Bridgeton Landfill, LLC

Monthly Data Submittals

February 2018

Required by Section 52.E of Agreed Order, Case No. 13SL-CC01088
Effective May 13, 2013

Contents:

Commentary on Data
Attachment A Work Completed and Planned
Attachment B Daily Flare Monitoring Data
- **B-1** Flow Data Table
- **B-2** Flow Data Graphs
- **B-3** Flare TRS / Flare Station Flow

Attachment C Gas Well Analyses Maps
Attachment D Laboratory Data
- **D-1** Lab Analyses Summary
- **D-2** Lab Analyses Reports

Attachment E Gas Wellfield Data
- **E-1** Wellfield Data Table
- **E-2** Maximum Wellhead Temperature Table

Attachment F Settlement Front Map
Attachment G Summary of Odor Complaints
Attachment H Liquid Characterization Data and Discharge Log
Attachment I Low Fill Project Area
- **I-1** Low Fill Area Boundary

Provided Separately:

– Flare Raw Data Excel Spreadsheet
– Gas Wellfield Raw Data Excel Spreadsheet

March 20, 2018

Commentary on Data

March 20, 2018

The following observations and comments are offered during this time period:

Gas Volume

- As seen in Attachment B-1, the gas collection volumetric rate in for this month averaged 267 SCFM from the North Quarry and 1,064 SCFM from the South Quarry, for a total site flow of 1,331 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.

Gas Quality

- Attachments D and E contain the monthly data related to gas quality as measured at the respective wellheads.

- Attachment E-1 contains vertical wells which had oxygen levels over 5% at one (1) or more weekly monitoring events during this reporting period. These consisted of 48 GEW wells that are experiencing low or restricted flows, and six (6) GIW wells that have low gas flow due to the cooling loops that are installed within these wells. By the end of the month, 29 of the GEW wells and 4 of the GIW wells still exhibited oxygen at the wellhead at or greater than 5%. All of these wells are low-flow/vacuum sensitive wells with valves only slightly open. On-going tuning, maintenance, and pump operation are being performed to manage the oxygen content. With the exception of GEW-1A, all of these wells are in the South Quarry area where the flexible membrane liner cap is in place to prevent atmospheric intrusion into the waste mass. Please note that the abnormal cold ambient temperatures toward the end of 2017 and during the beginning of 2018 may have affected landfill gas collection and gas well tuning.

- Attachment E-2 contains gas temperatures as measured at the wellheads. Twelve (12) vertical wells (excluding GIW wells) increased by 30°F during this reporting period. Additionally, five (5) vertical wells (excluding GIW wells) decreased by 30°F or more. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.

- All gas wells in the North Quarry during this reporting period exhibited a maximum wellhead temperature under 145°F. Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (60 ppm), GEW-054 (28 ppm) and GEW-055 (30 ppm), consistent with past events.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 1.07 feet over 32 days for this reporting period (see Attachment F). While the maximum settlement in the South Quarry is higher than recent measurements, the overall average settlement across the South Quarry has remained typical with the last several months. This specific settlement measurement (1.07 feet) occurred on the newly placed fill project, and most likely the

increased maximum settlement is due to the consolidation of the waste from the overburden weight of the soil fill.

Bird Monitoring and Mitigation

- Bridgeton Landfill conducted bird monitoring during this reporting period in accordance with the Approved Bird Hazard Monitoring and Mitigation Plan, last updated in December 2016. Birds noted on-site are dispersed using pyrotechnics, a cap gun, vehicles, or on foot. Logs of bird population observations are provided to the Airport and the USDA APHIS Wildlife Services on a weekly basis.

Low Fill Project Area

- Enclosed is the requested clean fill placement figure in accordance with the June 19, 2015 letter from the Missouri Department of Natural Resources (MDNR) granting modification approval to Permit number 0118912. This modification allows for the acceptance of clean fill and use thereof as a method of re-establishing positive surface drainage and maintaining structural stability of landfill infrastructure. Condition 4 of this approval is satisfied via the text below and the accompanying figure in Attachment I-1.

- Clean fill activities commenced on June 28th 2017 and continued until January 15th 2018.

ATTACHMENT A

WORK COMPLETED AND PLANNED

Bridgeton Landfill, LLC
Monthly Summary of Work Completed and Planned

Work Completed in February 2018

Gas Collection and Control System (GCCS)

- Continued operation and maintenance of GCCS system.
- Continued upgrades to GCCS system as necessary.

Heat Extraction System (HES)

- Continued operation and maintenance of the HES (pilot and barrier wells).

Leachate Management System

- Continued routine operation of previously installed and upgraded features.

Pre-Treatment Facility

- Continued ongoing operation of facility.
- Continued to optimize operation efficiency of pre-treatment facility.
- Permeate continued to be discharged directly to St. Louis Metropolitan Sewer District (MSD) – Bissell Point Facility or other approved disposal facilities as determined by MSD.

Other Projects

- Continued construction of alternative first responder entrance, dependent on suitable weather conditions and contractor availability.

Work Planned for March 2018

Gas Collection and Control System (GCCS)

- Continue operation and maintenance of GCCS system.
- Continue upgrades to GCCS system as necessary.

Heat Extraction System (HES)

- Continue operation and maintenance of the HES.
- Continue upgrades to the HES as necessary.

Leachate Management System

- Continue routine operation of previously installed and upgraded features.

Pre-Treatment Facility

- Ongoing operation of facility.
- Continue to optimize operation efficiency of pre-treatment facility.
- Permeate will continue to be discharged directly to MSD – Bissell Point Facility or other approved disposal facilities as determined by MSD.

Other Projects:

- Continue construction of alternative first responder entrance, pending suitable weather conditions and contractor availability.

ATTACHMENT B

DAILY FLARE MONITORING DATA

ATTACHMENT B-1

FLOW DATA TABLE

Daily Flare Monitoring Data - Bridgeton Landfill
February 2018

Date	Average Device Flow* (scfm)				Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	EP14 NQ Utility Flare***	
2/1/2018	0	1,139	0	245	1,384
2/2/2018	0	1,124	0	237	1,361
2/3/2018	0	1,125	0	242	1,368
2/4/2018	0	1,082	0	232	1,315
2/5/2018	0	1,074	0	232	1,306
2/6/2018	0	1,074	0	224	1,298
2/7/2018	0	1,073	0	228	1,302
2/8/2018	0	1,072	0	262	1,334
2/9/2018	0	1,072	0	256	1,328
2/10/2018	0	1,048	0	255	1,303
2/11/2018	0	1,016	0	253	1,270
2/12/2018	0	1,035	0	261	1,296
2/13/2018	0	1,062	0	264	1,326
2/14/2018	0	1,080	0	262	1,342
2/15/2018	104	855	0	273	1,232
2/16/2018	404	676	0	279	1,359
2/17/2018	0	1,075	0	291	1,366
2/18/2018	0	1,070	0	293	1,363
2/19/2018	0	1,078	0	287	1,365
2/20/2018	0	1,071	0	287	1,358
2/21/2018	0	1,031	0	288	1,320
2/22/2018	0	1,041	0	295	1,336
2/23/2018	0	1,045	0	287	1,333
2/24/2018	0	1,040	0	288	1,329
2/25/2018	0	1,031	0	284	1,315
2/26/2018	0	1,052	0	286	1,338
2/27/2018	0	1,088	0	291	1,379
2/28/2018	0	1,054	0	295	1,349
AVERAGE	**18**	**1,046**	**0**	**267**	**1,331**

