	73.4	0.9	-0.13	-12.49	---	---	
2/7/2019 14:34	33	30.9	1	35.1	0.2	76.3	0.8	-0.16	-13.56	---	---	No Change: :
2/7/2019 14:34	33	30.9	1	35.1	0.2	76.5	0.8	-0.17	-13.56	---	---	
2/11/2019 14:38	7.4	17.4	6	69.2	0.3	54	1.2	-0.16	-13.98	---	---	No Change,Valve barely open: :
2/11/2019 14:38	7.4	17.4	6	69.2	0.3	54	1.2	-0.12	-14.32	---	---	
2/13/2019 13:25	7.8	17.2	6.7	68.3	1.2	49.1	2.3	-1.23	-14.62	---	---	No Change: :
2/13/2019 13:25	7.8	17.2	6.7	68.3	1.3	53.2	2.3	-1.38	-14.79	---	---	
2/13/2019 13:27	8	17.4	6.6	68	0.7	54.1	1.7	-0.52	-14.62	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/13/2019 13:27	8	17.4	6.6	68	0.4	54.3	1.4	-0.19	-14.66	---	---	
2/14/2019 16:27	9.6	18.2	4.7	67.5	0.1	60.3	0.7	0.09	-11.26	---	---	No Change: :
2/14/2019 16:27	9.6	18.2	4.7	67.5	0.1	59.7	0.6	0.04	-11.26	---	---	
2/15/2019 8:16	12.1	21	3.3	63.6	0.3	49.8	1.2	-0.3	-14.19	---	---	No Change: :
2/15/2019 8:16	12.1	21	3.3	63.6	0.3	49.8	1.1	-0.52	-14.02	---	---	
2/15/2019 8:16	12.2	20.9	3.6	63.3	0.7	49.8	1.7	-0.32	-14.19	---	---	No Change,Valve barely open: :
2/15/2019 8:16	12.2	20.9	3.6	63.3	0.4	49.8	1.3	-0.57	-14.28	---	---	
2/18/2019 14:03	9.3	19.1	4.7	66.9	0.1	52.7	0.5	0.01	-12.45	---	---	No Change: :
2/18/2019 14:03	9.3	19.1	4.7	66.9	0.1	53.1	0.5	0.01	-12.41	---	---	
2/18/2019 14:03	9.3	18.9	4.8	67	0.1	53.1	0.5	0.02	-12.41	---	---	Opened Valve 1/2 turn or less: :
2/18/2019 14:03	9.3	18.9	4.8	67	0.8	54	1.9	-0.78	-12.32	---	---	
2/19/2019 11:13	8.7	18.4	4.8	68.1	0.2	105.3	0.9	-0.06	-11.86	---	---	No Change,Valve barely open: :
2/19/2019 11:13	8.7	18.4	4.8	68.1	0.2	105.3	0.9	-0.06	-11.86	---	---	
2/20/2019 14:28	11.6	21.1	2.9	64.4	0.2	68.7	0.9	0.02	-12.24	---	---	No Change: :
2/20/2019 14:28	11.6	21.1	2.9	64.4	0.2	67.6	0.9	0.05	-12.24	---	---	
2/20/2019 14:29	11.7	21	3.2	64.1	0.2	68	0.9	0.03	-11.9	---	---	Opened Valve 1/2 turn or less: :
2/20/2019 14:29	11.7	21	3.2	64.1	0.9	68.5	2	-0.74	-11.94	---	---	
2/22/2019 15:19	8.5	17.4	4.3	69.8	0.4	90.7	1.2	-0.12	-12.28	---	---	No Change,Valve barely open: :
2/22/2019 15:19	8.5	17.4	4.3	69.8	0.4	90.9	1.2	-0.12	-12.24	---	---	
3/6/2019 11:11	10.2	19.2	4.9	65.7	0	27.3	0.2	0.15	-29.58	---	---	No Change: : CO 400 ppm
3/6/2019 11:11	10.2	19.2	4.9	65.7	0	27.1	0.2	0.16	-29.24	---	---	
3/6/2019 11:12	10.3	18.5	4.8	66.4	0	27	0.2	0.15	-28.9	---	---	Opened Valve 1/2 turn or less: :
3/6/2019 11:12	10.3	18.5	4.8	66.4	0.2	27.5	1	-0.08	-29.32	---	---	
3/8/2019 15:28	14.9	22.2	2.4	60.5	0.4	99.9	1.3	-0.33	-22.38	---	---	No Change: : CO 300 ppm
3/8/2019 15:28	14.9	22.2	2.4	60.5	0.4	100.2	1.2	-0.31	-22.38	---	---	
3/8/2019 15:28	14.1	21.4	2.8	61.7	0.6	99.1	1.6	-0.32	-22.04	---	---	Opened Valve 1/2 turn or less: :
3/8/2019 15:28	14.1	21.4	2.8	61.7	2.7	100.2	3.2	-2.39	-21.36	---	---	



3/11/2019 13:35	7.7	15.9	6.4	70	0.3	80.6	1.2	-0.15	-19.67	---	---	No Change: : CO 400 ppm
3/11/2019 13:35	7.7	15.9	6.4	70	0.4	82.6	1.2	-0.15	-19.67	---	---	
3/11/2019 13:36	7.8	15.9	6.7	69.6	0.3	82.2	1.2	-0.11	-19.33	---	---	Closed Valve 1/2 to 1 turn: :
3/11/2019 13:36	7.8	15.9	6.7	69.6	0.2	82.6	1	-0.05	-19.97	---	---	
3/13/2019 10:18	12.1	20	2.8	65.1	0.1	68.2	0.8	-0.09	-21.07	---	---	No Change: : CO 300 ppm
3/13/2019 10:18	12.1	20	2.8	65.1	0.1	68	0.8	-0.11	-20.9	---	---	
3/13/2019 10:18	12.1	19.6	3.3	65	0.1	68	0.8	-0.08	-21.15	---	---	Opened Valve 1/2 turn or less: :
3/13/2019 10:18	12.1	19.6	3.3	65	0.1	68.5	0.8	-0.09	-21.07	---	---	
3/15/2019 12:36	11	19.7	4.2	65.1	1.1	57.7	2.2	-0.46	-19.67	---	---	No Change: : CO 250 ppm
3/15/2019 12:36	11	19.7	4.2	65.1	0.7	57.4	1.7	-0.54	-20.18	---	---	
3/15/2019 12:37	11.1	19.2	4.1	65.6	1.1	57.2	2.1	-1.12	-19.88	---	---	Opened Valve 1/2 turn or less: :
3/15/2019 12:37	11.1	19.2	4.1	65.6	1.2	57	2.2	-1.14	-19.88	---	---	
3/18/2019 13:40	12.2	19.6	3.4	64.8	0.1	60.3	0.8	-0.04	-21.41	---	---	No Change, Valve barely open: : CO 200 ppm
3/18/2019 13:40	12.2	19.6	3.4	64.8	0.1	60.1	0.8	-0.04	-21.28	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0290 / AHWW0290

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
5/13/2016 11:58	66.1	7.4	0.1	26.4	9.4	111	227	-14.9	-32.24	0	---	No Change ::
5/13/2016 11:58	66.1	7.4	0.1	26.4	9.4	111	227	-14.9	-32.24	0	---	
5/13/2016 12:02	68.9	7.6	0	23.5	6.8	111	196	-9.6	-43.04	0	---	Closed Valve > 1 Turn ::
5/13/2016 12:02	68.9	7.6	0	23.5	5	111	167	-9	-43.04	0	---	
5/19/2016 14:57	63.5	12.4	0.1	24	4.5	124	152	-7.8	-39.41	0	---	No Change ::
5/19/2016 14:57	63.5	12.4	0.1	24	5.3	125	165	-8.1	-39.41	0	---	
5/19/2016 15:00	64	12.5	0	23.5	5.3	124	164	-9.6	-38.02	0	---	Opened Valve 1/2 to 1 Turn ::
5/19/2016 15:00	64	12.5	0	23.5	5.8	124	172	-9.6	-38.02	0	---	
5/25/2016 16:50	53	10.9	0	36.1	6.7	126	182	-8.4	-31.97	0	---	No Change ::
5/25/2016 16:50	53	10.9	0	36.1	5.1	127	157	-8.3	-31.97	0	---	
5/25/2016 16:52	53.6	10.9	0	35.5	6.7	126	182	-9.1	-32.36	0	---	Opened Valve 1/2 Turn or Less ::
5/25/2016 16:52	53.6	10.9	0	35.5	5.1	127	158	-9.2	-32.36	0	---	
6/6/2016 17:23	55.2	11	0	33.8	8.4	131	204	-10.2	-44.72	0	---	No Change ::
6/6/2016 17:23	55.2	11	0	33.8	8.1	131	199	-10.7	-44.72	0	---	
6/6/2016 17:26	54.8	10.6	0	34.6	4	131	141	-6	-47.58	0	---	Closed Valve > 1 Turn ::
6/6/2016 17:26	54.8	10.6	0	34.6	4.1	132	142	-6.3	-47.58	0	---	
6/15/2016 16:53	52.9	8.2	0	38.9	3.8	130	136	-4.6	-36.25	0	---	No Change ::
6/15/2016 16:53	52.9	8.2	0	38.9	3.2	131	127	-4.3	-36.25	0	---	
6/15/2016 16:56	53.2	7.7	0	39.1	2.8	130	118	-3.3	-41.44	0	---	Closed Valve 1/2 to 1 Turn ::
6/15/2016 16:56	53.2	7.7	0	39.1	2.1	130	102	-3.5	-41.44	0	---	
6/23/2016 10:35	55.1	12.9	0	32	3	132	119	-3.7	-44.48	0	---	No Change ::
6/23/2016 10:35	55.1	12.9	0	32	2.8	132	115	-3.9	-44.48	0	---	
6/23/2016 10:37	58	13.1	0	28.9	2.3	133	106	-3	-43.75	0	---	Closed Valve 1/2 Turn or Less ::
6/23/2016 10:37	58	13.1	0	28.9	1.9	133	97	-3.2	-43.75	0	---	
6/29/2016 11:39	29.3	6.2	0.5	64	1.7	130	87	-3.5	-44.55	0	---	No Change ::
6/29/2016 11:39	29.3	6.2	0.5	64	1.9	130	91	-3.3	-44.55	0	---	
6/29/2016 11:41	30.4	6.1	0.2	63.3	-0.1	125	---	-0.6	-44.94	0	---	Closed Valve > 1 Turn ::
6/29/2016 11:41	30.4	6.1	0.2	63.3	-0.1	125	---	-0.6	-44.94	0	---	
7/7/2016 13:08	64.4	20.8	0	14.8	1	139	69	-0.7	-48.85	0	---	No Change ::
7/7/2016 13:08	64.4	20.8	0	14.8	1.2	139	73	-0.7	-48.85	0	---	
7/7/2016 13:11	63.4	20.3	0	16.3	0.6	139	50	-0.2	-48.48	0	---	Closed Valve 1/2 Turn or Less ::
7/7/2016 13:11	63.4	20.3	0	16.3	0.4	139	45	-0.2	-48.48	0	---	
7/20/2016 17:00	39.6	4.4	0	56	0.9	129	64	-1.8	-39.37	0	---	No Change ::
7/20/2016 17:00	39.6	4.4	0	56	1.1	129	71	-1.7	-39.37	0	---	
7/20/2016 17:03	43	3.6	0	53.4	0.3	128	37	-0.8	-39.32	0	---	Closed Valve 1/2 to 1 Turn ::
7/20/2016 17:03	43	3.6	0	53.4	0.3	128	36	-0.8	-39.32	0	---	
8/4/2016 12:55	32.6	3.2	0	64.2	0.2	127	30	-0.6	-31.56	0	---	No Change ::
8/4/2016 12:55	32.6	3.2	0	64.2	0.3	127	33	-0.6	-31.56	0	---	
8/4/2016 12:57	33.2	3.2	0	63.6	-0.3	124	---	-0.3	-31.96	0	---	Closed Valve 1/2 to 1 Turn ::
8/4/2016 12:57	33.2	3.2	0	63.6	-0.4	124	---	-0.3	-31.96	0	---	
8/16/2016 14:03	25.7	1.7	0.5	72.1	0.2	99.7	26.3	-1.24	-41.34	0	---	"No Change ::
8/16/2016 14:03	25.7	1.7	0.5	72.1	0.1	99.8	16.1	-1.26	-41.34	0	---	

9/14/2016 15:31	17.2	4.2	0.2	78.4	0.1	103	23	-0.2	-47.89	0	---	No Change : :
9/14/2016 15:31	17.2	4.2	0.2	78.4	0.1	103	23	-0.2	-47.89	0	---	
9/14/2016 15:33	17.7	4.1	0.1	78.1	0.1	102	23	-0.2	-47.98	0	---	Closed Valve 1/2 Turn or Less: :
9/14/2016 15:33	17.7	4.1	0.1	78.1	0.1	102	23	-0.2	-47.98	0	---	
10/15/2016 16:07	47.8	3	0	49.2	0	99	4	-0.1	-19.97	0	---	No Change : :
10/15/2016 16:07	47.8	3	0	49.2	0	99	7	-0.1	-19.97	0	---	
10/15/2016 16:09	48.2	2.8	0	49	0	98	5	-0.2	-20.06	0	---	Closed Valve 1/2 Turn or Less: :
10/15/2016 16:09	48.2	2.8	0	49	0	98	5	-0.1	-20.06	0	---	
11/4/2016 15:47	9.6	1.9	0	88.5	0	98	14	-1.1	-39.43	0	---	No Change: :
11/4/2016 15:47	9.6	1.9	0	88.5	0	98	14	-1.1	-39.43	0	---	
11/4/2016 15:49	9.8	1.9	0	88.3	0.1	95	14	-1.1	-39.62	0	---	Closed Valve 1/2 to 1 Turn: :
11/4/2016 15:49	9.8	1.9	0	88.3	0	94	12	-1.1	-39.62	0	---	
12/13/2016 10:32	28.6	1	0.9	69.5	0	30	10	-0.5	-48.99	0	---	No Change : :
12/13/2016 10:32	28.6	1	0.9	69.5	0	30	10	-0.4	-48.99	0	---	
12/13/2016 10:35	29.2	1	0	69.8	0	30	9	-0.4	-47.71	0	---	Closed Valve 1/2 Turn or Less: :
12/13/2016 10:35	29.2	1	0	69.8	0	30	6	-0.5	-47.71	0	---	
1/9/2017 13:06	15.2	1.3	0.1	83.4	0.3	95	35	-1.1	-38.32	0	---	No Change : :
1/9/2017 13:06	15.2	1.3	0.1	83.4	0.4	95	39	-1.1	-38.32	0	---	
1/9/2017 13:08	12.3	4.3	0	83.4	0.2	90	27	-0.6	-38.48	0	---	Closed Valve 1/2 to 1 Turn: :
1/9/2017 13:08	12.3	4.3	0	83.4	0.2	90	28	-0.6	-38.48	0	---	
2/2/2017 12:39	16.2	4	0.3	79.5	-1.7	114	---	-0.5	-46.09	---	---	No Change : :
2/2/2017 12:39	16.2	4	0.3	79.5	-1.7	114	---	-0.5	-46.09	---	---	
2/2/2017 12:39	16.2	4	0.3	79.5	-1.7	114	---	-0.5	-46.09	0	---	No Change : :
2/2/2017 12:39	16.2	4	0.3	79.5	-1.7	114	---	-0.5	-46.09	0	---	
2/2/2017 12:42	16.5	3.9	0	79.6	-1.7	104	---	-0.5	-45.44	0	---	Closed Valve 1/2 to 1 Turn: :
2/2/2017 12:42	16.5	3.9	0	79.6	-1.9	104	---	-0.4	-45.44	0	---	
2/2/2017 12:42	16.5	3.9	0	79.6	-1.7	104	---	-0.5	-45.44	---	---	Closed Valve 1/2 to 1 Turn: :
2/2/2017 12:42	16.5	3.9	0	79.6	-1.9	104	---	-0.4	-45.44	---	---	
3/7/2017 14:33	22	4.5	0.1	73.4	0.1	123	20	-0.6	-47.48	---	---	No Change .....
3/7/2017 14:33	22	4.5	0.1	73.4	0.1	123	19	-0.6	-47.48	---	---	
3/7/2017 14:36	23.5	4	0	72.5	-0.3	118	---	-0.4	-47.63	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
3/7/2017 14:36	23.5	4	0	72.5	-0.4	118	---	-0.4	-47.63	---	---	
4/7/2017 11:30	15.7	5.4	0.3	78.6	0	105	---	-1	-48.34	---	---	No Change .....
4/7/2017 11:30	15.7	5.4	0.3	78.6	0	105	---	-0.9	-48.34	---	---	
4/7/2017 11:32	15.5	5.4	0.2	78.9	-0.3	102	---	-0.9	-48.57	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/7/2017 11:32	15.5	5.4	0.2	78.9	-0.3	102	---	-0.9	-48.57	---	---	
5/9/2017 16:01	12.1	2.8	0	85.1	0.1	89	14.4	-0.63	-43	---	894	No Change ,Valve Barely Open.....
5/9/2017 16:01	12.1	2.8	0	85.1	0	88.6	13.2	-0.64	-43	---	894	
6/12/2017 12:20	13.5	1.4	0	85.1	0.1	89	17	-0.5	-46.41	---	---	No Change .....
6/12/2017 12:20	13.5	1.4	0	85.1	0.1	89	16	-0.5	-46.41	---	---	
6/12/2017 12:22	13.9	1.4	0	84.7	0.1	89	14	-0.5	-47.78	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
6/12/2017 12:22	13.9	1.4	0	84.7	0.1	89	16	-0.5	-47.78	---	---	
7/20/2017 12:57	21.7	1.5	0.3	76.5	-0.1	88	---	-0.2	-44.73	---	---	No Change ,Valve Barely Open.....
7/20/2017 12:57	21.7	1.5	0.3	76.5	-0.1	88	---	-0.2	-44.73	---	---	
8/15/2017 17:17	9.8	1.2	1.3	87.7	-0.1	89	---	-0.2	-49.2	---	---	No Change ,Valve Barely Open.....
8/15/2017 17:17	9.8	1.2	1.3	87.7	-0.1	89	---	-0.2	-49.2	---	---	
9/25/2017 15:09	54.2	2.4	0.1	43.3	0.1	119	16	-0.1	-53.08	---	---	No Change .....
9/25/2017 15:09	54.2	2.4	0.1	43.3	0.1	118	18	-0.1	-53.08	---	---	
9/25/2017 15:11	36.8	5	0	58.2	0.1	127	20	-0.4	-53.19	---	---	Opened Valve 1/2 Turn or Less.....
9/25/2017 15:11	36.8	5	0	58.2	0.2	127	29	-0.4	-53.19	---	---	
10/19/2017 17:15	33.2	6.5	0.2	60.1	0.2	136	25	-0.6	-35.03	---	---	No Change .....
10/19/2017 17:15	33.2	6.5	0.2	60.1	0.2	137	27	-0.6	-35.03	---	---	

10/19/2017 17:18	34.6	6.3	0	59.1	0.1	136	17	-0.5	-47.59	---	---	Closed Valve 1/2 Turn or Less.....
10/19/2017 17:18	34.6	6.3	0	59.1	0	137	6	-0.5	-47.59	---	---	
11/3/2017 13:14	15.9	7.8	0.2	76.1	0.1	136	16	-0.8	-48.62	---	---	No Change .....
11/3/2017 13:14	15.9	7.8	0.2	76.1	0	137	9	-0.8	-48.62	---	---	
11/3/2017 13:18	17.2	6.6	0.1	76.1	-0.2	134	---	-0.6	-48.35	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
11/3/2017 13:18	17.2	6.6	0.1	76.1	-0.3	135	---	-0.6	-48.35	---	---	
11/16/2017 16:22	20.3	5.1	0.8	73.8	0.5	120	47	-1	-46.16	---	---	No Change ,Valve Barely Open.....
11/16/2017 16:22	20.3	5.1	0.8	73.8	0.6	120	50	-1.1	-46.16	---	---	
12/22/2017 12:31	56.5	4.4	0.1	39	0.1	80	19	-0.4	-50.86	---	---	No Change .....
12/22/2017 12:31	56.5	4.4	0.1	39	0.1	80	19	-0.5	-50.86	---	---	
12/22/2017 12:33	58	13.4	0	28.6	0.2	94	27	-1	-50.36	---	---	Opened Valve 1/2 Turn or Less.....
12/22/2017 12:33	58	13.4	0	28.6	0.1	94	24	-1	-50.36	---	---	
1/11/2018 16:14	53	13.2	0.1	33.7	0.1	141	23	-0.4	-49.77	---	---	No Change .....
1/11/2018 16:14	53	13.2	0.1	33.7	0.2	141	31	-0.4	-49.77	---	---	
1/11/2018 16:16	52.8	12.3	0	34.9	0	140	---	-0.3	-50.56	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
1/11/2018 16:16	52.8	12.3	0	34.9	-0.1	140	---	-0.3	-50.56	---	---	
1/25/2018 13:49	24.9	5.4	0	69.7	-2.6	139	---	-0.6	-53.96	---	---	No Change .....
1/25/2018 13:49	24.9	5.4	0	69.7	-2.6	139	---	-47.8	-53.96	---	---	
1/25/2018 13:52	26.3	5.1	0	68.6	-3	138	---	-0.5	-53.62	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
1/25/2018 13:52	26.3	5.1	0	68.6	-3	138	---	-0.5	-53.62	---	---	
2/8/2018 15:33	24.1	5.7	0.8	69.4	-2.7	135	---	-0.4	-49.78	---	---	No Change .....
2/8/2018 15:33	24.1	5.7	0.8	69.4	-2.7	135	---	-0.3	-49.78	---	---	
2/8/2018 15:35	22.3	6.3	0	71.4	-2.3	137	---	-0.5	-50.06	---	---	Opened Valve 1/2 Turn or Less.....
2/8/2018 15:35	22.3	6.3	0	71.4	-2.3	137	---	-0.5	-50.06	---	---	
2/23/2018 13:38	20.4	7.1	0.6	71.9	0.4	139	38	-0.8	-46.2	---	---	No Change .....
2/23/2018 13:38	20.4	7.1	0.6	71.9	0.4	139	39	-0.7	-46.2	---	---	
2/23/2018 13:41	19.7	7.4	0	72.9	0.4	141	42	-1.1	-46.97	---	---	Opened Valve 1/2 Turn or Less.....
2/23/2018 13:41	19.7	7.4	0	72.9	0.5	141	45	-1	-46.97	---	---	
3/9/2018 13:02	44.2	18.4	0	37.4	0.3	143	34	-0.4	-50.02	---	---	No Change.....
3/9/2018 13:02	44.2	18.4	0	37.4	0.3	143	37	-0.5	-50.02	---	---	
3/9/2018 13:04	44.7	19.5	0	35.8	0.7	144	57	-0.9	-50.43	---	---	Opened Valve 1/2 Turn or Less.....
3/9/2018 13:04	44.7	19.5	0	35.8	0.7	144	57	-0.9	-50.43	---	---	
3/22/2018 16:04	48.1	26.6	0.3	25	0.2	145	30	-0.2	-15.1	---	---	No Change ,Valve Barely Open.....
3/22/2018 16:04	48.1	26.6	0.3	25	0.2	145	26	-0.2	-15.1	---	---	
4/6/2018 12:28	56.2	23.8	0.1	19.9	0.5	148	46	-0.9	-53.76	---	---	No Change .....
4/6/2018 12:28	56.2	23.8	0.1	19.9	0.6	148	50	-0.8	-53.76	---	---	
4/6/2018 12:30	56.2	24	0	19.8	0.7	149	55	-1.2	-53.19	---	---	Opened Valve 1/2 Turn or Less.....
4/6/2018 12:30	56.2	24	0	19.8	1	149	64	-1.3	-53.19	---	---	
4/20/2018 14:13	26.9	8	0.2	64.9	0.9	149	62	-1.9	-52.57	---	---	No Change.....
4/20/2018 14:13	26.9	8	0.2	64.9	1	149	65	-1.9	-52.57	---	---	
4/20/2018 14:15	30.4	7.6	0	62	0.2	146	28	-0.8	-53.29	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/20/2018 14:15	30.4	7.6	0	62	0.1	146	18	-0.6	-53.29	---	---	
5/4/2018 11:02	25.2	6	0	68.8	0.1	143	16.9	-0.48	-56.65	---	442	No Change,Valve Barely Open.....
5/4/2018 11:02	25.2	6	0	68.8	0.1	143	16.6	-0.45	-56.65	---	442	
5/18/2018 12:07	23.3	6.3	0	70.4	-0.1	142.8	---	-1.13	-47.39	---	255	No Change,Valve Barely Open.....
5/18/2018 12:07	23.3	6.3	0	70.4	-0.1	142.3	---	-1.11	-47.39	---	255	
6/2/2018 15:46	65.8	5.2	0	29	0	88.3	6.2	-0.16	-48.43	---	---	Opened Valve 1/2 to 1 turn: WFC:
6/2/2018 15:46	65.8	5.2	0	29	0.3	132.4	36.6	-0.67	-50.25	---	---	
6/2/2018 15:49	62.8	19.3	0	17.9	0.3	138.2	35.2	-0.65	-50.13	---	---	SECOND READ:
6/2/2018 15:49	62.8	19.3	0	17.9	0.3	138.6	35.2	-0.62	-50.17	---	---	
6/4/2018 12:38	43.8	11.4	0	44.8	0.3	146.3	37.7	-0.81	-51.06	---	---	Closed Valve 1/2 turn or less: :
6/4/2018 12:38	43.8	11.4	0	44.8	0.1	146.3	25	-0.71	-51.06	---	---	

6/4/2018 12:40	45.4	10.6	0	44	0.2	146.1	28.9	-0.63	-50.89	---	---	No Change: second read:
6/4/2018 12:40	45.4	10.6	0	44	0.2	146.1	28.3	-0.65	-50.64	---	---	
6/13/2018 14:00	37.3	8.1	0	54.6	0.2	147.9	31	-0.91	-51.22	---	---	Closed Valve 1/2 Turn or Less,.....
6/13/2018 14:00	37.3	8.1	0	54.6	0	147.6	7.4	-0.76	-51.22	---	---	
6/13/2018 14:01	38.8	7.5	0	53.7	-0.2	146.2	---	-0.55	-52.35	---	---	No Change,.....
6/13/2018 14:01	38.8	7.5	0	53.7	-0.2	146.1	---	-0.56	-52.35	---	---	
7/17/2018 14:11	54.5	19.6	0	25.9	0	118.8	6.5	0.24	-62.12	---	---	Opened Valve 1/2 Turn or Less,.....
7/17/2018 14:11	54.5	19.6	0	25.9	0	124.4	9.7	0.25	-62.12	---	---	
8/16/2018 10:58	81.7	12.1	0	6.2	-0.2	118	---	0.44	-19.1	---	---	No Change,.....
8/16/2018 10:58	81.7	12.1	0	6.2	-0.2	118	---	0.45	-19.1	---	---	
8/16/2018 11:03	80.6	12.2	0	7.2	-0.2	118.3	---	0.21	-23.28	---	---	Opened Valve > 1Turn,Surging In Header,.....
8/16/2018 11:03	80.6	12.2	0	7.2	0.4	149.2	46.2	-0.26	-23.28	---	---	
8/16/2018 13:56	72.7	24.9	0	2.4	0.4	152.3	43	-0.57	-27.76	---	---	No Change,.....
8/16/2018 13:56	72.7	24.9	0	2.4	0.4	152.3	43.3	-0.56	-27.76	---	---	
8/28/2018 14:10	27.5	12	0	60.5	0.5	150.8	45	-0.81	-35.09	---	---	No Change,.....
8/28/2018 14:10	27.5	12	0	60.5	0.5	150.9	44.9	-0.82	-35.09	---	---	
8/28/2018 14:11	27.9	12	0	60.1	0.5	150.8	44.8	-0.84	-34.72	---	---	Closed Valve 1/2 to 1 Turn,.....
8/28/2018 14:11	27.9	12	0	60.1	0.2	149.9	24.2	-0.33	-34.72	---	---	
9/12/2018 13:44	18.5	8.3	0	73.2	-0.1	146.9	---	-0.37	-40.63	---	---	No Change,.....
9/12/2018 13:44	18.5	8.3	0	73.2	-0.1	146.9	---	-0.36	-40.63	---	---	
9/12/2018 13:45	18.2	8.3	0	73.5	0	146.7	6.7	-0.7	-41.69	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,.....
9/12/2018 13:45	18.2	8.3	0	73.5	0	146.9	3.2	-0.64	-41.69	---	---	
9/12/2018 13:49	18.8	8.2	0	73	0.2	146.6	28.4	-0.64	-40.4	---	---	No Change,.....
9/12/2018 13:49	18.8	8.2	0	73	0.2	146.7	27.5	-0.63	-40.4	---	---	
10/9/2018 15:36	16.6	8	0	75.4	0.1	145	19	-0.55	-42.65	---	---	No Change,.....
10/9/2018 15:36	16.6	8	0	75.4	0.1	144.9	18.6	-0.53	-42.65	---	---	
10/9/2018 15:41	16.6	8.1	0	75.3	0.1	144.9	16.4	-0.5	-41.03	---	---	Closed Valve > 1 Turn,.....
10/9/2018 15:41	16.6	8.1	0	75.3	-0.2	130.5	16.4	-0.36	-41.03	---	---	
10/9/2018 15:42	16.5	7.9	0	75.6	-0.1	128.9	---	-0.44	-42.3	---	---	No Change,Surging In Header,.....
10/9/2018 15:42	16.5	7.9	0	75.6	-0.1	130.3	---	-0.42	-42.3	---	---	
10/26/2018 10:31	39.6	5.9	0	54.5	0	118.8	12.4	-0.64	-38.07	---	---	No Change,.....
10/26/2018 10:31	39.6	5.9	0	54.5	0	118.7	11.4	-0.59	-38.07	---	---	
10/26/2018 10:45	40.6	5.7	0	53.7	-0.4	117.2	---	-0.47	-41.9	---	---	Opened Valve > 1Turn,.....
10/26/2018 10:45	40.6	5.7	0	53.7	2.7	147	108.1	-4.65	-41.9	---	---	
10/27/2018 10:58	27.7	11.4	0	60.9	2.8	148.4	103.3	-5.54	-40.22	---	---	No Change,.....
10/27/2018 10:58	27.7	11.4	0	60.9	2.5	148.4	98	-5.5	-40.22	---	---	
10/27/2018 11:02	28	11.4	0	60.6	2.7	148.4	102.8	-5.44	-37.46	---	---	Closed Valve > 1 Turn,.....
10/27/2018 11:02	28	11.4	0	60.6	0.8	148.3	55.1	-2.55	-37.46	---	---	
10/30/2018 9:57	13.1	9.9	0	77	0.6	146.5	46.7	-2.08	-40.52	---	---	No Change,.....
10/30/2018 9:57	13.1	9.9	0	77	0.6	146.5	46.4	-2.07	-40.52	---	---	
10/30/2018 11:31	2.8	3	2.4	91.8	0.7	106.9	50.4	-1.57	-38.2	---	---	Opened Valve > 1Turn,.....
10/30/2018 11:31	2.8	3	2.4	91.8	3.8	110.3	122	-5	-38.2	---	---	
11/1/2018 13:33	9.1	9	0	81.9	2.7	142.8	20.7	-3.73	-39.8	---	---	No Change,.....
11/1/2018 13:33	9.1	9	0	81.9	2.8	143.1	21.1	-3.73	-39.8	---	---	
11/1/2018 13:38	9.2	9	0	81.8	2.6	143	20.2	-3.6	-40.28	---	---	Opened Valve > 1Turn,.....
11/1/2018 13:38	9.2	9	0	81.8	5.3	143.3	28.8	-6.44	-40.28	---	---	
11/1/2018 13:40	9.8	9.2	0	81	5.4	143.6	29.1	-6.59	-40.19	---	---	No Change,.....
11/1/2018 13:40	9.8	9.2	0	81	5.4	143.7	29.1	-6.59	-40.19	---	---	
11/7/2018 11:19	6.7	10.2	0	83.1	5.2	142.3	28.2	-6.47	-36.76	---	---	No Change,.....
11/7/2018 11:19	6.7	10.2	0	83.1	5.2	142.4	28.2	-6.43	-36.76	---	---	
11/7/2018 11:25	6.8	10.2	0	83	5	141.9	27.9	-6.12	-37.63	---	---	Opened Valve > 1Turn,.....
11/7/2018 11:25	6.8	10.2	0	83	9.5	142.6	38	-11.17	-37.63	---	---	

11/7/2018 11:28	7.3	10.4	0	82.3	10	143.3	39	-11.78	-37.25	---	---	No Change.....
11/7/2018 11:28	7.3	10.4	0	82.3	9.8	143.2	38.6	-11.3	-37.25	---	---	
11/16/2018 14:50	14.9	11	0	74.1	7.5	144.4	34.4	-9.35	-31.42	---	---	No Change.....
11/16/2018 14:50	14.9	11	0	74.1	7.5	144.5	34.4	-9.36	-31.42	---	---	
11/16/2018 14:51	14.8	11.1	0	74.1	7.5	144.3	34.3	-9.42	-31.81	---	---	Opened Valve > 1Turn.....
11/16/2018 14:51	14.8	11.1	0	74.1	7.5	144.4	34.3	-13.87	-31.81	---	---	
12/15/2018 8:57	4.4	10.1	0	85.5	---	142.6	---	-13.36	-30.89	---	---	No Change.....
12/15/2018 8:57	4.4	10.1	0	85.5	---	142.7	---	-13.39	-30.89	---	---	
1/14/2019 10:00	3.8	8.7	0	87.5	11.1	143.8	215.5	-13.25	-29.45	---	---	No Change: :
1/14/2019 10:00	3.8	8.7	0	87.5	10.8	143.8	213.2	-12.87	-27.75	---	---	
1/14/2019 10:01	3.8	8.7	0	87.5	11.3	144	217.7	-13.21	-29.32	---	---	Opened Valve > 1 turn: :
1/14/2019 10:01	3.8	8.7	0	87.5	17	144	263.2	-19.43	-28.64	---	---	
1/14/2019 10:04	3.6	8.8	0	87.6	17.3	144	265.2	-19.98	-29.49	---	---	No Change: :
1/14/2019 10:04	3.6	8.8	0	87.6	18.1	143.8	270.5	-20.66	-30.34	---	---	
1/14/2019 14:33	4.4	8.3	0	87.3	17.5	144.5	266.6	-19.69	-30.9	---	---	
1/14/2019 14:33	4.4	8.3	0	87.3	17.2	144.7	264.4	-19.35	-29.37	---	---	
1/15/2019 14:57	2.1	8	0	89.9	16.4	144.1	259.7	-19.56	-28.94	---	---	No Change: :
1/15/2019 14:57	2.1	8	0	89.9	16.3	144.1	258.4	-19.22	-27.84	---	---	
1/16/2019 8:18	7.3	8.2	0	84.5	16	144.3	255.8	-19.31	-29.28	---	---	No Change: :
1/16/2019 8:18	7.3	8.2	0	84.5	15.7	144.3	253.4	-19.26	-28.26	---	---	
1/16/2019 8:19	7.3	8.2	0	84.5	15.7	144.5	253.4	-19.35	-28.22	---	---	Opened Valve > 1 turn: :
1/16/2019 8:19	7.3	8.2	0	84.5	21	144.1	289.2	-24.89	-28.18	---	---	
1/16/2019 14:36	6.9	8.4	0	84.7	20.9	144.1	288	-25.06	-28.13	---	---	No Change: :
1/16/2019 14:36	6.9	8.4	0	84.7	21.4	144.3	290.6	-25.61	-28.52	---	---	
1/16/2019 14:55	9.8	9.8	0	80.4	20.7	144.5	53.5	-24.84	-27.34	---	---	No Change: :
1/16/2019 14:55	9.8	9.8	0	80.4	20.7	144.5	53.4	-24.76	-28.02	---	---	
1/17/2019 9:21	7.5	8.2	0	84.3	20.9	144.1	288.4	-24.39	-28.01	---	---	No Change: :
1/17/2019 9:21	7.5	8.2	0	84.3	20.6	144.3	286.3	-24.34	-27.41	---	---	
1/17/2019 9:21	7.4	8.2	0	84.4	20.5	144.3	285.7	-24.34	-27.62	---	---	Opened Valve > 1 turn: :
1/17/2019 9:21	7.4	8.2	0	84.4	23.8	144.1	305	-27.52	-26.05	---	---	
1/17/2019 14:37	9.9	9.6	0	80.5	24.7	144.1	57.7	-28.36	-26.79	---	---	No Change: :
1/17/2019 14:37	9.9	9.6	0	80.5	24.5	144.1	57.4	-28.36	-26.83	---	---	
1/17/2019 14:38	8.1	9.2	0	82.7	24.2	144.1	57.2	-27.98	-26.62	---	---	Opened Valve 1/2 to 1 turn: :
1/17/2019 14:38	8.1	9.2	0	82.7	24.3	144.1	57.2	-28.27	-25.31	---	---	
1/18/2019 7:50	7.7	8.1	0	84.2	25.6	144.3	315.4	-29.85	-27.41	---	---	No Change: :
1/18/2019 7:50	7.7	8.1	0	84.2	25.3	144.3	313.6	-29.81	-27.07	---	---	
1/18/2019 7:50	7.8	8.2	0	84	25.4	144.5	313.8	-29.85	-27.2	---	---	Opened Valve 1/2 to 1 turn,Valve compltley open: :
1/18/2019 7:50	7.8	8.2	0	84	25.9	144.5	316.9	-30.06	-26.52	---	---	
1/18/2019 16:10	7.1	8.2	0	84.7	26.5	144.5	320	-30.82	-26.99	---	---	No Change: :
1/18/2019 16:10	7.1	8.2	0	84.7	26.9	144.5	321.6	-31.41	-27.45	---	---	
1/22/2019 10:08	7.2	7.8	0	85	17.6	145.2	266.9	-20.15	-17.25	---	---	Valve compltley open: :
1/22/2019 10:08	7.2	7.8	0	85	17.7	145	267.1	-20.15	-17.72	---	---	
1/23/2019 16:22	8.6	7.7	0	83.7	17.6	145.2	278	-20.79	-17.72	---	---	No Change,Valve compltley open:
1/23/2019 16:22	8.6	7.7	0	83.7	17.5	145.2	277.3	-20.28	-17.72	---	---	
1/24/2019 10:53	8.8	7.9	0	83.3	22	145.2	296.7	-25.74	-22.48	---	---	No Change,Valve compltley open:
1/24/2019 10:53	8.8	7.9	0	83.3	22	---	296.7	-25.74	-22.48	---	---	
1/25/2019 9:10	8.2	8.2	0	83.6	25.1	145.4	312.4	-29.42	-25.16	---	---	No Change,Valve compltley open: : CO Tube Taken
1/25/2019 9:10	8.2	8.2	0	83.6	24.6	145.4	309.8	-28.79	-25.54	---	---	
1/28/2019 11:02	11.5	7.2	0.1	81.2	24.6	145.8	311.7	-27.82	-24.31	---	---	No Change,Valve compltley open:
1/28/2019 11:02	11.5	7.2	0.1	81.2	24.1	145.8	309.3	-27.22	-23.33	---	---	
1/29/2019 8:50	13.7	8	0	78.3	27.1	145.8	324.4	-31.16	-26.56	---	---	No Change,Valve compltley open:
1/29/2019 8:50	13.7	8	0	78.3	27.4	145.9	325.6	-31.5	-27.16	---	---	