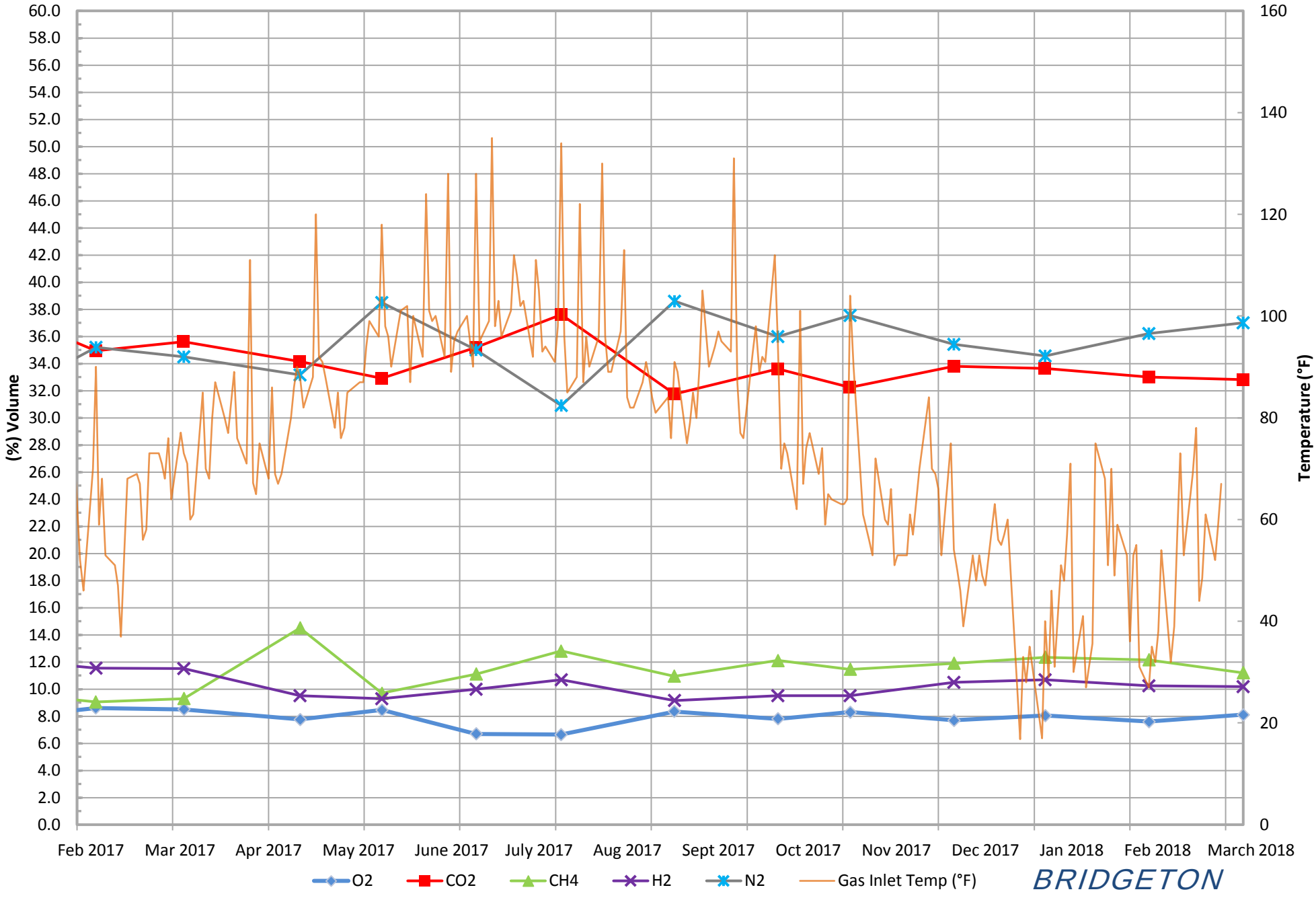
* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified

*** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.

ATTACHMENT B-2

FLOW DATA GRAPHS

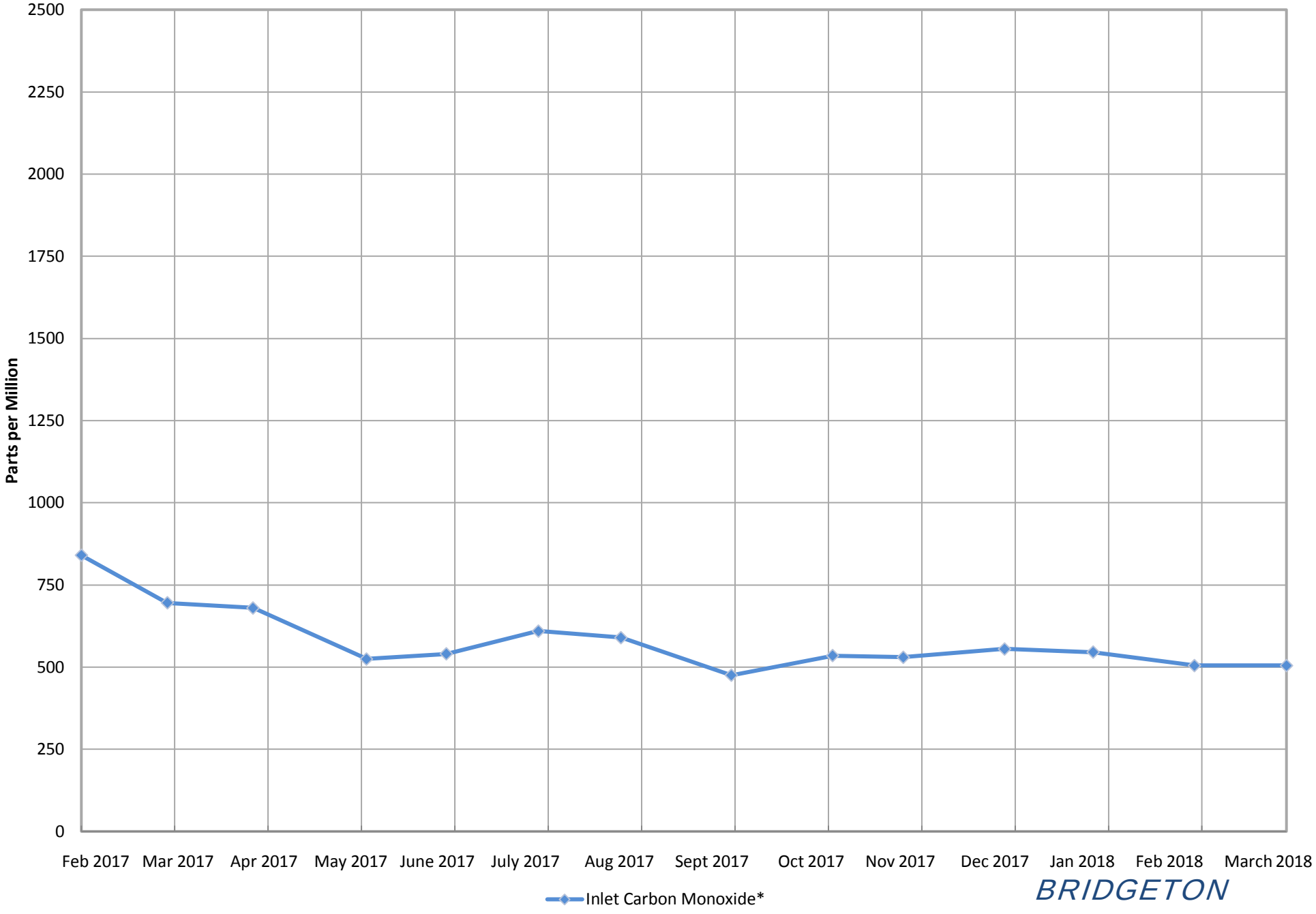
South Quarry Inlet Gas and Temperature*



*Gas data collected from Laboratory Reports. Temperature data collected from field readings.

BRIDGETON LANDFILL

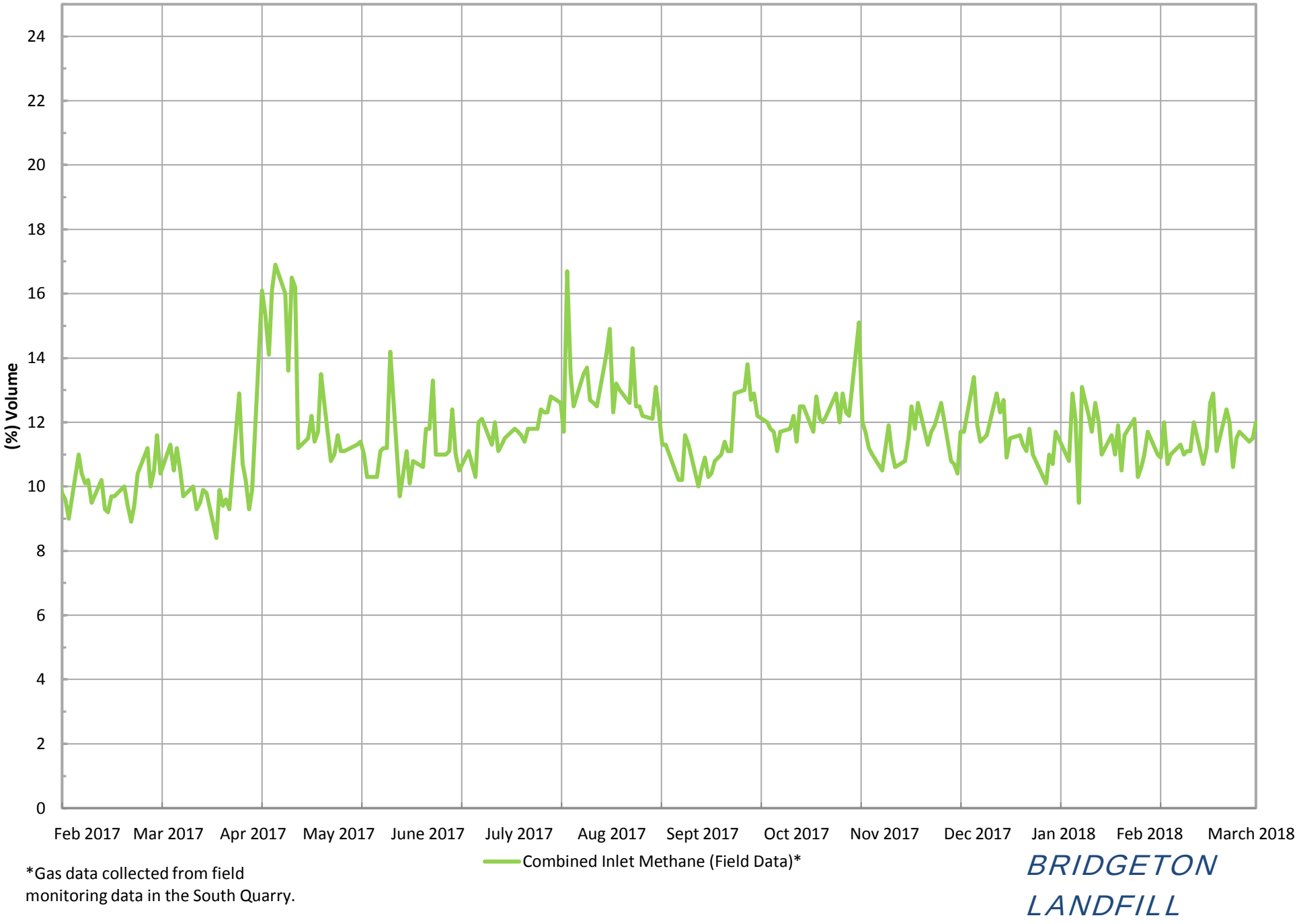
South Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the South Quarry.

BRIDGETON LANDFILL

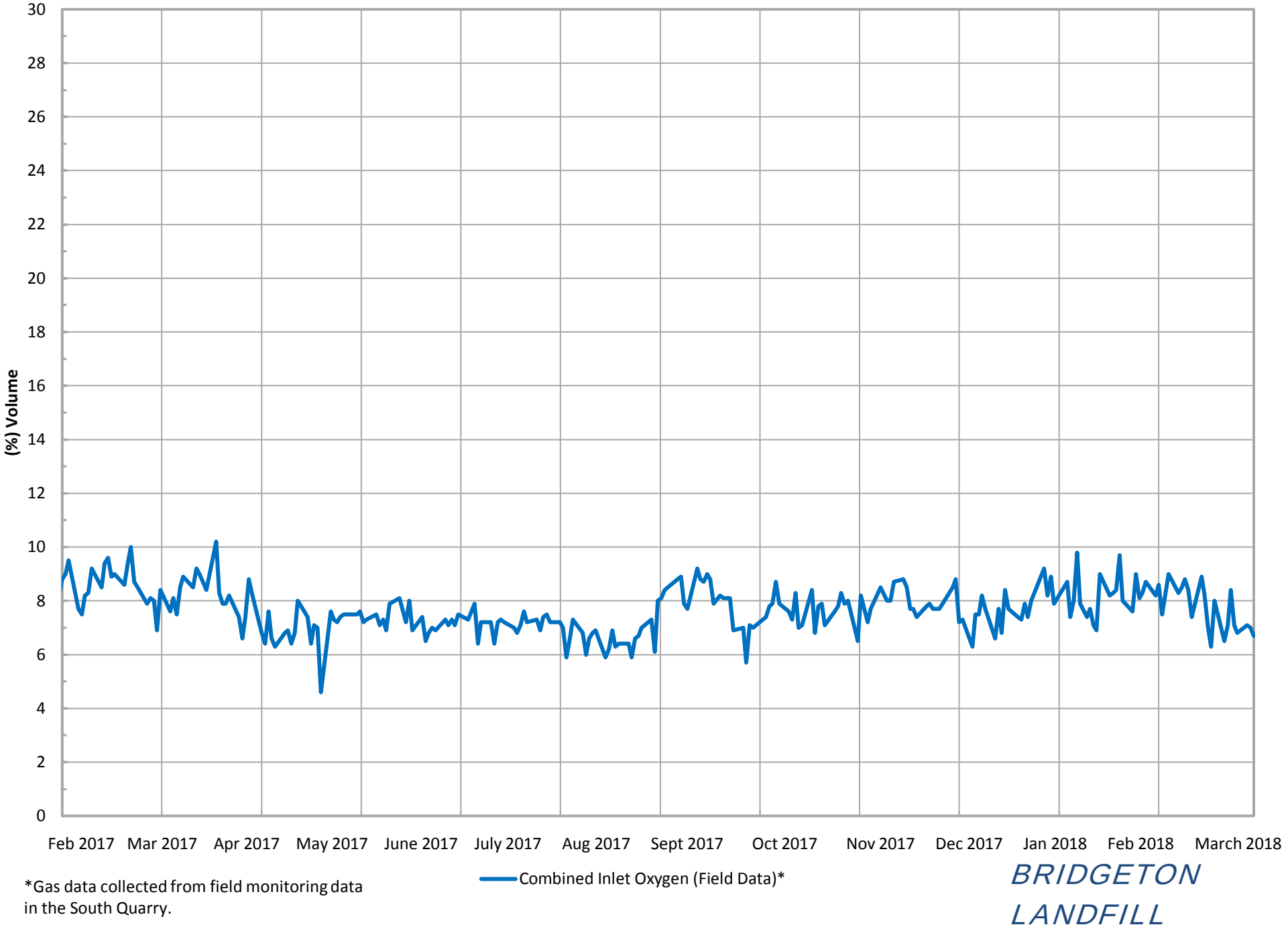
South Quarry Inlet Methane (Field Data)*



*Gas data collected from field monitoring data in the South Quarry.

BRIDGETON LANDFILL

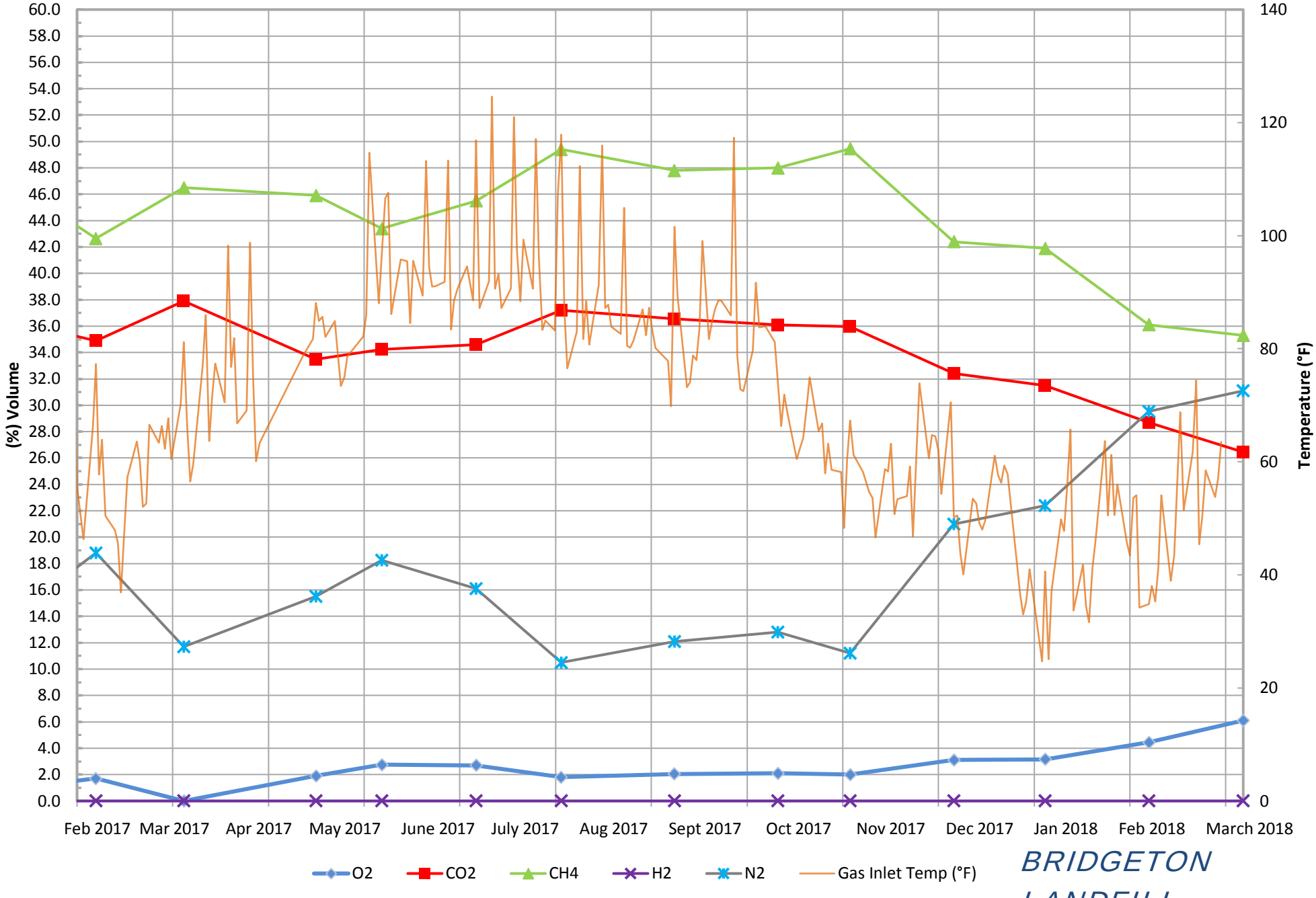
South Quarry Inlet Oxygen (Field Data)*



*Gas data collected from field monitoring data in the South Quarry.