1/30/2019 9:24	13.3	7.8	0.2	78.7	27.4	146.5	325	-31.75	-27.5	---	---	No Change,Valve compltley open:
1/30/2019 9:24	13.3	7.8	0.2	78.7	27.6	146.5	326	-31.71	-27.96	---	---	
2/1/2019 15:31	12.4	8.1	0	79.5	23.6	146.3	303.4	-26.55	-23.33	---	---	No Change: :
2/1/2019 15:31	12.4	8.1	0	79.5	23.6	146.3	303.5	-26.84	-23.8	---	---	
2/1/2019 15:32	12.4	8.1	0	79.5	23.8	146.3	304.3	-26.97	-23.71	---	---	Valve compltley open: :
2/1/2019 15:32	12.4	8.1	0	79.5	23.2	146.3	300.9	-26.63	-23.16	---	---	
2/2/2019 10:34	12.3	8.6	0	79.1	23.2	146.3	56.2	-26.42	-23.59	---	---	No Change,Valve compltley open:
2/2/2019 10:34	12.3	8.6	0	79.1	23.3	146.3	56.3	-26.55	-23.42	---	---	
2/4/2019 10:49	12.6	7.8	0	79.6	26.3	146.3	59.2	-30.14	-26.31	---	---	No Change,Valve compltley open:
2/4/2019 10:49	12.6	7.8	0	79.6	27	146.3	59.9	-30.78	-26.77	---	---	
2/5/2019 12:17	12.4	8.6	0	79	27.2	146.3	60.4	-30.82	-27.07	---	---	No Change,Valve compltley open:
2/5/2019 12:17	12.4	8.6	0	79	27.3	146.5	60.5	-30.86	-26.99	---	---	
2/6/2019 13:58	12.7	8.4	0	78.9	24.5	146.7	57.4	-27.77	-24.61	---	---	No Change,Valve compltley open:
2/6/2019 13:58	12.7	8.4	0	78.9	24.2	146.8	57.1	-27.77	-23.93	---	---	
2/7/2019 8:42	12.4	8.2	0	79.4	23.4	146.8	56.4	-26.33	-23.46	---	---	No Change,Valve compltley open:
2/7/2019 8:42	12.4	8.2	0	79.4	23.9	147	56.9	-26.93	-23.71	---	---	
2/8/2019 15:28	12.5	9	0	78.5	26.9	146.8	59.9	-30.52	-25.2	---	---	No Change,Valve compltley open:
2/8/2019 15:28	12.5	9	0	78.5	25.5	146.8	58.6	-29.17	-24.52	---	---	
2/11/2019 13:40	11.6	8.4	0	80	25.3	147	58.6	-28.45	-24.99	---	---	No Change,Valve compltley open:
2/11/2019 13:40	11.6	8.4	0	80	24.7	147	57.9	-28.07	-24.39	---	---	
2/14/2019 10:55	12.3	8.3	0	79.4	14	147.6	44.5	-16.05	-14.49	---	---	No Change,Valve compltley open:
2/14/2019 10:55	12.3	8.3	0	79.4	14.3	147.2	44.8	-16.55	-15	---	---	
2/19/2019 10:33	12.1	8.4	0	79.5	24.3	147.7	57.9	-27.56	-24.39	---	---	No Change,Valve compltley open:
2/19/2019 10:33	12.1	8.4	0	79.5	23.6	147.6	57.3	-27.01	-23.03	---	---	
2/20/2019 13:08	12.9	8.2	0	78.9	24.2	147.7	57.2	-26.67	-22.95	---	---	No Change,Valve compltley open:
2/20/2019 13:08	12.9	8.2	0	78.9	24.1	147.7	57.1	-26.84	-23.33	---	---	
3/4/2019 14:24	13.9	9.3	0	76.8	29.8	147.6	62.4	-34.09	-28.91	---	---	No Change,Valve compltley open:
3/4/2019 14:24	13.9	9.3	0	76.8	29.2	147.7	61.9	-33.66	-28.7	---	---	
3/6/2019 10:18	13.5	8.5	0	78	33.1	147.2	65.5	-39.29	-34.59	---	---	No Change,Valve compltley open:
3/6/2019 10:18	13.5	8.5	0	78	33.1	147.2	65.5	-39.67	-33.62	---	---	
3/6/2019 10:23	13.4	8.5	0.4	77.7	33.1	147.2	65.6	-38.65	-33.74	---	---	No Change,Valve compltley open: : CO 0 ppm
3/6/2019 10:23	13.4	8.5	0.4	77.7	33.1	147.4	65.5	-38.95	-34.3	---	---	
3/8/2019 14:42	13.2	8.8	0	78	33	147.6	68.6	-4.16	-32.94	---	---	No Change: :
3/8/2019 14:42	13.2	8.8	0	78	32.8	147.6	68.4	-4.1	-32.94	---	---	
3/8/2019 14:46	13.3	8.8	0	77.9	32.8	147.6	68.4	-4.16	-33.06	---	---	No Change,Valve compltley open: : CO 0 ppm
3/8/2019 14:46	13.3	8.8	0	77.9	32.9	147.6	68.5	-4.17	-33.28	---	---	
3/11/2019 12:48	13	8.7	0	78.3	33	147.2	65.3	-40.31	-34.97	---	---	No Change,Valve compltley open: : CO 0 ppm
3/11/2019 12:48	13	8.7	0	78.3	33	147.2	65.3	-40.22	-34.46	---	---	
3/13/2019 9:15	13.3	8.6	0	78.1	33.1	146.8	65	-41.5	-35.06	---	---	No Change,Valve compltley open: : CO 0 ppm
3/13/2019 9:15	13.3	8.6	0	78.1	33.1	146.8	65	-41.59	-35.4	---	---	
3/15/2019 9:56	13.3	8.6	0	78.1	33	147.4	64.8	-37.88	-32.39	---	---	No Change,Valve compltley open: : CO 0 ppm
3/15/2019 9:56	13.3	8.6	0	78.1	33.1	147.4	64.8	-38.09	-32.73	---	---	
3/18/2019 11:09	12.5	8.5	0	79	33.1	147.2	65.2	-42.99	-36.75	---	---	No Change,Valve compltley open: : CO 0 ppm
3/18/2019 11:09	12.5	8.5	0	79	33.1	147.4	65.2	-42.65	-36.54	---	---	

The following alternate standards have been approved for the following wells:

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0297 / AHWW0297

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/1/2016 14:45	56	43.7	0.2	0.1	0.1	127	17	0.1	-7.63	0	---	No Change : :
8/1/2016 14:45	56	43.7	0.2	0.1	0	128	13	0.1	-7.63	0	---	
8/1/2016 14:48	55.7	44.2	0	0.1	0.3	129	35	-0.1	-7.28	0	---	Opened Valve 1/2 to 1 Turn: :
8/1/2016 14:48	55.7	44.2	0	0.1	0.3	129	32	-0.1	-7.28	0	---	
8/8/2016 17:46	45.5	39.5	0.1	14.9	1	122	184	-0.3	-3.67	0	---	No Change : :
8/8/2016 17:46	45.5	39.5	0.1	14.9	1	122	184	-0.3	-3.67	0	---	
8/8/2016 17:49	44.8	39.4	0	15.8	0.8	122	160	-0.1	-4.26	0	---	Closed Valve 1/2 Turn or Less: :
8/8/2016 17:49	44.8	39.4	0	15.8	0.9	122	174	-0.1	-4.26	0	---	
9/14/2016 15:49	40.5	36.9	0.5	22.1	0.3	115	101	0	-2.84	0	---	No Change :Header Vacuum Loss: :
9/14/2016 15:49	40.5	36.9	0.5	22.1	0.2	115	81	-0.1	-2.84	0	---	
9/14/2016 15:52	41.1	37.6	0.1	21.2	0.3	115	103	-0.1	-2.86	0	---	Opened Valve 1/2 Turn or Less:Header Vacuum Loss: :
9/14/2016 15:52	41.1	37.6	0.1	21.2	0.5	116	123	-0.3	-2.86	0	---	
10/13/2016 12:57	48.8	39.1	0	12.1	-0.1	115	---	-0.3	-1.7	0	---	No Change :Header Vacuum Loss: :
10/13/2016 12:57	48.8	39.1	0	12.1	-0.2	115	---	-0.3	-1.7	0	---	
11/4/2016 16:16	36.9	34.2	0.2	28.7	0.2	114	92	-0.7	-4.41	0	---	No Change:Header Vacuum Loss: :
11/4/2016 16:16	36.9	34.2	0.2	28.7	0.3	114	95	-0.7	-4.41	0	---	
11/4/2016 16:19	42.2	35.5	0	22.3	0	115	22	-0.1	-4.32	0	---	Closed Valve 1/2 to 1 Turn: :
11/4/2016 16:19	42.2	35.5	0	22.3	0	116	22	-0.2	-4.32	0	---	
12/13/2016 10:18	46	39.3	0.1	14.6	-0.2	68	---	-0.5	-4.6	0	---	No Change : :
12/13/2016 10:18	46	39.3	0.1	14.6	-0.4	68	---	-0.5	-4.6	0	---	
12/13/2016 10:20	47.1	40.2	0	12.7	-0.9	67	---	-0.1	-4.48	0	---	Closed Valve 1/2 Turn or Less;Header Vacuum Loss: :
12/13/2016 10:20	47.1	40.2	0	12.7	-0.8	67	---	-0.2	-4.48	0	---	
1/9/2017 11:10	39.2	36.7	0.4	23.7	2.4	77	296	-3.3	-2.56	0	---	No Change :Surging In Header:Header Vacuum Loss: :
1/9/2017 11:10	39.2	36.7	0.4	23.7	2.5	77	299	-3.5	-2.56	0	---	
1/9/2017 11:13	40.2	37.3	0.1	22.4	-0.4	75	---	-0.2	-4.69	0	---	Closed Valve 1/2 Turn or Less: :
1/9/2017 11:13	40.2	37.3	0.1	22.4	-0.4	75	---	-0.2	-4.69	0	---	
2/2/2017 15:51	28.2	33.4	0.1	38.3	-0.5	84	---	-0.5	-12.07	---	---	No Change : :
2/2/2017 15:51	28.2	33.4	0.1	38.3	-0.6	84	---	-0.6	-12.07	---	---	
2/2/2017 15:51	28.2	33.4	0.1	38.3	-0.5	84	---	-0.5	-12.07	0	---	No Change : :
2/2/2017 15:51	28.2	33.4	0.1	38.3	-0.6	84	---	-0.6	-12.07	0	---	
2/2/2017 15:53	29.9	34.3	0	35.8	-0.9	82	---	-0.2	-12.47	0	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 15:53	29.9	34.3	0	35.8	-0.9	82	---	-0.2	-12.47	0	---	
2/2/2017 15:53	29.9	34.3	0	35.8	-0.9	82	---	-0.2	-12.47	---	---	
2/2/2017 15:53	29.9	34.3	0	35.8	-0.9	82	---	-0.2	-12.47	---	---	
3/7/2017 16:37	41.7	40.4	0.2	17.7	0.2	93	78	-0.4	-16	---	---	No Change .....
3/7/2017 16:37	41.7	40.4	0.2	17.7	0.1	93	68	-0.3	-16	---	---	
3/7/2017 16:39	41.8	40.8	0	17.4	-0.4	92	---	-0.1	-16.02	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open.....
3/7/2017 16:39	41.8	40.8	0	17.4	-0.2	92	---	0	-16.02	---	---	
3/8/2017 16:07	38.8	37.8	0.1	23.3	-0.1	91	---	-0.2	-10.25	---	---	No Change .Valve Barely Open.....
3/8/2017 16:07	38.8	37.8	0.1	23.3	0	91	---	-0.2	-10.25	---	---	
4/5/2017 15:27	39.8	36	0	24.2	0.4	87	114	-0.4	-7.74	---	---	No Change .Surging In Header.Header Vacuum Loss.....
4/5/2017 15:27	39.8	36	0	24.2	0.6	87	148	-0.5	-7.74	---	---	
4/5/2017 15:28	41.4	36.7	0	21.9	-0.1	82	---	-0.1	-7.02	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open.....
4/5/2017 15:28	41.4	36.7	0	21.9	0.1	82	44	0	-7.02	---	---	
4/7/2017 11:13	32.5	34.9	0.2	32.4	0.8	82	171	-1.2	-8.15	---	---	No Change .Valve Barely Open.....
4/7/2017 11:13	32.5	34.9	0.2	32.4	0.7	82	161	-1.4	-8.15	---	---	



5/9/2017 16:32	46.6	39.1	0	14.3	0.3	119.4	86.2	-0.32	-4.1	---	1558	No Change .Valve Barely Open.....
5/9/2017 16:32	46.6	39.1	0	14.3	0.3	119.4	87.6	-0.33	-4.1	---	1558	
6/12/2017 11:12	38.1	36.8	0.1	25	-0.3	118	---	-0.2	-5.87	---	---	No Change .Valve Barely Open.Surgin In Header,Header Vacuum L
6/12/2017 11:12	38.1	36.8	0.1	25	-0.1	118	---	-0.4	-5.87	---	---	
7/18/2017 13:51	40.1	36.3	0.2	23.4	0.9	119	175	-0.8	-5.34	---	---	No Change.Surgin In Header.Header Vacuum Loss.....
7/18/2017 13:51	40.1	36.3	0.2	23.4	1	118	183	-0.8	-5.34	---	---	
7/18/2017 13:55	44.9	38.8	0.1	16.2	0	119	---	-0.1	-5.22	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open,Surgin In Header,
7/18/2017 13:55	44.9	38.8	0.1	16.2	-0.1	119	---	-0.1	-5.22	---	---	
8/16/2017 11:25	25	29	0	46	-0.2	114	---	-0.2	-10.03	---	---	No Change .Valve Barely Open.Header Vacuum Loss,....
8/16/2017 11:25	25	29	0	46	-0.4	114	---	-0.2	-10.03	---	---	
9/25/2017 14:26	28.7	30.9	0.3	40.1	0.4	118	109	-0.4	-15.82	---	---	No Change .....
9/25/2017 14:26	28.7	30.9	0.3	40.1	0.3	119	92	-0.4	-15.82	---	---	
9/25/2017 14:29	30.3	32.4	0	37.3	-0.2	118	---	-0.1	-15.33	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open.....
9/25/2017 14:29	30.3	32.4	0	37.3	-0.2	119	---	-0.1	-15.33	---	---	
10/23/2017 9:00	41.1	37.1	0.2	21.6	0.2	118	78	-0.4	-18.64	---	---	No Change .....
10/23/2017 9:00	41.1	37.1	0.2	21.6	0.3	119	95	-0.4	-18.64	---	---	
10/23/2017 9:05	43	38.2	0.1	18.7	-0.1	118	---	-0.2	-19.41	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open.....
10/23/2017 9:05	43	38.2	0.1	18.7	0	118	---	-0.2	-19.41	---	---	
11/13/2017 16:32	24	31.2	0.5	44.3	0.1	111	44	-0.2	-11.41	---	---	No Change .Valve Barely Open.....
11/13/2017 16:32	24	31.2	0.5	44.3	-0.1	112	44	-0.2	-11.41	---	---	
12/15/2017 15:35	38.7	39.9	0	21.4	0.6	100	138	-1	-24.89	---	---	No Change .....
12/15/2017 15:35	38.7	39.9	0	21.4	0.8	100	163	-1.1	-24.89	---	---	
12/15/2017 15:37	40	40.4	0	19.6	0.1	95	61	-0.5	-24.76	---	---	Closed Valve 1/2 to 1 Turn.Valve Barely Open.....
12/15/2017 15:37	40	40.4	0	19.6	0.1	95	59	-0.5	-24.76	---	---	
1/11/2018 16:36	41.6	39.3	0.2	18.9	0.7	88	156	-0.7	-14.19	---	---	.....
1/11/2018 16:36	41.6	39.3	0.2	18.9	1	88	192	-1	-14.19	---	---	
1/11/2018 16:38	46.3	41.6	0	12.1	0.2	88	75	-0.4	-13.74	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open.....
1/11/2018 16:38	46.3	41.6	0	12.1	0.6	88	140	-0.6	-13.74	---	---	
2/8/2018 13:31	43.9	37.6	0	18.5	0.2	122.6	71.4	-0.05	-18.58	---	---	No Change .Valve Barely Open.....
2/8/2018 13:31	43.9	37.6	0	18.5	0.1	122.8	53.9	-0.04	-18.58	---	---	
3/7/2018 15:20	32.3	36.6	0	31.1	1	76	188	-1.2	-17.34	---	---	No Change.....
3/7/2018 15:20	32.3	36.6	0	31.1	1.1	76	199	-1.3	-17.34	---	---	
3/7/2018 15:22	32.3	36.5	0	31.2	-0.1	73	---	-0.1	-17.69	---	---	Closed Valve 1/2 to 1 Turn.Valve Barely Open.....
3/7/2018 15:22	32.3	36.5	0	31.2	-0.1	73	---	-0.1	-17.69	---	---	
4/10/2018 10:43	39.5	36.4	0.1	24	-0.7	85	---	0.1	-13.94	---	---	No Change .....
4/10/2018 10:43	39.5	36.4	0.1	24	-0.6	85	---	0.1	-13.94	---	---	
4/10/2018 10:46	37.8	35.8	0	26.4	-0.8	86	---	-0.3	-13.23	---	---	Opened Valve 1/2 Turn or Less.....
4/10/2018 10:46	37.8	35.8	0	26.4	-0.6	86	---	0	-13.23	---	---	
4/11/2018 16:23	33.2	36	0	30.8	0.1	87	68	-0.3	-12.56	---	---	No Change.Valve Barely Open.....
4/11/2018 16:23	33.2	36	0	30.8	0.3	87	99	-0.4	-12.56	---	---	
5/14/2018 14:31	38.2	35.2	0	26.6	0.5	129.8	107.4	-0.3	-12.8	---	692	No Change.Valve Barely Open.....
5/14/2018 14:31	38.2	35.2	0	26.6	0.5	129.8	106.9	-0.27	-12.8	---	692	
6/2/2018 10:35	49.5	39.9	0	10.6	0	126.5	0	-0.07	-14.84	---	---	No Change: PITOT NEEDS CLEAN:
6/2/2018 10:35	49.5	39.9	0	10.6	0	126.3	0	-0.11	-17.56	---	---	
6/13/2018 12:18	44.1	37.3	0	18.6	0	126.9	28.7	-0.22	-16.06	---	---	No Change.Valve Barely Open.....
6/13/2018 12:18	44.1	37.3	0	18.6	0	127	28.7	-0.2	-16.06	---	---	
7/14/2018 9:47	40.4	38	0.2	21.4	0.6	126.3	123.1	-0.63	-14.29	---	---	Closed Valve 1/2 Turn or Less.....
7/14/2018 9:47	40.4	38	0.2	21.4	0.4	126.3	92.8	-0.48	-14.29	---	---	
8/17/2018 13:04	48	40.7	0	11.3	0.3	126.2	79.5	-0.28	-10.27	---	---	No Change.....
8/17/2018 13:04	48	40.7	0	11.3	0.3	126.2	80.7	-0.3	-10.27	---	---	
8/17/2018 13:08	48.1	40.6	0	11.3	0.3	126.3	91.6	0	-9.57	---	---	Opened Valve 1/2 Turn or Less.Surgin In Header.....
8/17/2018 13:08	48.1	40.6	0	11.3	0.3	126.4	89.9	-0.02	-9.57	---	---	
8/28/2018 14:23	44.2	39.3	0	16.5	0.2	125.7	72.5	-0.41	-12.68	---	---	No Change.....
8/28/2018 14:23	44.2	39.3	0	16.5	0.2	125.8	71.8	-0.42	-12.68	---	---	
8/28/2018 14:29	44.1	39.2	0	16.7	0.1	126	43.1	-0.12	-12.89	---	---	Closed Valve 1/2 Turn or Less.....
8/28/2018 14:29	44.1	39.2	0	16.7	0.1	125.9	39.2	-0.1	-12.89	---	---	

9/12/2018 10:08	33.5	34.1	0	32.4	-0.4	124.8	---	0.29	-15.01	---	---	No Change.....
9/12/2018 10:08	33.5	34.1	0	32.4	-0.3	124.8	---	0.25	-15.01	---	---	
9/12/2018 10:10	33.5	34.1	0	32.4	-0.5	124.9	---	0.31	-13.52	---	---	Opened Valve 1/2 to 1 Turn.Surging In Header.....
9/12/2018 10:10	33.5	34.1	0	32.4	-0.4	125.6	---	-0.14	-13.52	---	---	
9/12/2018 10:12	33.3	34.3	0	32.4	-0.3	125.6	---	-0.07	-13.49	---	---	No Change.....
9/12/2018 10:12	33.3	34.3	0	32.4	-0.3	125.7	---	-0.08	-13.49	---	---	
10/9/2018 14:41	33.1	32.4	0.2	34.3	-0.9	132.5	---	-0.22	-15.24	---	---	No Change.....
10/9/2018 14:41	33.1	32.4	0.2	34.3	-0.9	132.5	---	-0.21	-15.24	---	---	
10/9/2018 14:42	33.1	32.4	0.2	34.3	-0.7	132.6	---	-0.47	-15.27	---	---	Closed Valve 1/2 Turn or Less.Surging In Header.....
10/9/2018 14:42	33.1	32.4	0.2	34.3	-0.8	132.5	---	-0.04	-15.27	---	---	
10/23/2018 8:34	24.5	28.8	1.3	45.4	0.2	136	67.8	-0.94	-17.94	---	---	No Change.....
10/23/2018 8:34	24.5	28.8	1.3	45.4	0.2	136	67.9	-0.94	-17.94	---	---	
10/23/2018 8:36	23.9	28.7	1.3	46.1	0.2	136.1	65.7	-0.94	-18.09	---	---	Closed Valve 1/2 to 1 Turn.....
10/23/2018 8:36	23.9	28.7	1.3	46.1	0	135.8	65.7	-0.65	-18.09	---	---	
10/23/2018 8:39	23.3	28.2	1.3	47.2	0.5	135.5	105.6	-0.92	-18.52	---	---	Closed Valve 1/2 Turn or Less.Surging In Header.....
10/23/2018 8:39	23.3	28.2	1.3	47.2	0.4	135.6	97	-0.83	-18.52	---	---	
11/16/2018 14:59	50.3	40	0	9.7	0.3	134.3	89	-0.56	-20.37	---	---	No Change.....
11/16/2018 14:59	50.3	40	0	9.7	0.3	134.4	89.6	-0.58	-20.37	---	---	
11/16/2018 15:01	49.8	40.1	0	10.1	0.1	134.3	50.5	-0.32	-11.82	---	---	Opened Valve > 1Turn.....
11/16/2018 15:01	49.8	40.1	0	10.1	1.4	135.9	185.1	-3.85	-11.82	---	---	
11/16/2018 15:04	50.1	40.1	0	9.8	1.6	136.5	200	-3.72	-12.14	---	---	No Change.....
11/16/2018 15:04	50.1	40.1	0	9.8	1.5	136.5	191.8	-3.74	-12.14	---	---	
12/13/2018 15:00	27.7	29.6	2.5	40.2	1.2	143	171.2	-3.76	-11.44	---	---	No Change.....
12/13/2018 15:00	27.7	29.6	2.5	40.2	1.4	143	179.7	-3.74	-11.44	---	---	
1/11/2019 10:33	25.8	26.5	3.4	44.3	9.1	145.4	439.5	-11.53	-3.6	---	---	No Change: :
1/11/2019 10:33	25.8	26.5	3.4	44.3	8.7	145.4	429	-11.45	-4.15	---	---	
1/11/2019 10:34	24.3	25.9	3.5	46.4	9	145.4	437	-11.45	-3.43	---	---	Closed Valve 1/2 to 1 turn: :
1/11/2019 10:34	24.3	25.9	3.5	46.4	10.2	145.6	463.9	-11.87	-3.05	---	---	
1/14/2019 10:30	24.8	26.3	3.3	45.6	1	145.4	147.3	-3.3	-12.88	---	---	No Change: :
1/14/2019 10:30	24.8	26.3	3.3	45.6	1.4	145.4	173.8	-3.07	-13.05	---	---	
1/14/2019 10:30	24.6	26.5	3.3	45.6	1.6	145.4	185	-3.64	-13.13	---	---	Opened Valve > 1 turn: :
1/14/2019 10:30	24.6	26.5	3.3	45.6	1.8	145.2	200.1	-4.25	-10.88	---	---	
1/14/2019 10:34	24.2	26.5	3.4	45.9	1.2	145.2	160.9	-3.9	-10.67	---	---	No Change: :
1/14/2019 10:34	24.2	26.5	3.4	45.9	1.5	145.2	183	-3.97	-10.41	---	---	
1/14/2019 14:46	25.7	26.6	3.1	44.6	---	145.2	---	---	---	---	---	No Change: :
1/14/2019 14:46	25.7	26.6	3.1	44.6	---	---	---	---	---	---	---	
1/15/2019 8:59	23.9	27.1	3.5	45.5	1.2	145.2	162.8	-3.9	-10.79	---	---	No Change: :
1/15/2019 8:59	23.9	27.1	3.5	45.5	1.5	145.2	181	-3.83	-10.79	---	---	
1/15/2019 9:00	24	27.1	3.6	45.3	1.6	145.2	188.4	-4.83	-8.07	---	---	Opened Valve > 1 turn.Valve completley open: :
1/15/2019 9:00	24	27.1	3.6	45.3	2.1	145	213.5	-4.9	-8.37	---	---	
1/15/2019 9:04	24	27.2	3.4	45.4	2.1	145	217.4	-4.8	-8.46	---	---	No Change: :
1/15/2019 9:04	24	27.2	3.4	45.4	2.3	145	223.2	-4.82	-8.12	---	---	
1/15/2019 15:05	22.5	27.5	3.4	46.6	1.9	145	207.2	-4.83	-8.03	---	---	
1/15/2019 15:05	22.5	27.5	3.4	46.6	1.7	145	193.9	-4.78	-7.9	---	---	
1/16/2019 8:43	23.7	26.3	4.1	45.9	1.9	145.2	205.4	-5.08	-8.58	---	---	No Change: :
1/16/2019 8:43	23.7	26.3	4.1	45.9	1.7	145.2	193.5	-4.61	-8.03	---	---	
1/16/2019 8:44	23.7	26.4	4.2	45.7	1.8	145.2	201.5	-5	-8.46	---	---	Valve completley open: :
1/16/2019 8:44	23.7	26.4	4.2	45.7	1.7	145.2	192.4	-5.08	-8.67	---	---	
1/16/2019 14:51	22.8	26.5	4.1	46.6	2	145.2	212	-4.66	-8.2	---	---	No Change: :
1/16/2019 14:51	22.8	26.5	4.1	46.6	1.9	145	204.7	-4.97	-8.2	---	---	
1/17/2019 9:36	23.8	26.9	3.4	45.9	1.5	145	182.4	-4.86	-7.86	---	---	No Change: :
1/17/2019 9:36	23.8	26.9	3.4	45.9	1.9	145	203.2	-4.79	-7.56	---	---	
1/17/2019 9:37	23.9	27.1	3.5	45.5	1.6	145	188.6	-4.64	-7.73	---	---	Valve completley open: :
1/17/2019 9:37	23.9	27.1	3.5	45.5	1.9	145	205.1	-4.56	-7.78	---	---	
1/17/2019 15:03	24.2	26.3	3.4	46	1.7	144.9	196	-5.55	-8.94	---	---	No Change: :
1/17/2019 15:03	24.2	26.3	3.4	46	2	144.9	208.5	-5.72	-8.99	---	---	

1/17/2019 15:05	24.7	26.7	3.4	45.2	2.1	144.9	214.6	-5.21	-9.28	---	---	No Change.Valve compltley open: :
1/17/2019 15:05	24.7	26.7	3.4	45.2	1.9	144.9	203.4	-4.79	-9.07	---	---	
1/18/2019 7:58	23.9	26.9	4	45.2	1.6	145	188.6	-5.12	-8.16	---	---	No Change.Valve compltley open: :
1/18/2019 7:58	23.9	26.9	4	45.2	1.8	145	197.3	-4.87	-8.2	---	---	
1/18/2019 16:29	22.9	25.6	4	47.5	1.8	145	197.2	-4.71	-8.29	---	---	No Change: :
1/18/2019 16:29	22.9	25.6	4	47.5	2.1	145	213	-5	-8.16	---	---	
1/22/2019 10:24	23.1	26.3	3.6	47	1.5	127	182.8	-3.43	-6.42	---	---	No Change.Valve compltley open: :
1/22/2019 10:24	23.1	26.3	3.6	47	1.2	127	168.1	-3.53	-5.99	---	---	
1/23/2019 16:38	26.7	27.5	3.2	42.6	0.9	144.3	140.9	-4.67	-6.59	---	---	No Change.Valve compltley open: :
1/23/2019 16:38	26.7	27.5	3.2	42.6	0.9	144.3	146	-4.18	-6.76	---	---	
1/24/2019 11:09	26.8	27.9	3.5	41.8	2	144.5	209.1	-4.71	-7.27	---	---	No Change.Valve compltley open: :
1/24/2019 11:09	26.8	27.9	3.5	41.8	1.6	144.7	191.9	-4.44	-7.69	---	---	
1/25/2019 9:41	24.7	27.3	4.1	43.9	2.1	144.9	217.8	-5.42	-8.29	---	---	No Change.Valve compltley open: : CO Tube Taken
1/25/2019 9:41	24.7	27.3	4.1	43.9	2.2	144.9	218.1	-5.42	-8.37	---	---	
1/28/2019 14:11	27.4	29.1	3	40.5	1.6	144.3	188.3	-3.98	-6.37	---	---	No Change.Valve compltley open: :
1/28/2019 14:11	27.4	29.1	3	40.5	1.4	144.3	179.3	-4.19	-6.76	---	---	
1/29/2019 9:16	24.5	26.7	4.5	44.3	1.3	144.5	173.2	-5.08	-8.11	---	---	No Change.Valve compltley open: :
1/29/2019 9:16	24.5	26.7	4.5	44.3	1.7	144.5	196.4	-5.17	-8.2	---	---	
1/30/2019 9:07	23.9	25.1	4.6	46.5	2.5	144.7	236	-5.43	-8.52	---	---	No Change.Valve compltley open: :
1/30/2019 9:07	23.9	25.1	4.6	46.5	1.9	144.7	205.1	-5.43	-8.44	---	---	
1/31/2019 13:24	23.5	25.1	4.1	47.3	1.9	144.3	204.3	-4.74	-8.31	---	---	No Change.Valve compltley open: :
1/31/2019 13:24	23.5	25.1	4.1	47.3	2.2	144.5	221.8	-4.75	-8.39	---	---	
2/1/2019 14:30	24.2	25.5	3.8	46.4	2.1	144.5	213.6	-4.96	-7.55	---	---	No Change.Valve compltley open: :
2/1/2019 14:30	24.2	25.5	3.8	46.4	1.6	144.5	188.6	-4.96	-8.14	---	---	
2/2/2019 10:06	24.8	27.5	3.6	44.1	1.8	144.3	198.4	-4.93	-8.41	---	---	No Change.Valve compltley open: :
2/2/2019 10:06	24.8	27.5	3.6	44.1	1.7	144.5	193.8	-4.6	-8.41	---	---	
2/4/2019 14:09	26.1	27.1	3.3	43.5	2.1	144.1	215.9	-4.88	-7.35	---	---	No Change.Valve compltley open: :
2/4/2019 14:09	26.1	27.1	3.3	43.5	2	144.1	208.9	-4.87	-7.65	---	---	
2/5/2019 12:39	23.6	26.3	4.5	45.6	2.4	144.3	229.9	-5.17	-8.46	---	---	No Change.Valve compltley open: :
2/5/2019 12:39	23.6	26.3	4.5	45.6	1.9	144.3	205.7	-5.17	-8.07	---	---	
2/6/2019 14:27	24.6	26.5	3.8	45.1	1.5	144.3	183	-4.79	-7.39	---	---	No Change.Valve compltley open: :
2/6/2019 14:27	24.6	26.5	3.8	45.1	1.5	144.1	181.8	-4.74	-7.65	---	---	
2/7/2019 14:22	26.4	27.6	2.9	43.1	1.8	143.6	200.5	-4.77	-7.99	---	---	No Change: :
2/7/2019 14:22	26.4	27.6	2.9	43.1	2.6	143.8	243	-4.75	-7.35	---	---	
2/7/2019 14:24	26.6	27.8	2.9	42.7	1.6	143.8	188	-4.47	-7.48	---	---	Closed Valve > 1 turn: :
2/7/2019 14:24	26.6	27.8	2.9	42.7	1	144	148.3	-2.47	-12.24	---	---	
2/11/2019 14:17	25.5	27.1	3.6	43.8	1.1	144.5	155.2	-3.32	-13.6	---	---	No Change: :
2/11/2019 14:17	25.5	27.1	3.6	43.8	0.8	144.5	130.3	-3.31	-13.47	---	---	
2/11/2019 14:18	25.6	27.1	3.6	43.7	1.3	144.5	169.9	-3.53	-13.6	---	---	Closed Valve 1/2 to 1 turn: :
2/11/2019 14:18	25.6	27.1	3.6	43.7	0.8	144.7	129.8	-2.67	-15.72	---	---	
2/14/2019 11:30	28.1	29	2.8	40.1	0.5	144.3	106.2	-1.73	-9.43	---	---	No Change: :
2/14/2019 11:30	28.1	29	2.8	40.1	0.5	144.3	108.2	-1.78	-10.2	---	---	
2/14/2019 11:31	28.2	29.1	2.9	39.8	1.5	144.3	181.4	-2.6	-9.26	---	---	Closed Valve 1/2 to 1 turn: :
2/14/2019 11:31	28.2	29.1	2.9	39.8	0.3	144.3	86.7	-0.85	-12.2	---	---	
2/18/2019 9:03	27.4	27.3	2.7	42.6	0.2	144.9	68.8	-1.27	-18.36	---	---	No Change: :
2/18/2019 9:03	27.4	27.3	2.7	42.6	0.3	144.9	78.5	-1.21	-19.42	---	---	
2/18/2019 9:04	27.5	27.5	2.8	42.2	0.3	144.9	84.4	-1.14	-17.76	---	---	Closed Valve 1/2 turn or less: :
2/18/2019 9:04	27.5	27.5	2.8	42.2	0.3	144.9	76.7	-0.98	-19.08	---	---	
2/19/2019 11:00	28.7	29.3	2.3	39.7	0.1	145	43.3	-0.81	-17.3	---	---	No Change: :
2/19/2019 11:00	28.7	29.3	2.3	39.7	0.2	144.9	61.1	-0.81	-17.47	---	---	
2/19/2019 11:02	28.7	29.4	2.3	39.6	0.1	145	45.6	-0.88	-17.98	---	---	Closed Valve 1/2 turn or less: :
2/19/2019 11:02	28.7	29.4	2.3	39.6	0.1	144.9	45.7	-0.72	-19.76	---	---	
2/20/2019 13:58	38.6	33.8	0.3	27.3	0.2	142.9	74.3	-0.97	-18.87	---	---	No Change: :
2/20/2019 13:58	38.6	33.8	0.3	27.3	0.1	142.9	53.2	-0.99	-17.81	---	---	
2/20/2019 14:02	38.2	33.9	0.3	27.6	0.1	142.9	51.3	-0.48	-18.95	---	---	Closed Valve 1/2 turn or less: :
2/20/2019 14:02	38.2	33.9	0.3	27.6	0.2	142.9	59.4	-0.44	-18.49	---	---	

3/4/2019 15:14	30.9	31.7	1.7	35.7	0.1	144.5	50.8	-0.63	-22.59	---	---	No Change: : CO 0ppm
3/4/2019 15:14	30.9	31.7	1.7	35.7	0.1	144.5	38.9	-0.53	-21.11	---	---	
3/4/2019 15:15	30.8	31.3	2.1	35.8	0.1	144.1	57	-0.41	-23.19	---	---	Closed Valve 1/2 turn or less: :
3/4/2019 15:15	30.8	31.3	2.1	35.8	0.2	144.3	67	-0.35	-21.66	---	---	
3/6/2019 10:59	28	30.5	1.6	39.9	0.1	145	57.7	-0.34	-20.91	---	---	No Change: : CO 10 ppm
3/6/2019 10:59	28	30.5	1.6	39.9	0.1	145	48.4	-0.36	-20.36	---	---	
3/6/2019 11:00	28	29.8	2.3	39.9	0	145	0	-0.31	-23.33	---	---	Closed Valve 1/2 turn or less.Valve barely open: :
3/6/2019 11:00	28	29.8	2.3	39.9	0	144.9	0	-0.22	-20.19	---	---	
3/8/2019 15:17	30.9	31.6	0.7	36.8	0.2	144.7	60.5	-0.3	-21.24	---	---	No Change: : CO 0 ppm
3/8/2019 15:17	30.9	31.6	0.7	36.8	0.2	144.9	63.6	-0.3	-20.18	---	---	
3/8/2019 15:17	30.9	30.3	1.4	37.4	0	144.9	0	-0.32	-18.99	---	---	Closed Valve 1/2 turn or less: :
3/8/2019 15:17	30.9	30.3	1.4	37.4	0	144.9	0	-0.26	-21.62	---	---	
3/11/2019 13:24	26.6	29.7	1.3	42.4	0	144.5	0	-0.18	-21.11	---	---	No Change.Valve barely open: : CO 5 ppm
3/11/2019 13:24	26.6	29.7	1.3	42.4	0	144.5	27.4	-0.12	-23.06	---	---	
3/13/2019 10:05	29.3	31.2	0.6	38.9	0	144.7	0	-0.33	-22.09	---	---	No Change: : CO 0 ppm
3/13/2019 10:05	29.3	31.2	0.6	38.9	0	144.9	0	-0.27	-20.81	---	---	
3/13/2019 10:05	29.1	30.3	1.6	39	0	144.9	0	-0.33	-20.98	---	---	Closed Valve 1/2 turn or less.Valve barely open: :
3/13/2019 10:05	29.1	30.3	1.6	39	0	144.7	0	-0.28	-23.91	---	---	
3/15/2019 12:23	28.9	30.8	0.7	39.6	0	145.2	0	-0.23	-22.68	---	---	No Change.Valve barely open: : CO 0 ppm
3/15/2019 12:23	28.9	30.8	0.7	39.6	0	145	0	-0.19	-20.98	---	---	
3/18/2019 13:29	26.3	29.2	1	43.5	0	145.8	0	-0.26	-21.11	---	---	No Change.Valve barely open: : CO 0 ppm
3/18/2019 13:29	26.3	29.2	1	43.5	0	145.8	0	-0.28	-21.75	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0299 / AHWW0299

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/19/2016 10:17	64.9	35	0	0.1	0	94	5	0.3	-31.5	0	---	"No Change : :
8/19/2016 10:17	64.9	35	0	0.1	0	95	5	0.3	-31.5	0	---	
8/19/2016 10:20	64.5	35.4	0	0.1	0.2	119	25	-0.1	-30.49	0	---	"Opened Valve 1/2 Turn or Less: :
8/19/2016 10:20	64.5	35.4	0	0.1	0.2	122	32	-0.1	-30.49	0	---	
9/14/2016 15:37	64.9	34.7	0.2	0.2	0.1	129	23	0.4	-30.43	0	---	No Change : :
9/14/2016 15:37	64.9	34.7	0.2	0.2	0.3	129	34	0.4	-30.43	0	---	
9/14/2016 15:39	64.1	35.7	0.1	0.1	1.2	130	73	-1.1	-28.47	0	---	Opened Valve 1/2 to 1 Turn: :
9/14/2016 15:39	64.1	35.7	0.1	0.1	1.3	130	74	-1.1	-28.47	0	---	
9/14/2016 15:41	64.3	35.5	0.1	0.1	0.6	130	49	-0.4	-29.07	0	---	Closed Valve 1/2 Turn or Less: :
9/14/2016 15:41	64.3	35.5	0.1	0.1	0.2	130	31	-0.2	-29.07	0	---	
10/15/2016 16:13	64.2	35.7	0	0.1	0	129	12	0	-8.38	0	---	No Change ;Header Vacuum Loss: :
10/15/2016 16:13	64.2	35.7	0	0.1	0	130	13	0	-8.38	0	---	
10/15/2016 16:18	63.7	36.2	0	0.1	1.1	130	68	-1.2	-8.99	0	---	Opened Valve > 1Turn: :
10/15/2016 16:18	63.7	36.2	0	0.1	0.8	131	59	-1.2	-8.99	0	---	
10/15/2016 16:21	63.8	36.1	0	0.1	0.2	130	28	-0.3	-9.38	0	---	Closed Valve > 1 Turn: :
10/15/2016 16:21	63.8	36.1	0	0.1	0.3	128	36	-0.3	-9.38	0	---	
10/19/2016 12:11	64.8	35.1	0	0.1	0.6	107	54	-1.3	-18.19	0	---	No Change : :
10/19/2016 12:11	64.8	35.1	0	0.1	0.8	107	59	-1.3	-18.19	0	---	
10/19/2016 12:14	64.8	35.1	0	0.1	1.5	107	82	-2.4	-15.62	0	---	Opened Valve > 1Turn: :
10/19/2016 12:14	64.8	35.1	0	0.1	1.4	107	80	-2.4	-15.62	0	---	
11/4/2016 15:53	66.8	33.1	0	0.1	1.5	130	85	-3.3	-21.41	0	---	No Change: :
11/4/2016 15:53	66.8	33.1	0	0.1	1.5	129	85	-3.2	-21.41	0	---	
11/4/2016 15:55	66.4	33.5	0	0.1	1.2	130	73	-2.7	-22.76	0	---	Closed Valve 1/2 Turn or Less: :
11/4/2016 15:55	66.4	33.5	0	0.1	1.2	130	74	-2.7	-22.76	0	---	
12/13/2016 10:28	61.5	32.8	0.4	5.3	2.1	118	97	-3	-28.97	0	---	No Change : :
12/13/2016 10:28	61.5	32.8	0.4	5.3	1	118	68	-3.1	-28.97	0	---	
12/13/2016 10:29	60.9	32.8	0	6.3	2.9	122	114	-5.4	-28.64	0	---	Opened Valve > 1Turn: :
12/13/2016 10:29	60.9	32.8	0	6.3	3.1	122	117	-5.1	-28.64	0	---	
1/9/2017 13:00	53.4	30	0.2	16.4	3.2	121	118	-5.9	-29.76	0	---	No Change : :
1/9/2017 13:00	53.4	30	0.2	16.4	3.1	121	116	-5.6	-29.76	0	---	
1/9/2017 13:02	53.5	30.2	0	16.3	3.1	122	117	-6.5	-27.37	0	---	Opened Valve 1/2 Turn or Less: :
1/9/2017 13:02	53.5	30.2	0	16.3	3.2	122	117	-6.4	-27.37	0	---	
2/2/2017 12:28	50.7	31.2	0.5	17.6	4.5	120	140	-8	-30.4	---	---	No Change : :
2/2/2017 12:28	50.7	31.2	0.5	17.6	3.7	120	127	-7.8	-30.4	---	---	
2/2/2017 12:28	50.7	31.2	0.5	17.6	4.5	120	140	-8	-30.4	0	---	No Change : :
2/2/2017 12:28	50.7	31.2	0.5	17.6	3.7	120	127	-7.8	-30.4	0	---	
3/7/2017 14:27	57	32.3	0.1	10.6	4.6	124	142	-8.2	-32.07	---	---	No Change .....
3/7/2017 14:27	57	32.3	0.1	10.6	3.5	124	123	-7.7	-32.07	---	---	
3/7/2017 14:29	57.3	32.6	0	10.1	4.6	125	142	-9.1	-29.4	---	---	Opened Valve 1/2 to 1 Turn.....
3/7/2017 14:29	57.3	32.6	0	10.1	5.4	125	154	-8.8	-29.4	---	---	
4/5/2017 16:05	55.1	30.1	0	14.8	4	126	131	-8.7	-27.38	---	---	No Change .....
4/5/2017 16:05	55.1	30.1	0	14.8	5.1	126	149	-8.7	-27.38	---	---	