BRIDGETON LANDFILL

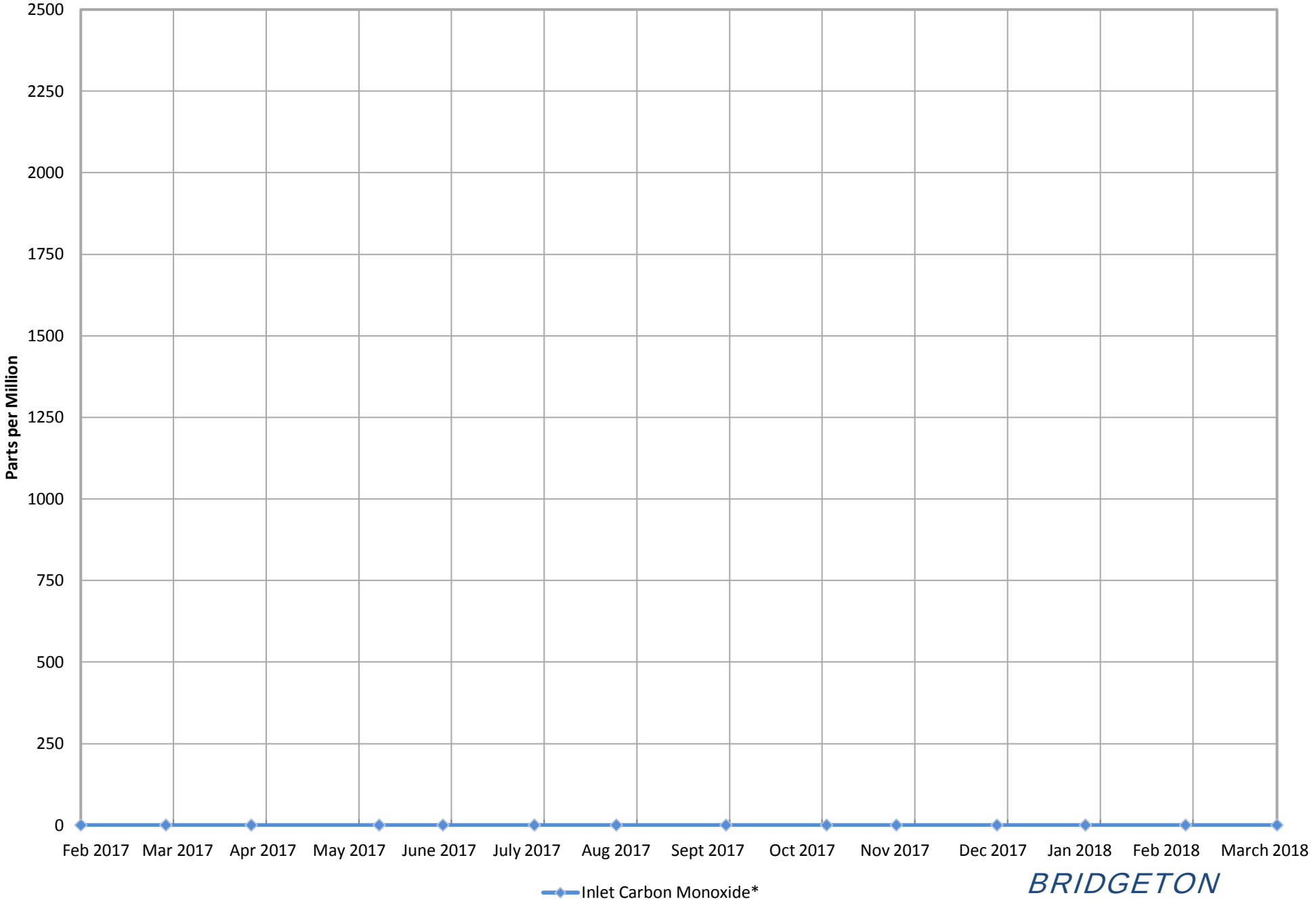
North Quarry Inlet Gas and Temperature*



BRIDGETON LANDFILL

*Gas data collected from Laboratory Reports. Temperature data collected from field readings.

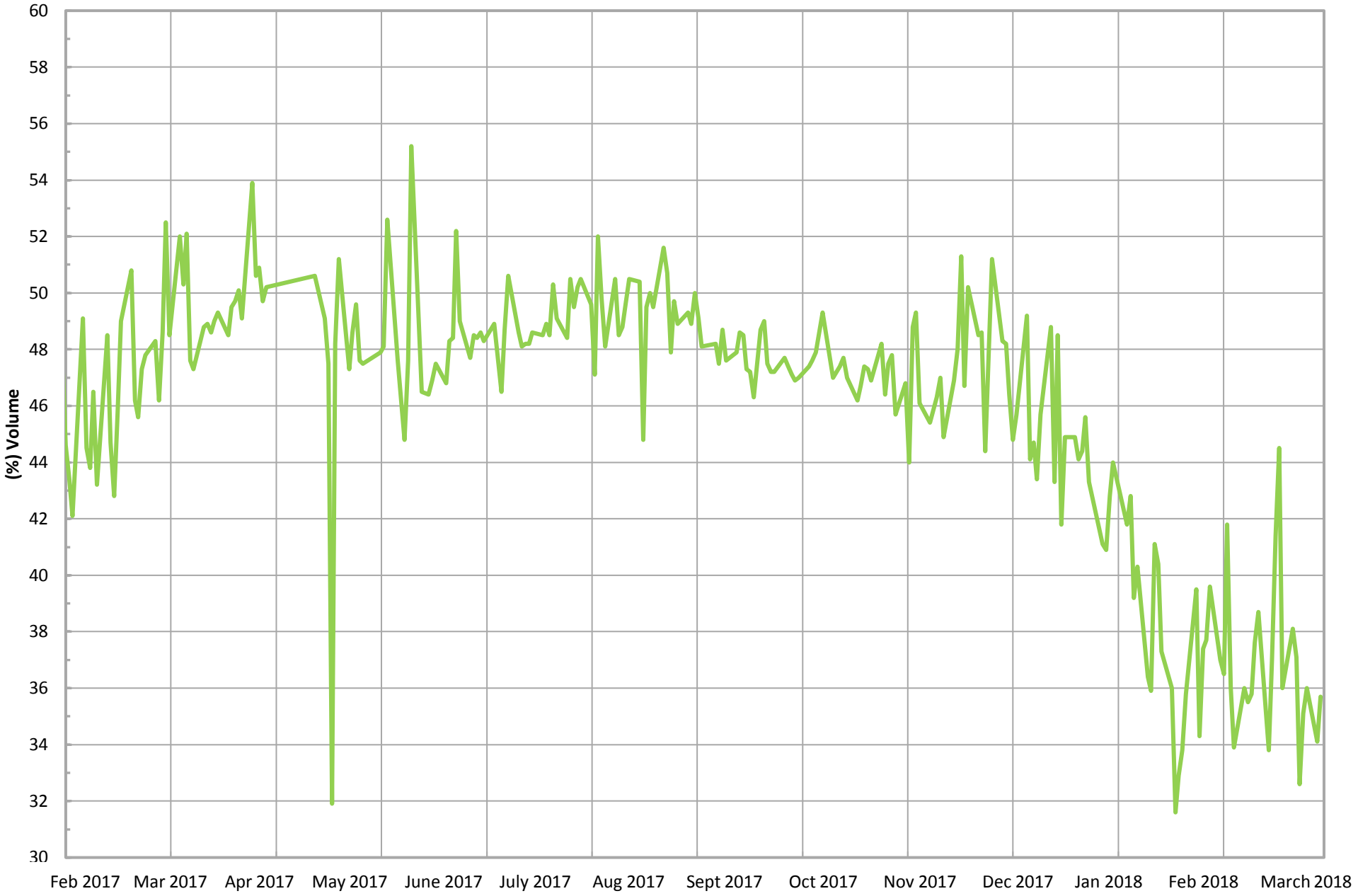
North Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the North Quarry.

BRIDGETON LANDFILL

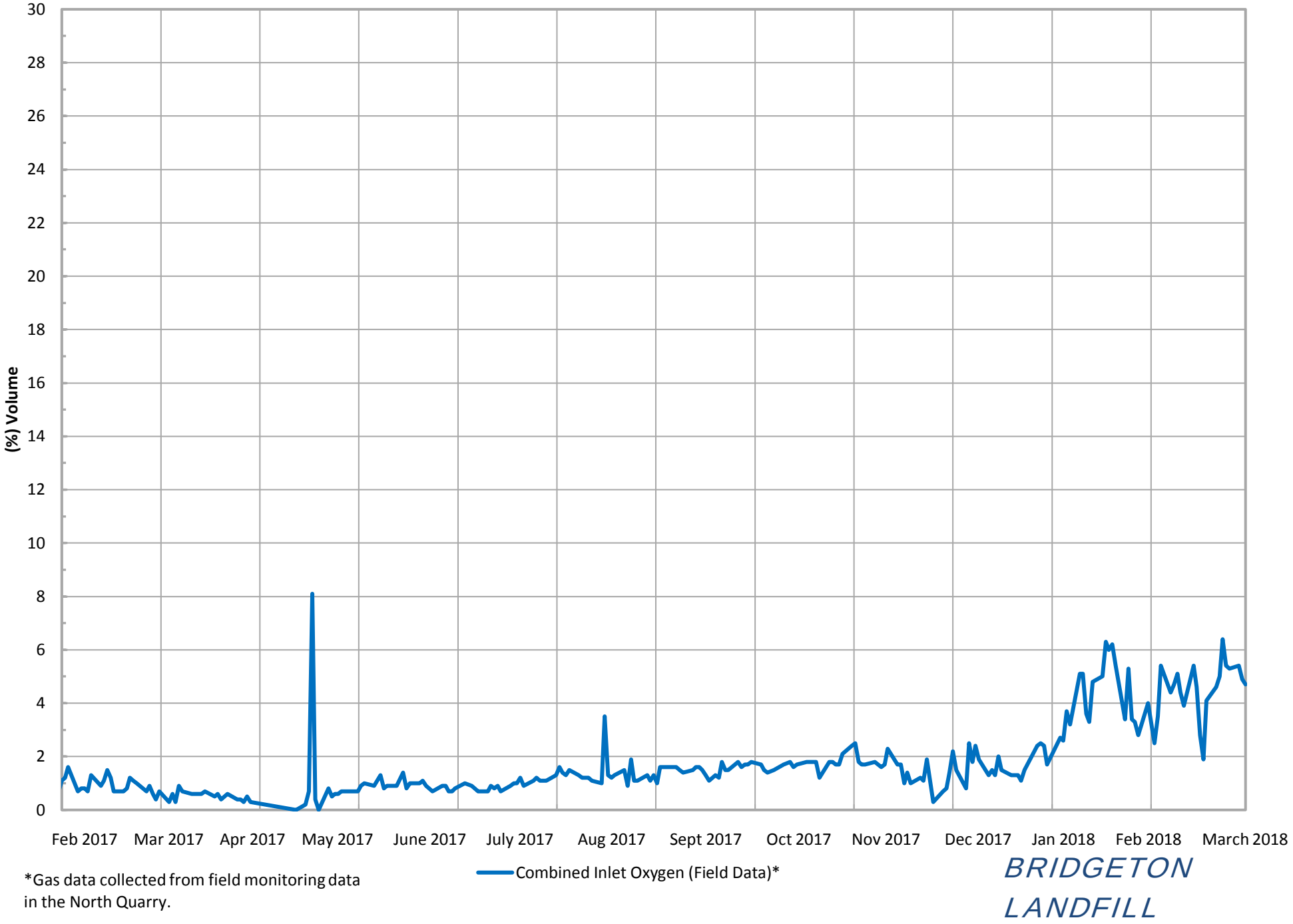
North Quarry Inlet Methane (Field Data)*



*Gas data collected from field monitoring data in the North Quarry.

BRIDGETON LANDFILL

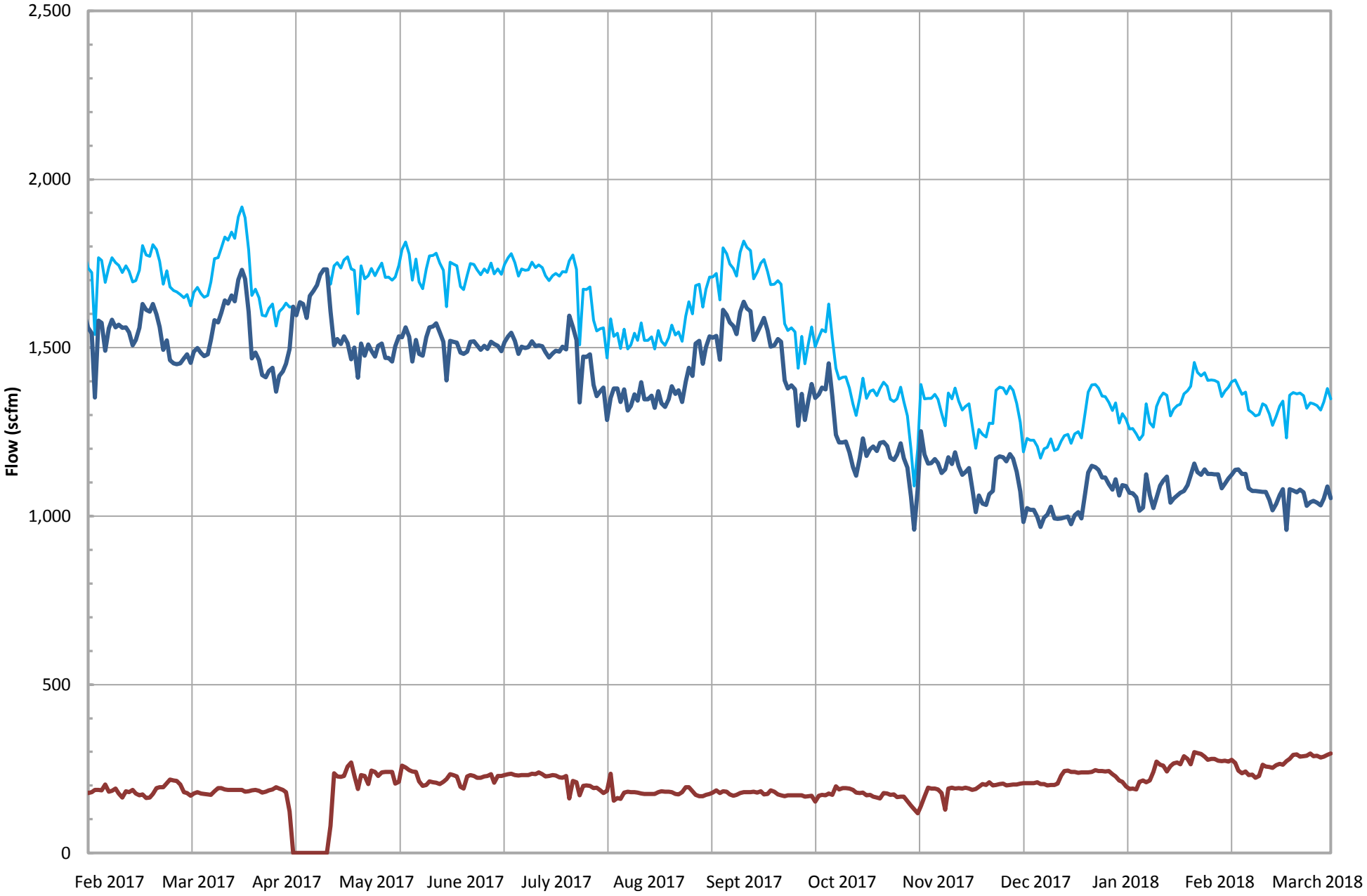
North Quarry Inlet Oxygen (Field Data)*



*Gas data collected from field monitoring data in the North Quarry.

BRIDGETON LANDFILL

Total Combined Flow (scfm)*



*Combined flow is based on tabulated flow data collected daily from FL-100, FL-120, FL-140, and the Auxillary Candlestick Flare.

BRIDGETON LANDFILL

ATTACHMENT B-3

FLARE TRS / FLARE STATION FLOW

SCS ID: BRIOU100

FL100/EP11
John Zink 3500 SCFM
STANDBY BACKUP FLARE

Liquid Seal

KOP

Valve

TSI FM 62-9/9500
SN: 20101387
Field Calibrated: 03/15/2018

SCS ID: BRIOU120

FL120/EP12
John Zink 4000 SCFM
PRIMARY FLARE

Diversion Chamber (KOP)

TSI FM 62-9/9500
SN: 2012346
Field Calibrated: 03/06/2018

TSI FM 62-9/9500
SN: 2004214
Last Calibration: 10/23/2017

"BLOWER OUT" Sample Location
SCS ID: BRIBLOWC

Kurz FM Total Flow
MODEL: 454FTIS-WGF
SN: FD36010A
(Backup Kurz FM, SN: FD34178A)
Field Calibrated 03/15/2018

FL140/EP13 Sampling Location
SCS ID: BRIOU140

FL140/EP13
John Zink 4000 SCFM
OUT OF SERVICE 11/16/2017

NOTES:

1) "Blower Out" sample location, BRIBLOWC, for weekly TRS, monthly 60.18, and monthly Method 2 testing.

2) North Quarry and South Quarry LFG was segregated into separate streams on 3/18/16

3) South Quarry flares can process North Quarry LFG via connection near CT-17; and EP-14, North Quarry Flare, can process South Quarry LFG via the same connection.