4/5/2017 16:07	55.1	30	0	14.9	4.9	126	146	-10.2	-25.39	---	---	Opened Valve > 1Turn,.....
4/5/2017 16:07	55.1	30	0	14.9	5.4	126	153	-10.3	-25.39	---	---	
5/9/2017 16:11	48.2	27.6	0	24.2	4.6	129.7	134.7	-9.68	-22.57	---	1282	No Change ,.....
5/9/2017 16:11	48.2	27.6	0	24.2	4.8	129.7	137.6	-9.67	-22.57	---	1282	
6/12/2017 12:09	47.7	28.2	0	24.1	5.8	129	157	-10.1	-25.53	---	---	No Change ,.....
6/12/2017 12:09	47.7	28.2	0	24.1	5.3	130	150	-11.4	-25.53	---	---	
6/12/2017 12:11	47.8	28.2	0	24	4.3	129	135	-11	-25.95	---	---	Closed Valve 1/2 Turn or Less,.....
6/12/2017 12:11	47.8	28.2	0	24	5.7	130	155	-10.4	-25.95	---	---	
7/18/2017 14:28	45.7	25.8	0.3	28.2	4.5	129	142	-9.5	-26.88	---	---	No Change,.....
7/18/2017 14:28	45.7	25.8	0.3	28.2	4.5	129	142	-9.5	-26.88	---	---	
7/18/2017 14:30	45.5	25.4	0.2	28.9	4.3	129	139	-9.1	-26.33	---	---	Closed Valve 1/2 Turn or Less,.....
7/18/2017 14:30	45.5	25.4	0.2	28.9	4.5	129	141	-9.3	-26.33	---	---	
8/15/2017 17:14	48.1	28.9	0.2	22.8	1	130	64	-2.6	-45.94	---	---	No Change ,.....
8/15/2017 17:14	48.1	28.9	0.2	22.8	1.2	130	71	-2.7	-45.94	---	---	
9/25/2017 14:50	56.1	31.2	0	12.7	1.5	129	80	-3.4	-49.7	---	---	No Change ,.....
9/25/2017 14:50	56.1	31.2	0	12.7	1.7	129	85	-3.2	-49.7	---	---	
9/25/2017 14:56	55.8	30.8	0	13.4	2.6	129	107	-4.6	-48	---	---	Opened Valve 1/2 Turn or Less,.....
9/25/2017 14:56	55.8	30.8	0	13.4	2.9	129	112	-4.5	-48	---	---	
10/19/2017 17:22	57.5	31	0.2	11.3	2.7	129	108	-4.8	-36.71	---	---	No Change ,.....
10/19/2017 17:22	57.5	31	0.2	11.3	2.1	130	95	-4.7	-36.71	---	---	
10/19/2017 17:25	56.8	31.1	0.1	12	3.2	130	118	-7.1	-36.95	---	---	Opened Valve 1/2 Turn or Less,.....
10/19/2017 17:25	56.8	31.1	0.1	12	3.8	130	129	-7	-36.95	---	---	
11/16/2017 16:26	43.1	28.8	0.2	27.9	3.1	126	112	-7.2	-46.62	---	---	No Change ,.....
11/16/2017 16:26	43.1	28.8	0.2	27.9	3.7	126	125	-7.6	-46.62	---	---	
11/16/2017 16:28	39.6	26.7	0	33.7	0.4	121	42	-1.9	-46.36	---	---	Closed Valve > 1 Turn,.....
11/16/2017 16:28	39.6	26.7	0	33.7	0.3	121	37	-1.8	-46.36	---	---	
12/22/2017 12:13	61.5	38.2	0.1	0.2	0.7	113	56	-1	-52.69	---	---	No Change ,.....
12/22/2017 12:13	61.5	38.2	0.1	0.2	0.9	113	62	-1.1	-52.69	---	---	
12/22/2017 12:17	61.1	38.8	0	1	1.4	125	78	-2.5	-53.62	---	---	Opened Valve 1/2 to 1 Turn,.....
12/22/2017 12:17	61.1	38.8	0	1	1.2	125	71	-2.4	-53.62	---	---	
1/11/2018 16:10	61.8	37.9	0.1	0.2	0.4	93	43	-0.9	-52.96	---	---	No Change ,.....
1/11/2018 16:10	61.8	37.9	0.1	0.2	0.5	93	49	-1	-52.96	---	---	
1/11/2018 16:11	61.4	38.5	0	1	1.9	114	91	-3.8	-47.78	---	---	Opened Valve 1/2 to 1 Turn,.....
1/11/2018 16:11	61.4	38.5	0	1	2	114	93	-3.4	-47.78	---	---	
2/9/2018 10:45	55.5	32.4	0	12.1	1.5	113	81	-4.2	-40.56	---	---	No Change ,.....
2/9/2018 10:45	55.5	32.4	0	12.1	2.6	113	107	-4.5	-40.56	---	---	
2/9/2018 10:47	55.3	32.3	0	12.4	3.5	118	124	-6.2	-38.33	---	---	Opened Valve 1/2 to 1 Turn,.....
2/9/2018 10:47	55.3	32.3	0	12.4	3.7	118	127	-6.3	-38.33	---	---	
3/7/2018 15:40	44.1	30.1	0	25.8	3.5	119	123	-8.1	-52.99	---	---	No Change,.....
3/7/2018 15:40	44.1	30.1	0	25.8	3.5	119	123	-8.1	-52.99	---	---	
3/7/2018 15:43	32.7	24.4	0	42.9	2.9	98	114	-1.5	-54.67	---	---	Closed Valve > 1 Turn,.....
3/7/2018 15:43	32.7	24.4	0	42.9	0.2	98	26	-1.5	-54.67	---	---	
4/10/2018 13:06	62.2	35.2	0.2	2.4	0.5	101	46	0.4	-44.17	---	---	No Change ,.....
4/10/2018 13:06	62.2	35.2	0.2	2.4	0.5	101	46	0.6	-44.17	---	---	
4/10/2018 13:08	61.7	35.5	0	2.8	0.7	98	57	-1	-46.6	---	---	Opened Valve > 1Turn,.....
4/10/2018 13:08	61.7	35.5	0	2.8	1.3	98	77	-1.2	-46.6	---	---	
5/14/2018 14:47	61.5	36.9	0	1.6	1.2	137.8	68.1	-1.13	-45.6	---	774	No Change,.....
5/14/2018 14:47	61.5	36.9	0	1.6	1.4	137.8	75.4	-1.16	-45.6	---	774	
5/14/2018 14:50	59.8	33.5	0	6.7	2.3	137.4	95.2	-3.08	-42.27	---	664	Opened Valve 1/2 to 1 Turn,.....
5/14/2018 14:50	59.8	33.5	0	6.7	2.8	137.4	105.2	-3.11	-42.27	---	664	
5/25/2018 14:23	48.2	27.6	0	24.2	2.4	137.4	97.6	-4.66	-45.87	---	747	No Change,.....
5/25/2018 14:23	48.2	27.6	0	24.2	1.8	137.4	84.1	-4.69	-45.87	---	747	

5/25/2018 14:25	46.8	28	0	25.2	2	137.4	88.3	-4	-47.73	---	809	Closed Valve 1/2 Turn or Less.....
5/25/2018 14:25	46.8	28	0	25.2	1.9	137.4	84.6	-4.45	-47.73	---	809	
6/2/2018 12:35	38.9	22.9	9.3	28.9	1.6	64.6	204.6	0.05	-53.27	---	---	Opened Valve 1/2 to 1 turn: WFC STATIC PORT:
6/2/2018 12:35	38.9	22.9	9.3	28.9	1.3	130.3	182.6	0.04	-50.34	---	---	
6/2/2018 12:40	20.6	12.4	15.3	51.7	1.1	134.4	158.8	0.02	-51.53	---	---	Opened Valve 1/2 to 1 turn: 2 READ:
6/2/2018 12:40	20.6	12.4	15.3	51.7	0.3	136.9	76.6	-0.07	-51.95	---	---	
6/2/2018 15:35	63.6	34.3	0	2.1	0.7	137.8	124.2	-1.17	-49.19	---	---	Closed Valve 1/2 turn or less: :
6/2/2018 15:35	63.6	34.3	0	2.1	0.2	137.7	75.1	-0.75	-45.8	---	---	
6/15/2018 14:56	60.9	32.8	0	6.3	0.6	138.7	48.6	-0.57	-44.78	---	---	Closed Valve 1/2 Turn or Less.....
6/15/2018 14:56	60.9	32.8	0	6.3	0.5	138.6	44.4	-0.47	-44.78	---	---	
6/15/2018 14:58	59.5	31.9	0.1	8.5	0.3	138.6	33.3	-0.17	-43.61	---	---	No Change.....
6/15/2018 14:58	59.5	31.9	0.1	8.5	0.3	138.7	32.5	-0.2	-43.61	---	---	
7/14/2018 9:31	62.8	37.1	0.1	0	0.5	138.7	45.8	-0.79	-55.6	---	---	No Change.....
7/14/2018 9:31	62.8	37.1	0.1	0	0.5	138.6	44.8	-0.8	-55.6	---	---	
8/16/2018 11:08	64	36	0	0	0	133.9	---	1.25	-21.21	---	---	No Change.....
8/16/2018 11:08	64	36	0	0	0	134.2	---	1.25	-21.21	---	---	
8/16/2018 11:14	63.9	36.1	0	0	0	134	---	1.13	-19.02	---	---	Opened Valve > 1Turn.....
8/16/2018 11:14	63.9	36.1	0	0	0.5	137.1	46.1	-0.1	-19.02	---	---	
8/17/2018 13:13	64.1	35.8	0.1	0	0.9	137.3	58.1	-1.55	-27.86	---	---	No Change.....
8/17/2018 13:13	64.1	35.8	0.1	0	0.9	137.3	58.2	-1.5	-27.86	---	---	
8/17/2018 13:15	64	35.9	0.1	0	1.1	137.4	66.8	-1.69	-23.42	---	---	Opened Valve 1/2 to 1 Turn,Surging In Header.....
8/17/2018 13:15	64	35.9	0.1	0	1.4	137.5	73.5	-2.59	-23.42	---	---	
9/12/2018 13:54	55.2	29.7	0	15.1	2.3	138	96.7	-5.16	-28.71	---	---	No Change.....
9/12/2018 13:54	55.2	29.7	0	15.1	2.4	138	96.8	-5.18	-28.71	---	---	
9/12/2018 13:56	54	29.6	0	16.4	2.1	138.1	91.4	-5.05	-24.24	---	---	Opened Valve 1/2 to 1 Turn,Surging In Header.....
9/12/2018 13:56	54	29.6	0	16.4	2.6	138.1	102.1	-5.97	-24.24	---	---	
9/12/2018 13:58	54.9	29.8	0	15.3	2.5	138	100	-5.89	-28.42	---	---	No Change.....
9/12/2018 13:58	54.9	29.8	0	15.3	2.4	138	98.3	-5.87	-28.42	---	---	
10/9/2018 15:46	48.7	27.8	0	23.5	2.8	138.4	104.4	-6.43	-34.96	---	---	No Change.....
10/9/2018 15:46	48.7	27.8	0	23.5	2.8	138.4	103.7	-6.44	-34.96	---	---	
10/9/2018 15:48	48.1	27.7	0	24.2	2.3	138.5	94.8	-6.26	-43.22	---	---	Closed Valve > 1 Turn,Surging In Header.....
10/9/2018 15:48	48.1	27.7	0	24.2	0.9	138.3	60.2	-3.44	-43.22	---	---	
10/25/2018 11:12	62.6	32.7	0	4.7	0.7	138.7	54.2	-1.51	-35.76	---	---	No Change.....
10/25/2018 11:12	62.6	32.7	0	4.7	0.8	138.7	56.3	-1.47	-35.76	---	---	
10/25/2018 11:17	62.7	32.7	0	4.6	0.8	138.8	56.5	-1.34	-24.2	---	---	Opened Valve > 1Turn.....
10/25/2018 11:17	62.7	32.7	0	4.6	2.5	138.8	99.9	-4.97	-24.2	---	---	
10/25/2018 13:28	60.9	31.1	0	8	2.5	137.4	100.1	-6.33	-25.02	---	---	No Change.....
10/25/2018 13:28	60.9	31.1	0	8	2.6	137.4	102.9	-6.33	-25.02	---	---	
10/25/2018 13:32	61.2	31	0	7.8	2.7	137.5	103.9	-6.4	-24.05	---	---	Opened Valve 1/2 to 1 Turn.....
10/25/2018 13:32	61.2	31	0	7.8	3.3	137.5	115.4	-6.66	-24.05	---	---	
10/27/2018 11:13	57.5	30.4	0	12.1	2.2	138.1	93.1	-6.28	-18.4	---	---	No Change.....
10/27/2018 11:13	57.5	30.4	0	12.1	2.2	138.1	94.5	-6.25	-18.4	---	---	
10/27/2018 11:18	57.5	30.3	0	12.2	2	138.2	90.3	-6.01	-13.79	---	---	Opened Valve > 1Turn.....
10/27/2018 11:18	57.5	30.3	0	12.2	2.7	138.3	104.4	-7.31	-13.79	---	---	
10/29/2018 10:52	46.3	28.4	0	25.3	3.4	137.8	113.6	-9.04	-16.06	---	---	No Change.....
10/29/2018 10:52	46.3	28.4	0	25.3	3.3	137.8	113.3	-9.02	-16.06	---	---	
10/29/2018 10:56	46.5	28.2	0	25.3	3.4	137.9	114.3	-9.06	-15.61	---	---	Valve 100% Open,Opened Valve > 1Turn.....
10/29/2018 10:56	46.5	28.2	0	25.3	3.4	137.8	113.9	-9.13	-15.61	---	---	
10/30/2018 9:52	44.3	28	0	27.7	3.2	138	111	-9.31	-16.67	---	---	Valve 100% Open,No Change.....
10/30/2018 9:52	44.3	28	0	27.7	3.2	138	110.5	-9.32	-16.67	---	---	
11/1/2018 13:50	44.2	27.6	0	28.2	3.3	138.3	112.1	-8.47	-15.17	---	---	No Change.....
11/1/2018 13:50	44.2	27.6	0	28.2	3	138.2	107.1	-8.49	-15.17	---	---	

11/1/2018 13:54	44.1	27.4	0	28.5	3.3	138.2	112.3	-9.04	-15.49	---	---	Valve 100% Open,.....
11/1/2018 13:54	44.1	27.4	0	28.5	3.3	138.2	112.6	-9.02	-15.49	---	---	
11/7/2018 11:38	45.8	28.2	0	26	3.5	138.6	116.8	-7.49	-12.43	---	---	No Change,.....
11/7/2018 11:38	45.8	28.2	0	26	3.4	138.6	115	-7.52	-12.43	---	---	
11/7/2018 11:42	45.9	28.1	0	26	3.8	138.6	121.5	-7.93	-12.48	---	---	Valve 100% Open,.....
11/7/2018 11:42	45.9	28.1	0	26	3.7	138.6	119.6	-7.92	-12.48	---	---	
12/15/2018 9:00	49.3	30.3	0.1	20.3	1.8	138.8	83.5	-5.83	-5.75	---	---	No Change,Valve 100% Open,.....
12/15/2018 9:00	49.3	30.3	0.1	20.3	1.8	138.9	83.4	-5.79	-5.75	---	---	
1/9/2019 11:56	50	30.1	0	19.9	2	141.1	96.7	-5.8	-9.65	---	---	No Change,Valve compltley open:
1/9/2019 11:56	50	30.1	0	19.9	1.3	141.1	79.6	-5.55	-9.65	---	---	
1/25/2019 10:37	48.7	30.8	0	20.5	2.7	141.3	112.4	-7.49	-10.54	---	---	No Change: :
1/25/2019 10:37	48.7	30.8	0	20.5	2.3	141.3	102.4	-7.45	-9.99	---	---	
2/25/2019 14:12	42.3	28.8	0	28.9	2.7	142.2	111.8	-9.36	-15.34	---	---	No Change: :
2/25/2019 14:12	42.3	28.8	0	28.9	2	142.2	96	-9.06	-14.92	---	---	
2/25/2019 14:13	42.3	28.8	0	28.9	2.8	142.2	113.3	-8.98	-14.45	---	---	Closed Valve 1/2 to 1 turn: :
2/25/2019 14:13	42.3	28.8	0	28.9	3.3	142.2	122.4	-9.14	-14.75	---	---	
2/25/2019 17:23	40.4	27.1	0	32.4	2.8	142	113.1	-9.11	-15.18	---	---	No Change: :
2/25/2019 17:23	40.4	27.1	0	32.4	3.1	142	117.9	-9.41	-15.05	---	---	
2/25/2019 17:24	41.1	27.2	0	31.6	3.3	142.2	122.5	-9.37	-15.85	---	---	Closed Valve 1/2 turn or less: :
2/25/2019 17:24	41.1	27.2	0	31.6	2.5	142.2	106.4	-9.24	-14.75	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged



Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0301 / AHWW0301

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
5/27/2016 14:29	7.5	2.7	12.7	77.1	0	85	---	-0.1	-42.46	0	---	No Change ::
5/27/2016 14:29	7.5	2.7	12.7	77.1	0	86	---	-0.1	-42.46	0	---	
5/27/2016 14:32	18.3	5.6	2.3	73.8	0	85	11	-0.1	-41.83	0	---	Opened Valve 1/2 Turn or Less: :
5/27/2016 14:32	18.3	5.6	2.3	73.8	0	85	14	-0.1	-41.83	0	---	
6/7/2016 15:16	41.4	11.2	0	47.4	0.1	77	17	0.1	-52.57	0	---	No Change ::
6/7/2016 15:16	41.4	11.2	0	47.4	0.1	77	16	0.1	-52.57	0	---	
6/7/2016 15:19	41	10.9	0	48.1	0	80	---	-0.2	-52.8	0	---	Opened Valve 1/2 Turn or Less: :
6/7/2016 15:19	41	10.9	0	48.1	-0.1	80	---	-0.1	-52.8	0	---	
6/24/2016 14:52	30.7	10.8	0.3	58.2	0.3	86	36	0.3	-39.63	0	---	No Change ::
6/24/2016 14:52	30.7	10.8	0.3	58.2	0.3	86	37	0.4	-39.63	0	---	
6/24/2016 14:54	31.1	11	0	57.9	0.8	85	59	-0.5	-39.55	0	---	Opened Valve 1/2 Turn or Less: :
6/24/2016 14:54	31.1	11	0	57.9	1.2	85	76	-0.6	-39.55	0	---	
7/7/2016 13:01	29	9.6	0	61.4	0.8	90	61	-0.4	-46.26	0	---	No Change ::
7/7/2016 13:01	29	9.6	0	61.4	1	90	68	-0.3	-46.26	0	---	
7/7/2016 13:03	29.4	9.7	0	60.9	0.6	90	53	-0.1	-46.7	0	---	Closed Valve 1/2 Turn or Less: :
7/7/2016 13:03	29.4	9.7	0	60.9	0.6	90	54	-0.1	-46.7	0	---	
8/8/2016 13:35	33	15.7	0	51.3	0.2	93	28	0.1	-41.38	0	---	No Change ::
8/8/2016 13:35	33	15.7	0	51.3	0.1	93	24	0.1	-41.38	0	---	
8/8/2016 13:37	31.5	15.2	0	53.3	0.7	93	54	-0.1	-40.81	0	---	Opened Valve 1/2 Turn or Less: :
8/8/2016 13:37	31.5	15.2	0	53.3	0.3	93	37	-0.2	-40.81	0	---	
9/14/2016 16:06	19.3	18.2	0.3	62.2	1	107	64	-1.5	-45.27	0	---	No Change ::
9/14/2016 16:06	19.3	18.2	0.3	62.2	0.8	107	57	-1.3	-45.27	0	---	
9/14/2016 16:08	20.1	18.6	0.2	61.1	0.3	107	35	-0.5	-45.47	0	---	Closed Valve 1/2 to 1 Turn: :
9/14/2016 16:08	20.1	18.6	0.2	61.1	0.5	107	44	-0.6	-45.47	0	---	
10/15/2016 15:55	44.7	23	0	32.3	0.2	106	28	-0.2	-14.08	0	---	No Change ::
10/15/2016 15:55	44.7	23	0	32.3	0.2	106	30	-0.2	-14.08	0	---	
10/15/2016 15:58	45.1	23.4	0	31.5	0	106	14	-0.1	-19.35	0	---	Closed Valve 1/2 Turn or Less: :
10/15/2016 15:58	45.1	23.4	0	31.5	0.1	106	18	-0.1	-19.35	0	---	
11/14/2016 16:03	12.4	13.8	6.1	67.7	0.2	125	26	-0.4	-40.68	0	---	No Change: :
11/14/2016 16:03	12.4	13.8	6.1	67.7	16.3	124	266	-0.4	-40.68	0	---	
11/14/2016 16:07	12.8	14	5.6	67.6	0.4	123	38	-0.3	-41.38	0	---	Closed Valve > 1 Turn: :
11/14/2016 16:07	12.8	14	5.6	67.6	0.3	122	32	-0.4	-41.38	0	---	
11/29/2016 16:17	0.2	5.2	15	79.6	0.5	71	45	-1.1	-44.93	0	---	No Change ::
11/29/2016 16:17	0.2	5.2	15	79.6	0.6	71	51	-1.1	-44.93	0	---	
11/29/2016 16:20	0.2	4.7	16	79.1	0.1	71	15	-0.3	-45.19	0	---	Closed Valve 1/2 to 1 Turn: :
11/29/2016 16:20	0.2	4.7	16	79.1	0	71	3	-0.2	-45.19	0	---	
12/12/2016 12:25	2.2	7.1	13.1	77.6	1.3	88	72	-0.4	-44.12	0	---	No Change ::
12/12/2016 12:25	2.2	7.1	13.1	77.6	1.2	88	71	-0.4	-44.12	0	---	
12/12/2016 12:27	2.1	6.9	13.4	77.6	1.2	88	71	-0.5	-45.35	0	---	Closed Valve 1/2 Turn or Less: :
12/12/2016 12:27	2.1	6.9	13.4	77.6	1	88	63	-0.3	-45.35	0	---	
12/16/2016 12:32	0.4	6.8	11.2	81.6	0.1	93	17	-0.4	-42.7	0	---	No Change ::
12/16/2016 12:32	0.4	6.8	11.2	81.6	0.2	93	29	-0.4	-42.7	0	---	

12/16/2016 12:35	0.4	6.8	11	81.8	0	92	7	-0.4	-43.36	0	---	Closed Valve 1/2 Turn or Less: :
12/16/2016 12:35	0.4	6.8	11	81.8	-0.1	92	7	-0.4	-43.36	0	---	
12/29/2016 16:17	1	5.9	13.5	79.6	0	97	---	-0.3	-38.68	0	---	No Change : :
12/29/2016 16:17	1	5.9	13.5	79.6	0	97	6	-0.2	-38.68	0	---	
12/29/2016 16:20	0.9	5.9	13.8	79.4	0	96	9	-0.4	-38.6	0	---	Closed Valve 1/2 Turn or Less: :
12/29/2016 16:20	0.9	5.9	13.8	79.4	-0.1	96	9	-0.3	-38.6	0	---	
1/6/2017 13:28	0.3	4.4	15.8	79.5	-0.1	92	---	-0.4	-35.85	0	---	No Change : :
1/6/2017 13:28	0.3	4.4	15.8	79.5	-0.2	92	---	-0.4	-35.85	0	---	
1/6/2017 13:31	0.2	4.4	15.7	79.7	-0.6	92	---	-0.2	-35.26	0	---	Closed Valve 1/2 Turn or Less: :
1/6/2017 13:31	0.2	4.4	15.7	79.7	-0.3	92	---	-0.2	-35.26	0	---	
1/11/2017 15:00	0.4	7	11.5	81.1	0	88	3	0	-37.89	0	---	No Change : :
1/11/2017 15:00	0.4	7	11.5	81.1	0	88	3	0	-37.89	0	---	
1/11/2017 15:03	5	9.5	9.2	76.3	0.2	91	30	-0.2	-37.43	0	---	Opened Valve 1/2 Turn or Less: :
1/11/2017 15:03	5	9.5	9.2	76.3	0.2	91	30	-0.2	-37.43	0	---	
1/26/2017 12:39	0.3	3.7	16.8	79.2	0.3	110	31	-0.5	-38.76	0	---	No Change : :
1/26/2017 12:39	0.3	3.7	16.8	79.2	0.3	110	31	-0.5	-38.76	0	---	
1/26/2017 12:41	0.3	3.7	16.9	79.1	0.1	110	14	-0.4	-39.3	0	---	Closed Valve 1/2 Turn or Less: :
1/26/2017 12:41	0.3	3.7	16.9	79.1	0.1	110	20	-0.3	-39.3	0	---	
2/2/2017 11:18	0.3	3.9	15.8	80	-1.2	90	---	-0.3	-41.72	0	---	No Change : :
2/2/2017 11:18	0.3	3.9	15.8	80	-1.2	90	---	-0.3	-41.72	0	---	
2/2/2017 11:18	0.3	3.9	15.8	80	-1.2	90	---	-0.3	-41.72	---	---	No Change : :
2/2/2017 11:18	0.3	3.9	15.8	80	-1.2	90	---	-0.3	-41.72	---	---	
2/2/2017 11:21	0.3	3.7	17.4	78.6	-1.3	90	---	-0.1	-40.53	---	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:21	0.3	3.7	17.4	78.6	-1.2	90	---	-0.1	-40.53	---	---	
2/2/2017 11:21	0.3	3.7	17.4	78.6	-1.3	90	---	-0.1	-40.53	0	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:21	0.3	3.7	17.4	78.6	-1.2	90	---	-0.1	-40.53	0	---	
2/16/2017 15:28	0.3	5.7	14.7	79.3	0.3	103	36	-0.4	-36.98	---	---	No Change : :
2/16/2017 15:28	0.3	5.7	14.7	79.3	0.3	103	35	-0.4	-36.98	---	---	
2/16/2017 15:34	0.3	5.7	9	85	0.3	103	32	-0.4	-37.69	---	---	Closed Valve 1/2 Turn or Less: :
2/16/2017 15:34	0.3	5.7	9	85	0.3	103	32	-0.4	-37.69	---	---	
3/1/2017 14:19	0.7	9.9	6	83.4	0.1	98	19	0.3	-29.96	---	---	No Change .....
3/1/2017 14:19	0.7	9.9	6	83.4	0	98	9	0.4	-29.96	---	---	
3/1/2017 14:22	0.7	10	6	83.3	0.3	103	33	-0.4	-36.01	---	---	Opened Valve 1/2 Turn or Less.....
3/1/2017 14:22	0.7	10	6	83.3	0.3	103	31	-0.3	-36.01	---	---	
3/7/2017 12:09	55.6	44	0.3	1	0	58	14	-37.4	-37.31	---	---	Valve 100% Open.....
3/7/2017 12:09	55.6	44	0.3	1	0.1	58	22	-37.3	-37.31	---	---	
3/7/2017 12:10	55.6	43.8	0.4	0.2	0.1	58	17	-37.5	-37.58	---	---	Valve 100% Open,No Change .....
3/7/2017 12:10	55.6	43.8	0.4	0.2	0.1	58	18	-37.5	-37.58	---	---	
4/4/2017 14:42	44.3	33.8	4.3	17.6	-0.1	46	---	-35.7	-35.88	---	---	No Change .....
4/4/2017 14:42	44.3	33.8	4.3	17.6	-0.2	46	---	-36	-35.88	---	---	
4/4/2017 14:44	48.5	37.7	2.2	11.6	-0.1	45	---	-35.8	-35.68	---	---	Closed Valve > 1 Turn.....
4/4/2017 14:44	48.5	37.7	2.2	11.6	0	45	---	-35.8	-35.68	---	---	
4/7/2017 10:40	0.9	6.7	11.9	80.5	0.3	101	32	-0.7	-45.17	---	---	No Change .....
4/7/2017 10:40	0.9	6.7	11.9	80.5	0.5	101	42	-0.7	-45.17	---	---	
4/7/2017 10:43	0.9	6.7	12.1	80.3	0.2	101	28	-0.6	-45.23	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/7/2017 10:43	0.9	6.7	12.1	80.3	0.2	101	24	-0.6	-45.23	---	---	
4/21/2017 14:02	0.5	7.2	10.8	81.5	0.1	99	18	-0.3	-21.64	---	---	No Change .....
4/21/2017 14:02	0.5	7.2	10.8	81.5	0.1	99	21	-0.3	-21.64	---	---	
4/21/2017 14:04	0.5	7.2	10.6	81.7	0	99	---	-0.2	-23.57	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/21/2017 14:04	0.5	7.2	10.6	81.7	0	99	1	-0.2	-23.57	---	---	
5/3/2017 13:47	0.5	5.9	12.4	81.2	0.2	108.1	24.5	-0.48	-41.72	---	170	No Change ,Valve Barely Open.....
5/3/2017 13:47	0.5	5.9	12.4	81.2	0.2	108.1	24	-0.48	-41.72	---	170	

6/2/2017 13:32	1.3	8.8	8.5	81.4	0.2	118	28	-0.2	-12.98	---	---	No Change ,Valve Barely Open.....
6/2/2017 13:32	1.3	8.8	8.5	81.4	0.3	118	32	-0.2	-12.98	---	---	
7/18/2017 13:29	11.1	18.2	0.9	69.8	0.7	131	52	-1.2	-42.31	---	---	No Change.....
7/18/2017 13:29	11.1	18.2	0.9	69.8	0.7	131	53	-1.1	-42.31	---	---	
7/18/2017 13:31	10.8	18	0.7	70.5	0.4	131	38	-0.3	-42.42	---	---	Closed Valve 1/2 to 1 Turn,Valve Barely Open.....
7/18/2017 13:31	10.8	18	0.7	70.5	0.3	130	36	-0.2	-42.42	---	---	
7/20/2017 12:52	6.6	17.1	1.3	75	0.3	129	33	-0.1	-40.86	---	---	No Change ,Valve Barely Open.....
7/20/2017 12:52	6.6	17.1	1.3	75	0.3	129	31	-0.2	-40.86	---	---	
8/15/2017 16:52	0.9	6.8	8.3	84	0.1	130	22	-0.4	-41.51	---	---	No Change .....
8/15/2017 16:52	0.9	6.8	8.3	84	0	131	10	-0.3	-41.51	---	---	
8/15/2017 16:55	0.8	6.7	8.4	84.1	0	131	6	-0.2	-47.3	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
8/15/2017 16:55	0.8	6.7	8.4	84.1	0.1	131	13	-0.1	-47.3	---	---	
8/30/2017 9:27	25.5	17.3	0.2	57	0.4	133	41	-0.4	-48.1	---	---	No Change .....
8/30/2017 9:27	25.5	17.3	0.2	57	0.6	133	47	-0.5	-48.1	---	---	
8/30/2017 9:29	26.1	17.5	0.1	56.3	0.6	134	49	-0.7	-48.5	---	---	Opened Valve 1/2 Turn or Less.....
8/30/2017 9:29	26.1	17.5	0.1	56.3	0.7	135	54	-0.7	-48.5	---	---	
9/14/2017 10:36	26.9	18.2	0.7	54.2	0.6	135	48	-0.9	-45.25	---	---	No Change .....
9/14/2017 10:36	26.9	18.2	0.7	54.2	0.8	135	58	-0.8	-45.25	---	---	
9/14/2017 10:38	27.5	18.1	0.7	53.7	1.4	136	74	-1.8	-46.96	---	---	Opened Valve 1/2 Turn or Less.....
9/14/2017 10:38	27.5	18.1	0.7	53.7	1.2	136	68	-1.7	-46.96	---	---	
9/29/2017 13:32	0.6	5	14.1	80.3	1.3	134	71	-1.6	-50.16	---	---	No Change .....
9/29/2017 13:32	0.6	5	14.1	80.3	1.6	135	77	-1.7	-50.16	---	---	
10/13/2017 12:21	13.8	14.2	3.3	68.7	0.6	129	46	-0.5	-49.34	---	---	No Change .....
10/13/2017 12:21	13.8	14.2	3.3	68.7	0.3	130	32	-0.4	-49.34	---	---	
10/13/2017 12:26	13.3	14.5	2.8	69.4	0.8	131	55	-1	-48.22	---	---	Opened Valve 1/2 Turn or Less.....
10/13/2017 12:26	13.3	14.5	2.8	69.4	0.6	132	49	-0.9	-48.22	---	---	
10/17/2017 11:45	10.1	10.9	7.1	71.9	0.8	132	57	-0.9	-46.69	---	---	No Change .....
10/17/2017 11:45	10.1	10.9	7.1	71.9	0.7	133	51	-1.1	-46.69	---	---	
10/17/2017 11:47	14.2	11.6	6.3	67.9	1.5	134	77	-2	-48.19	---	---	Opened Valve 1/2 Turn or Less.....
10/17/2017 11:47	14.2	11.6	6.3	67.9	1.7	134	82	-2.1	-48.19	---	---	
11/1/2017 13:48	4.6	5.9	14	75.5	0.5	128	42	-0.3	-41.9	---	---	No Change ,Valve Barely Open.....
11/1/2017 13:48	4.6	5.9	14	75.5	0.6	128	48	-0.3	-41.9	---	---	
11/16/2017 16:07	0.1	3.8	16.9	79.2	0.1	124	13	-0.3	-44.9	---	---	No Change ,Valve Barely Open.....
11/16/2017 16:07	0.1	3.8	16.9	79.2	-0.1	124	13	-0.3	-44.9	---	---	
12/22/2017 13:03	44.1	23.4	0.1	32.4	0.1	61	19	-0.3	-47.71	---	---	No Change .....
12/22/2017 13:03	44.1	23.4	0.1	32.4	0.2	61	30	-0.3	-47.71	---	---	
12/22/2017 13:05	43.9	23.4	0	32.7	0.3	60	37	-0.3	-48.5	---	---	Closed Valve 1/2 Turn or Less.....
12/22/2017 13:05	43.9	23.4	0	32.7	0	60	14	-0.3	-48.5	---	---	
1/15/2018 15:30	9.5	16.1	0	74.4	0	91	---	-0.6	-50.41	---	---	No Change ,Valve Barely Open.....
1/15/2018 15:30	9.5	16.1	0	74.4	0	91	---	-0.6	-50.41	---	---	
2/9/2018 11:13	0.6	11.9	5.8	81.7	2.3	32	102	0	0.11	---	---	No Change ,Header Vacuum Loss.....
2/9/2018 11:13	0.6	11.9	5.8	81.7	2.3	32	102	0	0.11	---	---	
2/9/2018 11:15	0.6	12	5.6	81.8	1.8	32	92	0.1	0.1	---	---	Opened Valve 1/2 to 1 Turn,Header Vacuum Loss.....
2/9/2018 11:15	0.6	12	5.6	81.8	1.8	32	91	0	0.1	---	---	
2/23/2018 13:04	5.4	6.1	12.7	75.8	1.8	124	84	-3.2	-43.43	---	---	No Change .....
2/23/2018 13:04	5.4	6.1	12.7	75.8	1.9	124	86	-3.1	-43.43	---	---	
2/23/2018 13:07	0.3	4.6	14.9	80.2	0.5	116	44	-0.4	-43.79	---	---	Closed Valve > 1 Turn,Valve Barely Open.....
2/23/2018 13:07	0.3	4.6	14.9	80.2	0.7	116	51	-0.5	-43.79	---	---	
3/6/2018 15:37	0	6.5	12.2	81.3	-0.1	109	---	-0.2	-44.88	---	---	No Change,Valve Barely Open.....
3/6/2018 15:37	0	6.5	12.2	81.3	-0.2	109	---	0	-44.88	---	---	
3/6/2018 15:39	0	6.5	12.2	81.3	0.6	108	48	-0.1	-44.51	---	---	Opened Valve 1/2 Turn or Less,Valve Barely Open.....
3/6/2018 15:39	0	6.5	12.2	81.3	-0.5	108	48	-0.1	-44.51	---	---	

4/9/2018 15:14	18.4	21.7	0.6	59.3	0.3	86	35	-0.6	-52.62	---	---	No Change .....
4/9/2018 15:14	18.4	21.7	0.6	59.3	0.2	86	31	-0.5	-52.62	---	---	
4/9/2018 15:16	18.2	21.9	0	59.9	0.1	85	22	-0.3	-52.34	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
4/9/2018 15:16	18.2	21.9	0	59.9	0.1	85	21	-0.3	-52.34	---	---	
5/14/2018 15:42	1.2	9.8	7.9	81.1	0.2	123.2	26.8	0.09	-46.96	---	47	No Change.....
5/14/2018 15:42	1.2	9.8	7.9	81.1	0.2	123	26.9	0.09	-46.96	---	47	
5/14/2018 15:44	0.8	10.1	7.3	81.8	0.6	136	44.8	-0.13	-46.64	---	33	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
5/14/2018 15:44	0.8	10.1	7.3	81.8	0.5	136.1	42.1	-0.13	-46.64	---	33	
5/16/2018 14:40	0.5	8.5	8.7	82.3	0.6	140.2	43.8	-0.32	-41.6	---	0	No Change,Valve Barely Open,,,,,
5/16/2018 14:40	0.5	8.5	8.7	82.3	0.5	140.2	39.5	-0.29	-41.6	---	0	
5/31/2018 17:46	44.9	15	0	40.1	0.5	148.5	49	-0.56	-53.05	---	---	Closed Valve 1/2 turn or less: :
5/31/2018 17:46	44.9	15	0	40.1	0.4	148.3	43.5	-0.34	-53.18	---	---	
5/31/2018 17:47	48.7	14.9	0	36.4	0.4	148.1	43.3	-0.46	-52.08	---	---	No Change: second read:
5/31/2018 17:47	48.7	14.9	0	36.4	0.4	148.3	43.6	-0.45	-52.63	---	---	
6/15/2018 14:45	3.4	15.9	0.8	79.9	0.1	139.3	21.4	-0.29	-44.02	---	---	Closed Valve 1/2 Turn or Less.....
6/15/2018 14:45	3.4	15.9	0.8	79.9	0.1	139.2	21.9	-0.23	-44.02	---	---	
6/15/2018 14:46	3.3	16	0.8	79.9	0.1	139.2	20.3	-0.31	-44.69	---	---	No Change,Valve Barely Open,,,,,
6/15/2018 14:46	3.3	16	0.8	79.9	0.1	139.2	20.3	-0.29	-44.69	---	---	
6/21/2018 16:23	16.3	18	0.5	65.2	0.1	136.9	20.2	0.01	-49.67	---	---	No Change.....
6/21/2018 16:23	16.3	18	0.5	65.2	0.1	137	20.4	0.01	-49.67	---	---	
6/21/2018 16:25	16.5	18.9	0.1	64.5	0.2	137.9	23.3	-0.07	-49.56	---	---	Opened Valve 1/2 Turn or Less,Valve Barely Open,,,,,
6/21/2018 16:25	16.5	18.9	0.1	64.5	0.2	137.8	23.2	-0.06	-49.56	---	---	
7/13/2018 10:30	1.1	12.3	5.4	81.2	0.1	139.1	18.9	-0.21	-52.21	---	70	Closed Valve 1/2 Turn or Less.....
7/13/2018 10:30	1.1	12.3	5.4	81.2	0.1	138.6	17.4	-0.2	-52.21	---	70	
8/16/2018 10:47	66	19.9	0	14.1	0.1	145.6	19.6	0.25	-19.06	---	---	No Change.....
8/16/2018 10:47	66	19.9	0	14.1	0.1	145.5	17.8	0.28	-19.06	---	---	
8/16/2018 10:49	64.9	20	0	15.1	0.1	145.6	17.4	0.12	-18.51	---	---	Opened Valve > 1Turn,Surging In Header,,,,,
8/16/2018 10:49	64.9	20	0	15.1	0.4	147.2	42.6	-0.24	-18.51	---	---	
8/16/2018 14:01	41.4	25.8	0	32.8	0.7	143.4	51.5	-1.07	-26.04	---	---	No Change.....
8/16/2018 14:01	41.4	25.8	0	32.8	0.7	143.4	51.1	-0.98	-26.04	---	---	
8/16/2018 14:03	41	25.9	0	33.1	0.7	143.4	49.6	-0.76	-26.34	---	---	Closed Valve 1/2 to 1 Turn.....
8/16/2018 14:03	41	25.9	0	33.1	0.5	143.1	43.5	-0.59	-26.34	---	---	
8/17/2018 13:32	28	26.3	0	45.7	0.6	140.5	45.3	-0.74	-29.49	---	---	No Change.....
8/17/2018 13:32	28	26.3	0	45.7	0.6	140.5	45.2	-0.75	-29.49	---	---	
8/17/2018 13:38	27.6	26.4	0	46	0.6	140.5	44.5	-0.79	-30.38	---	---	Closed Valve 1/2 to 1 Turn.....
8/17/2018 13:38	27.6	26.4	0	46	0.3	139.6	30.2	-0.34	-30.38	---	---	
8/28/2018 9:16	4	20.7	0	75.3	0.3	135.8	29.4	-0.8	-31.15	---	---	No Change.....
8/28/2018 9:16	4	20.7	0	75.3	0.3	135.8	29.4	-0.74	-31.15	---	---	
8/28/2018 9:18	4	20.7	0	75.3	0.2	135.9	28.5	-0.62	-31.62	---	---	Closed Valve 1/2 to 1 Turn,Valve Barely Open,Surging In I
8/28/2018 9:18	4	20.7	0	75.3	0.2	135.4	27.4	-0.36	-31.62	---	---	
8/28/2018 9:19	4.1	20.7	0	75.2	0.2	135.1	27.3	-0.41	-32.22	---	---	No Change.....
8/28/2018 9:19	4.1	20.7	0	75.2	0.2	135.2	27.7	-0.38	-32.22	---	---	
9/12/2018 10:31	6.3	20.4	0	73.3	-0.5	134.6	---	0.41	-38.84	---	---	No Change.....
9/12/2018 10:31	6.3	20.4	0	73.3	-0.5	134.7	---	0.41	-38.84	---	---	
9/12/2018 10:35	6.4	20.4	0	73.2	-0.5	134.7	---	0.41	-38.14	---	---	Opened Valve 1/2 to 1 Turn.....
9/12/2018 10:35	6.4	20.4	0	73.2	-0.2	135.9	---	-0.11	-38.14	---	---	
9/12/2018 10:37	6.2	20.1	0	73.7	-0.1	136	---	-0.27	-37.36	---	---	No Change.....
9/12/2018 10:37	6.2	20.1	0	73.7	-0.1	136	---	-0.27	-37.36	---	---	
10/9/2018 8:59	5.8	18.4	0	75.8	0.8	133.9	52.7	-0.97	-38.15	---	---	No Change.....
10/9/2018 8:59	5.8	18.4	0	75.8	0.9	133.9	55.6	-0.97	-38.15	---	---	
10/9/2018 9:03	4.7	18.6	0	76.7	1.2	134	63.4	-1.3	-39.15	---	---	Closed Valve > 1 Turn.....
10/9/2018 9:03	4.7	18.6	0	76.7	0.9	130.8	55.6	-0.71	-39.15	---	---	