4)FM = Flow Meter, KOP = Knock Out Pot, CT = Condensate Trap

FXA-1212/EP14
LFG Specialties 2500 SCFM
Solely NQ LFG, beginning 3/18/2016

FXA-1212/EP14 Sampling Location
SCS ID: BRECSOU1

TSI FM 62-9/9500
SN: 2012403
Field Calibrated: 03/06/2018

Blower

Motor Blower Station

4 - 125 HP motors/impeller blowers
*137 AMPS each
*3570 RPM each

SCS ID: BRIBLIN1

LFG In From SOUTH Quarry Wellfield

Sump

CT 17

Valve

SCS ID: BRECSIN1

LFG In From NORTH Quarry Wellfield

Valve

CT 34

PREPARED FOR:
BRIDGETON LANDFILL, LLC

FIGURE 1 - NORTH & SOUTH QUARRY GCCS
FLARE PROCESS FLOE DIAGRAM

13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI

No.	DATE	REVISION DESCRIPTION
1	9/1/2016	EP-08 Removed, shown as "Out of Service"
2	3/1/2018	Add FM data, SCADA connection, and update flare status

Weaver Consultants Group

WEAVER CONSULTANTS GROUP
6301 EAST HWY AB
COLUMBIA, MISSOURI 65201
(636)-431-3399
www.wcgrp.com

DRAWN BY:	DT
REVIEWED BY:	DAR
DATE:	03/02/2018
FILE:	0120-131-10
CAD:	Figure 1 - Flow Diagram.dwg

SHEET 1 OF 1

TABLE 1 **Bridgeton Landfill, LLC.**

Summary of Key LFG Tested Parameters **February 05, 2018 to March 07, 2018**

Flare Compound: Blower Outlet

SAMPLE EVENT #	DATE	VELOCITY ft/sec	FLOW dscfm	TRS ppm_{vd}
[1]157-10	3/7/2018	11.23	958	1400
				1500
[2]156-09	2/27/2018	12.51	1013	1500
				1700
[2]155-08	2/20/2018	12.79	1036	1300
				1300
[2]154-07	2/13/2018	11.94	967	1100
				1100
[1]153-06	2/5/2018	13.72	1197	1300
				1400

Notes:

[1]Indicates velocity/flow determined by EPA Method 2

[2]Indicates velocity/flow recorded by Blower Outlet's KURZ Flow Meter

Bridgeton Landfill, LLC
Weekly TRS
Monthly Method 2C
Event 157-10
03/07/2018

	PARAMETER	Blower Out
SOUTH QUARRY LFG - BLOWER OUTLET (FL120/EP-12 Only)		
Date	Test Date	3/7/18
Start	Run Start Time	10:51
	Run Finish Time	12:21
	Net Traversing Points	8 (2 x 4)
Θ	Net Run Time, minutes	1:29:55
C_p	Pitot Tube Coeficient	0.99
P_{Br}	Barometric Pressure, inches of Mercury	29.63
% H_2O	Moisture Content of LFG, %	0.84
% RH	Relative Humidity, %	60.50
M_{fd}	Dry Mole Fraction	0.992
%CH_4	Methane, %	11.2
%CO_2	Carbon Dioxide, %	32.8
%O_2	Oxygen, %	8.1
%Balance	Assumed as Nitrogen, %	37.0
%H_2	Hydrogen, %	10.2
%CO	Carbon Monoxide, %	0.051
M_d	Dry Molecular Weight, lb/lb-Mole	29.41
M_s	Wet Molecular weight, lb/lb-Mole	29.31
P_g	Flue Gas Static Pressure, inches of H_2O	13.54
P_s	Absolute Flue Gas Pressure, inches of Mercury	30.85
t_s	Average Stack Gas Temperature, °F	54
ΔP_{avg}	Average Velocity Head, inches of H_2O	0.031
v_s	Average LFG Velocity, feet/second	11.23
A_s	Stack Crossectional Area, square feet	1.35
Q_{sd}	Dry Volumetric Flow Rate, dry scfm	958
Q_s	Standard Volumetric Flow Rate, scfm	966
Q_{aw}	Actual Wet Volumetric Flue Gas Flow Rate, acfm	912
$Q_{lb/hr}$	Dry Air Flow Rate at Standard Conditions, lb/hr	4,387
NHV	Net Heating Value, Btu/scf	148.3
LFG_{CH4}	Methane, lb/hr	268.1
	Methane, grains/dscf	32.65
LFG_{CO2}	Carbon Dioxide, lb/hr	2,153.9
	Carbon Dioxide, grains/dscf	262.34
LFG_{O2}	Oxygen, lb/hr	386.7
	Oxygen, grains/dscf	47.10
LFG_{N2}	Balance gas as Nitrogen, lb/hr	1,546.6
	Balance gas as Nitrogen, grains/dscf	188.37
LFG_{H2}	Hydrogen, lb/hr	30.6
	Hydrogen, grains/dscf	3.73
LFG_{CO}	Carbon Monoxide, lb/hr	2.1
	Carbon Monoxide, grains/dscf	0.26

		Outlet A	Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	25	25
	Hydrogen Sulfide Rate, lb/hr	0.13	0.13
	Hydrogen Sulfide Rate, grains/dscf	0.015	0.015
COS	Carbonyl Sulfide Concentration, ppmd	0.59	0.58
	Carboynl Sulfide Rate, lb/hr	0.01	0.01
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	180	190
	Methyl Mercaptan Rate, lb/hr	1.29	1.36
	Methyl Mercaptan Rate, grains/dscf	0.157	0.166
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	2.0	2.0
	Ethyl Mercaptan Rate, lb/hr	0.02	0.02
	Ethyl Mercaptan Rate, grains/dscf	0.002	0.002
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	1,000	1,100
	Dimethyl Sulfide Rate, lb/hr	9.27	10.20
	Dimethyl Sulfide Rate, grains/dscf	1.129	1.242
CS_2	Carbon Disulfide Concentration, ppmd	0.59	0.58
	Carbon Disulfide Rate, lb/hr	0.01	0.01
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	70	75
	Dimethyl Disulfide Rate, lb/hr	0.98	0.85
	Dimethyl Disulfide Rate, grains/dscf	0.120	0.104

❶ **$E_{TRS-SO2}$**	TRS-->SO2 Emission Concentration, ppmd	1,400	1,500
	TRS-->SO2 Emission Rate, lb/hr	13.38	14.34
	TRS-->SO2 Emission Rate, grains/dscf	1.630	1.746

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Wednesday, March 07, 2018

LOCATION	TIME	FLOW -SCFM			Method 2 vs. Fleetzoom	Method 2 vs Kurz	Kurz vs Fleetzoom
		Method 2	FleetZoom	Kurz FM			
BLOWER OUT	**10:51**	**966**	**1,157**	**1,020**	**-19.8%**	**-5.6%**	**-13.5%**

**Note: Fleetzoom data derived from EP-12/FL120 TSI Flow Meter*

Bridgeton Landfill, LLC
Weekly TRS
Monthly Method 2C
Event 103-10
03/07/2018

	PARAMETER	Blower Out
	EP14 NORTH QUARRY LFG ONLY	
Date	Test Date	3/7/18
Start	Run Start Time	8:59
	Run Finish Time	10:29
	Net Traversing Points	8 (2 x 4)
Θ	Net Run Time, minutes	1:29:55
C_p	Pitot Tube Coeficient	0.99
P_{Br}	Barometric Pressure, inches of Mercury	29.65
% H_2O	Moisture Content of LFG, %	1.01
% RH	Relative Humidity, %	74.80
M_{fd}	Dry Mole Fraction	0.990
%CH_4	Methane, %	35.3
%CO_2	Carbon Dioxide, %	26.5
%O_2	Oxygen, %	6.1
%Balance	Assumed as Nitrogen, %	31.1
%H_2	Hydrogen, % (** reported at the laboratory detection limit*)	3.0
%CO	Carbon Monoxide, % (** reported at the laboratory detection limit*)	0.0030
M_d	Dry Molecular Weight, lb/lb-Mole	28.03
M_s	Wet Molecular weight, lb/lb-Mole	27.93
P_g	Flue Gas Static Pressure, inches of H_2O	1.32
P_s	Absolute Flue Gas Pressure, inches of Mercury	29.76
t_s	Average Stack Gas Temperature, °F	52
ΔP_{avg}	Average Velocity Head, inches of H_2O	0.029
v_s	Average LFG Velocity, feet/second	11.31
A_s	Stack Crossectional Area, square feet	0.51
Q_{sd}	Dry Volumetric Flow Rate, dry scfm	354
Q_s	Standard Volumetric Flow Rate, scfm	357
Q_{aw}	Actual Wet Volumetric Flue Gas Flow Rate, acfm	348
$Q_{lb/hr}$	Dry Air Flow Rate at Standard Conditions, lb/hr	1,544
NHV	Net Heating Value, Btu/scf	320.7
LFG_{CH4}	Methane, lb/hr	312.1
	Methane, grains/dscf	102.92
LFG_{CO2}	Carbon Dioxide, lb/hr	641.5
	Carbon Dioxide, grains/dscf	211.55
LFG_{O2}	Oxygen, lb/hr	107.6
	Oxygen, grains/dscf	35.47
LFG_{N2}	Balance gas as Nitrogen, lb/hr	480.1
	Balance gas as Nitrogen, grains/dscf	158.33
LFG_{H4}	Hydrogen, lb/hr	3.3
	Hydrogen, grains/dscf	1.10
LFG_{CO}	Carbon Monoxide, lb/hr	0.0
	Carbon Monoxide, grains/dscf	0.02

		Outlet A	Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	28	22
	Hydrogen Sulfide Rate, lb/hr	0.05	0.04
	Hydrogen Sulfide Rate, grains/dscf	0.017	0.014
COS	Carbonyl Sulfide Concentration, ppmd	0.59	0.59
	Carboynl Sulfide Rate, lb/hr	0.00	0.00
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	3.6	3.7
	Methyl Mercaptan Rate, lb/hr	0.01	0.01
	Methyl Mercaptan Rate, grains/dscf	0.003	0.003
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	0.59	0.59
	Ethyl Mercaptan Rate, lb/hr	0.00	0.00
	Ethyl Mercaptan Rate, grains/dscf	0.001	0.001
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	20	18
	Dimethyl Sulfide Rate, lb/hr	0.07	0.06
	Dimethyl Sulfide Rate, grains/dscf	0.023	0.020
CS_2	Carbon Disulfide Concentration, ppmd	0.59	0.59
	Carbon Disulfide Rate, lb/hr	0.00	0.00
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	0.59	0.59
	Dimethyl Disulfide Rate, lb/hr	0.00	0.00
	Dimethyl Disulfide Rate, grains/dscf	0.001	0.001

❶ **$E_{TRS-SO2}$**	TRS-->SO2 Emission Concentration, ppmd	52	46
	TRS-->SO2 Emission Rate, lb/hr	0.18	0.16
	TRS-->SO2 Emission Rate, grains/dscf	0.061	0.054

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Wednesday, March 07, 2018

LOCATION	TIME	FLOW -SCFM		Method 2 vs. Fleetzoom
		Method 2	FleetZoom	
EP14 NQ LFG	8:59	357	366	-2.3%

Air TECHNOLOGY Laboratories, Inc.

March 13, 2018

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J030802-01/04

Enclosed are results for sample(s) received 3/08/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 3/12/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME				DELIVERABLES		PAGE: 1 OF 1
Standard	☐	48 hours	■	EDD	☐	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	Level 3	☐	Intact Yes ☐ No ☐
Other:		5 day	☐	Level 4	☐	Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd
City/State/Zip:	Bridgeton, MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.:	6605567
Bill to:	Republic Services
	Attn: Mike Lambrich
	13570 St. Charles Rock Rd.
	Bridgeton, MO 63044

LAB USE ONLY	Canister Pressures ("hg)				SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST					
	Canister ID	Sample Start	Sample End	Lab Receive							EPA Method 15/16	ASTM 1946 + H2 + CO & Btu/SCF		ASTM 1946 + H2 + CO & Btu/SCF (by CH4 only)		
J030802-01	6058	-21.19	-4.46	-.4	NQ EP14 A	3/7/2018	9:09	C-6L	LFG	He	X			X		
-02	5964	-20.88	-4.5	-4	NQ EP14 B	3/7/2018	9:38	C-6L	LFG	He	X			X		
-03	5987	-20.99	-4.5	-4	Blower Outlet A	3/7/2018	11:02	C-6L	LFG	He	X	X				
-04	6052	-21.27	-4.51	-3.5	Blower Outlet B	3/7/2018	11:28	C-6L	LFG	He	X	X				

AUTHORIZATION TO PERFORM WORK: Dave Penoyer		COMPANY: Republic Services	DATE/TIME:
SAMPLED BY: Anthony Kimutis		COMPANY: Republic Services	DATE/TIME 3/7/18
RELINQUISHED BY	3/7/18	DATE/ RECEIVED BY	DATE/TIME
RELINQUISHED BY FEDEX		DATE/ RECEIVED BY	DATE/TIME
RELINQUISHED BY		DATE/ RECEIVED BY	3/8/18 0908 DATE/TIME

METHOD OF TRANSPORT(circle one): Walk-In **FedEx** **UPS** Courier ATLI Other

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/*

COMMENTS

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/08/18
Matrix: Air
Reporting Units: ppmv

EPA Methods 15/16

Lab No.:	J030802-01		J030802-02		J030802-03		J030802-04	
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B		Blower Outlet A		Blower Outlet B	
Date/Time Sampled:	3/7/18 9:09		3/7/18 9:38		3/7/18 11:02		3/7/18 11:28	
Date/Time Analyzed:	3/8/18 9:52		3/8/18 10:04		3/8/18 10:17		3/8/18 10:29	
QC Batch No.:	180308GC3A1		180308GC3A1		180308GC3A1		180308GC3A1	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	3.0		3.0		3.0		2.9	
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Hydrogen Sulfide	28	0.59	22	0.59	25	0.59	25	0.58
Carbonyl Sulfide	ND	0.59	ND	0.59	ND	0.59	ND	0.58
Methyl Mercaptan	3.6	0.59	3.7	0.59	180 d	59	190 d	58
Ethyl Mercaptan	ND	0.59	ND	0.59	2.0	0.59	2.0	0.58
Dimethyl Sulfide	20	0.59	18	0.59	1,000 d	59	1,100 d	58
Carbon Disulfide	ND	0.59	ND	0.59	ND	0.59	ND	0.58
Dimethyl Disulfide	ND	0.59	ND	0.59	70 d	59	75 d	58
Total Reduced Sulfur	52	0.59	46	0.59	1,400	0.59	1,500	0.58

ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary dilution

Reviewed/Approved By: _____ Date 3/12/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 180308GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date/Time Analyzed:	3/8/18 8:47		3/8/18 8:22		3/8/18 8:35			
Analyst Initials:	AS		AS		AS			
Datafile:	08mar003		08mar001		08mar002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	86	70-130%	85	70-130%	0.8	<30
Carbonyl Sulfide	ND	0.20	89	70-130%	89	70-130%	0.4	<30
Methyl Mercaptan	ND	0.20	96	70-130%	96	70-130%	0.1	<30
Ethyl Mercaptan	ND	0.20	93	70-130%	92	70-130%	0.7	<30
Dimethyl Sulfide	ND	0.20	90	70-130%	89	70-130%	1.5	<30
Carbon Disulfide	ND	0.20	80	70-130%	79	70-130%	1.1	<30
Dimethyl Disulfide	ND	0.20	87	70-130%	87	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 3/12/18
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/08/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J030802-01		J030802-02					
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B					
Date/Time Sampled:	3/7/18 9:09		3/7/18 9:38					
Date/Time Analyzed:	3/8/18 11:22		3/8/18 11:37					
QC Batch No.:	180308GC8A1		180308GC8A1					
Analyst Initials:	AS		AS					
Dilution Factor:	3.0		3.0					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	ND	3.0	ND	3.0				
Carbon Dioxide	26.4	0.030	26.5	0.030				
Oxygen/Argon	6.2	1.5	6.0	1.5				
Nitrogen	31.2	3.0	31.0	3.0				
Methane	35.2	0.0030	35.4	0.0030				
Carbon Monoxide	ND	0.0030	ND	0.0030				
Net Heating Value (BTU/ft3) methane only	319.7	3.0	321.6	3.0				
Gross Heating Value (BTU/ft3) methane only	355.1	3.0	357.1	3.0				

Results normalized including non-methane hydrocarbons
BTU values based on D1946 analysis methane only
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 3/12/18

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/08/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J030802-03		J030802-04					
Client Sample I.D.:	Blower Outlet A		Blower Outlet B					
Date/Time Sampled:	3/7/18 11:02		3/7/18 11:28					
Date/Time Analyzed:	3/8/18 11:52		3/8/18 12:06					
QC Batch No.:	180308GC8A1		180308GC8A1					
Analyst Initials:	AS		AS					
Dilution Factor:	3.0		2.9					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	10.5	3.0	9.85	2.9				
Carbon Dioxide	33.7	0.030	31.9	0.029				
Oxygen/Argon	7.7	1.5	8.5	1.4				
Nitrogen	35.9	3.0	38.1	2.9				
Methane	11.5	0.0030	10.9	0.0029				
Carbon Monoxide	0.052	0.0030	0.049	0.0029				
Net Heating Value (BTU/ft3)	151.6	3.0	145.0	2.9				
Gross Heating Value (BTU/ft3)	171.9	3.0	164.3	2.9				

Results normalized including non-methane hydrocarbons
BTU values based on D1946 analysis and non-methane analysis assumed as propane
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 3/12/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No: 180308GC8A1
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/8/18 10:53			3/8/18 12:35		3/8/18 12:50					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0			Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.45	109	5.47	109	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	9.13	91	9.15	91	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.5	104	0.5	70	130	30
Nitrogen	ND	1.0	70	69.8	100	70.1	100	0.4	70	130	30
Methane	ND	0.0010	0.10	0.108	108	0.107	107	0.9	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.106	106	0.105	105	1.3	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 3/12/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 156-09
02/27/2018

Kurz FM =	**1,067**	**scfm**
Fleetzoom Total =	**1,018**	**scfm**

Δ = -4.8%

	PARAMETER	Blower Outlet A	Blower Outlet B
SOUTH QUARRY LFG - MAIN FLARE COMPOUND BLOWER OUTLET (FL120)			
Date	Test Date	2/27/18	2/27/18
Time	Start	9:20	9:36
***%CH_4**	Methane, %	12.1	12.2
***%CO_2**	Carbon Dioxide, %	38.2	39.5
***'%O_2**	Oxygen, %	6.4	6.2
***%Balance**	Assumed as Nitrogen, %	43.3	42.1
P_g	Flue Gas Static Pressure, inches of H_2O	15.4	15.4
t_s	Blower Outlet LFG Temperature, °F	66.3	66.3
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	1,013	
Q_s	Kurz Blower Outlet, Standard Volumetric Flow Rate, scfm	1,067	
LFG_{CH4}	Methane, lb/hr	306.4	309.0
	Methane, grains/dscf	35.28	35.57
LFG_{CO2}	Carbon Dioxide, lb/hr	2,653.9	2,744.2
	Carbon Dioxide, grains/dscf	305.52	315.92
LFG_{O2}	Oxygen, lb/hr	323.3	313.2
	Oxygen, grains/dscf	37.22	36.05
LFG_{N2}	Balance gas as Nitrogen, lb/hr	1,914.8	1,861.8
	Balance gas as Nitrogen, grains/dscf	220.44	214.33