10/9/2018 9:05	4.6	18.4	0	77	0.7	130.5	48.8	-0.51	-39.25	---	---	No Change,Surging In Header,.....
10/9/2018 9:05	4.6	18.4	0	77	0.8	130.7	51.4	-0.5	-39.25	---	---	
10/26/2018 14:23	33.2	25.2	0	41.6	0.1	130.9	13.2	-0.44	-36.49	---	---	No Change,.....
10/26/2018 14:23	33.2	25.2	0	41.6	0	131.1	12.1	-0.42	-36.49	---	---	
10/26/2018 14:32	33.6	25.2	0	41.2	-0.2	131.3	---	-0.16	-35.51	---	---	Opened Valve > 1Turn,Surging In Header,.....
10/26/2018 14:32	33.6	25.2	0	41.2	2.9	137.8	103.9	-4.58	-35.51	---	---	
10/27/2018 10:19	17.5	22.3	0	60.2	3.1	138.5	104.7	-5.05	-36.1	---	---	No Change,.....
10/27/2018 10:19	17.5	22.3	0	60.2	3	138.5	103.4	-5.04	-36.1	---	---	
10/27/2018 10:25	17.5	22.4	0	60.1	2.9	138.6	100.4	-10.96	-37.9	---	---	Closed Valve > 1 Turn,Surging In Header,.....
10/27/2018 10:25	17.5	22.4	0	60.1	1.9	138.3	82.4	-3.14	-37.9	---	---	
10/29/2018 9:30	7.3	19.9	0	72.8	2.1	137.6	84.6	-3.4	-38.22	---	---	No Change,.....
10/29/2018 9:30	7.3	19.9	0	72.8	2	137.7	83.7	-3.37	-38.22	---	---	
10/29/2018 9:37	7.3	19.9	0	72.8	1.9	137.7	79.7	-3.28	-39.22	---	---	No Change,.....
10/29/2018 9:37	7.3	19.9	0	72.8	2.1	137.5	84.2	-3.24	-39.22	---	---	
10/30/2018 13:59	3.4	17.4	0	79.2	1.9	137.5	80.4	-3.13	-39	---	---	No Change,.....
10/30/2018 13:59	3.4	17.4	0	79.2	1.9	137.4	80.4	-3.11	-39	---	---	
10/30/2018 14:14	3.1	17.4	0	79.5	1.5	123.7	71.8	-1.45	-37.28	---	---	Opened Valve > 1Turn,.....
10/30/2018 14:14	3.1	17.4	0	79.5	4.7	128.6	129	-5.04	-37.28	---	---	
11/1/2018 11:29	3.7	18.7	0	77.6	-3.7	132.1	0	-4.22	-36.83	---	---	No Change,.....
11/1/2018 11:29	3.7	18.7	0	77.6	-3.9	132.3	0	-4.26	-36.83	---	---	
11/16/2018 14:43	6.5	17.7	0	75.8	2.7	127.8	20.3	-0.46	-29.47	---	---	No Change,.....
11/16/2018 14:43	6.5	17.7	0	75.8	2.7	127.8	20.3	-0.48	-29.47	---	---	
11/16/2018 14:45	6.5	17.7	0	75.8	2.8	127.8	20.9	-0.41	-29.94	---	---	Closed Valve 1/2 Turn or Less,.....
11/16/2018 14:45	6.5	17.7	0	75.8	2.4	127.8	19.2	-0.34	-29.94	---	---	
12/15/2018 8:26	0.3	16.6	0.4	82.7	0	76.4	2.8	-0.32	-29.48	---	---	No Change,.....
12/15/2018 8:26	0.3	16.6	0.4	82.7	0	77.1	2.1	-0.29	-29.48	---	---	
1/9/2019 11:28	0.2	16.9	0.1	82.8	0	54.7	1.8	-0.17	-29.75	---	---	No Change: :
1/9/2019 11:28	0.2	16.9	0.1	82.8	0	56.3	2.5	0	-29.03	---	---	
1/18/2019 11:25	0	12.5	4.2	83.3	9.6	32.7	41.3	-9.95	-0.34	---	---	No Change: :
1/18/2019 11:25	0	12.5	4.2	83.3	9.2	33.1	40.4	-9.61	-0.34	---	---	
1/18/2019 11:26	0	13	4.2	82.8	8.5	33.4	38.8	-9.14	-0.64	---	---	No Change: :
1/18/2019 11:26	0	13	4.2	82.8	0	32.5	0.9	-0.39	-21.46	---	---	
1/18/2019 11:28	0	15	1.8	83.2	0	32.9	1.4	-0.42	-22.44	---	---	No Change: :
1/18/2019 11:28	0	15	1.8	83.2	0	32.9	1.2	-0.42	-22.44	---	---	
1/18/2019 11:29	0	15	1.8	83.2	0	32.9	2	-0.44	-22.48	---	---	Closed Valve 1/2 turn or less,Valve barely open: Frozen:
1/18/2019 11:29	0	15	1.8	83.2	0	32.7	1.8	-0.42	-27.88	---	---	
2/25/2019 12:28	0.2	15.7	1.7	82.4	0	21.6	2.7	-0.43	-28.86	---	---	No Change: :
2/25/2019 12:28	0.2	15.7	1.7	82.4	0	21.7	3	-0.44	-28.01	---	---	
2/25/2019 12:28	0.2	15.8	1.7	82.3	0.1	19.9	3.1	-0.45	-28.39	---	---	Closed Valve 1/2 turn or less,Valve barely open: :
2/25/2019 12:28	0.2	15.8	1.7	82.3	0	20.3	2.8	-0.44	-28.52	---	---	

The following alternate standards have been approved for the following wells:  
Oxygen (22%): AHWW0301(6/19/2018-6/19/2019)

Please refer to the Landfill Documentation section of the website for further information pertaining to the above listed alternate limits

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0302 / AHWW0302

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/19/2016 10:27	63.2	33.1	0	3.7	0	93	11	0.1	-29.81	0	---	"No Change : :
8/19/2016 10:27	63.2	33.1	0	3.7	0	93	11	0.1	-29.81	0	---	
8/19/2016 10:30	62.1	33.3	0	4.6	0.1	96	23	-0.1	-28.07	0	---	"Opened Valve 1/2 Turn or Less: :
8/19/2016 10:30	62.1	33.3	0	4.6	0.3	97	36	-0.1	-28.07	0	---	
9/14/2016 16:36	52.4	31.8	0.1	15.7	0	97	---	0	-26.98	0	---	No Change : :
9/14/2016 16:36	52.4	31.8	0.1	15.7	0	97	---	0	-26.98	0	---	
9/14/2016 16:39	44.4	28.9	0	26.7	0.3	100	34	-0.1	-26.75	0	---	Opened Valve 1/2 to 1 Turn: :
9/14/2016 16:39	44.4	28.9	0	26.7	0.1	100	20	-0.1	-26.75	0	---	
10/15/2016 18:07	53.9	32.2	0.1	13.8	0.5	104	48	-0.7	-9.39	0	---	No Change : :
10/15/2016 18:07	53.9	32.2	0.1	13.8	0.5	104	45	-0.7	-9.39	0	---	
10/15/2016 18:08	54.4	32.6	0	13	1	104	66	-1.2	-8.53	0	---	Opened Valve 1/2 to 1 Turn:Header Vacuum Loss: :
10/15/2016 18:08	54.4	32.6	0	13	0.8	104	60	-1.2	-8.53	0	---	
10/19/2016 12:26	41	29.5	0	29.5	0.8	95	59	-2.3	-13.86	0	---	No Change : :
10/19/2016 12:26	41	29.5	0	29.5	2.3	95	99	-2.4	-13.86	0	---	
10/19/2016 12:28	40.9	29.4	0	29.7	1.1	93	68	-1.2	-17.72	0	---	Closed Valve 1/2 to 1 Turn: :
10/19/2016 12:28	40.9	29.4	0	29.7	0.7	93	53	-1.3	-17.72	0	---	
11/4/2016 14:33	44.2	27.8	0	28	0.8	105	60	-1.3	-16.63	0	---	No Change: :
11/4/2016 14:33	44.2	27.8	0	28	0.8	105	60	-1.1	-16.63	0	---	
11/4/2016 14:35	44.4	27.7	0	27.9	0.3	105	36	-0.2	-19.74	0	---	Closed Valve > 1 Turn: :
11/4/2016 14:35	44.4	27.7	0	27.9	0.3	105	33	-0.2	-19.74	0	---	
12/12/2016 16:37	57.2	33.9	0.7	8.2	1.3	85	78	-1.4	-31.21	0	---	No Change : :
12/12/2016 16:37	57.2	33.9	0.7	8.2	1.4	85	80	-1.3	-31.21	0	---	
12/12/2016 16:38	58.5	34.3	0	7.2	2.4	91	105	-2.8	-29.54	0	---	Opened Valve > 1Turn: :
12/12/2016 16:38	58.5	34.3	0	7.2	2.3	91	103	-2.9	-29.54	0	---	
1/6/2017 13:16	16.9	19.4	0	63.7	1.1	99	68	-1.8	-26.18	0	---	No Change : :
1/6/2017 13:16	16.9	19.4	0	63.7	1.3	99	72	-2	-26.18	0	---	
1/6/2017 13:21	13.9	18.3	0	67.8	0	83	13	-0.2	-27.54	0	---	Closed Valve > 1 Turn: :
1/6/2017 13:21	13.9	18.3	0	67.8	0	83	6	-0.2	-27.54	0	---	
2/2/2017 11:12	7.1	17.4	0.4	75.1	-0.6	65	---	-0.5	-29.83	0	---	No Change : :
2/2/2017 11:12	7.1	17.4	0.4	75.1	-0.7	65	---	-0.5	-29.83	0	---	
2/2/2017 11:12	7.1	17.4	0.4	75.1	-0.6	65	---	-0.5	-29.83	---	---	No Change : :
2/2/2017 11:12	7.1	17.4	0.4	75.1	-0.7	65	---	-0.5	-29.83	---	---	
2/2/2017 11:14	7.5	18	0	74.5	-1	65	---	-0.2	-28.95	0	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:14	7.5	18	0	74.5	-1.1	65	---	-0.1	-28.95	0	---	
2/2/2017 11:14	7.5	18	0	74.5	-1	65	---	-0.2	-28.95	---	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:14	7.5	18	0	74.5	-1.1	65	---	-0.1	-28.95	---	---	
3/7/2017 14:06	36.3	27	0.1	36.6	0.5	113	45	-0.5	-30.83	---	---	No Change ,,,,,,
3/7/2017 14:06	36.3	27	0.1	36.6	0.5	113	45	-0.5	-30.83	---	---	
3/7/2017 14:09	36.2	27.1	0	36.7	0.1	108	14	-0.2	-30.36	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
3/7/2017 14:09	36.2	27.1	0	36.7	0.3	108	33	-0.3	-30.36	---	---	
4/7/2017 10:46	20.4	20.7	0.3	58.6	-0.1	107	---	-0.3	-30.3	---	---	No Change ,Valve Barely Open,,,,,
4/7/2017 10:46	20.4	20.7	0.3	58.6	-0.1	107	---	-0.2	-30.3	---	---	

5/9/2017 15:25	8.7	16.4	0	74.9	0.1	118.3	14.2	-0.11	-24.85	---	1477	No Change ,Valve Barely Open.....
5/9/2017 15:25	8.7	16.4	0	74.9	0.2	118.4	23.2	-0.14	-24.85	---	1477	
6/12/2017 10:52	12.7	17.9	0.6	68.8	0.5	121	43	-0.5	-28.18	---	---	No Change .....
6/12/2017 10:52	12.7	17.9	0.6	68.8	0.5	121	42	-0.5	-28.18	---	---	
6/12/2017 10:56	11.9	17.3	0.1	70.7	0.1	121	20	-0.1	-28.21	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
6/12/2017 10:56	11.9	17.3	0.1	70.7	0.1	121	15	-0.3	-28.21	---	---	
7/18/2017 13:26	23.6	20.1	0.3	56	0.2	120	27	-0.2	-28.25	---	---	No Change,Valve Barely Open.....
7/18/2017 13:26	23.6	20.1	0.3	56	0.2	120	25	-0.3	-28.25	---	---	
8/15/2017 16:58	13.1	15.9	0.3	70.7	0	120	---	-0.1	-39.35	---	---	No Change ,Valve Barely Open.....
8/15/2017 16:58	13.1	15.9	0.3	70.7	-0.1	120	---	-0.1	-39.35	---	---	
9/25/2017 15:18	10.9	16.8	0.1	72.2	0.1	121	22	-0.2	-44.73	---	---	No Change ,Valve Barely Open.....
9/25/2017 15:18	10.9	16.8	0.1	72.2	0	121	3	-0.2	-44.73	---	---	
10/19/2017 17:07	38.4	27.5	0.2	33.9	0.3	111	32	0.1	-40.2	---	---	No Change ,Valve Barely Open.....
10/19/2017 17:07	38.4	27.5	0.2	33.9	0.2	111	31	0.1	-40.2	---	---	
10/23/2017 13:39	14.5	19.1	0.5	65.9	-0.1	120	---	-0.4	-34.47	---	---	No Change ,Valve Barely Open.....
10/23/2017 13:39	14.5	19.1	0.5	65.9	0.2	120	24	-0.2	-34.47	---	---	
11/16/2017 16:10	5.6	16.3	0	78.1	-0.3	128	---	-0.2	-37.66	---	---	No Change ,Valve Barely Open.....
11/16/2017 16:10	5.6	16.3	0	78.1	-0.2	128	---	-0.1	-37.66	---	---	
12/22/2017 13:09	58.1	28.9	0	13	0.3	110	39	-0.6	-48.2	---	---	No Change .....
12/22/2017 13:09	58.1	28.9	0	13	0.3	110	38	-0.6	-48.2	---	---	
12/22/2017 13:11	58.7	29.6	0	11.7	0.3	118	37	-0.8	-46.66	---	---	Opened Valve 1/2 Turn or Less.....
12/22/2017 13:11	58.7	29.6	0	11.7	0.1	118	23	-0.8	-46.66	---	---	
1/15/2018 15:33	25.2	20.4	0	54.4	0.2	111	24	-0.6	-44.56	---	---	No Change ,Valve Barely Open.....
1/15/2018 15:33	25.2	20.4	0	54.4	0.1	111	23	-0.6	-44.56	---	---	
2/9/2018 11:22	25.9	24.1	1.2	48.8	-0.4	114	---	-0.1	-38.59	---	---	No Change ,Valve Barely Open.....
2/9/2018 11:22	25.9	24.1	1.2	48.8	-0.2	114	---	0	-38.59	---	---	
2/12/2018 11:55	4.5	17	0.8	77.7	0.2	125	29	-0.4	-39.25	---	---	No Change ,Valve Barely Open.....
2/12/2018 11:55	4.5	17	0.8	77.7	0.2	125	25	-0.3	-39.25	---	---	
3/6/2018 15:43	7.2	18.5	0	74.3	0.2	127	25	-0.2	-36.63	---	---	No Change,Valve Barely Open.....
3/6/2018 15:43	7.2	18.5	0	74.3	0.1	127	22	-0.2	-36.63	---	---	
4/9/2018 15:18	62.4	27.5	0.1	10	0	129	13	-0.3	-52.15	---	---	No Change .....
4/9/2018 15:18	62.4	27.5	0.1	10	0	129	11	-0.3	-52.15	---	---	
4/9/2018 15:22	59.8	27.5	0	12.7	0.3	130	38	-0.6	-52.06	---	---	Opened Valve 1/2 Turn or Less.....
4/9/2018 15:22	59.8	27.5	0	12.7	0.4	130	42	-0.6	-52.06	---	---	
5/14/2018 15:30	15.4	18	0.4	66.2	1.7	133.4	78.9	-1.82	-42.06	---	522	No Change.....
5/14/2018 15:30	15.4	18	0.4	66.2	2	133.4	85.3	-1.83	-42.06	---	522	
5/14/2018 15:33	4.4	15.3	0.2	80.1	0.5	131.8	40.7	-0.15	-41.97	---	540	Closed Valve 1/2 to 1 Turn.....
5/14/2018 15:33	4.4	15.3	0.2	80.1	0.5	131.6	40.9	-0.13	-41.97	---	540	
5/25/2018 14:08	4.4	16.5	0.2	78.9	0.2	131.7	28.1	-0.05	-41.22	---	642	No Change,Valve Barely Open.....
5/25/2018 14:08	4.4	16.5	0.2	78.9	0.3	131.9	32.7	-0.07	-41.22	---	642	
5/31/2018 12:28	---	---	---	---	---	85.1	---	---	---	---	---	
5/31/2018 12:28	---	---	---	---	---	---	---	---	---	---	---	
5/31/2018 12:45	61.2	23.8	0.1	14.9	0	83.8	6.8	0.27	-54.54	---	---	Opened Valve 1/2 to 1 turn: : wfc
5/31/2018 12:45	61.2	23.8	0.1	14.9	0.4	113.5	43.8	-0.15	-56.15	---	---	
5/31/2018 12:46	63.1	22	0.1	14.8	0.4	122.2	41.3	-0.17	-55.05	---	---	second read:
5/31/2018 12:46	63.1	22	0.1	14.8	0.3	122.7	39.7	-0.14	-55.26	---	---	
5/31/2018 17:40	66.9	20.9	0.2	12	0.3	132.4	38.8	-0.24	-57.25	---	---	Opened Valve 1/2 turn or less: :
5/31/2018 17:40	66.9	20.9	0.2	12	0.4	133	45.7	-0.52	-57.59	---	---	
5/31/2018 17:41	66.8	21.2	0.1	11.9	0.6	133.2	53.9	-0.59	-56.45	---	---	second read:
5/31/2018 17:41	66.8	21.2	0.1	11.9	0.7	133.2	57.4	-0.5	-57.97	---	---	
6/15/2018 14:38	45.3	19.3	0.3	35.1	0.4	133.5	41.7	-0.55	-41.95	---	---	Closed Valve 1/2 Turn or Less.....
6/15/2018 14:38	45.3	19.3	0.3	35.1	0.1	133.3	23.1	-0.37	-41.95	---	---	

Valve Barely Open.....

6/15/2018 14:39	47.3	22.4	0	30.3	0.2	133.2	26.8	-0.41	-41.02	---	---	No Change.....
6/15/2018 14:39	47.3	22.4	0	30.3	0.2	133.2	26.2	-0.38	-41.02	---	---	
7/17/2018 14:30	67.8	25	0	7.2	0.1	128.5	22.3	0.21	-62.4	---	---	Opened Valve 1/2 Turn or Less.....
7/17/2018 14:30	67.8	25	0	7.2	0.8	133.8	59.7	-0.76	-62.4	---	---	
8/16/2018 10:42	52.5	24.6	0	22.9	2.2	136.5	94.8	-2.7	-17.63	---	---	No Change.....
8/16/2018 10:42	52.5	24.6	0	22.9	2.4	136.5	98.6	-2.69	-17.63	---	---	
8/16/2018 10:42	51.6	24.6	0	23.8	2.2	136.5	95.6	-2.54	-17.6	---	---	Opened Valve 1/2 Turn or Less,Surging In Header,,,,,
8/16/2018 10:42	51.6	24.6	0	23.8	2.4	136.5	98.2	-2.68	-17.6	---	---	
8/17/2018 10:17	39.7	24.8	0	35.5	3.1	135	109.9	-3.99	-23.69	---	---	No Change.....
8/17/2018 10:17	39.7	24.8	0	35.5	3.1	135	109.8	-3.99	-23.69	---	---	
8/17/2018 10:20	39.3	25	0	35.7	3.1	135	109.2	-3.89	-24.82	---	---	Closed Valve 1/2 Turn or Less,Surging In Header,,,,,
8/17/2018 10:20	39.3	25	0	35.7	2.7	135.1	101.2	-3.32	-24.82	---	---	
8/29/2018 10:40	11.7	19	0.2	69.1	1.9	134.4	82.2	-2.24	-16.91	---	---	No Change.....
8/29/2018 10:40	11.7	19	0.2	69.1	1.8	134.4	79.4	-2.2	-16.91	---	---	
8/29/2018 10:43	11.4	19.1	0.1	69.4	1.8	134.4	80.6	-2.16	-18.3	---	---	Closed Valve > 1 Turn.....
8/29/2018 10:43	11.4	19.1	0.1	69.4	0.4	134.2	35.1	-0.34	-18.3	---	---	
9/12/2018 10:57	10.6	17.7	0	71.7	0.7	134.1	49.6	-1.05	-34.48	---	---	No Change.....
9/12/2018 10:57	10.6	17.7	0	71.7	0.8	134	53.3	-1.02	-34.48	---	---	
9/12/2018 10:59	10.3	17.7	0	72	0.3	134.1	33.6	-0.65	-34.8	---	---	Closed Valve 1/2 to 1 Turn,Surging In Header,,,,,
9/12/2018 10:59	10.3	17.7	0	72	0.1	133.8	17.8	-0.15	-34.8	---	---	
9/12/2018 11:02	10.3	17.5	0	72.2	0.5	133.7	40.7	-0.42	-32.59	---	---	No Change.....
9/12/2018 11:02	10.3	17.5	0	72.2	0.5	133.7	39.9	-0.51	-32.59	---	---	
10/9/2018 11:04	19.6	18.7	0	61.7	0.1	128.5	21.3	0.14	-32.4	---	---	No Change.....
10/9/2018 11:04	19.6	18.7	0	61.7	0	128.8	12.6	0.14	-32.4	---	---	
10/9/2018 11:09	17.6	18.4	0	64	0.1	128.6	13.2	-0.07	-31.32	---	---	Opened Valve 1/2 Turn or Less,Surging In Header,,,,,
10/9/2018 11:09	17.6	18.4	0	64	0.1	130.2	13.7	-0.01	-31.32	---	---	
10/25/2018 10:19	51.7	26	0	22.3	0.3	128.7	32.1	-0.09	-38.94	---	---	No Change.....
10/25/2018 10:19	51.7	26	0	22.3	0.3	128.4	32.3	-0.05	-38.94	---	---	
10/25/2018 10:24	53.2	25.9	0	20.9	0.2	128.8	28.8	0.2	-33.22	---	---	Opened Valve > 1Turn,Surging In Header,,,,,
10/25/2018 10:24	53.2	25.9	0	20.9	4.1	133.8	129.8	-5.34	-33.22	---	---	
10/25/2018 12:58	37.3	24.2	0	38.5	3.5	132.6	116	-4.49	-27.04	---	---	No Change.....
10/25/2018 12:58	37.3	24.2	0	38.5	3.6	132.5	118.6	-4.46	-27.04	---	---	
10/25/2018 13:02	37.6	24.5	0	37.9	3.5	132.5	116.8	-4.44	-25.92	---	---	Opened Valve 1/2 to 1 Turn.....
10/25/2018 13:02	37.6	24.5	0	37.9	4.3	132.5	128.6	-5.3	-25.92	---	---	
10/29/2018 10:09	12.4	20.1	0	67.5	3.1	133.3	104.4	-4.51	-19.73	---	---	No Change.....
10/29/2018 10:09	12.4	20.1	0	67.5	3.3	133.3	108.6	-4.52	-19.73	---	---	
10/29/2018 10:13	12.3	19.9	0	67.8	3.5	133.3	111.3	-4.13	-19.1	---	---	No Change.....
10/29/2018 10:13	12.3	19.9	0	67.8	3.1	133.3	104.8	-4.19	-19.1	---	---	
11/9/2018 10:00	16.3	19.4	0	64.3	3	133.7	104.3	-3.15	-12.93	---	---	No Change.....
11/9/2018 10:00	16.3	19.4	0	64.3	3.1	133.7	106.8	-3.13	-12.93	---	---	
11/9/2018 10:10	16.4	19.6	0	64	3.2	133.6	106.9	-3.01	-9.87	---	---	Valve 100% Open,Opened Valve > 1Turn,,,,,
11/9/2018 10:10	16.4	19.6	0	64	4.6	133.5	129.1	-4.7	-9.87	---	---	
12/15/2018 8:30	15.8	20.8	0	63.4	2.8	133.9	99.6	-4.05	-8.5	---	---	No Change.....
12/15/2018 8:30	15.8	20.8	0	63.4	2.9	133.9	102.2	-4.04	-8.5	---	---	
1/9/2019 12:13	17.7	21.4	0	60.9	2.7	26.1	126	-4.12	-8.2	---	---	No Change: :
1/9/2019 12:13	17.7	21.4	0	60.9	3.2	25.9	137.4	-4.1	-8.63	---	---	
2/25/2019 12:36	10.8	18	0.3	70.9	4.3	146.8	141.3	-5.8	-12.28	---	---	No Change: :
2/25/2019 12:36	10.8	18	0.3	70.9	4.5	146.8	144.3	-5.46	-11.47	---	---	
2/25/2019 12:37	10.9	18.1	0.3	70.7	4.5	146.7	143.7	-5.33	-11.47	---	---	Closed Valve > 1 turn: :
2/25/2019 12:37	10.9	18.1	0.3	70.7	2.3	147	103.6	-3.91	-16.28	---	---	
2/28/2019 14:47	15.2	19.2	0.2	65.3	1.7	145.8	88.8	-3.64	-15.13	---	---	No Change: :
2/28/2019 14:47	15.2	19.2	0.2	65.3	2.1	145.8	98.2	-3.99	-14.46	---	---	



2/28/2019 14:51	15.3	19.3	0.2	65.2	2.8	145.8	114.1	-4.02	-14.96	---	---	Closed Valve > 1 turn: :
2/28/2019 14:51	15.3	19.3	0.2	65.2	0.1	142.9	20.2	-0.1	-19.33	---	---	
2/28/2019 14:55	15.2	18.8	0	66.1	0.1	142.3	21.3	-0.12	-19.54	---	---	Closed Valve 1/2 turn or less: :
2/28/2019 14:55	15.2	18.8	0	66.1	0.1	140.7	17.4	-0.06	-20.05	---	---	
2/28/2019 15:02	14.1	18.7	0	67.2	0.1	139.3	20	-0.05	-19.46	---	---	No Change: :
2/28/2019 15:02	14.1	18.7	0	67.2	0.1	138.6	17.6	-0.05	-19.75	---	---	
3/1/2019 10:01	10.6	18.2	0	71.2	0.6	137.5	53.8	-0.59	-19.21	---	---	No Change: :
3/1/2019 10:01	10.6	18.2	0	71.2	0.5	137.3	48.1	-0.48	-19.55	---	---	
3/1/2019 10:02	10.7	18.3	0	71	0.4	137.5	42.1	-0.36	-19.42	---	---	Closed Valve 1/2 to 1 turn, Valve barely open: :
3/1/2019 10:02	10.7	18.3	0	71	0.3	133.9	36.6	-0.25	-21.12	---	---	
3/1/2019 10:04	10.8	18.4	0	70.8	0.2	124.3	30	-0.26	-19.46	---	---	No Change: :
3/1/2019 10:04	10.8	18.4	0	70.8	0.1	124	26.6	-0.23	-21.08	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

Arbor Hills Landfill  
 Gas Extraction Well Head Monitoring

Well Number: AHWW0311 / AHWW0311

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/25/2016 16:21	16.1	12.8	0.6	70.5	1.5	118	79	-1.6	-4.55	0	---	Valve 100% Open;No Change : :
8/25/2016 16:21	16.1	12.8	0.6	70.5	1.5	118	79	-1.7	-4.55	0	---	
8/25/2016 16:24	23.5	18.5	0	58	0.5	114	47	-0.1	-11.14	0	---	Closed Valve > 1 Turn: :
8/25/2016 16:24	23.5	18.5	0	58	0.5	116	43	-0.1	-11.14	0	---	
9/14/2016 16:18	17.9	15.9	0.1	66.1	0.4	115	37	-0.5	-11.05	0	---	No Change : :
9/14/2016 16:18	17.9	15.9	0.1	66.1	0.3	116	35	-0.5	-11.05	0	---	
9/14/2016 16:22	18.7	16.4	0	64.9	0.2	115	29	-0.4	-10.56	0	---	Closed Valve 1/2 Turn or Less: :
9/14/2016 16:22	18.7	16.4	0	64.9	0.3	115	33	-0.4	-10.56	0	---	
10/15/2016 15:43	24.7	21.1	0	54.2	1.2	110	69	-1.2	-7.42	0	---	No Change ;Header Vacuum Loss: :
10/15/2016 15:43	24.7	21.1	0	54.2	1	111	62	-0.9	-7.42	0	---	
10/15/2016 15:46	18.6	17.1	0	64.3	1.8	114	84	-1.9	-3.36	0	---	Closed Valve 1/2 Turn or Less;Surging In Header;Header
10/15/2016 15:46	18.6	17.1	0	64.3	1.7	114	83	-1.9	-3.36	0	---	
11/4/2016 14:28	18	15.4	0.1	66.5	2.2	116	98	-2.5	-5.66	0	---	No Change;Header Vacuum Loss: :
11/4/2016 14:28	18	15.4	0.1	66.5	2.2	116	98	-2.6	-5.66	0	---	
11/4/2016 14:30	18.2	15.6	0	66.2	1.6	116	81	-1.7	-5.73	0	---	Closed Valve 1/2 to 1 Turn;Header Vacuum Loss: :
11/4/2016 14:30	18.2	15.6	0	66.2	1.5	116	81	-1.8	-5.73	0	---	
12/12/2016 16:32	23.8	18.8	0.3	57.1	3	96	114	-3	-8.2	0	---	No Change ;Header Vacuum Loss: :
12/12/2016 16:32	23.8	18.8	0.3	57.1	2.9	98	111	-3	-8.2	0	---	
12/12/2016 16:34	24.6	21	0	54.4	2.5	91	104	-2.2	-9.6	0	---	Closed Valve > 1 Turn: :
12/12/2016 16:34	24.6	21	0	54.4	2.5	91	104	-2.2	-9.6	0	---	
1/6/2017 13:09	15	16.1	0.1	68.8	1.1	73	67	-1	-24.78	0	---	No Change : :
1/6/2017 13:09	15	16.1	0.1	68.8	0.6	73	52	-0.9	-24.78	0	---	
1/6/2017 13:12	15.9	17.7	0	66.4	0.7	72	55	-0.6	-24.66	0	---	Closed Valve 1/2 to 1 Turn: :
1/6/2017 13:12	15.9	17.7	0	66.4	1	72	66	-0.9	-24.66	0	---	
2/1/2017 16:22	17.4	18.2	0	64.4	0.3	118	35	-0.2	-29.4	---	---	No Change : :
2/1/2017 16:22	17.4	18.2	0	64.4	0.3	118	34	-0.3	-29.4	---	---	
2/1/2017 16:22	17.4	18.2	0	64.4	0.3	118	35	-0.2	-29.4	0	---	No Change : :
2/1/2017 16:22	17.4	18.2	0	64.4	0.3	118	34	-0.3	-29.4	0	---	
2/1/2017 16:24	18.5	19.2	0	62.3	0	117	12	-0.1	-31.08	---	---	Closed Valve 1/2 Turn or Less: :
2/1/2017 16:24	18.5	19.2	0	62.3	0	117	10	0	-31.08	---	---	
2/1/2017 16:24	18.5	19.2	0	62.3	0	117	12	-0.1	-31.08	0	---	Closed Valve 1/2 Turn or Less: :
2/1/2017 16:24	18.5	19.2	0	62.3	0	117	10	0	-31.08	0	---	
2/2/2017 11:00	20.5	19.7	0.3	59.5	-1	108	---	-0.2	-29.11	0	---	No Change : :
2/2/2017 11:00	20.5	19.7	0.3	59.5	-1.1	108	---	-0.1	-29.11	0	---	
2/2/2017 11:00	20.5	19.7	0.3	59.5	-1	108	---	-0.2	-29.11	---	---	No Change : :
2/2/2017 11:00	20.5	19.7	0.3	59.5	-1.1	108	---	-0.1	-29.11	---	---	
2/2/2017 11:11	20.5	19.7	0.3	59.5	-1	108	---	-0.2	0.07	0	---	Closed Valve 1/2 Turn or Less.....: :
2/2/2017 11:11	20.5	19.7	0.3	59.5	-1.3	0	---	0	0.07	0	---	
2/2/2017 11:11	20.5	19.7	0.3	59.5	-1	108	---	-0.2	0.07	---	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:11	20.5	19.7	0.3	59.5	-1.3	0	---	0	0.07	---	---	
2/3/2017 14:41	24.1	22.6	0.3	53	0.3	109	34	-0.1	-29.45	0	---	No Change : :
2/3/2017 14:41	24.1	22.6	0.3	53	0.5	109	42	-0.3	-29.45	0	---	

2/3/2017 14:41	24.1	22.6	0.3	53	0.3	109	34	-0.1	-29.45	---	---	No Change : :
2/3/2017 14:41	24.1	22.6	0.3	53	0.5	109	42	-0.3	-29.45	---	---	
3/7/2017 14:01	42.5	28.7	0.2	28.6	0.1	101	15	0	-36.83	---	---	No Change .....
3/7/2017 14:01	42.5	28.7	0.2	28.6	0	101	13	0	-36.83	---	---	
3/7/2017 14:03	39.6	27.8	0	32.6	0.4	106	43	-0.3	-36.36	---	---	Opened Valve 1/2 to 1 Turn.....
3/7/2017 14:03	39.6	27.8	0	32.6	0.4	106	39	-0.3	-36.36	---	---	
4/7/2017 10:51	34.7	24.6	0.1	40.6	0.8	111	58	-1.1	-35.37	---	---	No Change .....
4/7/2017 10:51	34.7	24.6	0.1	40.6	1.2	111	69	-1.2	-35.37	---	---	
4/7/2017 10:56	37.7	25.3	0	37	0	111	6	-0.5	-35.31	---	---	Closed Valve 1/2 Turn or Less.....
4/7/2017 10:56	37.7	25.3	0	37	0	111	6	-0.5	-35.31	---	---	
5/9/2017 15:21	42.1	26	0	31.9	0.2	118.6	24.4	-0.32	-29.52	---	3157	No Change .Valve Barely Open.....
5/9/2017 15:21	42.1	26	0	31.9	0.1	118.7	21.9	-0.29	-29.52	---	3157	
6/12/2017 10:45	25.5	20.2	0.3	54	0.9	121	61	-0.7	-34.46	---	---	No Change .....
6/12/2017 10:45	25.5	20.2	0.3	54	1	121	63	-0.9	-34.46	---	---	
6/12/2017 10:47	27.2	20.8	0.2	51.8	0.1	121	23	-0.2	-33.77	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
6/12/2017 10:47	27.2	20.8	0.2	51.8	0.3	121	36	-0.3	-33.77	---	---	
7/18/2017 13:22	29.4	21.5	0.8	48.3	0.3	120	38	-0.2	-31.95	---	---	No Change,Valve Barely Open.....
7/18/2017 13:22	29.4	21.5	0.8	48.3	0.3	120	37	-0.2	-31.95	---	---	
8/15/2017 16:35	28.2	20.8	0.3	50.7	0.3	120	33	-0.2	-37.55	---	---	No Change ,Valve Barely Open.....
8/15/2017 16:35	28.2	20.8	0.3	50.7	0.2	120	30	-0.2	-37.55	---	---	
9/25/2017 15:22	29.6	21.3	0.3	48.8	0.6	120	49	-0.2	-34.61	---	---	No Change .Valve Barely Open.....
9/25/2017 15:22	29.6	21.3	0.3	48.8	0.7	121	52	-0.3	-34.61	---	---	
10/19/2017 17:05	45.6	28.5	0.1	25.8	0.4	111	43	-0.2	-30.98	---	---	No Change .Valve Barely Open.....
10/19/2017 17:05	45.6	28.5	0.1	25.8	0.6	111	51	-0.3	-30.98	---	---	
11/16/2017 15:50	37.7	28.3	0	34	0.4	109	43	-0.1	-33.3	---	---	No Change .Valve Barely Open.....
11/16/2017 15:50	37.7	28.3	0	34	0.6	109	48	-0.2	-33.3	---	---	
12/22/2017 12:51	47.7	30.5	0.1	21.7	0.4	120	38	-0.5	-32.2	---	---	No Change .....
12/22/2017 12:51	47.7	30.5	0.1	21.7	0.4	120	39	-0.6	-32.2	---	---	
12/22/2017 12:53	42.4	28.6	0.1	28.9	0.1	117	15	-0.2	-33.79	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
12/22/2017 12:53	42.4	28.6	0.1	28.9	0.1	117	17	-0.2	-33.79	---	---	
1/15/2018 15:36	37.2	25.6	0	37.2	1.2	116	70	-1.6	-33.63	---	---	No Change .Valve Barely Open.....
1/15/2018 15:36	37.2	25.6	0	37.2	1.1	116	66	-1.6	-33.63	---	---	
2/9/2018 11:25	51.6	30.8	1.4	16.2	0.9	118	62	-0.3	-31.21	---	---	No Change .....
2/9/2018 11:25	51.6	30.8	1.4	16.2	0.8	118	58	-0.5	-31.21	---	---	
3/6/2018 15:47	26.1	21.3	0	52.6	0.2	124	27	-0.2	-29.36	---	---	No Change,Valve Barely Open.....
3/6/2018 15:47	26.1	21.3	0	52.6	0.2	124	26	-0.2	-29.36	---	---	
4/9/2018 15:31	38.6	25.3	0.2	35.9	0.7	129	54	-1.1	-33.77	---	---	No Change .....
4/9/2018 15:31	38.6	25.3	0.2	35.9	0.7	129	52	-1.1	-33.77	---	---	
4/9/2018 15:33	41.8	26.3	0	31.9	0.4	127	39	-0.2	-33.5	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/9/2018 15:33	41.8	26.3	0	31.9	0.3	127	33	-0.3	-33.5	---	---	
5/14/2018 15:28	48.9	28.7	0	22.4	1.2	123.9	68.9	-0.44	-29.35	---	928	No Change.....
5/14/2018 15:28	48.9	28.7	0	22.4	1.2	124	68.8	-0.44	-29.35	---	928	
5/31/2018 12:40	65.5	29.7	0.1	4.7	0.5	84.9	49.2	-0.01	-38.97	---	---	Opened Valve 1/2 to 1 turn: wfc:
5/31/2018 12:40	65.5	29.7	0.1	4.7	0.6	108.7	54.1	-0.66	-37.66	---	---	
5/31/2018 12:41	64.7	30.8	0.1	4.4	0.8	118.2	62.8	-0.71	-37.83	---	---	second read:
5/31/2018 12:41	64.7	30.8	0.1	4.4	0.6	118.4	51.6	-0.44	-37.45	---	---	
6/4/2018 11:52	38.9	25.8	0	35.3	0.4	126.9	45	-0.8	-28.8	---	---	Closed Valve 1/2 turn or less: BARELY OPEN BAD VALV
6/4/2018 11:52	38.9	25.8	0	35.3	0.3	125.4	37.1	-0.95	-32.91	---	---	
6/21/2018 16:15	42.1	26.1	0	31.8	0.3	127.8	35.5	-0.1	-36.18	---	---	No Change,Valve Barely Open.....
6/21/2018 16:15	42.1	26.1	0	31.8	0.3	127.8	35.3	-0.09	-36.18	---	---	
7/17/2018 15:00	42.9	26.5	0	30.6	0.3	128.4	36.4	0.02	-47.11	---	---	Valve 100% Open,No Change,Surging In Header.....
7/17/2018 15:00	42.9	26.5	0	30.6	0.3	129	33	-0.1	-47.11	---	---	

8/16/2018 10:27	31.6	24.1	0	44.3	1.5	130.8	74.7	-1.41	-7.94	---	---	No Change.....
8/16/2018 10:27	31.6	24.1	0	44.3	1.5	130.8	74.7	-1.38	-7.94	---	---	
8/16/2018 10:29	31.3	24.2	0	44.5	1.5	130.4	74.9	-1.31	-8.04	---	---	Closed Valve 1/2 to 1 Turn.....
8/16/2018 10:29	31.3	24.2	0	44.5	1	130	59.6	-0.71	-8.04	---	---	
8/17/2018 10:59	29.9	22.3	0	47.8	2.1	131.1	89	-2.04	-16.33	---	---	No Change.....
8/17/2018 10:59	29.9	22.3	0	47.8	2.2	131.2	90.5	-2.04	-16.33	---	---	
8/17/2018 11:02	29.7	22.2	0	48.1	1.9	130.8	85.2	-1.76	-17.94	---	---	Closed Valve 1/2 Turn or Less.....
8/17/2018 11:02	29.7	22.2	0	48.1	1.6	130.7	77.1	-1.39	-17.94	---	---	
8/30/2018 15:10	33.4	22.6	0	44	1.4	132.1	14.6	-0.06	-20.65	---	---	No Change: :
8/30/2018 15:10	33.4	22.6	0	44	1.4	132.3	14.6	-0.03	-21.46	---	---	
8/30/2018 15:12	33	22.9	0	44.1	1.1	132.1	13.3	-0.07	-21.03	---	---	Closed Valve 1/2 turn or less: :
8/30/2018 15:12	33	22.9	0	44.1	1.2	132.3	13.8	-0.02	-20.99	---	---	
9/11/2018 14:10	28.2	22.3	0.1	49.4	3.8	133	119.6	-3.42	-23.81	---	---	No Change.....
9/11/2018 14:10	28.2	22.3	0.1	49.4	3.7	132.8	118.3	-3.54	-23.81	---	---	
9/11/2018 14:14	28	22.3	0.3	49.4	3.6	133.2	116.8	-3.2	-24.8	---	---	Closed Valve > 1 Turn.....
9/11/2018 14:14	28	22.3	0.3	49.4	2.3	130.9	92.5	-1.87	-24.8	---	---	
9/11/2018 14:16	34.6	24.9	0	40.5	2.5	130.6	97.2	-2.44	-24.2	---	---	No Change.....
9/11/2018 14:16	34.6	24.9	0	40.5	2.7	130.5	101.6	-2.45	-24.2	---	---	
9/12/2018 11:15	39	25.8	0	35.2	-0.5	127.5	---	0.6	-24.11	---	---	No Change.....
9/12/2018 11:15	39	25.8	0	35.2	-0.5	127.7	---	0.58	-24.11	---	---	
9/12/2018 11:19	37.9	25.5	0.1	36.5	-0.8	127.4	---	0.78	-21.55	---	---	Opened Valve 1/2 to 1 Turn.....
9/12/2018 11:19	37.9	25.5	0.1	36.5	0	131.3	13.1	-0.02	-21.55	---	---	
9/12/2018 11:26	31.3	23.4	0	45.3	2.7	131.9	100.3	-2.73	-22.72	---	---	Closed Valve 1/2 to 1 Turn.....
9/12/2018 11:26	31.3	23.4	0	45.3	2	130.7	86.9	-1.99	-22.72	---	---	
10/9/2018 8:41	35.8	24.9	0	39.3	1.9	129.6	85.7	-1.39	-24.16	---	---	No Change.....
10/9/2018 8:41	35.8	24.9	0	39.3	2	129.8	88.3	-1.47	-24.16	---	---	
10/25/2018 10:03	37.6	26	0	36.4	1	129.8	62.9	-0.93	-28.94	---	---	No Change.....
10/25/2018 10:03	37.6	26	0	36.4	1	129.5	62.7	-0.89	-28.94	---	---	
10/25/2018 10:08	36	26.3	0	37.7	1.1	129.7	63.4	-0.81	-28.04	---	---	Opened Valve > 1Turn.....
10/25/2018 10:08	36	26.3	0	37.7	4.7	132.3	133.9	-5.01	-28.04	---	---	
10/25/2018 12:47	30.3	20.5	0	49.2	4	132.7	124.4	-4.26	-22.94	---	---	No Change.....
10/25/2018 12:47	30.3	20.5	0	49.2	3.9	132.8	122.5	-4.22	-22.94	---	---	
10/25/2018 12:54	30.3	20.7	0	49	3.9	132.8	122.4	-4.13	-22.69	---	---	Opened Valve 1/2 Turn or Less.....
10/25/2018 12:54	30.3	20.7	0	49	5.7	133	147.2	-5.83	-22.69	---	---	
10/26/2018 11:36	26.6	20	0	53.4	4.3	132.4	128.2	-4.76	-17.55	---	---	No Change.....
10/26/2018 11:36	26.6	20	0	53.4	4.3	132.6	128.2	-4.73	-17.55	---	---	
10/26/2018 11:40	26	20.2	0	53.8	4.3	132.9	127	-4.79	-17.66	---	---	Opened Valve 1/2 Turn or Less.....
10/26/2018 11:40	26	20.2	0	53.8	6.4	133.1	155	-6.89	-17.66	---	---	
10/27/2018 9:55	26	19.9	0	54.1	5.6	133.1	145.5	-7.63	-16.32	---	---	No Change.....
10/27/2018 9:55	26	19.9	0	54.1	5.6	133	145.6	-7.58	-16.32	---	---	
10/27/2018 9:57	25.8	20	0	54.2	5.7	132.8	146.9	-6.14	-16.65	---	---	Closed Valve 1/2 to 1 Turn.....
10/27/2018 9:57	25.8	20	0	54.2	3.8	132.4	119.3	-4.11	-16.65	---	---	
10/29/2018 10:24	27.8	20.9	0	51.3	3.6	132.9	117.2	-4.02	-16.04	---	---	No Change.....
10/29/2018 10:24	27.8	20.9	0	51.3	3.6	133.1	117	-4.02	-16.04	---	---	
10/29/2018 10:29	27.3	20.7	0	52	3.6	133.2	116.9	-3.99	-15.64	---	---	Opened Valve 1/2 Turn or Less.....
10/29/2018 10:29	27.3	20.7	0	52	4.7	133.2	133.2	-5.12	-15.64	---	---	
11/1/2018 10:45	35.3	21.5	0	43.2	5.9	133.1	152.1	-6.29	-20.39	---	---	No Change.....
11/1/2018 10:45	35.3	21.5	0	43.2	5.9	133.1	152	-6.28	-20.39	---	---	
11/1/2018 10:50	34.7	21.5	0	43.8	6	133	152.6	-6.4	-20.14	---	---	Opened Valve > 1Turn.....
11/1/2018 10:50	34.7	21.5	0	43.8	8	133.4	176.2	-8.57	-20.14	---	---	
11/3/2018 9:14	37.4	22.8	0	39.8	8.7	134.7	184	-9.32	-21.56	---	---	No Change.....
11/3/2018 9:14	37.4	22.8	0	39.8	8.8	134.7	185.2	-9.33	-21.56	---	---	

11/3/2018 9:19	37.6	22.7	0	39.7	8.9	134.7	186	-9.41	-22.59	---	---	Opened Valve > 1Turn,.....
11/3/2018 9:19	37.6	22.7	0	39.7	8.9	134.6	186	-14.93	-22.59	---	---	
11/3/2018 9:22	37.2	22.6	0	40.2	---	135	---	-15.39	-22.85	---	---	No Change,.....
11/3/2018 9:22	37.2	22.6	0	40.2	---	135	---	-15.37	-22.85	---	---	
11/6/2018 9:41	39.3	24.1	0	36.6	---	135.1	---	-15.13	-24.68	---	---	No Change,.....
11/6/2018 9:41	39.3	24.1	0	36.6	---	135.3	---	-15.15	-24.68	---	---	
11/6/2018 9:46	39.3	24.1	0	36.6	---	135.4	---	-15.4	-23.31	---	---	Opened Valve > 1Turn,.....
11/6/2018 9:46	39.3	24.1	0	36.6	---	135.3	---	-18.46	-23.31	---	---	
11/6/2018 9:52	39.3	24	0	36.7	---	135.4	---	-18.57	-23.38	---	---	No Change,.....
11/6/2018 9:52	39.3	24	0	36.7	---	135.4	---	-18.58	-23.38	---	---	
11/7/2018 10:19	39.4	24.6	0	36	---	135.5	---	-17.21	-21.08	---	---	No Change,.....
11/7/2018 10:19	39.4	24.6	0	36	---	135.5	---	-17.2	-21.08	---	---	
11/7/2018 10:24	39.4	24.4	0	36.2	---	135.4	---	-17.36	-19.14	---	---	Opened Valve > 1Turn,.....
11/7/2018 10:24	39.4	24.4	0	36.2	---	135.3	---	-20.39	-19.14	---	---	
11/7/2018 10:27	39.2	24.6	0	36.2	---	135.5	---	-20.54	-19.3	---	---	No Change,.....
11/7/2018 10:27	39.2	24.6	0	36.2	---	135.6	---	-20.56	-19.3	---	---	
12/15/2018 8:36	43.8	27.2	0	29	---	135.3	---	-12.41	-12.25	---	---	No Change,.....
12/15/2018 8:36	43.8	27.2	0	29	---	135.4	---	-12.45	-12.25	---	---	
1/9/2019 12:19	44.4	27.5	0	28.1	14.9	135.3	259.2	-15.83	-13.64	---	---	No Change: :
1/9/2019 12:19	44.4	27.5	0	28.1	15.3	136	262.6	-15.83	-13.77	---	---	
2/25/2019 12:43	38	25.4	0	36.6	13.2	136.4	244.2	-13.84	-11.26	---	---	
2/25/2019 12:43	38	25.4	0	36.6	13.3	136.4	244.5	-13.89	-11.77	---	---	
2/25/2019 12:43	38.2	25.6	0	36.2	13.2	136.4	244.4	-13.72	-11.56	---	---	Closed Valve > 1 turn: :
2/25/2019 12:43	38.2	25.6	0	36.2	0.2	133	33.8	-0.13	-13.85	---	---	

The following alternate standards have been approved for the following wells:

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW0312 / AHWW0312

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
8/18/2016 11:22	15	10.2	0	74.8	0.1	108	23	0.5	-43.67	0	---	No Change : :
8/18/2016 11:22	15	10.2	0	74.8	0.1	109	24	0.4	-43.67	0	---	
8/18/2016 11:26	6.7	8.8	0	84.5	0.4	111	40	-0.1	-38.19	0	---	Opened Valve 1/2 Turn or Less: :
8/18/2016 11:26	6.7	8.8	0	84.5	0.2	111	28	-0.1	-38.19	0	---	
8/22/2016 14:10	5.8	10.8	0	83.4	0.3	106	36	-0.4	-43.2	0	---	No Change : :
8/22/2016 14:10	5.8	10.8	0	83.4	0.2	106	30	-0.5	-43.2	0	---	
8/22/2016 14:13	6.6	10.9	0	82.5	0.1	106	22	-0.2	-42.02	0	---	Closed Valve 1/2 Turn or Less: :
8/22/2016 14:13	6.6	10.9	0	82.5	0.2	106	26	-0.2	-42.02	0	---	
9/14/2016 16:13	4.3	11.8	0.1	83.8	0.1	107	21	-0.1	-43.56	0	---	No Change : :
9/14/2016 16:13	4.3	11.8	0.1	83.8	0.2	107	25	-0.1	-43.56	0	---	
9/14/2016 16:15	4.7	11.9	0.1	83.3	0	107	7	-0.1	-43.23	0	---	Closed Valve 1/2 Turn or Less: :
9/14/2016 16:15	4.7	11.9	0.1	83.3	0.2	107	24	-0.2	-43.23	0	---	
10/15/2016 18:11	14	13.1	0	72.9	0.2	111	28	0	-17.18	0	---	No Change : :
10/15/2016 18:11	14	13.1	0	72.9	0.2	112	28	0	-17.18	0	---	
10/15/2016 18:13	7.1	12.7	0	80.2	0.1	113	15	-0.3	-16.3	0	---	Opened Valve 1/2 to 1 Turn: :
10/15/2016 18:13	7.1	12.7	0	80.2	0.1	113	18	-0.3	-16.3	0	---	
10/19/2016 14:40	5.1	13.4	0	81.5	0.5	93	43	-0.7	-36.47	0	---	No Change : :
10/19/2016 14:40	5.1	13.4	0	81.5	0.3	94	31	-0.7	-36.47	0	---	
10/19/2016 14:42	5.6	13.6	0	80.8	0.3	95	35	-0.3	-35.58	0	---	Closed Valve 1/2 Turn or Less: Valve Barely Open: :
10/19/2016 14:42	5.6	13.6	0	80.8	0.2	95	28	-0.3	-35.58	0	---	
11/4/2016 15:13	4.1	13.6	0	82.3	0.3	120	31	-0.3	-34.59	0	---	No Change: :
11/4/2016 15:13	4.1	13.6	0	82.3	0.3	120	32	-0.2	-34.59	0	---	
11/4/2016 15:15	6.1	13.7	0	80.2	0.1	119	22	-0.2	-35.38	0	---	Closed Valve 1/2 Turn or Less: :
11/4/2016 15:15	6.1	13.7	0	80.2	0.1	119	21	-0.1	-35.38	0	---	
12/12/2016 16:27	10.7	15.2	0.7	73.4	0.9	75	61	-0.8	-45.35	0	---	No Change : :
12/12/2016 16:27	10.7	15.2	0.7	73.4	0.9	75	61	-0.8	-45.35	0	---	
12/12/2016 16:29	14.9	15.7	0	69.4	0.9	73	63	-0.7	-44.78	0	---	Closed Valve 1/2 Turn or Less: :
12/12/2016 16:29	14.9	15.7	0	69.4	0.9	73	62	-0.7	-44.78	0	---	
1/12/2017 13:57	7.8	14	0.1	78.1	0.2	73	29	-0.5	-35.75	0	---	No Change : :
1/12/2017 13:57	7.8	14	0.1	78.1	0	73	29	-0.7	-35.75	0	---	
1/12/2017 13:59	5.9	13.8	0.1	80.2	0.1	72	15	-0.3	-35.58	0	---	Closed Valve 1/2 to 1 Turn: :
1/12/2017 13:59	5.9	13.8	0.1	80.2	0.1	72	17	-0.3	-35.58	0	---	
1/19/2017 12:08	9.6	16	0.4	74	0.1	93	17	-0.2	-36.14	0	---	No Change : :
1/19/2017 12:08	9.6	16	0.4	74	0.2	93	25	-0.2	-36.14	0	---	
2/2/2017 11:23	9.2	16.9	0.5	73.4	-0.8	77	---	-0.4	-39.5	---	---	No Change : :
2/2/2017 11:23	9.2	16.9	0.5	73.4	-0.8	77	---	-0.4	-39.5	---	---	
2/2/2017 11:23	9.2	16.9	0.5	73.4	-0.8	77	---	-0.4	-39.5	0	---	No Change : :
2/2/2017 11:23	9.2	16.9	0.5	73.4	-0.8	77	---	-0.4	-39.5	0	---	
2/2/2017 11:28	10.2	17.3	0	72.5	-1.4	75	---	-0.2	-39.55	---	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:28	10.2	17.3	0	72.5	-1.1	75	---	-0.5	-39.55	---	---	
2/2/2017 11:28	10.2	17.3	0	72.5	-1.4	75	---	-0.2	-39.55	0	---	Closed Valve 1/2 Turn or Less: :
2/2/2017 11:28	10.2	17.3	0	72.5	-1.1	75	---	-0.5	-39.55	0	---	

3/7/2017 13:57	23.7	16.5	0.1	59.7	0.1	111	18	-0.1	-38.39	---	---	No Change ,Valve Barely Open,,,,,
3/7/2017 13:57	23.7	16.5	0.1	59.7	0.2	111	25	-0.2	-38.39	---	---	
4/7/2017 10:37	26.8	18.8	0.6	53.8	0	96	---	-0.3	-43.07	---	---	No Change ,Valve Barely Open,,,,,
4/7/2017 10:37	26.8	18.8	0.6	53.8	0.2	96	26	-0.3	-43.07	---	---	
5/9/2017 15:28	23.1	16.3	0	60.6	0	126.8	8.8	-0.08	-37.1	---	1263	No Change ,Valve Barely Open,,,,,
5/9/2017 15:28	23.1	16.3	0	60.6	0	126.8	9.7	-0.08	-37.1	---	1263	
6/12/2017 10:59	14.6	12.8	0.3	72.3	0.2	130	30	-0.2	-41.4	---	---	No Change ,Valve Barely Open,,,,,
6/12/2017 10:59	14.6	12.8	0.3	72.3	0.2	130	24	-0.1	-41.4	---	---	
7/18/2017 13:35	19	15.1	0.3	65.6	0.2	129	31	-0.3	-38.25	---	---	No Change,Valve Barely Open,,,,,
7/18/2017 13:35	19	15.1	0.3	65.6	0.3	129	33	-0.3	-38.25	---	---	
8/15/2017 16:38	16.7	14.5	0.2	68.6	0.1	131	15	-0.1	-44.71	---	---	No Change .....
8/15/2017 16:38	16.7	14.5	0.2	68.6	0.1	132	22	-0.1	-44.71	---	---	
8/15/2017 16:41	17.1	14.6	0.1	68.2	0.1	131	22	0	-44.89	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
8/15/2017 16:41	17.1	14.6	0.1	68.2	0.1	132	18	0	-44.89	---	---	
8/15/2017 16:45	12.2	13.7	0.1	74	0.1	133	21	-0.2	-43.85	---	---	Opened Valve 1/2 Turn or Less,,,,,
8/15/2017 16:45	12.2	13.7	0.1	74	0.1	133	18	-0.1	-43.85	---	---	
8/30/2017 9:22	16.5	15.7	0.2	67.6	0.3	135	35	-0.4	-47.79	---	---	No Change .....
8/30/2017 9:22	16.5	15.7	0.2	67.6	0.4	136	39	-0.3	-47.79	---	---	
8/30/2017 9:25	12.1	14.8	0.2	72.9	1.2	136	68	-1.3	-48.15	---	---	Opened Valve 1/2 Turn or Less,,,,,
8/30/2017 9:25	12.1	14.8	0.2	72.9	0.8	137	55	-1.3	-48.15	---	---	
9/14/2017 10:28	12.2	14.7	0.7	72.4	1	140	61	-1.3	-43.11	---	---	No Change .....
9/14/2017 10:28	12.2	14.7	0.7	72.4	0.9	141	57	-1.3	-43.11	---	---	
9/14/2017 10:31	11.3	14.6	0.4	73.7	1.5	140	75	-2.2	-45.67	---	---	Opened Valve 1/2 Turn or Less,,,,,
9/14/2017 10:31	11.3	14.6	0.4	73.7	1.9	141	84	-2.4	-45.67	---	---	
9/29/2017 13:26	7.1	13.4	1.6	77.9	1.8	141	82	-2.2	-48.53	---	---	No Change .....
9/29/2017 13:26	7.1	13.4	1.6	77.9	2	142	87	-2	-48.53	---	---	
10/13/2017 12:17	50.9	22	0.2	26.9	0.5	125	47	-0.4	-48.82	---	---	No Change .....
10/13/2017 12:17	50.9	22	0.2	26.9	0.5	126	47	-0.4	-48.82	---	---	
11/16/2017 15:52	40.1	23.7	0	36.2	1	87	66	-0.7	-44.65	---	---	No Change ,Valve Barely Open,,,,,
11/16/2017 15:52	40.1	23.7	0	36.2	1	87	67	-0.7	-44.65	---	---	
11/16/2017 15:54	40.1	23.8	0	36.1	0.9	87	62	-0.4	-44.92	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
11/16/2017 15:54	40.1	23.8	0	36.1	0.9	87	64	-0.5	-44.92	---	---	
12/22/2017 12:58	59.6	25.4	0	15	0.3	86	37	-0.5	-47.32	---	---	No Change .....
12/22/2017 12:58	59.6	25.4	0	15	0.5	86	47	-0.5	-47.32	---	---	
12/22/2017 13:00	50.3	23.6	0	26.1	0.7	95	56	-1.1	-47.96	---	---	Opened Valve 1/2 Turn or Less,,,,,
12/22/2017 13:00	50.3	23.6	0	26.1	0.8	95	61	-1.1	-47.96	---	---	
1/15/2018 15:38	56.5	23.7	0.1	19.7	0.1	85	22	-0.7	-47.91	---	---	No Change .....
1/15/2018 15:38	56.5	23.7	0.1	19.7	0.1	85	15	-0.7	-47.91	---	---	
1/15/2018 15:40	38.3	20.8	0	40.9	0.7	85	57	-1.4	-47.57	---	---	Opened Valve 1/2 Turn or Less,,,,,
1/15/2018 15:40	38.3	20.8	0	40.9	0.5	85	48	-1.4	-47.57	---	---	
2/9/2018 11:18	25.4	17.7	1.1	55.8	0.3	79	38	-0.2	-47.31	---	---	No Change ,Valve Barely Open,,,,,
2/9/2018 11:18	25.4	17.7	1.1	55.8	0.5	79	48	-0.3	-47.31	---	---	
3/6/2018 15:50	15.2	15.9	0	68.9	0.1	108	24	-0.2	-43.88	---	---	No Change,Valve Barely Open,,,,,
3/6/2018 15:50	15.2	15.9	0	68.9	0.2	108	24	-0.2	-43.88	---	---	
4/9/2018 15:25	43.5	19.1	0.1	37.3	0.3	94	35	-0.5	-48.31	---	---	No Change .....
4/9/2018 15:25	43.5	19.1	0.1	37.3	0.2	94	31	-0.4	-48.31	---	---	
4/9/2018 15:28	46.5	19.9	0	33.6	0	94	12	-0.3	-49.78	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
4/9/2018 15:28	46.5	19.9	0	33.6	0.1	94	21	-0.3	-49.78	---	---	
5/14/2018 15:36	31.5	18	0	50.5	0.5	135.3	45	-0.12	-43.09	---	821	No Change,Valve Barely Open,,,,,
5/14/2018 15:36	31.5	18	0	50.5	0.6	135.6	46.6	-0.14	-43.09	---	821	
5/14/2018 15:38	27	16.8	0	56.2	0.4	135.8	40.3	-0.06	-46.57	---	728	Closed Valve 1/2 Turn or Less,Valve Barely Open,,,,,
5/14/2018 15:38	27	16.8	0	56.2	0.4	135.7	40.1	-0.07	-46.57	---	728	

5/25/2018 14:00	25.4	16.8	0	57.8	0.4	138	39.3	-0.08	-44.69	---	903	No Change,Valve Barely Open.....
5/25/2018 14:00	25.4	16.8	0	57.8	0.4	138.1	39.4	-0.11	-44.69	---	903	
5/31/2018 12:28	67.3	22.9	0.1	9.7	0	85.1	8.8	0.2	-50.25	---	---	
5/31/2018 12:28	67.3	22.9	0.1	9.7	0	---	8.8	0.2	-50.25	---	---	
5/31/2018 12:35	67	26.5	0.1	6.4	0	84.2	0	0.22	-53.6	---	---	Opened Valve > 1 turn,Closed Valve 1/2 turn or less: wfc:
5/31/2018 12:35	67	26.5	0.1	6.4	0.3	123.8	36.3	-0.13	-53.31	---	---	
5/31/2018 12:36	65.6	25	0.1	9.3	0.2	129.6	27.8	-0.1	-53.01	---	---	Opened Valve 1/2 turn or less,Opened Valve 1/2 to 1 turn:
5/31/2018 12:36	65.6	25	0.1	9.3	0.3	130.5	34.8	-0.25	-52.16	---	---	
6/21/2018 16:17	19.9	16.6	0.2	63.3	0.3	138.7	32.4	-0.33	-49.73	---	---	No Change.....
6/21/2018 16:17	19.9	16.6	0.2	63.3	0.3	138.7	33	-0.3	-49.73	---	---	
6/21/2018 16:20	16.4	15.4	0	68.2	0.2	138.3	26.2	-0.13	-49.69	---	---	Opened Valve 1/2 Turn or Less,Valve Barely Open.....
6/21/2018 16:20	16.4	15.4	0	68.2	0.2	138.2	26	-0.12	-49.69	---	---	
7/14/2018 8:09	19.6	18.3	0.2	61.9	0.1	140.6	---	-0.16	-56.96	---	920	Closed Valve 1/2 Turn or Less.....
7/14/2018 8:09	19.6	18.3	0.2	61.9	0	140.4	3.5	-0.18	-56.96	---	920	
8/16/2018 10:17	30.8	20.4	0	48.8	0.9	136.6	58.3	-0.62	-16.07	---	---	No Change.....
8/16/2018 10:17	30.8	20.4	0	48.8	0.9	136.8	57.8	-0.61	-16.07	---	---	
8/16/2018 10:21	32.5	20.7	0	46.8	1.1	136.8	63.4	-0.82	-19.82	---	---	Closed Valve 1/2 Turn or Less.....
8/16/2018 10:21	32.5	20.7	0	46.8	0.8	136.3	53.8	-0.52	-19.82	---	---	
8/17/2018 11:14	29.9	20.7	0	49.4	1	136.7	59.9	-0.79	-30.57	---	---	No Change.....
8/17/2018 11:14	29.9	20.7	0	49.4	1	136.8	59.7	-0.78	-30.57	---	---	
8/17/2018 11:16	29.4	20.7	0	49.9	1	136.6	60.7	-0.8	-30.62	---	---	Closed Valve 1/2 Turn or Less.....
8/17/2018 11:16	29.4	20.7	0	49.9	0.9	136.6	58	-0.65	-30.62	---	---	
8/28/2018 9:26	24.5	20.6	0	54.9	0.9	136.6	56.5	-0.68	-32.23	---	---	No Change.....
8/28/2018 9:26	24.5	20.6	0	54.9	0.7	136.4	52.1	-0.66	-32.23	---	---	
8/28/2018 9:29	24.1	20.6	0	55.3	0.8	136.4	54	-0.58	-32.09	---	---	Closed Valve 1/2 to 1 Turn,Valve Barely Open,Surging In
8/28/2018 9:29	24.1	20.6	0	55.3	0.6	134.7	48	-0.45	-32.09	---	---	
8/28/2018 9:30	24.1	20.6	0	55.3	0.5	134.1	40.5	-0.25	-32.56	---	---	No Change.....
8/28/2018 9:30	24.1	20.6	0	55.3	0.5	134.6	41	-0.23	-32.56	---	---	
9/12/2018 10:43	31.5	22.1	0	46.4	1.1	135.1	65.2	-0.76	-36.84	---	---	No Change.....
9/12/2018 10:43	31.5	22.1	0	46.4	1.1	135	65.5	-0.81	-36.84	---	---	
9/12/2018 10:45	31.3	22.1	0	46.6	1.2	135.3	66.3	-0.88	-38.48	---	---	Closed Valve 1/2 Turn or Less.....
9/12/2018 10:45	31.3	22.1	0	46.6	1.1	134.8	63.7	-1	-38.48	---	---	
9/12/2018 10:48	34.2	22.7	0	43.1	0.9	133.8	58	-0.78	-36.63	---	---	No Change,Surging In Header.....
9/12/2018 10:48	34.2	22.7	0	43.1	1.3	133.6	71.4	-1.26	-36.63	---	---	
10/9/2018 9:11	45.5	26.4	0	28.1	4.5	130	133.8	-3.85	-40.56	---	---	No Change.....
10/9/2018 9:11	45.5	26.4	0	28.1	4.7	129.9	136.9	-4.4	-40.56	---	---	
10/25/2018 10:39	50.5	27.4	0	22.1	0.8	122.8	57.7	-0.5	-38.78	---	---	No Change.....
10/25/2018 10:39	50.5	27.4	0	22.1	0.8	123.2	56.4	-0.46	-38.78	---	---	
10/25/2018 10:51	50.7	27.6	0	21.7	2.3	124.4	97	-2.1	-36.38	---	---	Opened Valve > 1Turn.....
10/25/2018 10:51	50.7	27.6	0	21.7	5	131.9	142.7	-4.81	-36.38	---	---	
10/25/2018 13:46	25.1	21.2	0	53.7	2.6	136.7	97	-2.53	-37.27	---	---	No Change.....
10/25/2018 13:46	25.1	21.2	0	53.7	2.5	136.8	97	-2.54	-37.27	---	---	
10/25/2018 13:50	25.1	21.3	0	53.6	2.4	136.6	94.9	-2.57	-37.82	---	---	Opened Valve 1/2 to 1 Turn.....
10/25/2018 13:50	25.1	21.3	0	53.6	5.5	137.5	142.5	-5.63	-37.82	---	---	
10/27/2018 10:07	12.8	19.5	0	67.7	5.1	137.5	135.3	-5.35	-35.47	---	---	No Change.....
10/27/2018 10:07	12.8	19.5	0	67.7	5.3	137.5	136.7	-5.36	-35.47	---	---	
10/27/2018 10:12	12.7	19.6	0	67.7	5.2	137.7	135.5	-6.46	-35.26	---	---	Closed Valve 1/2 to 1 Turn.....
10/27/2018 10:12	12.7	19.6	0	67.7	2.7	136.1	97.4	-2.77	-35.26	---	---	
10/29/2018 9:17	12.5	18.7	0	68.8	2.9	137.1	101.6	-3.21	-37.85	---	---	No Change.....
10/29/2018 9:17	12.5	18.7	0	68.8	2.8	137	100.3	-3.19	-37.85	---	---	
10/29/2018 9:22	12.6	18.7	0	68.7	2.7	137.5	98.1	-3.07	-37.96	---	---	Closed Valve > 1 Turn.....
10/29/2018 9:22	12.6	18.7	0	68.7	0.7	134.9	51.1	-0.83	-37.96	---	---	



10/29/2018 9:48	19.5	21	0	59.5	0.9	131.5	56	-1.07	-38.76	---	---	No Change.....
10/29/2018 9:48	19.5	21	0	59.5	0.9	131.6	55.7	-1.02	-38.76	---	---	
10/29/2018 9:50	19.3	21	0	59.7	0.9	131.7	57.3	-0.9	-38.52	---	---	Opened Valve > 1Turn.....
10/29/2018 9:50	19.3	21	0	59.7	4.5	135.9	127.8	-4.95	-38.52	---	---	
11/1/2018 11:12	14.9	19.6	0	65.5	4.5	138.7	126.4	-4.66	-36.12	---	---	No Change.....
11/1/2018 11:12	14.9	19.6	0	65.5	4.4	138.7	124.9	-4.65	-36.12	---	---	
11/1/2018 11:17	14.8	19.5	0	65.7	4.6	138.8	128.4	-4.83	-37.66	---	---	Opened Valve > 1Turn.....
11/1/2018 11:17	14.8	19.5	0	65.7	9.7	139.7	186.3	-10.61	-37.66	---	---	
11/1/2018 11:20	11.9	18.9	0	69.2	9.7	139.8	185.5	-10.03	-36.18	---	---	No Change.....
11/1/2018 11:20	11.9	18.9	0	69.2	9.5	139.7	182.9	-10.08	-36.18	---	---	
11/3/2018 9:29	14.6	20	0	65.4	---	140	---	-10.72	-37.23	---	---	No Change.....
11/3/2018 9:29	14.6	20	0	65.4	---	140.1	---	-10.74	-37.23	---	---	
11/3/2018 9:34	14.5	19.9	0	65.6	---	140.2	---	-10.61	-18.86	---	---	Opened Valve > 1Turn,Surging In Header.....
11/3/2018 9:34	14.5	19.9	0	65.6	---	140.2	---	-15.27	-18.86	---	---	
11/3/2018 9:37	13.4	19.7	0	66.9	---	140.6	---	-18.96	-37.78	---	---	No Change.....
11/3/2018 9:37	13.4	19.7	0	66.9	---	140.6	---	-19.37	-37.78	---	---	
11/6/2018 10:08	16.6	21	0	62.4	---	140.6	---	-18.73	-38.5	---	---	No Change.....
11/6/2018 10:08	16.6	21	0	62.4	---	140.6	---	-18.71	-38.5	---	---	
11/6/2018 10:13	16.7	21	0	62.3	---	140.8	---	-19.06	-39.47	---	---	Opened Valve > 1Turn.....
11/6/2018 10:13	16.7	21	0	62.3	---	140.5	---	-25.98	-39.47	---	---	
11/6/2018 10:15	16.2	20.9	0	62.9	---	140.7	---	-26.65	-39.54	---	---	No Change.....
11/6/2018 10:15	16.2	20.9	0	62.9	---	140.7	---	-27.03	-39.54	---	---	
11/7/2018 10:38	15.9	21.3	0	62.8	---	140.7	---	-25.6	-37.74	---	---	No Change.....
11/7/2018 10:38	15.9	21.3	0	62.8	---	140.7	---	-24.76	-37.74	---	---	
11/7/2018 10:43	15.8	21.3	0	62.9	---	140.8	---	-25.31	-36.88	---	---	Opened Valve > 1Turn.....
11/7/2018 10:43	15.8	21.3	0	62.9	---	140.4	---	-31.57	-36.88	---	---	
11/7/2018 10:47	15.5	21.3	0	63.2	---	140.6	---	-31.53	-37.05	---	---	No Change.....
11/7/2018 10:47	15.5	21.3	0	63.2	---	140.5	---	-31.69	-37.05	---	---	
11/12/2018 9:42	13.7	20.1	0	66.2	---	142.4	---	-29.07	-34.48	---	---	No Change.....
11/12/2018 9:42	13.7	20.1	0	66.2	---	142.3	---	-28.62	-34.48	---	---	
11/12/2018 9:47	13.7	20.1	0	66.2	---	142.3	---	-29.25	-33.89	---	---	Opened Valve > 1Turn.....
11/12/2018 9:47	13.7	20.1	0	66.2	---	142.1	---	-33.28	-33.89	---	---	
12/14/2018 14:18	13.1	19.3	0	67.6	---	143.6	---	-28.28	-27.08	---	---	No Change.....
12/14/2018 14:18	13.1	19.3	0	67.6	---	143.6	---	-28.3	-27.08	---	---	
12/14/2018 14:24	13.1	19.3	0	67.6	---	143.4	---	-28.77	-25.99	---	---	Valve 100% Open,Opened Valve > 1Turn.....
12/14/2018 14:24	13.1	19.3	0	67.6	---	143.4	---	-32.59	-25.99	---	---	
12/14/2018 14:27	12.9	19.2	0	67.9	---	143.3	---	-32.91	-25.31	---	---	No Change.....
12/14/2018 14:27	12.9	19.2	0	67.9	---	143.3	---	-32.86	-25.31	---	---	
1/9/2019 11:10	15.4	21.6	0	63	29.2	133	62.9	-30.44	-25.67	---	---	No Change: :
1/9/2019 11:10	15.4	21.6	0	63	29.2	142.9	62.3	-31.08	-25.71	---	---	
2/25/2019 17:30	17.1	22.2	0	60.7	29	143.6	344.9	-30.19	-26.39	---	---	No Change: :
2/25/2019 17:30	17.1	22.2	0	60.7	28.8	143.8	344	-30.19	-26.26	---	---	
2/25/2019 17:31	17.4	21.6	0.1	60.9	28.9	143.8	345.4	-30.19	-26.82	---	---	Closed Valve > 1 turn: :
2/25/2019 17:31	17.4	21.6	0.1	60.9	6.6	143.4	174.7	-6.77	-28.64	---	---	

The following alternate standards have been approved for the following wells:

Arbor Hills Landfill  
 Gas Extraction Well Head Monitoring

Well Number: AHWW0315 / AHWW0315

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
5/20/2016 17:21	54.6	39.8	1.1	4.5	0.1	84	18	0	-23.52	0	---	No Change ::
5/20/2016 17:21	54.6	39.8	1.1	4.5	0.1	85	16	0	-23.52	0	---	
5/20/2016 17:24	49.2	36.6	2.6	11.6	0.2	91	30	-0.2	-25.13	0	---	Opened Valve 1/2 Turn or Less: :
5/20/2016 17:24	49.2	36.6	2.6	11.6	0.2	91	26	-0.2	-25.13	0	---	
5/20/2016 17:26	48.4	36	3	12.6	0.2	92	28	-0.1	-28.06	0	---	Closed Valve 1/2 Turn or Less: :
5/20/2016 17:26	48.4	36	3	12.6	0.2	92	30	-0.1	-28.06	0	---	
6/14/2016 13:56	31.1	33.2	0	35.7	0.4	113	38	0	-39.05	0	---	No Change ::
6/14/2016 13:56	31.1	33.2	0	35.7	0.4	113	37	0	-39.05	0	---	
6/14/2016 13:59	21.5	29	0	49.5	0.3	112	36	-0.1	-38.65	0	---	Opened Valve 1/2 Turn or Less: :
6/14/2016 13:59	21.5	29	0	49.5	0.3	113	34	-0.1	-38.65	0	---	
6/24/2016 14:43	19.3	24.6	1.9	54.2	0.4	116	37	0	-38.43	0	---	No Change ::
6/24/2016 14:43	19.3	24.6	1.9	54.2	0.5	116	42	0	-38.43	0	---	
6/24/2016 14:45	16.1	23	1.8	59.1	0.6	116	49	-0.2	-38.55	0	---	Opened Valve 1/2 Turn or Less: :
6/24/2016 14:45	16.1	23	1.8	59.1	0.5	116	45	-0.2	-38.55	0	---	
7/7/2016 12:44	51.2	41.8	0	7	0.2	118	26	0.4	-45.93	0	---	No Change ::
7/7/2016 12:44	51.2	41.8	0	7	0.2	119	24	0.4	-45.93	0	---	
7/7/2016 12:46	35.1	35.5	0	29.4	0.6	120	48	-0.1	-47.41	0	---	Opened Valve > 1Turn: :
7/7/2016 12:46	35.1	35.5	0	29.4	0.6	121	46	-0.1	-47.41	0	---	
8/8/2016 15:08	40.1	39.3	0	20.6	0.6	122	46	0	-39.68	0	---	No Change ::
8/8/2016 15:08	40.1	39.3	0	20.6	0.4	122	38	0	-39.68	0	---	
8/8/2016 15:11	27.8	31.1	0	41.1	0.8	122	54	-0.2	-40.07	0	---	Opened Valve 1/2 Turn or Less: :
8/8/2016 15:11	27.8	31.1	0	41.1	0.6	122	50	-0.2	-40.07	0	---	
9/14/2016 15:02	35.5	35.6	0	28.9	0.3	120	33	-0.2	-41.92	0	---	No Change ::
9/14/2016 15:02	35.5	35.6	0	28.9	0.3	121	32	-0.2	-41.92	0	---	
9/14/2016 15:05	33.8	34.8	0	31.4	0.2	120	28	-0.1	-44.75	0	---	Closed Valve 1/2 Turn or Less: :
9/14/2016 15:05	33.8	34.8	0	31.4	0.3	121	31	-0.1	-44.75	0	---	
10/14/2016 13:29	42.5	38.7	0	18.8	0.1	120	18	-0.1	-21.94	0	---	No Change ::
10/14/2016 13:29	42.5	38.7	0	18.8	0.1	121	16	-0.1	-21.94	0	---	
10/14/2016 13:31	44.2	39.4	0	16.4	0.1	120	19	-0.1	-21.29	0	---	Closed Valve 1/2 Turn or Less: :
10/14/2016 13:31	44.2	39.4	0	16.4	0	121	13	-0.1	-21.29	0	---	
10/18/2016 13:15	30	33.1	0	36.9	0.8	92	55	0.7	-34.99	0	---	No Change ::
10/18/2016 13:15	30	33.1	0	36.9	0.8	92	58	0.7	-34.99	0	---	
10/18/2016 13:19	19.2	28.4	0	52.4	1.3	94	72	-0.1	-34.23	0	---	Opened Valve 1/2 to 1 Turn: Valve Barely Open: :
10/18/2016 13:19	19.2	28.4	0	52.4	1.5	94	78	-0.3	-34.23	0	---	
11/4/2016 15:22	17.7	24.8	0.6	56.9	0.9	130	59	-1.1	-34.9	0	---	No Change ::
11/4/2016 15:22	17.7	24.8	0.6	56.9	0.9	130	58	-1.4	-34.9	0	---	
11/4/2016 15:25	21.7	26.7	0.5	51.1	0.4	129	39	-0.3	-36.41	0	---	Closed Valve > 1 Turn: :
11/4/2016 15:25	21.7	26.7	0.5	51.1	0.4	129	38	-0.3	-36.41	0	---	
12/12/2016 16:16	22.8	30	0.4	46.8	1.2	108	67	-1	-43.33	0	---	No Change ::
12/12/2016 16:16	22.8	30	0.4	46.8	1.1	108	64	-1	-43.33	0	---	
12/12/2016 16:18	25.1	31.2	0	43.7	0.8	107	57	-0.9	-43.52	0	---	Closed Valve 1/2 Turn or Less: :
12/12/2016 16:18	25.1	31.2	0	43.7	0.8	107	57	-0.9	-43.52	0	---	

1/5/2017 16:14	35.5	36.4	0.4	27.7	-0.1	97	---	-0.3	-38.31	0	---	No Change :
1/5/2017 16:14	35.5	36.4	0.4	27.7	-0.1	97	---	-0.2	-38.31	0	---	
1/5/2017 16:17	40.6	38.7	0	20.7	-0.3	98	---	-0.2	-39.09	0	---	Closed Valve 1/2 Turn or Less :
1/5/2017 16:17	40.6	38.7	0	20.7	-0.2	98	---	-0.2	-39.09	0	---	
2/9/2017 11:44	47.4	42.7	0.5	9.4	0.1	95	20	0	-35.87	---	---	No Change :
2/9/2017 11:44	47.4	42.7	0.5	9.4	0.1	95	21	0	-35.87	---	---	
2/9/2017 11:47	39.7	39.6	0	20.7	0.3	99	36	-0.2	-35.08	---	---	Opened Valve 1/2 Turn or Less: :
2/9/2017 11:47	39.7	39.6	0	20.7	0.6	99	47	-0.3	-35.08	---	---	
3/7/2017 13:41	30.1	35.5	0.2	34.2	0	104	---	-0.3	-38.17	---	---	No Change .....
3/7/2017 13:41	30.1	35.5	0.2	34.2	0.2	104	27	-0.3	-38.17	---	---	
3/7/2017 13:43	32.9	36.9	0	30.2	-0.1	102	---	-0.2	-39.14	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
3/7/2017 13:43	32.9	36.9	0	30.2	0	102	---	-0.1	-39.14	---	---	
4/7/2017 11:39	40.7	39	0.2	20.1	0.1	91	16	-0.5	-44.94	---	---	No Change .....
4/7/2017 11:39	40.7	39	0.2	20.1	0.8	91	56	-1.1	-44.94	---	---	
4/7/2017 11:40	45.7	41.2	0	13.1	-0.9	89	---	-0.1	-45.7	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
4/7/2017 11:40	45.7	41.2	0	13.1	-0.9	89	---	-0.2	-45.7	---	---	
5/15/2017 12:53	40.7	36.4	0	22.9	-0.7	117.7	---	-0.14	-37.58	---	467	No Change ,Valve Barely Open.....
5/15/2017 12:53	40.7	36.4	0	22.9	-0.3	118.2	---	-0.13	-37.58	---	467	
6/12/2017 14:28	26.7	29.4	0.5	43.4	0.3	118	35	-0.4	-43.23	---	---	No Change .....
6/12/2017 14:28	26.7	29.4	0.5	43.4	0.5	118	44	-0.4	-43.23	---	---	
6/12/2017 14:29	29.3	30.9	0.4	39.4	0.3	118	34	-0.2	-43.13	---	---	Closed Valve 1/2 Turn or Less,Valve Barely Open.....
6/12/2017 14:29	29.3	30.9	0.4	39.4	0.3	118	32	-0.1	-43.13	---	---	
7/18/2017 14:43	34.5	34.4	0.5	30.6	0.4	123	38	-0.2	-39.89	---	---	No Change,Valve Barely Open.....
7/18/2017 14:43	34.5	34.4	0.5	30.6	0.3	122	35	-0.1	-39.89	---	---	
8/15/2017 13:41	26.7	30.5	0.4	42.4	0	124	---	-0.1	-44.39	---	---	No Change ,Valve Barely Open.....
8/15/2017 13:41	26.7	30.5	0.4	42.4	0.1	125	21	-0.1	-44.39	---	---	
9/19/2017 16:17	22.5	28.2	1.7	47.6	0.3	130	30	-0.2	-39.48	---	---	No Change ,Valve Barely Open.....
9/19/2017 16:17	22.5	28.2	1.7	47.6	0.2	130	24	-0.2	-39.48	---	---	
10/19/2017 16:15	56.2	43.2	0.4	0.2	0.3	113	32	0	-45.16	---	---	No Change .....
10/19/2017 16:15	56.2	43.2	0.4	0.2	0.2	114	26	0	-45.16	---	---	
10/19/2017 16:17	51.1	42.2	0	6.7	0.2	125	28	-0.2	-45.25	---	---	Opened Valve 1/2 Turn or Less.....
10/19/2017 16:17	51.1	42.2	0	6.7	0.3	125	31	-0.1	-45.25	---	---	
11/16/2017 12:26	22.3	31.1	0.1	46.5	0.2	116	24	-0.3	-45.26	---	---	No Change ,Valve Barely Open.....
11/16/2017 12:26	22.3	31.1	0.1	46.5	0	116	9	-0.3	-45.26	---	---	
12/18/2017 15:21	53.2	46.2	0.5	1	0	39	3	-0.2	-53.7	---	---	No Change .....
12/18/2017 15:21	53.2	46.2	0.5	1	0	39	3	-0.2	-53.7	---	---	
12/18/2017 15:23	53.6	46.2	0	0.2	0.1	49	18	-0.4	-53.25	---	---	Opened Valve 1/2 Turn or Less.....
12/18/2017 15:23	53.6	46.2	0	0.2	0.1	49	23	-0.4	-53.25	---	---	
1/10/2018 16:24	43.8	40.8	0.2	15.2	8.2	111	187	-1.6	-35.09	---	---	No Change.....
1/10/2018 16:24	43.8	40.8	0.2	15.2	6.1	112	161	-1.5	-35.09	---	---	
1/10/2018 16:26	46.3	41.8	0	11.9	7.3	115	177	-0.7	-34.45	---	---	Closed Valve 1/2 to 1 Turn.....
1/10/2018 16:26	46.3	41.8	0	11.9	4.4	115	138	-0.7	-34.45	---	---	
1/12/2018 11:37	42.8	39.2	0.4	17.6	0	72	13	-0.2	-46.76	---	---	No Change ,Valve Barely Open.....
1/12/2018 11:37	42.8	39.2	0.4	17.6	0	72	7	-0.3	-46.76	---	---	
2/6/2018 14:07	20.9	28.8	0.7	49.6	0.3	100	34	-0.6	-48.07	---	---	No Change .....
2/6/2018 14:07	20.9	28.8	0.7	49.6	0.5	100	46	-0.7	-48.07	---	---	
2/6/2018 14:09	29.4	33	0	37.6	0.3	100	31	-0.4	-48.12	---	---	Closed Valve 1/2 Turn or Less.....
2/6/2018 14:09	29.4	33	0	37.6	0.4	100	37	-0.4	-48.12	---	---	
3/6/2018 15:01	34.9	36.1	0	29	0.4	96	42	-0.2	-46.48	---	---	No Change,Valve Barely Open.....
3/6/2018 15:01	34.9	36.1	0	29	0.2	96	25	-0.2	-46.48	---	---	
4/9/2018 14:26	28.7	32.5	0.3	38.5	-0.2	60	---	-0.5	-50.4	---	---	No Change .....
4/9/2018 14:26	28.7	32.5	0.3	38.5	-0.2	60	---	-0.6	-50.4	---	---	

4/9/2018 14:29	32.6	34.5	0	32.9	-0.5	60	---	-0.2	-49.19	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open,.....
4/9/2018 14:29	32.6	34.5	0	32.9	-0.5	60	---	-0.2	-49.19	---	---	
5/14/2018 16:32	51.5	41.7	0	6.8	0.5	124.9	43.6	-0.45	-45.72	---	569	No Change.....
5/14/2018 16:32	51.5	41.7	0	6.8	0.5	124.9	43.7	-0.43	-45.72	---	569	
5/31/2018 18:17	49	41.1	0.1	9.8	0	100.8	0	-9.17	-12.68	---	---	No Change.:
5/31/2018 18:17	49	41.1	0.1	9.8	0	100.8	0	-8.4	-11.92	---	---	
5/31/2018 19:18	37.6	34.5	0.1	27.8	0.4	121.5	41.8	-0.03	-51.61	---	---	Closed Valve 1/2 turn or less: barely open:
5/31/2018 19:18	37.6	34.5	0.1	27.8	0	120.9	14.5	-0.03	-52.16	---	---	
6/13/2018 15:03	27	30.6	0	42.4	0	119.9	---	-0.17	-49.39	---	---	No Change.Valve Barely Open.....
6/13/2018 15:03	27	30.6	0	42.4	0	120	---	-0.16	-49.39	---	---	
7/13/2018 10:22	37	40.7	0.1	22.2	0	124.7	10.5	0.05	-54.67	---	---	Closed Valve 1/2 to 1 Turn.....
7/13/2018 10:22	37	40.7	0.1	22.2	0	122.8	7.9	0.05	-54.67	---	---	
7/18/2018 15:05	48.4	37.7	0	13.9	3.8	120.8	121	-4.92	-10.51	---	---	Valve 100% Open.No Change.....
7/18/2018 15:05	48.4	37.7	0	13.9	3.8	120.9	120.6	-4.9	-10.51	---	---	
7/28/2018 12:30	48.2	39.9	0	11.9	-0.7	101.3	---	0.33	-46.15	---	---	Opened Valve > 1Turn.....
7/28/2018 12:30	48.2	39.9	0	11.9	0.2	125.6	29.5	-0.02	-46.15	---	---	
8/16/2018 9:40	24.8	30.9	0	44.3	0.2	123.4	23.6	-0.01	-26.13	---	---	No Change.....
8/16/2018 9:40	24.8	30.9	0	44.3	0.1	123.4	22.2	0.02	-26.13	---	---	
8/16/2018 9:43	25	30.9	0	44.1	0.2	123.5	24.4	-0.05	-26.68	---	---	Closed Valve 1/2 Turn or Less.Surging In Header.....
8/16/2018 9:43	25	30.9	0	44.1	0.2	123.8	24.1	-0.03	-26.68	---	---	
8/17/2018 14:16	22.3	29.6	0	48.1	0.2	124	27.7	-0.09	-30.26	---	---	No Change.....
8/17/2018 14:16	22.3	29.6	0	48.1	0.2	124	27.1	-0.06	-30.26	---	---	
9/11/2018 8:09	18	25.9	0.8	55.3	0	127.5	5.2	-0.32	-38.39	---	---	No Change.....
9/11/2018 8:09	18	25.9	0.8	55.3	0	127.4	4.9	-0.3	-38.39	---	---	
9/11/2018 8:11	17.6	25.8	0.7	55.9	0	127.7	7.3	-0.27	-38.01	---	---	Closed Valve 1/2 Turn or Less.Valve Barely Open,Surging
9/11/2018 8:11	17.6	25.8	0.7	55.9	-0.1	127.3	7.3	-0.16	-38.01	---	---	
10/4/2018 11:23	25.2	30.6	0	44.2	0.1	127.1	14.2	0.1	-33.96	---	---	No Change.....
10/4/2018 11:23	25.2	30.6	0	44.2	0	127.2	2	0.04	-33.96	---	---	
10/4/2018 11:24	24.7	30.6	0	44.7	-0.2	126.9	---	0.16	-32.79	---	---	Opened Valve 1/2 to 1 Turn.Surging In Header.....
10/4/2018 11:24	24.7	30.6	0	44.7	0.1	128.3	21.8	-0.09	-32.79	---	---	
10/4/2018 11:26	18.7	27.8	0	53.5	0.3	128.4	33.5	-0.07	-32.37	---	---	No Change.....
10/4/2018 11:26	18.7	27.8	0	53.5	0.2	128.4	27.9	-0.08	-32.37	---	---	
11/6/2018 14:15	27.9	31.8	0	40.3	1.4	131.8	70.3	-0.89	-35.39	---	---	No Change.....
11/6/2018 14:15	27.9	31.8	0	40.3	1.3	131.8	67.7	-0.87	-35.39	---	---	
11/6/2018 14:16	27.4	31.9	0	40.7	1.2	131.7	66.1	-0.52	-36.9	---	---	Opened Valve > 1Turn.....
11/6/2018 14:16	27.4	31.9	0	40.7	3.2	133.4	106	-3.52	-36.9	---	---	
11/6/2018 14:18	14.4	25.6	0	60	3.4	133.7	108	-3.87	-36.45	---	---	No Change.....
11/6/2018 14:18	14.4	25.6	0	60	3.3	133.7	107	-3.36	-36.45	---	---	
11/7/2018 14:01	7	15.7	7.8	69.5	3.5	135.4	110.6	-3.77	-35.32	---	---	No Change.....
11/7/2018 14:01	7	15.7	7.8	69.5	3.5	135.4	111.4	-3.75	-35.32	---	---	
11/7/2018 14:06	6.9	15.7	7.8	69.6	3.7	135.4	114.5	-3.79	-35.04	---	---	Opened Valve > 1Turn.....
11/7/2018 14:06	6.9	15.7	7.8	69.6	4.7	135.4	128.5	-5.33	-35.04	---	---	
11/7/2018 14:08	6.4	15.4	8	70.2	4.6	135.4	127.3	-5.55	-36.63	---	---	No Change.....
11/7/2018 14:08	6.4	15.4	8	70.2	4.5	135.5	125.7	-5.51	-36.63	---	---	
11/12/2018 10:21	5.8	13.1	8.8	72.3	4.8	137.9	130.3	-5.84	-36.88	---	---	No Change.....
11/12/2018 10:21	5.8	13.1	8.8	72.3	4.9	137.9	130.8	-5.85	-36.88	---	---	
11/12/2018 10:27	5.8	13.1	8.8	72.3	4.6	137.9	127	-5.59	-34.3	---	---	Opened Valve > 1Turn.....
11/12/2018 10:27	5.8	13.1	8.8	72.3	5.7	137.8	142.1	-7.33	-34.3	---	---	
12/13/2018 14:38	5.1	11.5	10.9	72.5	3.8	135.2	115.1	-6.09	-27.2	---	---	No Change.....
12/13/2018 14:38	5.1	11.5	10.9	72.5	4.1	135.2	120.5	-6.04	-27.2	---	---	
12/14/2018 15:40	5.9	12.1	10.1	71.9	4.1	135.3	120.8	-6.17	-23.93	---	---	No Change.....
12/14/2018 15:40	5.9	12.1	10.1	71.9	4.1	135.3	120.9	-6.14	-23.93	---	---	

12/14/2018 15:45	6	12.2	10	71.8	4.3	135.4	123.8	-6.13	-20.36	---	---	Opened Valve > 1Turn.....
12/14/2018 15:45	6	12.2	10	71.8	5.4	135.2	138.4	-8.08	-20.36	---	---	
12/14/2018 15:48	5.7	12.1	10.2	72	5.6	135.2	141.2	-8.26	-20.64	---	---	No Change.....
12/14/2018 15:48	5.7	12.1	10.2	72	5.6	135.2	141.1	-8.29	-20.64	---	---	
12/27/2018 13:16	6	11.9	9.9	72.2	5.8	134.2	143.7	-8.41	-23.03	---	---	No Change.....
12/27/2018 13:16	6	11.9	9.9	72.2	5.7	134.3	142.5	-8.39	-23.03	---	---	
12/27/2018 13:17	5.8	11.9	10	72.3	6.2	134.3	147.8	-8.52	-28.03	---	---	Closed Valve > 1 Turn.....
12/27/2018 13:17	5.8	11.9	10	72.3	0.4	133.8	37	-0.23	-28.03	---	---	
12/27/2018 13:22	13.6	16.8	8.9	60.7	0.5	133.2	40.4	-0.48	-28.79	---	---	No Change.....
12/27/2018 13:22	13.6	16.8	8.9	60.7	0.6	133.2	45.6	-0.5	-28.79	---	---	
1/11/2019 11:16	19	23.5	4.3	53.2	0	133	0	-0.31	-24.5	---	---	No Change: :
1/11/2019 11:16	19	23.5	4.3	53.2	0	132.8	0	-0.23	-23.91	---	---	
1/11/2019 11:17	17.6	23.2	4.4	54.9	0	133.2	0	-0.28	-24.93	---	---	Closed Valve 1/2 turn or less.Valve barely open: :
1/11/2019 11:17	17.6	23.2	4.4	54.9	0	132.3	0	-0.09	-25.65	---	---	
1/14/2019 10:44	21.1	26.4	2.7	49.8	0	130.5	0	-0.06	-28.52	---	---	No Change: :
1/14/2019 10:44	21.1	26.4	2.7	49.8	0	130.6	6.4	-0.07	-27.54	---	---	
1/14/2019 10:45	21.2	26.4	2.8	49.6	0	130.3	12.4	-0.11	-28.43	---	---	Opened Valve > 1 turn: :
1/14/2019 10:45	21.2	26.4	2.8	49.6	0.2	132.3	34.8	-0.26	-26.09	---	---	
1/14/2019 10:49	14.7	22.9	3.4	59	0.3	132.4	35.4	-0.27	-26.09	---	---	No Change: :
1/14/2019 10:49	14.7	22.9	3.4	59	0.2	132.6	32.8	-0.6	-26.52	---	---	
1/14/2019 14:54	15.3	22.5	3.7	58.5	0.3	133.2	35.1	-0.44	-26.43	---	---	No Change: :
1/14/2019 14:54	15.3	22.5	3.7	58.5	0.1	133.2	18.5	-0.63	-25.33	---	---	
1/15/2019 9:12	13.4	21.8	4.9	59.9	0.3	133.2	35.6	-0.36	-26.31	---	---	No Change: :
1/15/2019 9:12	13.4	21.8	4.9	59.9	0	132.6	10.2	-0.5	-26.9	---	---	
1/15/2019 9:13	13.4	21.9	4.8	59.9	0.3	133.2	35.8	-0.41	-26.26	---	---	Opened Valve > 1 turn: :
1/15/2019 9:13	13.4	21.9	4.8	59.9	0.9	134.2	64.6	-1.57	-26.94	---	---	
1/15/2019 9:16	7	17.8	5.8	69.4	0.9	134.4	66.9	-1.48	-25.84	---	---	Closed Valve > 1 turn: :
1/15/2019 9:16	7	17.8	5.8	69.4	0.6	133.7	54.4	-0.37	-26.69	---	---	
1/15/2019 9:19	14.4	22.4	4.7	58.5	0.1	132.1	26.2	-0.28	-26.22	---	---	No Change: :
1/15/2019 9:19	14.4	22.4	4.7	58.5	0.4	132.3	44	-0.37	-26.22	---	---	
1/15/2019 15:33	13.5	23.5	4.6	58.4	0	132.4	0	-0.33	-26.22	---	---	No Change: :
1/15/2019 15:33	13.5	23.5	4.6	58.4	0	132.3	0	-0.23	-26.31	---	---	
1/16/2019 8:01	12.9	20.8	6	60.3	0	132.3	14.6	-0.43	-29.62	---	---	No Change: :
1/16/2019 8:01	12.9	20.8	6	60.3	0	132.4	13.3	-0.37	-29.54	---	---	
1/16/2019 8:02	13.1	20.8	6.1	60	0.1	132.4	18.4	-0.42	-29.24	---	---	Closed Valve 1/2 turn or less: :
1/16/2019 8:02	13.1	20.8	6.1	60	0	131.2	14.4	-0.21	-28.98	---	---	
1/16/2019 8:05	16	22.7	5.5	55.8	0.1	131	20	-0.23	-30.17	---	---	No Change: :
1/16/2019 8:05	16	22.7	5.5	55.8	0.1	131	18.6	-0.21	-28.9	---	---	
1/16/2019 14:16	15.7	22.2	5.8	56.3	0.1	131	16.3	-0.29	-28.94	---	---	No Change: :
1/16/2019 14:16	15.7	22.2	5.8	56.3	0	131	1	-0.21	-30.81	---	---	
1/16/2019 14:17	15.7	22.4	5.8	56.1	0.1	130.5	22.1	-0.34	-30.22	---	---	Closed Valve 1/2 turn or less.Valve barely open: :
1/16/2019 14:17	15.7	22.4	5.8	56.1	0	129.9	0	-0.17	-29.75	---	---	
1/16/2019 14:20	18.1	23.7	5.3	52.9	0.2	129.6	30.1	-0.18	-29.2	---	---	No Change: :
1/16/2019 14:20	18.1	23.7	5.3	52.9	0.1	129.2	26.9	-0.16	-28.69	---	---	
1/17/2019 9:04	24	27.4	3.7	44.9	0.2	129.6	27.3	0.02	-28.94	---	---	No Change: :
1/17/2019 9:04	24	27.4	3.7	44.9	0.2	129.4	31.8	-0.11	-28.64	---	---	
1/17/2019 9:05	24.2	27.5	3.7	44.6	0.1	129.7	25.9	-0.09	-27.2	---	---	Opened Valve 1/2 to 1 turn: :
1/17/2019 9:05	24.2	27.5	3.7	44.6	0.2	131	32.6	-0.13	-27.5	---	---	
1/17/2019 14:56	18.9	22.4	4.6	54.1	0	132.4	9.8	-0.33	-28.4	---	---	No Change: :
1/17/2019 14:56	18.9	22.4	4.6	54.1	0	132.8	11.8	-0.28	-28.44	---	---	
1/18/2019 8:09	14	21.2	6.3	58.5	0	131.9	0	-0.42	-29.92	---	---	No Change: :
1/18/2019 8:09	14	21.2	6.3	58.5	0	131.9	0	-0.6	-29.75	---	---	

1/18/2019 8:10	14	21.1	6.3	58.6	0	132.1	0	-0.44	-29.79	---	---	Closed Valve 1/2 turn or less.Valve barely open :
1/18/2019 8:10	14	21.1	6.3	58.6	0	131	0	-0.24	-30.6	---	---	
1/18/2019 8:14	15.7	22.2	6	56.1	0	130.8	0	-0.23	-29.62	---	---	No Change :
1/18/2019 8:14	15.7	22.2	6	56.1	0	130.5	0	-0.21	-30.13	---	---	
1/18/2019 15:57	15.8	22.4	5.6	56.2	0.3	131.9	35.7	-0.26	-30.56	---	---	No Change :
1/18/2019 15:57	15.8	22.4	5.6	56.2	0.3	131.7	36.6	-0.25	-30.09	---	---	
1/18/2019 15:58	15.9	23.1	5.5	55.5	0.1	131.4	22.1	-0.29	-30.94	---	---	Closed Valve 1/2 turn or less.Valve barely open :
1/18/2019 15:58	15.9	23.1	5.5	55.5	0.1	131.4	26.6	-0.14	-31.15	---	---	
1/18/2019 16:01	16.8	23.1	5.4	54.7	0.2	131.4	29.1	-0.2	-31.75	---	---	No Change :
1/18/2019 16:01	16.8	23.1	5.4	54.7	0.2	131.4	27.2	-0.23	-31.92	---	---	
1/22/2019 9:50	26.9	29.6	2.4	41.1	0.1	127.8	23.8	-0.09	-21.08	---	---	No Change :
1/22/2019 9:50	26.9	29.6	2.4	41.1	0	128.5	11.8	-0.04	-20.99	---	---	
1/22/2019 9:51	26.9	29.6	2.4	41.1	0.1	128.7	16.1	-0.02	-20.48	---	---	Opened Valve 1/2 to 1 turn :
1/22/2019 9:51	26.9	29.6	2.4	41.1	0.1	128.8	19.6	-0.01	-21.38	---	---	
1/23/2019 15:18	27.4	30.5	1.3	40.8	0	130.8	0	-0.21	-26.18	---	---	No Change :
1/23/2019 15:18	27.4	30.5	1.3	40.8	0	131	0	-0.21	-25.92	---	---	
1/23/2019 15:19	27.4	30.4	1.5	40.7	0	131.2	0	-0.23	-26.69	---	---	Opened Valve 1/2 turn or less :
1/23/2019 15:19	27.4	30.4	1.5	40.7	0	131.9	11.3	-0.35	-24.99	---	---	
1/24/2019 10:40	15.2	23.3	3.9	57.6	0.2	132.8	27.2	-0.46	-26.56	---	---	No Change :
1/24/2019 10:40	15.2	23.3	3.9	57.6	0.1	132.6	22.5	-0.55	-25.97	---	---	
1/24/2019 10:41	15.3	23.4	3.9	57.4	0	132.4	11.3	-0.36	-26.6	---	---	Opened Valve 1/2 turn or less :
1/24/2019 10:41	15.3	23.4	3.9	57.4	0.1	132.8	17.1	-0.44	-25.63	---	---	
1/24/2019 16:45	14.1	21.2	5.2	59.5	0	133.3	11.6	-0.75	-27.26	---	---	No Change :
1/24/2019 16:45	14.1	21.2	5.2	59.5	0.1	133.3	25.4	-0.61	-26.79	---	---	
1/24/2019 16:47	14.4	21.6	5.1	59	0.1	133.3	22.7	-0.66	-26.88	---	---	Closed Valve 1/2 turn or less :
1/24/2019 16:47	14.4	21.6	5.1	59	0	132.6	2.3	-0.38	-27.21	---	---	
1/24/2019 16:47	15.1	21.7	4.8	58.4	0	132.1	0	-0.37	-26.92	---	---	No Change :
1/24/2019 16:47	15.1	21.7	4.8	58.4	0	132.1	0	-0.32	-26.54	---	---	
1/25/2019 8:42	13.5	21.1	5.7	59.7	0	130.8	0	-0.4	-29.66	---	---	No Change :
1/25/2019 8:42	13.5	21.1	5.7	59.7	0	130.6	0	-0.35	-28.94	---	---	
1/25/2019 8:43	13.6	21.4	5.7	59.3	0	131	0	-0.42	-28.26	---	---	Closed Valve 1/2 turn or less.Valve barely open :
1/25/2019 8:43	13.6	21.4	5.7	59.3	0	---	0	-0.42	-28.26	---	---	
1/25/2019 8:46	14.4	21.9	5.6	58.1	0	130.1	0	-0.3	-30.05	---	---	No Change :
1/25/2019 8:46	14.4	21.9	5.6	58.1	0	129.9	0	-0.24	-29.62	---	---	
1/25/2019 14:08	18.1	23.5	5.3	53.1	0.1	131.5	22.8	-0.3	-28.86	---	---	Closed Valve 1/2 turn or less.Valve barely open :
1/25/2019 14:08	18.1	23.5	5.3	53.1	0	130.3	8.3	-0.22	-27.84	---	---	
1/25/2019 14:11	20.8	25.1	4.8	49.3	0	130.8	0	-0.24	-28.81	---	---	No Change :
1/25/2019 14:11	20.8	25.1	4.8	49.3	0	130.3	0	-0.25	-28.69	---	---	
1/28/2019 10:43	28	31.5	1.3	39.2	0	129.6	12.6	0.05	-29.28	---	---	No Change :
1/28/2019 10:43	28	31.5	1.3	39.2	0.1	129.9	17.4	0.07	-29.41	---	---	
1/28/2019 10:44	28.1	31.7	1.4	38.8	0.1	129.7	18	0.07	-28.3	---	---	Opened Valve 1/2 turn or less.Valve barely open :
1/28/2019 10:44	28.1	31.7	1.4	38.8	0.1	130.6	19.7	-0.04	-27.28	---	---	
1/29/2019 8:36	15.4	23.9	3.7	57	0	132.4	0	-0.28	-30.47	---	---	No Change :
1/29/2019 8:36	15.4	23.9	3.7	57	0	132.4	0	-0.26	-31.36	---	---	
1/29/2019 8:37	15.4	24	3.7	56.9	0	131.4	0	-0.29	-30.22	---	---	Opened Valve 1/2 turn or less :
1/29/2019 8:37	15.4	24	3.7	56.9	0	132.6	0	-0.33	-32	---	---	
1/29/2019 14:19	18.4	23.8	4.1	53.6	0.1	132.3	22.2	-0.28	-28.95	---	---	No Change :
1/29/2019 14:19	18.4	23.8	4.1	53.6	0	132.3	0	-0.3	-31.2	---	---	
1/29/2019 14:20	18.8	24	4.1	53.1	0	131.9	0	-0.3	-30.52	---	---	Opened Valve 1/2 turn or less :
1/29/2019 14:20	18.8	24	4.1	53.1	0	132.3	0	-0.33	-31.11	---	---	
1/30/2019 8:58	12.7	20.6	5.9	60.8	0	132.1	0	-0.24	-30.3	---	---	No Change :
1/30/2019 8:58	12.7	20.6	5.9	60.8	0	131.4	0	-0.38	-30.68	---	---	

1/30/2019 8:59	12.7	20.7	6	60.6	0	132.1	0	-0.38	-31.28	---	---	Closed Valve 1/2 turn or less.Closed Valve 1/2 to 1 turn,V:
1/30/2019 8:59	12.7	20.7	6	60.6	0	131.5	0	-0.25	-31.11	---	---	
1/30/2019 9:02	14.3	21.8	5.6	58.3	0	130.8	0	-0.18	-30.68	---	---	
1/30/2019 9:02	14.3	21.8	5.6	58.3	0	130.8	0	-0.19	-31.45	---	---	
1/30/2019 14:03	15.1	21	6	57.9	0	131.4	0	-0.21	-32.89	---	---	No Change: :
1/30/2019 14:03	15.1	21	6	57.9	0	131.5	0	-0.21	-32.43	---	---	
1/30/2019 14:03	15.1	21.1	6	57.8	0	131	0	-0.22	-31.83	---	---	Closed Valve 1/2 turn or less.Valve barely open: :
1/30/2019 14:03	15.1	21.1	6	57.8	0	131	0	-0.18	-32.38	---	---	
1/30/2019 14:06	16.3	21.9	5.8	56	0	130.6	0	-0.18	-32.3	---	---	No Change: :
1/30/2019 14:06	16.3	21.9	5.8	56	0	130.1	0	-0.15	-31.41	---	---	
1/31/2019 13:24	21.1	25	3.8	50.1	0	130.5	0	-0.11	-28.64	---	---	No Change: :
1/31/2019 13:24	21.1	25	3.8	50.1	0	130.6	0	-0.14	-28.69	---	---	
1/31/2019 13:25	21.1	25.2	3.8	49.9	0	131	0	-0.12	-28.81	---	---	Opened Valve 1/2 turn or less: :
1/31/2019 13:25	21.1	25.2	3.8	49.9	0	131	0	-0.13	-28.47	---	---	
2/1/2019 14:55	21.4	26.4	2.8	49.4	0	132.1	0	-0.12	-29.07	---	---	Opened Valve 1/2 turn or less: :
2/1/2019 14:55	21.4	26.4	2.8	49.4	0	134.1	10.8	-0.33	-26.35	---	---	
2/2/2019 9:48	17.4	24.7	2.8	55.1	0	133.7	0	-0.16	-26.14	---	---	No Change: :
2/2/2019 9:48	17.4	24.7	2.8	55.1	0	133.3	0	-0.3	-25.88	---	---	
2/2/2019 9:48	17.4	24.1	3.6	54.9	0	133.3	0	-0.25	-25.71	---	---	Opened Valve 1/2 turn or less: :
2/2/2019 9:48	17.4	24.1	3.6	54.9	0	133.5	0	-0.47	-26.35	---	---	
2/4/2019 9:35	15.5	21.9	4.8	57.8	0.2	134.8	27.9	-0.43	-29.32	---	---	No Change: :
2/4/2019 9:35	15.5	21.9	4.8	57.8	0.1	134.6	19	-0.41	-29.71	---	---	
2/4/2019 9:36	15.5	22	4.8	57.7	0.2	134.4	28	-0.66	-29.96	---	---	Opened Valve 1/2 turn or less: :
2/4/2019 9:36	15.5	22	4.8	57.7	0.2	134.4	29.4	-0.44	-29.28	---	---	
2/5/2019 11:59	11	19.2	7.9	61.9	0.2	134.6	33.3	-0.42	-30	---	---	No Change: :
2/5/2019 11:59	11	19.2	7.9	61.9	0.1	134.8	16.7	-0.53	-29.45	---	---	
2/5/2019 12:00	11.1	19.2	7.9	61.8	0.1	134.8	25.6	-0.38	-30.05	---	---	Closed Valve 1/2 turn or less: :
2/5/2019 12:00	11.1	19.2	7.9	61.8	0	133.9	0	-0.11	-29.66	---	---	
2/6/2019 11:25	19.1	24.1	3.8	53	0	133.5	0	-0.18	-27.88	---	---	No Change: :
2/6/2019 11:25	19.1	24.1	3.8	53	0	133.5	0	-0.17	-28.26	---	---	
2/6/2019 11:26	19.2	24.1	3.9	52.8	0	133.2	0	-0.17	-27.54	---	---	Opened Valve 1/2 turn or less: :
2/6/2019 11:26	19.2	24.1	3.9	52.8	0	133.3	0	-0.21	-26.9	---	---	
2/7/2019 8:28	19.8	24.9	3.9	51.4	0	132.6	10.9	-0.23	-27.62	---	---	No Change: :
2/7/2019 8:28	19.8	24.9	3.9	51.4	0	132.1	7.1	-0.11	-26.86	---	---	
2/7/2019 8:29	19.9	25	4	51.1	0	132.3	0	-0.23	-27.62	---	---	Opened Valve 1/2 turn or less: :
2/7/2019 8:29	19.9	25	4	51.1	0	132.4	0	-0.31	-27.33	---	---	
2/11/2019 13:21	21.7	27.2	2.3	48.8	0	132.6	0	-0.3	-29.58	---	---	No Change: :
2/11/2019 13:21	21.7	27.2	2.3	48.8	0	132.8	0	-0.26	-28.81	---	---	
2/11/2019 13:22	21.7	27.2	2.4	48.7	0	132.2	0	-0.31	-30.09	---	---	Opened Valve 1/2 to 1 turn: :
2/11/2019 13:22	21.7	27.2	2.4	48.7	0	133.2	0	-0.19	-31.07	---	---	
2/14/2019 9:32	27.2	30	2.5	40.3	0	131.2	0	-0.19	-19.25	---	---	No Change: :
2/14/2019 9:32	27.2	30	2.5	40.3	0	131.9	0	-0.17	-19.55	---	---	
2/14/2019 9:34	27.3	30	2.6	40.1	0	131.5	0	-0.35	-19.38	---	---	Opened Valve 1/2 to 1 turn: :
2/14/2019 9:34	27.3	30	2.6	40.1	0	134.4	0	-0.54	-18.66	---	---	
2/15/2019 7:57	10.8	20.1	4.2	64.9	0.2	134.8	30.5	-0.78	-28.13	---	---	No Change: :
2/15/2019 7:57	10.8	20.1	4.2	64.9	0.5	135.1	50.9	-0.55	-26.65	---	---	
2/18/2019 13:48	9.7	18	6.9	65.4	0.5	135.1	47.6	-0.49	-25.33	---	---	No Change: :
2/18/2019 13:48	9.7	18	6.9	65.4	0.6	135	52.3	-0.26	-25.54	---	---	
2/18/2019 13:49	9.8	18	6.9	65.3	0.3	135.1	39	-0.52	-26.94	---	---	Closed Valve 1/2 to 1 turn: :
2/18/2019 13:49	9.8	18	6.9	65.3	0	133.7	14.4	-0.12	-28.13	---	---	
2/19/2019 10:21	17.6	23.7	4	54.7	0	133.2	0	-0.2	-27.62	---	---	No Change: :
2/19/2019 10:21	17.6	23.7	4	54.7	0	133.2	0	-0.2	-27.96	---	---	

2/19/2019 10:22	17.6	23.8	4	54.6	0	132.8	0	-0.18	-27.54	---	---	Opened Valve 1/2 turn or less: :
2/19/2019 10:22	17.6	23.8	4	54.6	0	133	0	-0.22	-28.09	---	---	
2/20/2019 12:49	27.2	29.9	0.5	42.4	0	132.1	0	-0.1	-27.96	---	---	No Change: :
2/20/2019 12:49	27.2	29.9	0.5	42.4	0	132.3	0	-0.17	-28.35	---	---	
2/20/2019 12:49	27.2	29.9	0.5	42.4	0	132.4	0	-0.02	-27.75	---	---	Opened Valve 1/2 turn or less: :
2/20/2019 12:49	27.2	29.9	0.5	42.4	0	132.1	0	-0.1	-27.62	---	---	
2/21/2019 13:11	18.4	26.4	1.6	53.6	0.1	131.9	24.8	-0.21	-29.07	---	---	No Change: :
2/21/2019 13:11	18.4	26.4	1.6	53.6	0.1	131.9	20.5	-0.25	-28.77	---	---	
2/21/2019 13:12	18.5	26.5	1.6	53.4	0.1	132.1	23.5	-0.21	-29.24	---	---	Opened Valve 1/2 turn or less: :
2/21/2019 13:12	18.5	26.5	1.6	53.4	0.2	132.4	33.1	-0.21	-28.56	---	---	
2/26/2019 16:16	19.2	25.9	0	54.9	0.8	131.9	60.6	-1.18	-30.81	---	---	No Change: : CO 0ppm
2/26/2019 16:16	19.2	25.9	0	54.9	1	132.1	69	-1.34	-30.17	---	---	
2/26/2019 16:16	18.8	25.6	0.2	55.4	0.7	132.1	57.9	-0.9	-30.13	---	---	Opened Valve 1/2 turn or less: :
2/26/2019 16:16	18.8	25.6	0.2	55.4	0.9	132.1	65.2	-1.11	-29.49	---	---	
3/4/2019 13:57	24.9	30.5	0	44.6	0.1	130.5	20.7	-0.11	-30.48	---	---	No Change: : CO 0ppm
3/4/2019 13:57	24.9	30.5	0	44.6	0.1	131	21.6	-0.12	-31.24	---	---	
3/4/2019 13:58	24.9	30.3	0.7	44.1	0.1	130.6	26	-0.17	-30.52	---	---	Opened Valve 1/2 turn or less: :
3/4/2019 13:58	24.9	30.3	0.7	44.1	0.1	131	26.6	-0.18	-29.93	---	---	
3/6/2019 9:52	15.1	26.1	0.2	58.6	0	131.9	0	-0.41	-38.42	---	---	No Change: : CO 0 ppm
3/6/2019 9:52	15.1	26.1	0.2	58.6	0	131.9	0	-0.39	-38.84	---	---	
3/6/2019 9:53	15.2	25.7	0.7	58.4	0	131.5	0	-0.28	-38.55	---	---	Opened Valve 1/2 turn or less: :
3/6/2019 9:53	15.2	25.7	0.7	58.4	0	132.3	0	-0.52	-38.12	---	---	
3/8/2019 13:53	16.3	25.1	0.7	57.9	0.3	133.3	36.2	-0.55	-35.27	---	---	No Change: : CO 0 ppm
3/8/2019 13:53	16.3	25.1	0.7	57.9	0.2	133.3	32.6	-0.48	-35.06	---	---	
3/8/2019 13:53	16.5	24.6	1.7	57.2	0.3	133.3	35.4	-0.41	-34.93	---	---	Opened Valve 1/2 turn or less: :
3/8/2019 13:53	16.5	24.6	1.7	57.2	0.3	133.3	38.4	-0.5	-34.93	---	---	
3/11/2019 11:11	9.3	19	5	66.7	0.5	133.3	49.9	-0.53	-40.14	---	---	No Change: : CO 5 ppm
3/11/2019 11:11	9.3	19	5	66.7	0.4	133.3	43.2	-0.55	-41.25	---	---	
3/11/2019 11:14	9.4	18.8	5	66.8	0.4	133	46.7	-0.65	-41.5	---	---	Closed Valve 1/2 turn or less: :
3/11/2019 11:14	9.4	18.8	5	66.8	0.1	132.3	24.1	-0.3	-40.53	---	---	
3/12/2019 14:52	23.1	26.9	1.5	48.5	0.3	132.1	39.4	-0.38	-25.14	---	---	No Change: :
3/12/2019 14:52	23.1	26.9	1.5	48.5	0.3	132.1	38.9	-0.39	-25.1	---	---	
3/12/2019 14:52	23.2	27	1.5	48.3	0.4	132.1	44	-0.38	-24.59	---	---	Opened Valve 1/2 turn or less: :
3/12/2019 14:52	23.2	27	1.5	48.3	0.4	131.9	45.7	-0.39	-23.87	---	---	
3/13/2019 8:40	15.3	24.2	1	59.5	0	132.1	8.2	-0.29	-41.84	---	---	No Change: : CO 5ppm
3/13/2019 8:40	15.3	24.2	1	59.5	0.1	131.7	17	-0.32	-43.32	---	---	
3/13/2019 8:41	15.3	23.2	1.9	59.6	0	132.1	0	-0.36	-42.18	---	---	Opened Valve 1/2 turn or less: :
3/13/2019 8:41	15.3	23.2	1.9	59.6	0.2	131.7	31.7	-0.2	-42.01	---	---	
3/15/2019 9:32	11.5	22.6	0.8	65.1	0.1	132.3	19.2	-0.71	-37.56	---	---	No Change: : CO 0 ppm
3/15/2019 9:32	11.5	22.6	0.8	65.1	0.1	132.3	26.4	-0.45	-36.8	---	---	
3/15/2019 9:33	11.6	21.6	0.9	65.9	0	132.4	13.4	-0.47	-37.22	---	---	Opened Valve 1/2 turn or less: :
3/15/2019 9:33	11.6	21.6	0.9	65.9	0.2	132.4	33	-0.62	-37.26	---	---	
3/18/2019 10:37	8.6	16.7	5.6	69.1	0.3	133.7	39.3	-0.52	-44.09	---	---	No Change: : CO 0 ppm
3/18/2019 10:37	8.6	16.7	5.6	69.1	0.4	133.7	42.6	-0.5	-42.6	---	---	
3/18/2019 10:38	8.9	15.8	5.6	69.7	0.5	133.5	50.4	-0.81	-42.43	---	---	Closed Valve 1/2 to 1 turn: :
3/18/2019 10:38	8.9	15.8	5.6	69.7	0.3	133.7	38.2	-0.44	-44.68	---	---	

The following alternate standards have been approved for the following wells:



Arbor Hills Landfill  
Gas Extraction Well Head Monitoring

Well Number: AHWW310R / AHWW310R

Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Diff. Press. (in. H2O)	Temp.	Flow (scfm)	Well Pres. (in. H2O)	Header Pres. (in. H2O)	Valve Setting (% Open)	H2S	Comments
6/2/2018 15:17	0	0	22.1	77.9	0	97.3	0	-0.01	-34.65	---	---	Opened Valve > 1 turn: NEW WELL INITIAL READ:
6/2/2018 15:17	0	0	22.1	77.9	0	122.5	0	-0.01	-33.25	---	---	Opened Valve > 1 turn: NEW WELL INITIAL READ:
6/2/2018 15:21	57.5	27.9	0.1	14.5	2.2	125.8	100.4	-2.69	-35.58	---	---	Closed Valve > 1 turn,Valve completely closed: SECOND R
6/2/2018 15:21	57.5	27.9	0.1	14.5	0.5	124.7	48.1	-0.59	-36.68	---	---	Closed Valve > 1 turn,Valve completely closed: SECOND R
6/25/2018 17:43	36.6	23.7	0	39.7	0.7	129.9	50.6	-0.63	-33.23	---	---	No Change,Valve Barely Open.....
6/25/2018 17:43	36.6	23.7	0	39.7	0.7	129.9	50.3	-0.66	-33.23	---	---	No Change,Valve Barely Open.....
7/17/2018 15:04	50.8	26.8	0	22.4	0.6	130.9	48.2	-0.7	-42.55	---	---	Opened Valve 1/2 Turn or Less.....
7/17/2018 15:04	50.8	26.8	0	22.4	1.1	130.9	65	-1.43	-42.55	---	---	Opened Valve 1/2 Turn or Less.....
7/18/2018 8:53	48.7	27.8	0	23.5	1	131.2	63.7	-1.32	-46.11	---	---	Closed Valve 1/2 Turn or Less.....
7/18/2018 8:53	48.7	27.8	0	23.5	0.7	130.9	50.4	-0.89	-46.11	---	---	Closed Valve 1/2 Turn or Less.....
8/7/2018 14:18	57.4	29.4	0	13.2	0.4	130.9	40.8	-0.59	-24.5	---	---	No Change.....
8/7/2018 14:18	57.4	29.4	0	13.2	0.4	130.8	40.4	-0.57	-24.5	---	---	No Change.....
8/7/2018 14:23	57.5	29.4	0	13.1	0.4	130.8	41.1	-0.53	-24.7	---	---	Opened Valve 1/2 Turn or Less.....
8/7/2018 14:23	57.5	29.4	0	13.1	0.9	131.4	59.4	-1.15	-24.7	---	---	Opened Valve 1/2 Turn or Less.....
8/8/2018 9:31	58.7	30.2	0	11.1	0.7	131.1	53.7	-0.75	-20.34	---	---	No Change.....
8/8/2018 9:31	58.7	30.2	0	11.1	0.7	131.1	53.3	-0.74	-20.34	---	---	No Change.....
8/8/2018 9:35	58.5	30.1	0	11.4	0.7	131.2	53.3	-0.75	-20.21	---	---	Opened Valve 1/2 to 1 Turn.....
8/8/2018 9:35	58.5	30.1	0	11.4	0.9	131.3	61.9	-1.04	-20.21	---	---	Opened Valve 1/2 to 1 Turn.....
8/10/2018 12:22	56.1	29.5	0.1	14.3	0.9	131.4	60.4	-1.11	-19.72	---	---	No Change.....
8/10/2018 12:22	56.1	29.5	0.1	14.3	1	131.4	62.6	-1.11	-19.72	---	---	No Change.....
8/10/2018 12:23	55.4	29.6	0.1	14.9	0.9	131.5	60.9	-1.09	-19.18	---	---	Opened Valve 1/2 Turn or Less.....
8/10/2018 12:23	55.4	29.6	0.1	14.9	1.1	131.6	67.9	-1.28	-19.18	---	---	Opened Valve 1/2 Turn or Less.....
8/14/2018 9:22	52.9	29.7	0	17.4	1.1	131.8	66.1	-1.24	-18.61	---	---	No Change.....
8/14/2018 9:22	52.9	29.7	0	17.4	1	131.8	64.1	-1.27	-18.61	---	---	No Change.....
8/14/2018 9:24	52.5	29.6	0	17.9	1.1	131.8	64.7	-1.37	-17.14	---	---	Opened Valve 1/2 Turn or Less.....
8/14/2018 9:24	52.5	29.6	0	17.9	1.4	131.8	74.8	-1.6	-17.14	---	---	Opened Valve 1/2 Turn or Less.....
8/20/2018 13:30	46.8	28.9	0	24.3	1.5	132.3	77.5	-2.17	-15.84	---	---	No Change.....
8/20/2018 13:30	46.8	28.9	0	24.3	1.6	132.3	78.2	-2.15	-15.84	---	---	No Change.....
8/20/2018 13:32	45.7	28.8	0	25.5	1.6	132.3	79.4	-2.18	-16.33	---	---	Closed Valve 1/2 Turn or Less.....
8/20/2018 13:32	45.7	28.8	0	25.5	1.3	132.3	71.5	-1.75	-16.33	---	---	Closed Valve 1/2 Turn or Less.....
8/22/2018 15:57	45	29.3	0	25.7	1.4	131.7	72.6	-1.75	-16.73	---	---	No Change.....
8/22/2018 15:57	45	29.3	0	25.7	1.4	131.7	72.7	-1.72	-16.73	---	---	No Change.....
8/22/2018 15:59	44.6	29.4	0	26	1.8	131.7	82.6	-1.67	-18.4	---	---	Closed Valve 1/2 to 1 Turn.....
8/22/2018 15:59	44.6	29.4	0	26	0.8	131.5	56.4	-0.95	-18.4	---	---	Closed Valve 1/2 to 1 Turn.....
8/28/2018 8:47	49.7	30.2	0	20.1	0.8	131.9	56.3	-1.3	-19.72	---	---	No Change.....
8/28/2018 8:47	49.7	30.2	0	20.1	0.8	132	56.3	-1.31	-19.72	---	---	No Change.....
8/28/2018 8:50	50	30.3	0	19.7	0.9	131.8	58.1	-1.39	-19.16	---	---	Opened Valve 1/2 Turn or Less.....
8/28/2018 8:50	50	30.3	0	19.7	1.1	131.9	64.9	-1.62	-19.16	---	---	Opened Valve 1/2 Turn or Less.....
8/28/2018 8:53	50	30.2	0	19.8	1	132.1	63.8	-1.6	-19.55	---	---	No Change.....
8/28/2018 8:53	50	30.2	0	19.8	1	132.1	63.8	-1.6	-19.55	---	---	No Change.....
8/29/2018 10:51	50.8	30.1	0	19.1	0.9	131.4	58.2	-1.06	-14.48	---	---	No Change.....
8/29/2018 10:51	50.8	30.1	0	19.1	0.9	131.4	58.4	-1.04	-14.48	---	---	No Change.....

8/29/2018 10:52	49.8	29.9	0	20.3	0.9	131.4	58.5	-0.98	-15.26	---	---	Closed Valve 1/2 Turn or Less.....
8/29/2018 10:52	49.8	29.9	0	20.3	0.5	131	43.2	-0.48	-15.26	---	---	Closed Valve 1/2 Turn or Less.....
8/29/2018 10:53	50.8	30.2	0	19	0.5	130.9	44.6	-0.46	-15.02	---	---	No Change.....
8/29/2018 10:53	50.8	30.2	0	19	0.5	130.9	44.3	-0.46	-15.02	---	---	No Change.....
9/12/2018 13:24	53.6	31.1	0	15.3	0.1	132.3	17	-0.22	-25.69	---	---	No Change.....
9/12/2018 13:24	53.6	31.1	0	15.3	0.1	132.2	15.7	-0.25	-25.69	---	---	No Change.....
9/12/2018 13:26	52.9	31.1	0	16	0	132.2	12	-0.3	-25.13	---	---	Opened Valve 1/2 to 1 Turn,Surging In Header.....
9/12/2018 13:26	52.9	31.1	0	16	0.3	132.3	33.8	-0.52	-25.13	---	---	Opened Valve 1/2 to 1 Turn,Surging In Header.....
9/12/2018 13:29	53.7	31.1	0	15.2	0.3	132.4	35.7	-0.66	-24.6	---	---	Opened Valve 1/2 Turn or Less.....
9/12/2018 13:29	53.7	31.1	0	15.2	0.4	132.5	40.5	-0.73	-24.6	---	---	Opened Valve 1/2 Turn or Less.....
10/10/2018 10:18	44.2	28.8	0	27	0.4	131.1	38.2	-0.31	-26.59	---	---	No Change.....
10/10/2018 10:18	44.2	28.8	0	27	0.4	131	36.9	-0.29	-26.59	---	---	No Change.....
10/10/2018 10:19	44.1	28.9	0	27	0.4	131	41	-0.43	-27.72	---	---	Closed Valve 1/2 Turn or Less.....
10/10/2018 10:19	44.1	28.9	0	27	0.3	130.8	31.8	-0.22	-27.72	---	---	Closed Valve 1/2 Turn or Less.....
10/10/2018 10:20	43.6	27.5	0	28.9	0.2	130.7	30.1	-0.33	-27.4	---	---	No Change.....
10/10/2018 10:20	43.6	27.5	0	28.9	0.1	130.7	19.7	-0.26	-27.4	---	---	No Change.....
10/25/2018 10:57	52.7	31.1	0	16.2	0.4	130.5	37.7	-0.57	-27.79	---	---	No Change.....
10/25/2018 10:57	52.7	31.1	0	16.2	0.2	130.5	30.7	-0.51	-27.79	---	---	No Change.....
10/25/2018 11:03	52.9	31.1	0	16	2.5	130.6	100	-2.38	-24.18	---	---	Opened Valve > 1Turn.....
10/25/2018 11:03	52.9	31.1	0	16	4.4	132.7	131.9	-5.31	-24.18	---	---	Opened Valve > 1Turn.....
10/25/2018 13:11	53.1	29.5	0	17.4	2	132.7	88.6	-2.72	-22.81	---	---	No Change.....
10/25/2018 13:11	53.1	29.5	0	17.4	2	132.6	88.7	-2.69	-22.81	---	---	No Change.....
10/25/2018 13:16	53.7	29.7	0	16.6	2	132.6	89.3	-2.9	-16.44	---	---	Opened Valve > 1Turn.....
10/25/2018 13:16	53.7	29.7	0	16.6	3.8	132.5	123.6	-5.13	-16.44	---	---	Opened Valve > 1Turn.....
10/27/2018 10:33	44.6	28.7	0	26.7	3.2	132.5	112	-4.46	-14.07	---	---	No Change.....
10/27/2018 10:33	44.6	28.7	0	26.7	3.2	132.5	111.3	-4.47	-14.07	---	---	No Change.....
10/27/2018 10:41	44.7	28.8	0	26.5	3.2	132.5	111.2	-4.69	-12.08	---	---	Opened Valve > 1Turn.....
10/27/2018 10:41	44.7	28.8	0	26.5	3.5	132.4	117	-5.15	-12.08	---	---	Opened Valve > 1Turn.....
10/29/2018 10:38	39.5	28.3	0	32.2	3.5	132.5	114.6	-5.05	-12.36	---	---	No Change.....
10/29/2018 10:38	39.5	28.3	0	32.2	3.5	132.5	115.1	-5.07	-12.36	---	---	No Change.....
10/29/2018 10:43	39.3	28	0	32.7	3.8	132.5	119.7	-5.3	-11.39	---	---	Opened Valve > 1Turn.....
10/29/2018 10:43	39.3	28	0	32.7	4.2	132.4	126.1	-5.85	-11.39	---	---	Opened Valve > 1Turn.....
10/30/2018 9:28	37.8	27.6	0	34.6	4.2	132.5	126.8	-5.93	-11.3	---	---	No Change.....
10/30/2018 9:28	37.8	27.6	0	34.6	4.2	132.5	125.7	-5.86	-11.3	---	---	No Change.....
10/30/2018 9:34	37.1	28.2	0	34.7	0.7	118.8	52.3	-0.69	-22.47	---	---	Opened Valve 1/2 Turn or Less.....
10/30/2018 9:34	37.1	28.2	0	34.7	5.9	128.3	150	-6.39	-22.47	---	---	Opened Valve 1/2 Turn or Less.....
11/1/2018 9:52	41.1	29.5	0	29.4	-6	130	0	-6.48	-24.23	---	---	No Change.....
11/1/2018 9:52	41.1	29.5	0	29.4	-6	130.1	0	-6.33	-24.23	---	---	No Change.....
11/1/2018 9:57	41.3	29.5	0	29.2	-6.1	130	0	-6.52	-23.56	---	---	Opened Valve 1/2 to 1 Turn.....
11/1/2018 9:57	41.3	29.5	0	29.2	-8.7	130.2	0	-9.32	-23.56	---	---	Opened Valve 1/2 to 1 Turn.....
11/7/2018 10:59	41.3	29.5	0	29.2	5.5	129.7	30.3	-0.73	-18.76	---	---	No Change.....
11/7/2018 10:59	41.3	29.5	0	29.2	5.5	129.7	30.3	-0.7	-18.76	---	---	No Change.....
11/7/2018 11:05	41.4	29.2	0	29.4	5.4	129.6	29.9	-0.69	-18.9	---	---	Closed Valve 1/2 Turn or Less.....
11/7/2018 11:05	41.4	29.2	0	29.4	3.7	129.1	24.8	-0.51	-18.9	---	---	Closed Valve 1/2 Turn or Less.....
11/27/2018 14:30	42.7	31.2	0	26.1	-3.9	127.5	0	-4.18	-13.85	---	---	No Change.....
11/27/2018 14:30	42.7	31.2	0	26.1	-4	127.5	0	-4.25	-13.85	---	---	No Change.....
12/15/2018 8:41	43.9	30.2	0	25.9	-2.9	127.3	0	-3.45	-11.89	---	---	No Change.....
12/15/2018 8:41	43.9	30.2	0	25.9	-2.9	127.5	0	-3.38	-11.89	---	---	No Change.....
1/9/2019 10:54	35.1	22.3	20.4	22.2	3.2	125.2	22.2	-3.47	-13.73	---	---	No Change: :
1/9/2019 10:54	35.1	22.3	20.4	22.2	3.3	126.3	22.5	-3.5	-13.98	---	---	No Change: :
1/17/2019 11:28	42.6	29.1	0	28.2	2.9	127.8	21.1	-3.65	-13.44	---	---	No Change: :
1/17/2019 11:28	42.6	29.1	0	28.2	2.9	127.6	21	-3.68	-13.1	---	---	No Change: :
2/25/2019 12:49	32.7	26.8	0	40.5	3.3	127.4	22.5	-3.69	-15	---	---	No Change: :

2/25/2019 12:49	32.7	26.8	0	40.5	3.5	127.4	23.2	-3.64	-14.87	---	---	No Change: :
2/25/2019 12:49	32.7	27	0	40.3	3.2	127.2	22.2	-3.65	-14.28	---	---	Closed Valve > 1 turn: :
2/25/2019 12:49	32.7	27	0	40.3	0.5	124.9	8.7	-0.46	-15.77	---	---	Closed Valve > 1 turn: :
3/20/2019 9:11	43	29.2	0	27.8	0.4	118	7.5	-0.23	-16.62	---	---	No Change: :
3/20/2019 9:11	43	29.2	0	27.8	0.3	118.8	7.2	-0.21	-16.62	---	---	No Change: :
3/20/2019 9:11	43	29.2	0	27.8	0.3	118.6	7.1	-0.23	-16.53	---	---	Closed Valve 1/2 turn or less: :
3/20/2019 9:11	43	29.2	0	27.8	0.2	118.6	6	-0.16	-16.45	---	---	Closed Valve 1/2 turn or less: :

The following alternate standards have been approved for the following wells:

Conditional formatting on columns M, N, & O are defined as the following:

- \* Header - Applied Vacuum (M) - Conditionally formatted to highlight values < 2
- \* Balance to O2 Ratio (N) - Conditionally formatted to highlight values between 3.5 and 4.5
- \* CH4 to CO2 Ratio (O) - Conditionally formatted to highlight values < 1

Date/Time	Depth of Leachate (ft)	Depth to Leachate Level (ft)	Depth of Gas Well (ft)	Screen Length (ft)	% Screen Submerged

**Attachment 3**  
**Drill Logs**

# GAS EXTRACTION WELL LOG



WELL ID: WW259R2

DATE: 4/24/15

PROJECT NAME: Arbor Hills 2015 GCCS Construction

NORTHING: 4165

BEL PROJECT#: 2015.055

EASTING: 3551

ELEVATION: 1180

CONTRACTOR/SUPERVISOR: GLF / Cory Lamrouex

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.	Pipe Size: <b>6" SDR 11 HDPE</b>	
0-10	Soil / C&D	Light	DRY	55		
10-20	Soil / C&D	Light	DRY	62		
20-30	Soil / C&D	Light	DRY	76		
30-33	Soil / C&D	Light	DRY	73		
<b>LEGEND</b>						
	Soil, Organics, Gen Waste, C&D	Light, Moderate, Heavy	Dry, Moist, Wet, Saturated			
MATERIAL LIST						
Bore Size (inch):				36		
Bore Depth (ft):				33		
Pipe Size (inch):				6		
Pipe Material:				HDPE		
Solid Pipe Above Ground (ft):				4		
Solid Pipe Below Ground (ft):				15		
Perforated Pipe Length (ft):				18		
Cover Depth (ft):				1		
Bentonite Layer Thickness (ft):				2x2'		
Gravel Pack (ft):				20		
Joint Connections:				Fused		
Pump Installed:				TBD		
Well Grate Installed:				Yes		
<b>Notes:</b>						
Obstruction at 33'						

BEL REPRESENTATIVE: John Langenderfer

# GAS EXTRACTION WELL LOG



WELL ID: WW-290

DATE: 5/11/16

PROJECT NAME: Arbor Hills 2016 Phase III GCCS Construction

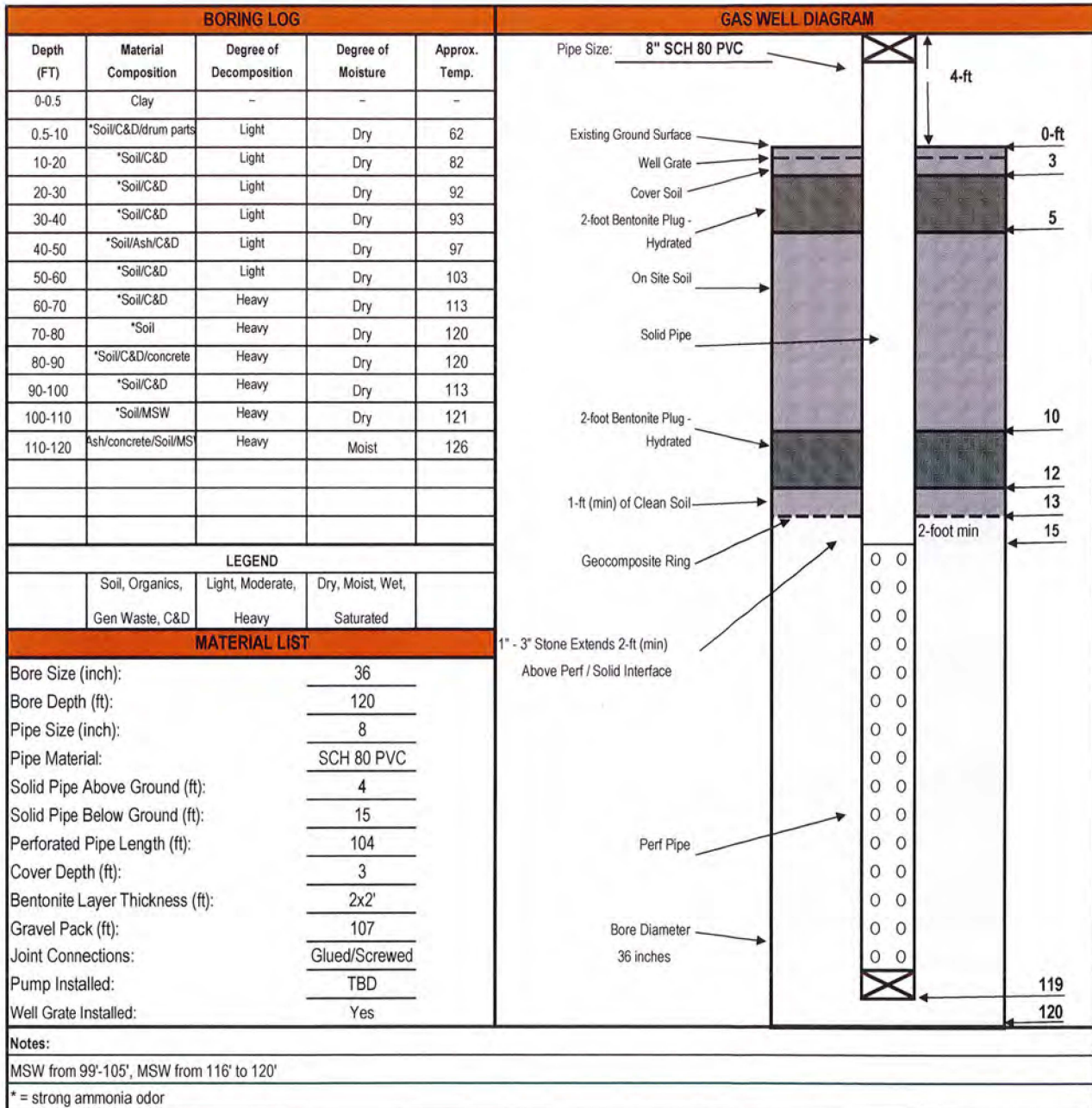
NORTHING: 4097

BEL PROJECT#: 2016.065

EASTING: 2992

ELEVATION: 1177

CONTRACTOR/SUPERVISOR: Great Lakes Fusion / Joe Green



**Notes:**

MSW from 99'-105', MSW from 116' to 120'

\* = strong ammonia odor

BEL REPRESENTATIVE: John Langenderfer

# GAS EXTRACTION WELL LOG



WELL ID:                      **WW-297**

DATE:                      **5/24/16**

PROJECT NAME:                      **Arbor Hills LF - 2016 GCCS Construction**

NORTHING:                      **4220**

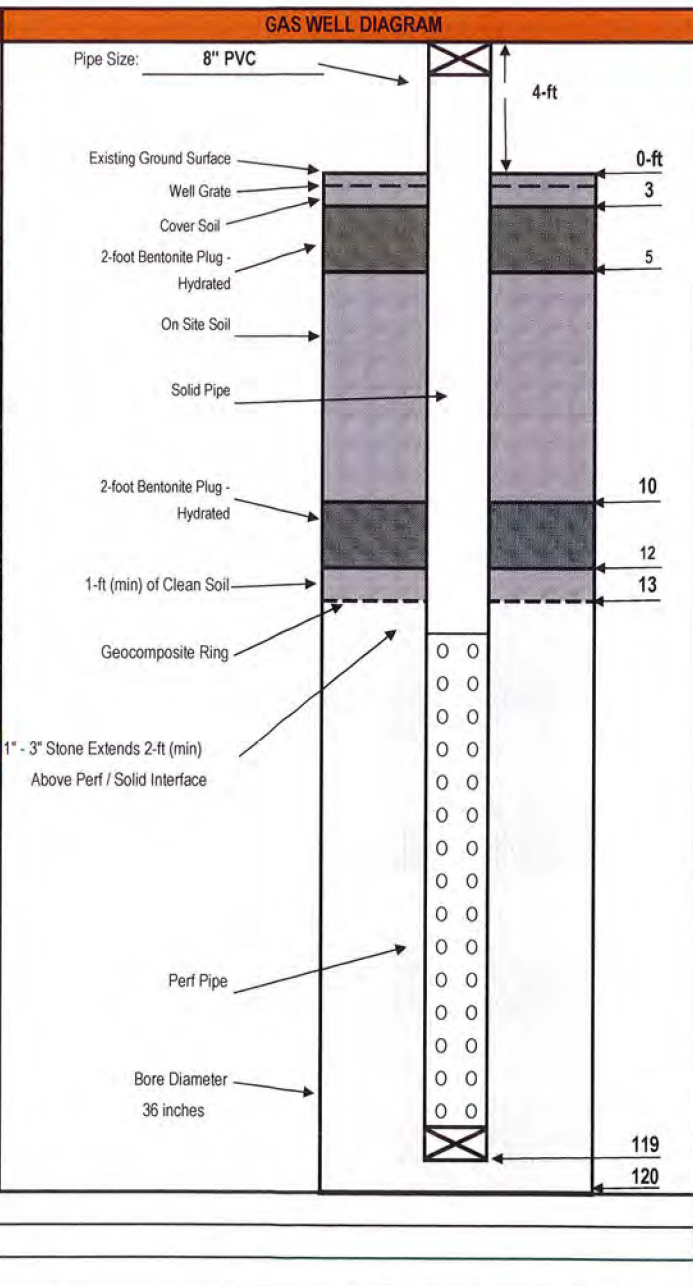
BEL PROJECT#:                      **2016.065**

EASTING:                      **2662**

ELEVATION:                      **1179**

CONTRACTOR/SUPERVISOR:                      **Great Lakes Fusion - Joe Green**

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
0-2	C&D	-	-	-		
2-10	GW / C&D	LIGHT	DRY	87		
10-20	GW	LIGHT	DRY	110		
20-30	GW	LIGHT	DRY	112		
30-40	GW / C&D	LIGHT	DRY	116		
40-50	GW	LIGHT	DRY	119		
50-60	GW	LIGHT	DRY	124		
60-70	GW	MOD	Moist	129		
70-80	GW	Heavy	Moist	134		
80-90	GW	Heavy	Wet	138		
90-100	GW	Heavy	Wet	140		
100-110	GW	Heavy	Wet	140		
110-120	GW	Heavy	Wet	137		
Gas Extraction Well Set @ 120'						
<b>LEGEND</b>						
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
MATERIAL LIST						
Bore Size (inch):	36"					
Bore Depth (ft):	120'					
Pipe Size (inch):	8"					
Pipe Material:	SCH 80 PVC					
Solid Pipe Above Ground (ft):	4'					
Solid Pipe Below Ground (ft):	15'					
Perforated Pipe Length (ft):	104'					
Cover Depth (ft):	3					
Bentonite Layer Thickness (ft):	2'x2					
Gravel Pack (ft):	107'					
Joint Connections:	Glue / screws					
Pump Installed:	TBD					
Well Grate Installed:	Yes					
<b>Notes:</b>						



BEL REPRESENTATIVE:                      **Brandan K Darragh**

# GAS EXTRACTION WELL LOG



WELL ID: WW-299

DATE: 6/16/2016

PROJECT NAME: Arbor Hills 2016 GCCS Phase III

NORTHING: 4270

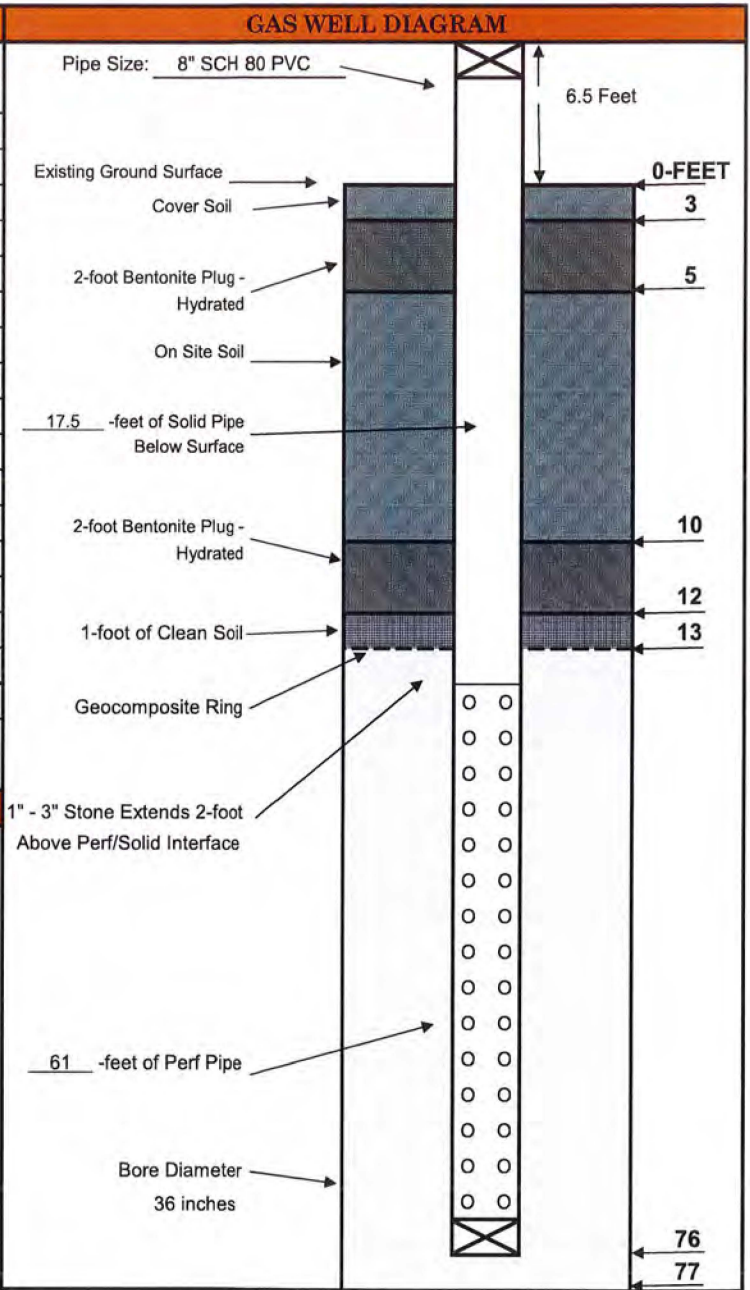
BEL PROJECT#: 2016.065

EASTING: 3383

ELEVATION: 1182

CONTRACTOR/SUPERVISOR: Great Lakes Fusion / Joe Green

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
0-2	C&D,50%soil	Little	Dry	64		
2-5	C&D,40%soil	Little	Dry	64		
5-10	PL,W,M,10%soil	Some	Dry	68		
10-15	PL,W,M,10%soil	Some	Dry	82		
15-20	PL,W,M,10%soil	Some	Dry	76		
20-25	PL,GW,50%soil	Some	Dry	80		
25-30	PL,C&D,50%soil	Some	Dry	84		
30-35	PL,W,GW,40%soil	Moderate	Dry	80		
35-40	Cpt,PL,W,40%soil	Moderate	Dry	80		
40-45	PL,W,GW,40%soil	Moderate	Dry	94		
45-50	PL,W,GW,20%soil	Moderate	Dry	94		
50-55	PL,W,M,20%soil	Moderate	Dry	104		
55-60	PL,W,GW,10%soil	Moderate	Dry	100		
60-65	PL,C&D,20%soil	Moderate	Dry	120		
65-70	PL,C&D,20%soil	Moderate	Dry	140		
70-77	M,C&D,20%ash	Moderate	Dry	136		
LEGEND						
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
MATERIAL LIST						
Bore Size:	3'					
Bore Depth:	77'					
Pipe Size:	8"					
Pipe Material:	SCH 80 PVC					
Solid Pipe Above Ground:	6.5'					
Solid Pipe Below Ground:	17.5					
Perforated Pipe Length:	61'					
Cover Depth:	3'					
Bentonite Layer Thickness:	2x2'					
Gravel Pack:	63'					
Joint Connections:	Glued/Screwed					
Pump Installed	No					
Well Grate Installed	Yes					
Boot Repair Date	Na					
Notes: Well set at 77' due to collapsing conditions.						



BEL REPRESENTATIVE: Thomas Paul



# GAS EXTRACTION WELL LOG



WELL ID: WW-301

PROJECT NAME: Arbor Hills LF - 2016 GCCS Construction

BEL PROJECT#: 2016.065

DATE: 5/24/16

PAGE: 1 OF 2

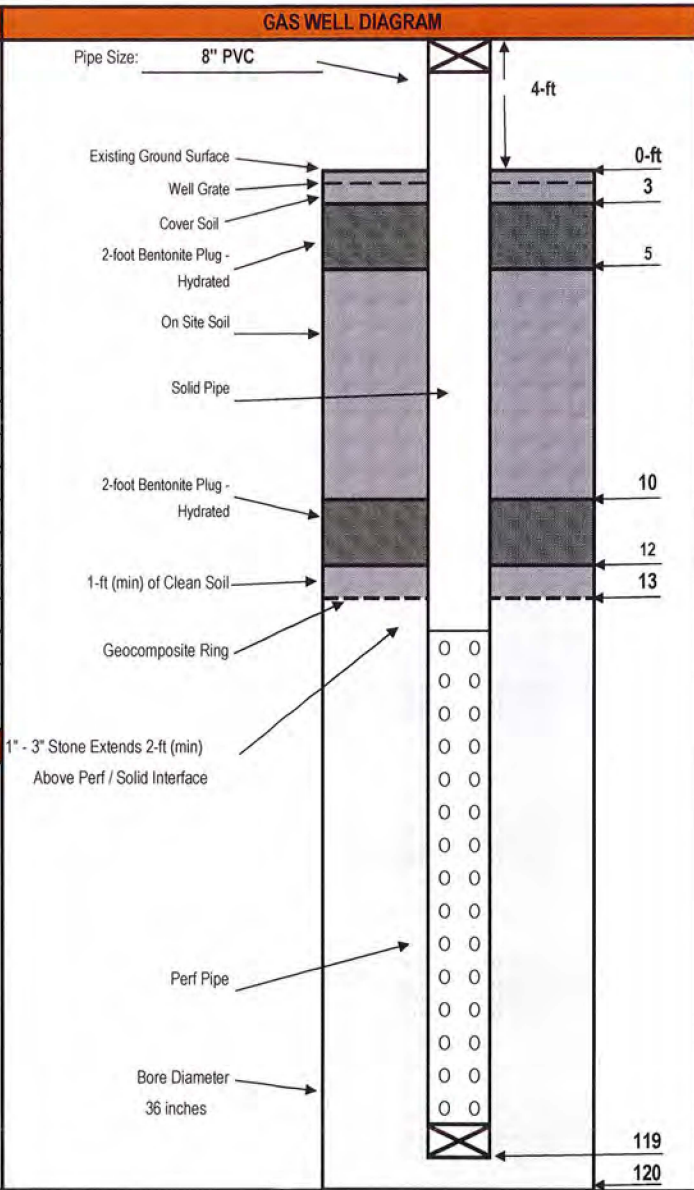
NORTHING: 4430

EASTING: 3709

ELEVATION: 1182

CONTRACTOR/SUPERVISOR: Great Lakes Fusion - Joe Green

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
0-5	C&D	-	-	-		
5-10	C&D	LIGHT	DRY	87		
10-15	C&D	LIGHT	DRY	94		
15-20	C&D	LIGHT	DRY	98		
20-25	Ash / C&D	LIGHT	DRY	101		
25-30	Ash / C&D	LIGHT	DRY	108		
30-35	Ash / C&D	LIGHT	DRY	112		
35-40	SO / C&D	MOD	Moist	117		
40-45	SO / C&D	Heavy	Moist	125		
45-50	SO / C&D	Heavy	Wet	128		
50-55	SO / C&D	Heavy	Wet	124		
55-60	SO / C&D	Heavy	Wet	120		
60-65	SO / C&D	Heavy	Wet	120		
65-70	SO / C&D	Heavy	Wet	118		
70-75	SO / C&D			124		
Please See Page 2						
LEGEND						
Soil, Organics, Gen Waste, C&D		Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
MATERIAL LIST						
Bore Size (inch):		36"				
Bore Depth (ft):		120'				
Pipe Size (inch):		8"				
Pipe Material:		SCH 80 PVC				
Solid Pipe Above Ground (ft):		4'				
Solid Pipe Below Ground (ft):		15'				
Perforated Pipe Length (ft):		104'				
Cover Depth (ft):		3				
Bentonite Layer Thickness (ft):		2'x2				
Gravel Pack (ft):		107'				
Joint Connections:		Glue / screws				
Pump Installed:		TBD				
Well Grate Installed:		Yes				
Notes:						



BEL REPRESENTATIVE: Brandan K Darragh



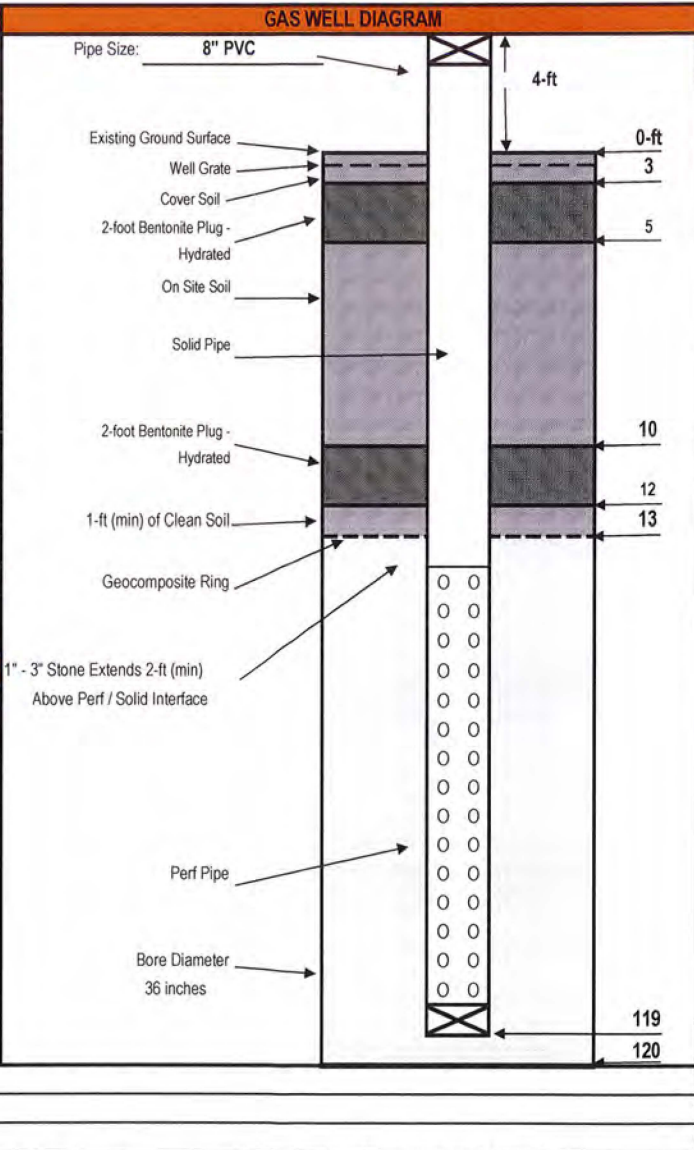
# GAS EXTRACTION WELL LOG

**WELL ID:** WW-301  
**PROJECT NAME:** Arbor Hills LF - 2016 GCCS Construction  
**BEL PROJECT#:** 2016.065

**DATE:** 5/24/16  
**PAGE:** 2 OF 2  
**NORTHING:** 4430  
**EASTING:** 3709  
**ELEVATION:** 1182

**CONTRACTOR/SUPERVISOR:** Great Lakes Fusion - Joe Green

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
75-80	SO / C&D	LIGHT	DRY	124		
80-85	SO / C&D	LIGHT	DRY	129		
85-90	SO / C&D	LIGHT	DRY	130		
90-95	SO / C&D	LIGHT	DRY	132		
95-100	SO / C&D	LIGHT	DRY	131		
100-105	SO / C&D	LIGHT	DRY	128		
105-110	SO / C&D	LIGHT	DRY	130		
110-115	SO / C&D	LIGHT	DRY	130		
115-120	SO / C&D	LIGHT	DRY	129		
Gas Extraction Well Set @ 120'						
LEGEND						
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Coarse	Dry Refuse, Normal, Damp, Wet, Collected			
MATERIAL LIST						
Bore Size (inch):	36"					
Bore Depth (ft):	120'					
Pipe Size (inch):	8"					
Pipe Material:	SCH 80 PVC					
Solid Pipe Above Ground (ft):	4'					
Solid Pipe Below Ground (ft):	15'					
Perforated Pipe Length (ft):	104'					
Cover Depth (ft):	3					
Bentonite Layer Thickness (ft):	2'x2					
Gravel Pack (ft):	107'					
Joint Connections:	Glue / screws					
Pump Installed:	TBD					
Well Grate Installed:	Yes					
Notes:						



**BEL REPRESENTATIVE:** Brandan K Darragh

# GAS EXTRACTION WELL LOG



WELL ID: WW-302

DATE: 6/22/16

PROJECT NAME: Arbor Hills Landfill

PAGE: 1 of 1

BEL PROJECT#: 2016.065

NORTHING: 4429

EASTING: 3462

ELEVATION: 1185

CONTRACTOR/SUPERVISOR: GLF/Josh Luft

BORING LOG					GAS WELL DIAGRAM			
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.				
0-5	pl/w/br/cr 25% s	Little	Dry	75				
5-10	pl/w/br/carp 25% s	Little	Dry	84				
10-15	pl/w/br/cr/m 25% s	Little	Dry	93				
15-20	pl/w/br/cr/m 25% s	Little	Dry	96				
20-25	pl/w/br/cr/m 25% s	Some	Moist	100				
25-30	ash/br/w 50% s	Some	Moist	112				
30-35	w/br/insul 75% s	Some	Moist	104				
35-40	w/m/br/matt 75% s	Some	Moist	102				
40-45	ash/w/m/cr/br 50% s	Some	Moist	99				
45-50	w/m/cr/br 50% s	Some	Moist	111				
50-55	cr/w/m 50% s	Some	Moist	107				
55-60	cr/w/m 25% s	Some	Saturated	103				
<b>LEGEND</b>								
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated					
<b>MATERIAL LIST</b>								
Bore Size:	<u>36</u>							
Bore Depth:	<u>58'</u>							
Pipe Size:	<u>8"</u>							
Pipe Material:	<u>SCH 80 PVC</u>							
Solid Pipe Above Ground:	<u>4'</u>							
Solid Pipe Below Ground:	<u>15'</u>							
Perforated Pipe Length:	<u>43'</u>							
Cover Depth:	<u>3'</u>							
Bentonite Layer Thickness:	<u>2x2'</u>							
Gravel Pack:	<u>46'</u>							
Joint Connections:	<u>glued/screwed</u>							
Pump Installed:	<u>tbd</u>							
Notes					ind=indiscernible, w=wood, pl=plastic, p=paper, m=metal, br=brick, cr=concrete, yd=yard waste, s=soil, r=rubber, st=stone			
Well set short of target depth (120') due to collapsing borehole								

BEL REPRESENTATIVE: John Langenderfer

# GAS EXTRACTION WELL LOG



WELL ID: WW-311

DATE: 6/2/16

PROJECT NAME: Arbor Hills Landfill

PAGE: 1 of 2

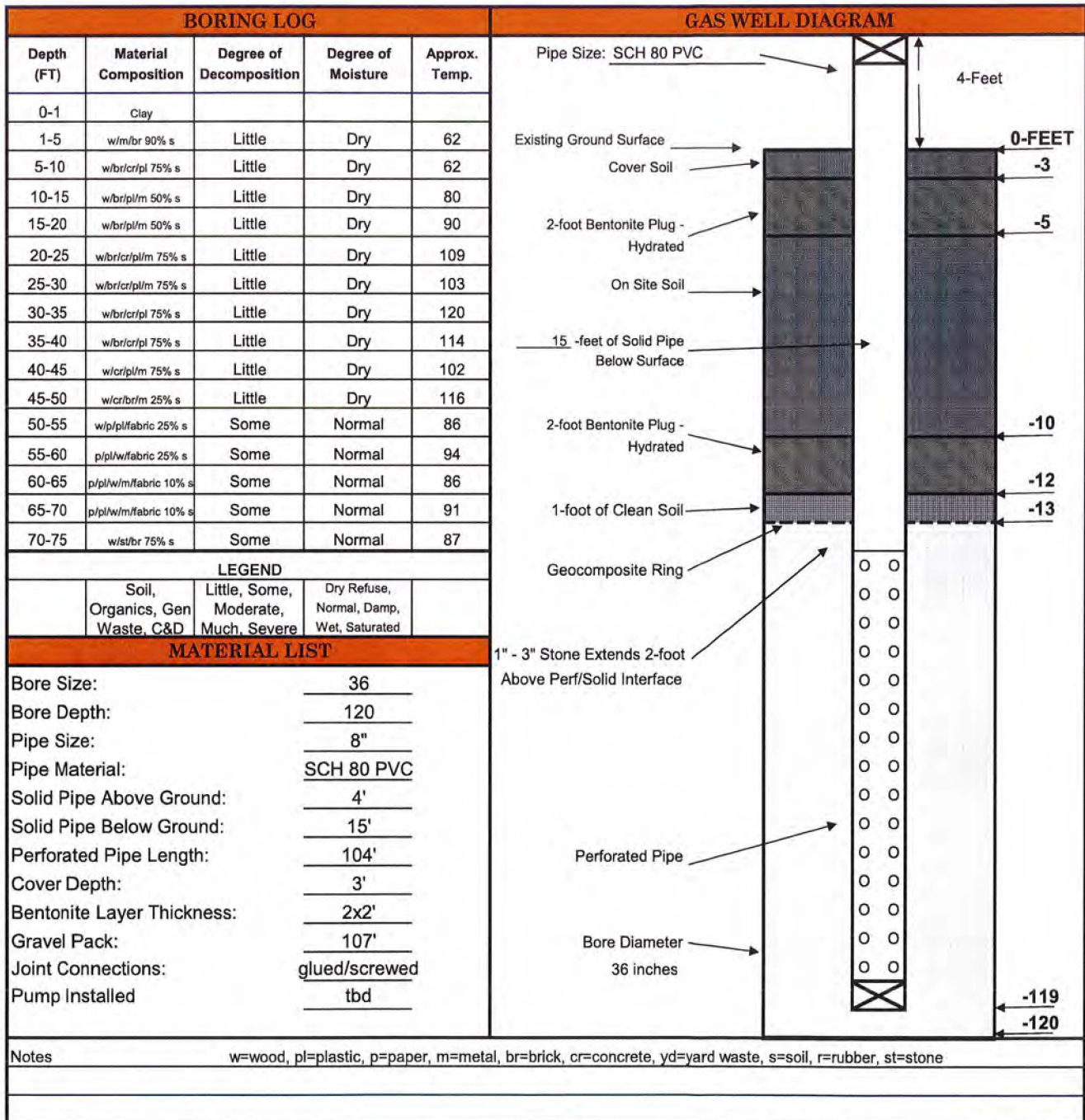
BEL PROJECT#: 2016.065

NORTHING: 4577

EASTING: 3424

ELEVATION: 1189

CONTRACTOR/SUPERVISOR: GLF/Josh Luft



Notes w=wood, pl=plastic, p=paper, m=metal, br=brick, cr=concrete, yd=yard waste, s=soil, r=rubber, st=stone

BEL REPRESENTATIVE: John Langenderfer



# GAS EXTRACTION WELL LOG



WELL ID: WW-312

DATE: 5/31/16

PROJECT NAME: Arbor Hills Landfill

PAGE: 1 of 2

BEL PROJECT#: 2016.065

NORTHING: 4568

EASTING: 3626

ELEVATION: 1186

CONTRACTOR/SUPERVISOR: GLF/Josh Luft

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
0-5	w/pl/br/cr 50% s	Little	Dry	70		
5-10	w/pl/br/cr 50% s	Little	Dry	82		
10-15	w/pl/br/cr 50% s	Little	Dry	89		
15-20	w/pl/br/cr 25% s	Little	Dry	102		
20-25	straw/w/pl 50% s	Little	Moist	117		
25-30	cr/w/pl/br/m 25% s	Little	Moist	102		
30-35	w/pl/br 75% s	Little	Dry	109		
35-40	w/pl/br 75% s	Little	Dry	116		
40-45	w/pl/br/cr/m 50% s	Little	Dry	114		
45-50	w/pl/br/cr/m 50% s	Little	Dry	110		
50-55	w/pl/fabric/p 50% s	Some	Dry	122		
55-60	p/m/w/pl 50% s	Some	Dry	116		
60-65	p/pl/w/yd 25% s	Some	Damp	108		
65-70	yd/br/w/m 90% s	Some	Damp	116		
70-75	w/pl/br/fabric 50% s	Moderate	Damp	124		
75-80	w/pl/r/fabric 80% s	Moderate	Damp	109		
LEGEND						
Soil, Organics, Gen Waste, C&D		Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
MATERIAL LIST						
Bore Size:		<u>36</u>				
Bore Depth:		<u>103</u>				
Pipe Size:		<u>8"</u>				
Pipe Material:		<u>SCH 80 PVC</u>				
Solid Pipe Above Ground:		<u>4'</u>				
Solid Pipe Below Ground:		<u>15'</u>				
Perforated Pipe Length:		<u>87'</u>				
Cover Depth:		<u>3'</u>				
Bentonite Layer Thickness:		<u>2x2'</u>				
Gravel Pack:		<u>90'</u>				
Joint Connections:		<u>glued/screwed</u>				
Pump Installed		<u>tbd</u>				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Pipe Size: <u>SCH 80 PVC</u></p> <p>Existing Ground Surface</p> <p>Cover Soil</p> <p>2-foot Bentonite Plug - Hydrated</p> <p>On Site Soil</p> <p>15 -feet of Solid Pipe Below Surface</p> <p>2-foot Bentonite Plug - Hydrated</p> <p>1-foot of Clean Soil</p> <p>Geocomposite Ring</p> <p>1" - 3" Stone Extends 2-foot Above Perf/Solid Interface</p> <p>87 -feet of Perf Pipe</p> <p>Bore Diameter 36 inches</p> </div> <div style="width: 50%; text-align: right;"> <p>4-Feet</p> <p>0- FEET</p> <p>-3</p> <p>-5</p> <p>-10</p> <p>-12</p> <p>-13</p> <p>-102</p> <p>-103</p> </div> </div>						
Notes					w=wood, pl=plastic, p=paper, m=metal, br=brick, cr=concrete, yd=yard waste, s=soil, r=rubber	

BEL REPRESENTATIVE: John Langenderfer

# GAS EXTRACTION WELL LOG



WELL ID: WW-312

DATE: 5/31/16

PROJECT NAME: Arbor Hills Landfill

PAGE: 2 of 2

BEL PROJECT#: 2016.065

NORTHING: 4568

EASTING: 3626

ELEVATION: 1186

CONTRACTOR/SUPERVISOR: GLF/Josh Luft

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
85-90	w/br/cr 90% s	Little	Dry	115	Pipe Size: SCH 80 PVC	4-Feet
90-95	pl/w/cr/fabric 90% s	Little	Dry	115	Existing Ground Surface	0-feet
95-100	cr/w/br 50% s	Little	Dry	118	Cover Soil	-3
100-103	w/pl/cr 90% s	Little	Dry	124	2-foot Bentonite Plug - Hydrated	-5
					On Site Soil	
					15 -feet of Solid Pipe Below Surface	
					2-foot Bentonite Plug - Hydrated	-10
					1-foot of Clean Soil	-12
					Geocomposite Ring	-13
					1" - 3" Stone Extends 2-foot Above Perf/Solid Interface	
					87 -feet of Perf Pipe	
					Bore Diameter 36 inches	
						-102
						-103
<b>LEGEND</b>						
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
<b>MATERIAL LIST</b>						
Bore Size:	<u>36</u>					
Bore Depth:	<u>103</u>					
Pipe Size:	<u>8"</u>					
Pipe Material:	<u>SCH 80 PVC</u>					
Solid Pipe Above Ground:	<u>4'</u>					
Solid Pipe Below Ground:	<u>15'</u>					
Perforated Pipe Length:	<u>87'</u>					
Cover Depth:	<u>3'</u>					
Bentonite Layer Thickness:	<u>2x2'</u>					
Gravel Pack:	<u>90'</u>					
Joint Connections:	<u>glued/screwed</u>					
Pump Installed	<u>tbd</u>					
Notes <span style="float: right;">w=wood, pl=plastic, p=paper, m=metal, br=brick, cr=concrete, yd=yard waste, s=soil, r=rubber</span>						

BEL REPRESENTATIVE: John Langenderfer

# GAS EXTRACTION WELL LOG



WELL ID: WW-315

DATE: 5/19/16

PROJECT NAME: Arbor Hills LF - 2016 GCCS Construction

NORTHING: 4640

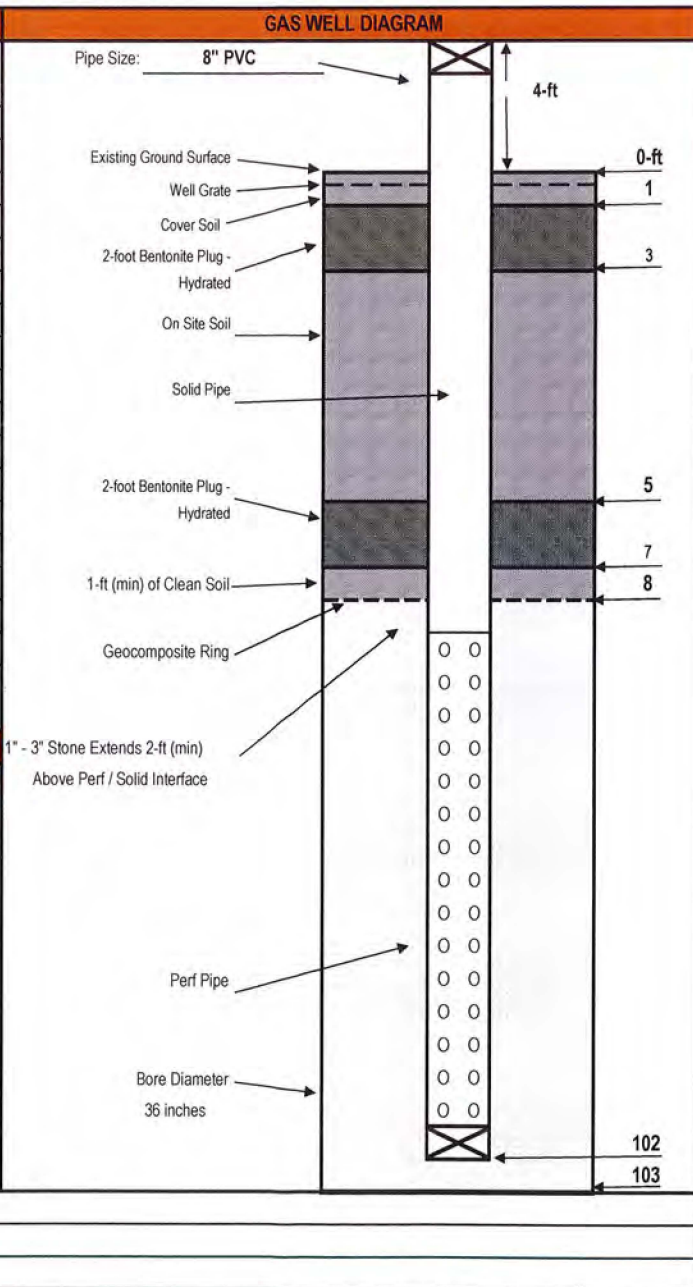
BEL PROJECT#: 2016.065

EASTING: 3993

ELEVATION: 1167

CONTRACTOR/SUPERVISOR: Great Lakes Fusion - Joe Green

BORING LOG					GAS WELL DIAGRAM	
Depth (FT)	Material Composition	Degree of Decomposition	Degree of Moisture	Approx. Temp.		
0-2	SOIL	-	-	-		
2-10	Soil / Ash / C&D	LIGHT	DRY	77		
10-20	Ash / C&D	LIGHT	DRY	81		
20-30	Ash / C&D	LIGHT	DRY	98		
30-40	Ash / C&D	LIGHT	DRY	112		
40-50	Ash / C&D	LIGHT	Moist	111		
50-60	GW	Mod	Moist	120		
60-70	GW	Mod	Moist	115		
70-80	GW	Heavy	Moist	117		
80-90	GW	Heavy	Moist	118		
90-100	GW	Heavy	Moist	120		
100-103	GW	Heavy	Moist	122		
Gas Extraction Well Set @ 103'						
LEGEND						
	Soil, Organics, Gen Waste, C&D	Little, Some, Moderate, Much, Severe	Dry Refuse, Normal, Damp, Wet, Saturated			
MATERIAL LIST						
Bore Size (inch):	36"					
Bore Depth (ft):	103'					
Pipe Size (inch):	8'					
Pipe Material:	SCH 80 PVC					
Solid Pipe Above Ground (ft):	4'					
Solid Pipe Below Ground (ft):	10'					
Perforated Pipe Length (ft):	92'					
Cover Depth (ft):	1'					
Bentonite Layer Thickness (ft):	2'x2					
Gravel Pack (ft):	95'					
Joint Connections:	Glue / screws					
Pump Installed:	TBD					
Well Grate Installed:	Yes					
Notes: Ash has a strong ammonia odor.						



BEL REPRESENTATIVE: Brandan K Darragh



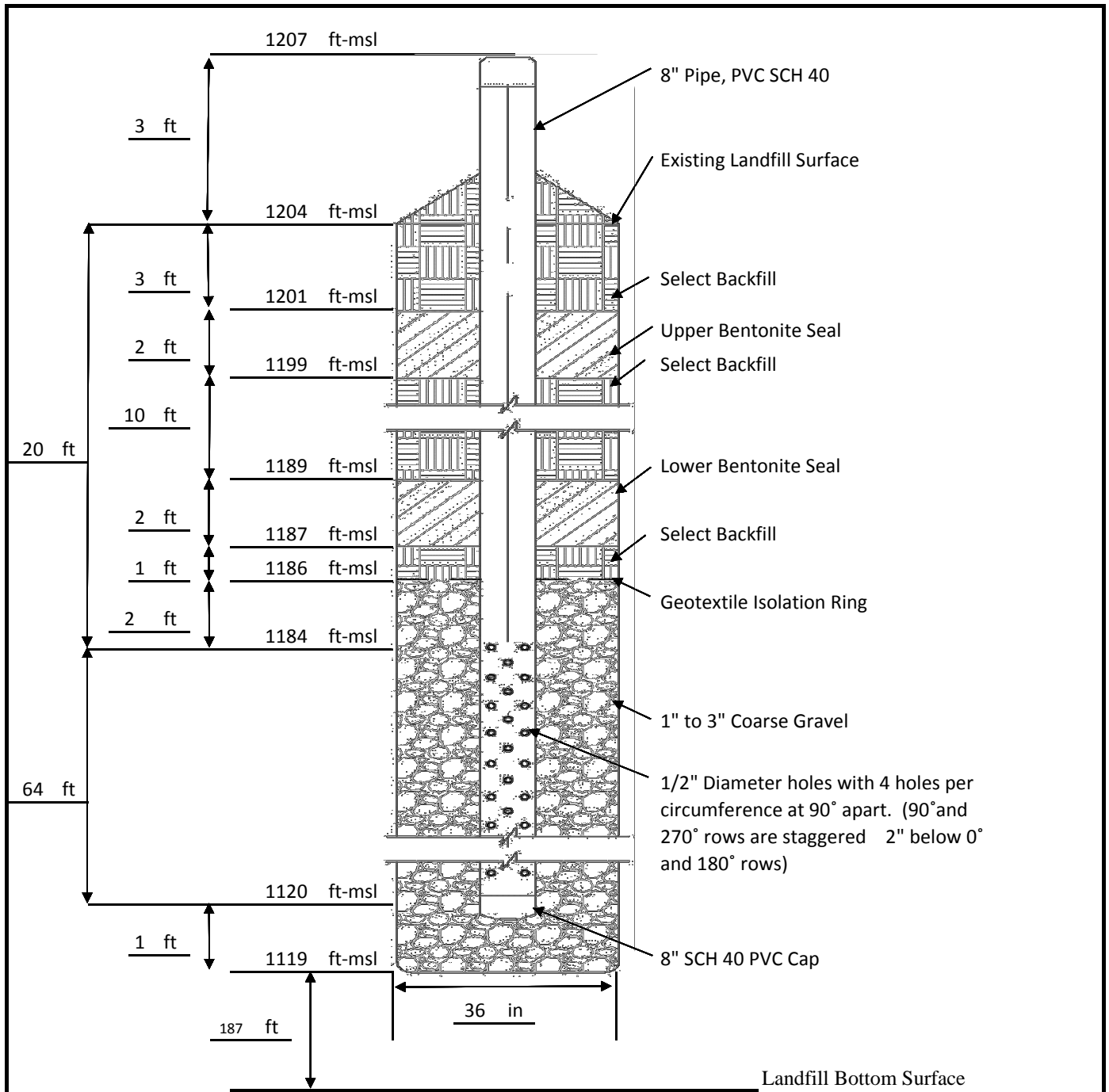
## Gas Extraction Well Drilling Summary

Weaver Consultants Group

Landfill Site: Arbor Hills Extraction Well Number: WW-285R  
 Date - Time Drilling Started: 5/6/2018 - 10:45 AM Date - Time Drilling Finished: 5/6/2018 - 2:40 PM  
 Date - Time Well Completed: 5/6/2018 - 4:15 PM Elevation of Ground Surface (ft): 1204.05  
 Depth of Cover Soil (ft): 1 Northing: 4712.00 Easting: 3407.00  
 Total Depth of Borehole (ft): 85 Solid Pipe (ft-bgs): 20 Perforated Pipe Length: 64

Notes: Water at 78' - Stopped at 85' - Watered out. Required 100'

Depth (ft)	Material	Decomp.	Moisture	Temp. (°F)
0 - 10	C+D - Brick - Block - Metal - Soil	/	Dry Refuse	116
10 - 20	C+D - Brick - Block - Metal - Soil	/	Dry Refuse	121
20 - 30	C+D - Brick - Block - Metal - Soil - Wood - Rebar	/	Damp	112
30 - 40	Brick - Block - Metal - Soil - Wood	/	Damp	122
40 - 50	C+D - Brick - Soil - Wood - Rebar	/	Damp	126
50 - 60	C+D - Brick - Soil - Wood - Rebar	/	Damp	122
60 - 70	C+D - Brick - Soil - Wood - Rebar	/	Damp	134
70 - 80	C+D - Brick - Soil - Wood	/	Wet	119
80 - 90	C+D - Brick - Soil - Wood - Metal	/	Saturated	120
90 - 100		/		
100 - 110		/		
110 - 120		/		
120 - 130		/		
130 - 140		/		



Landfill Bottom Surface

Extraction Well Number	Ground Surface Elevation (ft-msl)	Bottom of Waste Elevation (ft-msl)	Elevation of Bottom of Well (ft-msl)	Total Borehole Depth (ft)	Solid Pipe Length (ft-bgs)	Perforated Pipe Length (ft)
WW-285R	1204.05	932	1120	85	20	64
Northing: 4712.00		Easting: 3407.00		Driller: Tri-Con		

INSTALLATION REPORT LFG EXTRACTION WELL		
Client:	Advanced Disposal	
Site Name:	Arbor Hills	
Location:	Northville, MI	
<b>Weaver Consultants Group</b>		
Completed by:	Installation Date:	Well ID
R. Liggett	5/6/2018	WW-285R

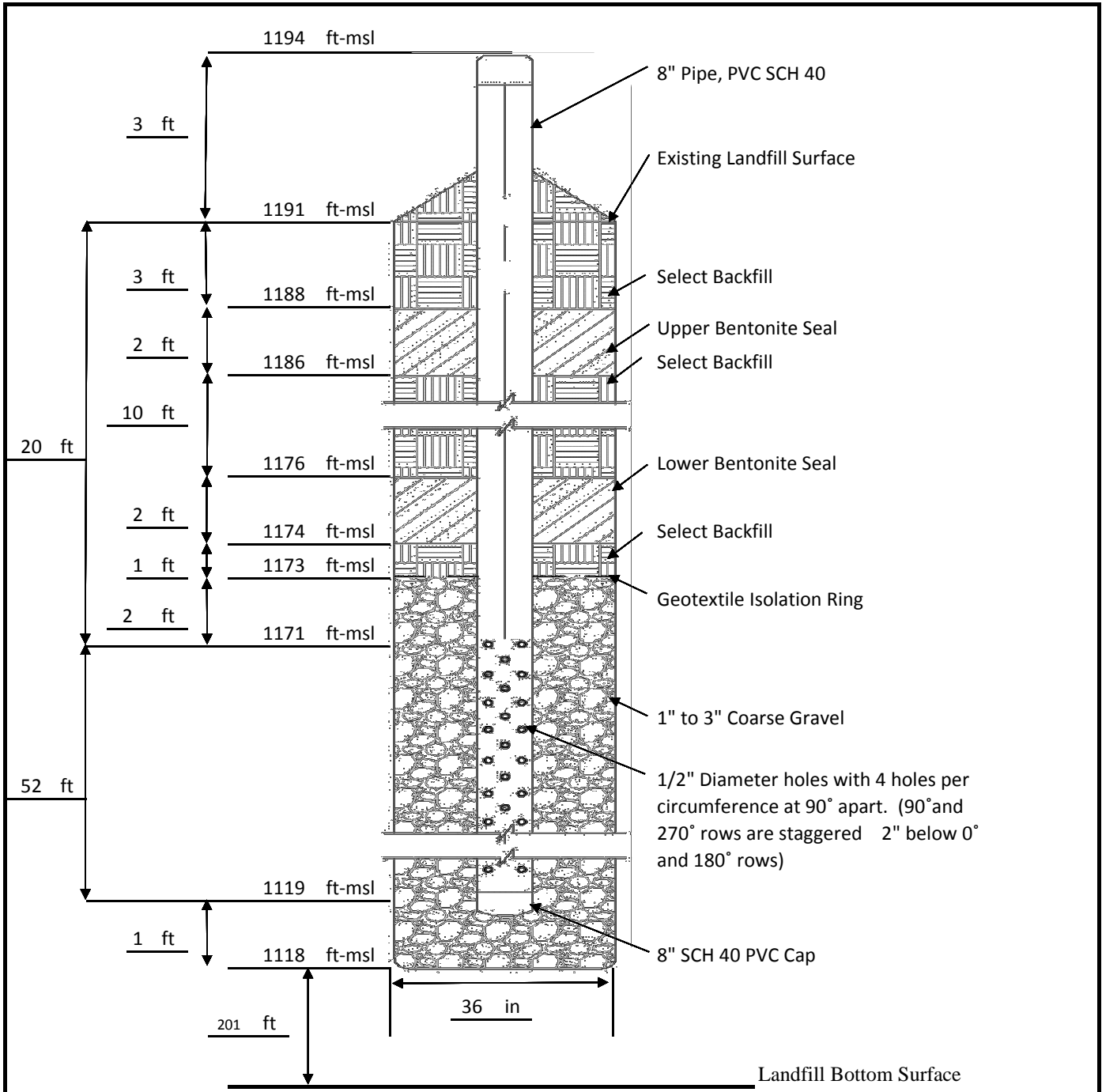
# Gas Extraction Well Drilling Summary

Weaver Consultants Group

Landfill Site: Arbor Hills Extraction Well Number: WW-286R  
 Date - Time Drilling Started: 5/12/2018 - 7:00 AM Date - Time Drilling Finished: 5/12/2018 - 10:00 AM  
 Date - Time Well Completed: 5/12/2018 - 11:30 AM Elevation of Ground Surface (ft): 1191  
 Depth of Cover Soil (ft): 1 Northing: 4777.00 Easting: 3260.00  
 Total Depth of Borehole (ft): 73 Solid Pipe (ft-bgs): 20 Perforated Pipe Length: 52

Notes: Water at 70'. Watered out at 73'. Required 100'.

Depth (ft)	Material	Decomp.	Moisture	Temp. (°F)
0 - 10	Cover Soil 0' - Metal - Wood - Rebar		Dry Refuse	106
10 - 20	Metal - Wood - Rebar - Brick		Dry Refuse	126
20 - 30	Metal - Wood - Rebar - Cement		Damp	124
30 - 40	Metal - Wood - Rebar - Cement		Damp	127
40 - 50	Metal - Wood - Rebar - Cement		Damp	133
50 - 60	Metal - Wood - Rebar - Cement	Some	Damp	127
60 - 70	Metal - Wood - Rebar - Cement	Some	Saturated	130
70 - 80	Stopped at 73' (Watered out)			
80 - 90				
90 - 100				
100 - 110				
110 - 120				
120 - 130				
130 - 140				



Landfill Bottom Surface

Extraction Well Number	Ground Surface Elevation (ft-msl)	Bottom of Waste Elevation (ft-msl)	Elevation of Bottom of Well (ft-msl)	Total Borehole Depth (ft)	Solid Pipe Length (ft-bgs)	Perforated Pipe Length (ft)
WW-286R	1191	917	1119	73	20	52
Northing: 4777.00		Easting: 3260.00		Driller: Tri-Con		

INSTALLATION REPORT		
LFG EXTRACTION WELL		
Client:	Advanced Disposal	
Site Name:	Arbor Hills	
Location:	Northville, MI	
<b>Weaver Consultants Group</b>		
Completed by:	Installation Date:	Well ID
R. Liggett	5/12/2018	WW-286R

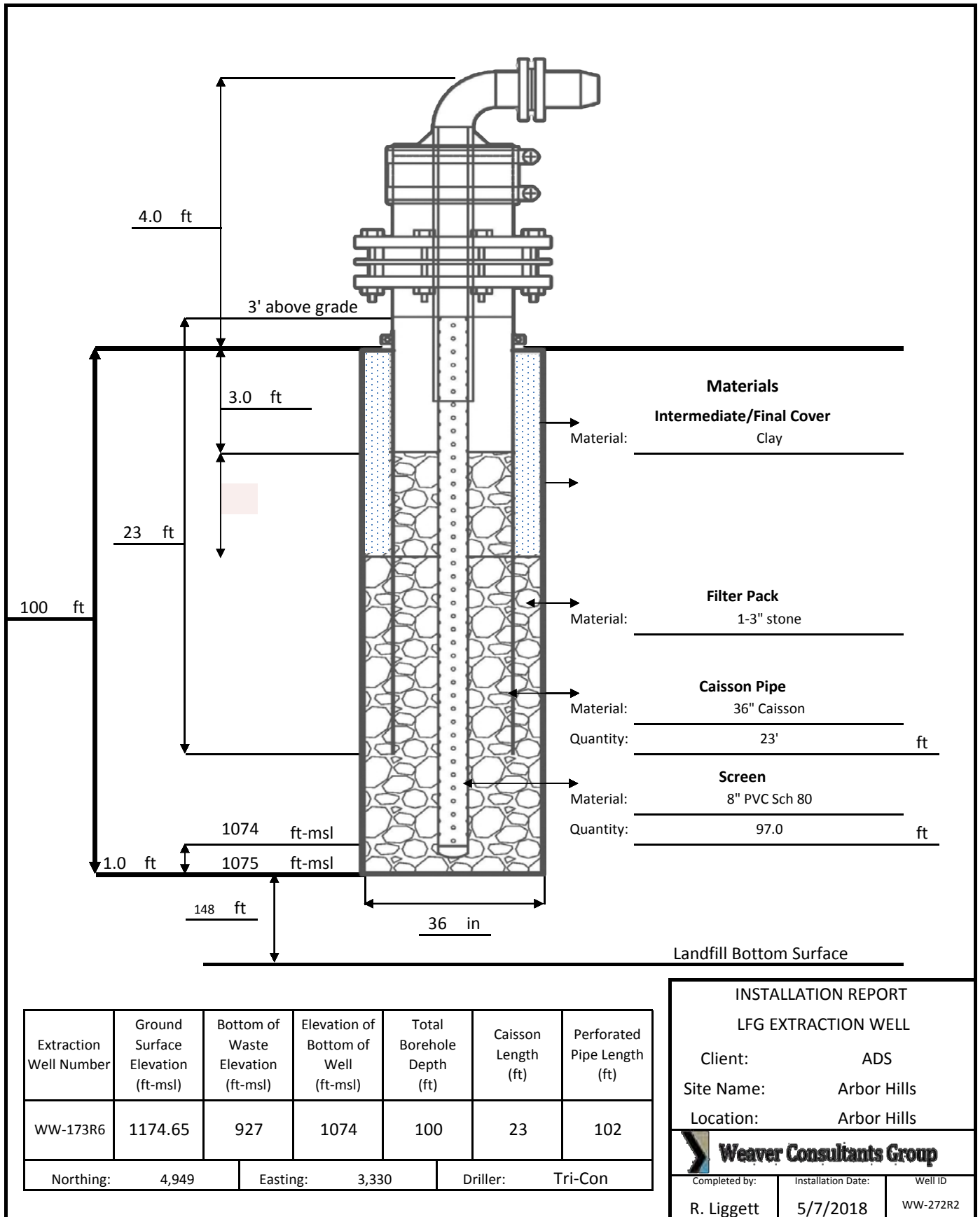
# Gas Extraction Well Drilling Summary

Weaver Consultants Group

Landfill Site: Arbor Hills Extraction Well Number: WW-272R2  
 Date - Time Drilling Started: 5/7/2018 - 7:00 AM Date - Time Drilling Finished: 5/7/2018 - 12:30 PM  
 Date - Time Well Completed: 5/7/2018 - 2:00 PM Elevation of Ground Surface (ft): 1174.65  
 Depth of Cover Soil (ft): 2 Northing: 4,949 Easting: 3,330  
 Total Depth of Borehole (ft): 100 Caisson Pipe (ft): 23 Perforated Pipe Length: 102

Notes: Full Depth

Depth (ft)	Material	/	Decomp.	/	Moisture	/	Temp. (°F)
0 - 10	<u>Cover soil 2' - C+D</u>	/		/		/	<u>70</u>
10 - 20	<u>C+D - Brick - Soil - Wood</u>	/		/		/	<u>72</u>
20 - 30	<u>Paper - Plastics - Wood - Soil</u>	/		/		/	<u>70</u>
30 - 40	<u>Paper - Plastics - Wood</u>	/		/		/	<u>71</u>
40 - 50	<u>Paper - Plastics - Wood</u>	/		/		/	<u>76</u>
50 - 60	<u>Paper - Plastics - Wood</u>	/		/		/	<u>78</u>
60 - 70	<u>Paper - Plastics - Wood</u>	/		/		/	<u>102</u>
70 - 80	<u>Paper - Plastics - Wood</u>						<u>104</u>
80 - 90	<u>Paper - Plastics - Wood</u>						<u>122</u>
90 - 100	<u>Paper - Plastics - Wood</u>	/		/		/	
100 - 110		/		/		/	
110 - 120		/		/		/	
120 - 130		/		/		/	
130 - 140		/		/		/	



Extraction Well Number	Ground Surface Elevation (ft-msl)	Bottom of Waste Elevation (ft-msl)	Elevation of Bottom of Well (ft-msl)	Total Borehole Depth (ft)	Caisson Length (ft)	Perforated Pipe Length (ft)
WW-173R6	1174.65	927	1074	100	23	102
Northing: 4,949		Easting: 3,330		Driller: Tri-Con		

INSTALLATION REPORT		
LFG EXTRACTION WELL		
Client:	ADS	
Site Name:	Arbor Hills	
Location:	Arbor Hills	
<b>Weaver Consultants Group</b>		
Completed by:	Installation Date:	Well ID
R. Liggett	5/7/2018	WW-272R2

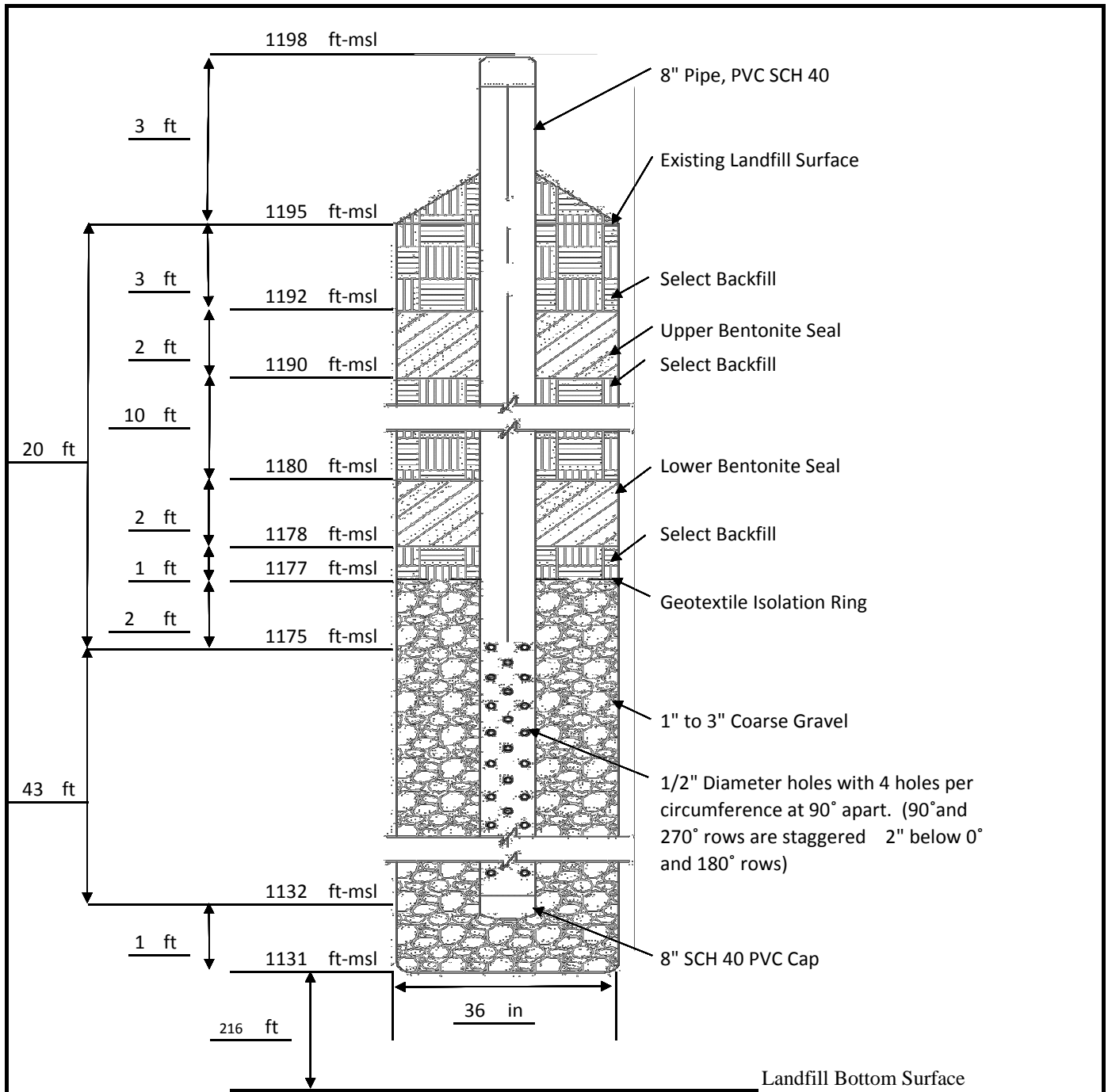
# Gas Extraction Well Drilling Summary

Weaver Consultants Group

Landfill Site: Arbor Hills Extraction Well Number: WW-310R  
 Date - Time Drilling Started: 5/7/2018 - 1:20 PM Date - Time Drilling Finished: 5/7/2018 - 3:45 PM  
 Date - Time Well Completed: 5/7/2018 - 6:00 PM Elevation of Ground Surface (ft): 1195  
 Depth of Cover Soil (ft): 2 Northing: 4598.00 Easting: 3245.00  
 Total Depth of Borehole (ft): 64 Solid Pipe (ft-bgs): 20 Perforated Pipe Length: 43

Notes: Stopped at 64" - Rebar - Metal - Hard  
Set Well - 64' Required 100

Depth (ft)	Material	Decomp.	Moisture	Temp. (°F)
0 - 10	Cover Soil - 2' C+D - Wood - Metal - Cement	Little	Dry Refuse	67
10 - 20	C+D - Wood - Metal - Concrete - Soil	Little	Dry Refuse	97
20 - 30	C+D - Wood - Metal - Concrete - Soil	Little	Dry Refuse	99
30 - 40	C+D - Wood - Metal - Concrete - Soil	Little	Dry Refuse	117
40 - 50	C+D - Wood - Metal - Concrete - Soil	Little	Dry Refuse	129
50 - 60	C+D - Wood - Metal - Concrete - Soil	Some	Damp	122
60 - 70	C+D - Wood - Metal - Concrete - Rebar 64'	Some	Damp	122
70 - 80				
80 - 90				
90 - 100				
100 - 110				
110 - 120				
120 - 130				
130 - 140				



Extraction Well Number	Ground Surface Elevation (ft-msl)	Bottom of Waste Elevation (ft-msl)	Elevation of Bottom of Well (ft-msl)	Total Borehole Depth (ft)	Solid Pipe Length (ft-bgs)	Perforated Pipe Length (ft)
WW-310R	1195	915	1132	64	20	43
Northing: 4598.00		Easting: 3245.00		Driller: Tri-Con		

**INSTALLATION REPORT**  
**LFG EXTRACTION WELL**

Client: Advanced Disposal  
 Site Name: Arbor Hills  
 Location: Northville, MI

**Weaver Consultants Group**

Completed by: R. Liggett	Installation Date: 5/7/2018	Well ID: WW-310R
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## **Attachment 3**





GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
JACKSON DISTRICT OFFICE



LIESL EICHLER CLARK  
DIRECTOR

April 11, 2019

Mr. Anthony Testa  
Advanced Disposal Services, Arbor Hills Landfill Inc.  
10833 West Five Mile Road – Building B  
Northville, MI 48168

SRN: N2688, Washtenaw County

Dear Mr. Testa:

**SUBJECT:** Arbor Hills Landfill, Washtenaw County  
Alternative Operating Temperature Request

The Michigan Department of Environmental Quality, Air Quality Division (AQD), met with Advanced Disposal Service, Arbor Hills Landfill (AHL) per request on March 28, 2019 and received two letters from you following our meeting. During the meeting AHL notified AQD of an ongoing elevated temperature event occurring within an area containing an identified 13 landfill gas wells. One of the letters was AHL's formal request for alternative operating temperatures or higher operating values (HOVs) for the subject wells.

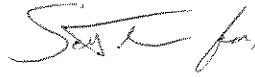
The New Source Performance Standard (NSPS) for Municipal Solid Waste Landfills, 40 CFR 60, Subpart WWW requires AHL to monitor its well field on a monthly basis in accordance with 40 CFR 60.755(a). Operating requirements for gas collection and control systems (GCCS) are promulgated at 40 CFR Sec. 60.753(b), (c), and (d). These requirements are also contained in AHL Renewable Operating Permit MI-ROP-N2688-2011a, Section 2.

The AHL's letter included specific information for each identified well, a description of the event they attributed to "non-methanogenic degradation process of a special waste stream accepted at the landfill" and six months of well data for each well. The AHL request included some corrective actions proposed to reduce water thereby reducing heat in the subject area. AHL requested AQD approval of HOVs proposed for these wells.

Based on the information provided and our observations to date, AQD believes there is a significant elevated temperature event occurring at the landfill. While AQD agrees immediate and aggressive corrective actions are necessary we are unable to approve the HOVs requested. The comprehensive program and schedule AHL needs to implement in order to address and resolve this event will need to be incorporated into and made enforceable through the currently ongoing escalated enforcement process.

Thank you for your cooperation. If you have any questions pertaining to this response, please contact me at the number listed below.

Sincerely,



Diane Kavanaugh Vetort  
Senior Environmental Quality Analyst  
Air Quality Division  
(517) 416-3537

cc.

Mr. Mark Johnson, ADS

Mr. Randy Frank, ADS

Ms. Suparna Chakladar, Fortistar

Ms. Dana Oleniacz, Air Quality Specialists, Inc. (AQSI)

Mr. Larry Bean, DEQ

Mr. Greg Morrow, DEQ

Mr. Scott Miller, DEQ

Mr. Mike Kovalchick, DEQ

Ms. Jenine Camillari, DEQ

Ms. Melinda Shine, DEQ