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		Blower Outlet A	Blower Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	17	19
	Hydrogen Sulfide Rate, lb/hr	0.09	0.10
	Hydrogen Sulfide Rate, grains/dscf	0.011	0.012
COS	Carbonyl Sulfide Concentration, ppmd	0.56	0.59
	Carboynl Sulfide Rate, lb/hr	0.01	0.01
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	180	200
	Methyl Mercaptan Rate, lb/hr	1.37	1.52
	Methyl Mercaptan Rate, grains/dscf	0.157	0.175
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	1.8	1.9
	Ethyl Mercaptan Rate, lb/hr	0.02	0.02
	Ethyl Mercaptan Rate, grains/dscf	0.002	0.002
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	1,100	1,200
	Dimethyl Sulfide Rate, lb/hr	10.79	11.77
	Dimethyl Sulfide Rate, grains/dscf	1.242	1.355
CS_2	Carbon Disulfide Concentration, ppmd	0.56	0.60
	Carbon Disulfide Rate, lb/hr	0.01	0.01
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	81	94
	Dimethyl Disulfide Rate, lb/hr	1.20	1.40
	Dimethyl Disulfide Rate, grains/dscf	0.139	0.161
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	1,500	1,700
	TRS-->SO2 Emission Rate, lb/hr	15.17	17.19
	TRS-->SO2 Emission Rate, grains/dscf	1.746	1.979
	TPY =	66.44	75.30

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 102-09
02/27/2018

Fleetzoom Total = 298 scfm

	PARAMETER	EP14 NQ A	EP14 NQ B
EP14 NORTH QUARRY FLARE (OPERATING SOLO, NQ LFG Only)			
Date	Test Date	2/27/18	2/27/18
Time	Start	8:30	8:46
***%CH_4**	Methane, %	35.6	36.7
***%CO_2**	Carbon Dioxide, %	32.5	31.4
***'%O_2**	Oxygen, %	4.4	4.0
***%Balance**	Assumed as Nitrogen, %	27.5	27.9
P_g	Flue Gas Static Pressure, inches of H_2O	1.53	1.50
t_s	Blower Outlet LFG Temperature, °F	66.2	68.1
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	283	
Q_s	Fleetzoom Standard Volumetric Flow Rate, scfm	298	
LFG_{CH4}	Methane, lb/hr	251.6	259.4
	Methane, grains/dscf	103.79	107.00
LFG_{CO2}	Carbon Dioxide, lb/hr	630.1	608.8
	Carbon Dioxide, grains/dscf	259.94	251.14
LFG_{O2}	Oxygen, lb/hr	62.0	56.4
	Oxygen, grains/dscf	25.59	23.26
LFG_{N2}	Balance gas as Nitrogen, lb/hr	339.4	344.3
	Balance gas as Nitrogen, grains/dscf	140.00	142.04

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		EP14 NQ A	EP14 NQ B
H_2S	Hydrogen Sulfide Concentration, ppmd	24	26
	Hydrogen Sulfide Rate, lb/hr	0.04	0.04
	Hydrogen Sulfide Rate, grains/dscf	0.015	0.016
COS	Carbonyl Sulfide Concentration, ppmd	0.56	0.56
	Carboynl Sulfide Rate, lb/hr	0.00	0.00
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	3.7	3.9
	Methyl Mercaptan Rate, lb/hr	0.01	0.01
	Methyl Mercaptan Rate, grains/dscf	0.003	0.003
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	0.56	0.56
	Ethyl Mercaptan Rate, lb/hr	0.00	0.00
	Ethyl Mercaptan Rate, grains/dscf	0.001	0.001
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	24	24
	Dimethyl Sulfide Rate, lb/hr	0.07	0.07
	Dimethyl Sulfide Rate, grains/dscf	0.027	0.027
CS_2	Carbon Disulfide Concentration, ppmd	0.56	0.56
	Carbon Disulfide Rate, lb/hr	0.00	0.00
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	0.56	0.56
	Dimethyl Disulfide Rate, lb/hr	0.00	0.00
	Dimethyl Disulfide Rate, grains/dscf	0.001	0.001
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	53	55
	TRS-->SO2 Emission Rate, lb/hr	0.15	0.16
	TRS-->SO2 Emission Rate, grains/dscf	0.062	0.064
	TPY =	0.66	0.68

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Air TECHNOLOGY Laboratories, Inc.

March 7, 2018

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

nelac
LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J030102-01/04

Enclosed are results for sample(s) received 3/01/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 3/06/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME		DELIVERABLES		PAGE: 1 OF 1
Standard	48 hours	EDD		Condition upon receipt:
Same Day	72 hours	EDF		Sealed Yes No
24 hours	96 hours	Level 3		Intact Yes No
Other:	✓ 5 day	Level 4		Chilled deg C

Project No.:
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd
City/State/Zip: Bridgeton, MO 63044
Phone& Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: 6605567
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Canister Pressures ("hg) Canister ID	Sample Start	Sample End	Lab Receive	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	EPA Method 15/16 + TRS					
J030102-01	R2210	-20.47	-3.47	-3	EP-14 NQ A	2/27/2018	8:30	C -1L	LFG	He	X					
-02	R1155	-20.44	-3.5	-3	EP-14 NQ B	2/27/2018	8:46	C -1L	LFG	He	X					
-03	R1365	-20.17	-3.45	-3	Blower Outlet A	2/27/2018	9:20	C -1L	LFG	He	X					
-04	R1351	-19.98	-3.48	-4	Blower Outlet B	2/27/2018	9:36	C -1L	LFG	He	X					

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services	DATE/TIME:	COMMENTS
SAMPLED BY: Anthony Kimutis	COMPANY: Republic Services	DATE/TIME: 2/27/18	
RELINQUISHED BY	DATE: 2/27/18	RECEIVED BY	DATE/TIME
RELINQUISHED BY FED EX	DATE:	RECEIVED BY 0297 - 3/1/18	DATE/TIME 0948
RELINQUISHED BY	DATE:	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other_____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5 7 09*

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/01/18
Matrix: Air
Reporting Units: ppmv

EPA Methods 15/16

Lab No.:	J030102-01		J030102-02		J030102-03		J030102-04	
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B		Blower Outlet A		Blower Outlet B	
Date/Time Sampled:	2/27/18 8:30		2/27/18 8:46		2/27/18 9:20		2/27/18 9:36	
Date/Time Analyzed:	3/5/18 10:36		3/5/18 10:48		3/5/18 11:01		3/5/18 11:13	
QC Batch No.:	180305GC3A1		180305GC3A1		180305GC3A1		180305GC3A1	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		3.0	
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Hydrogen Sulfide	24	0.56	26	0.56	17	0.56	19	0.59
Carbonyl Sulfide	ND	0.56	ND	0.56	ND	0.56	ND	0.59
Methyl Mercaptan	3.7	0.56	3.9	0.56	180 d	56	200 d	59
Ethyl Mercaptan	ND	0.56	ND	0.56	1.8	0.56	1.9	0.59
Dimethyl Sulfide	24	0.56	24	0.56	1,100 d	56	1,200 d	59
Carbon Disulfide	ND	0.56	ND	0.56	ND	0.56	0.60	0.59
Dimethyl Disulfide	ND	0.56	ND	0.56	81 d	56	94 d	59
Total Reduced Sulfur	53	0.56	55	0.56	1,500	0.56	1,700	0.59

ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary dilution

Reviewed/Approved By: _____ Date 3-6-18

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 180305GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date/Time Analyzed:	3/5/18 9:59		3/5/18 9:34		3/5/18 9:46			
Analyst Initials:	AS		AS		AS			
Datafile:	05mar003		05mar001		05mar002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	94	70-130%	93	70-130%	1.1	<30
Carbonyl Sulfide	ND	0.20	95	70-130%	93	70-130%	1.6	<30
Methyl Mercaptan	ND	0.20	103	70-130%	102	70-130%	0.8	<30
Ethyl Mercaptan	ND	0.20	96	70-130%	95	70-130%	1.2	<30
Dimethyl Sulfide	ND	0.20	93	70-130%	92	70-130%	0.9	<30
Carbon Disulfide	ND	0.20	87	70-130%	86	70-130%	1.3	<30
Dimethyl Disulfide	ND	0.20	92	70-130%	92	70-130%	0.4	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 3-6-18
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 155-08
02/20/2018

Kurz FM =	**1,090**	scfm
Fleetzoom Total =	**1,042**	scfm

Δ = **-4.6%**

	PARAMETER	Blower Outlet A	Blower Outlet B
SOUTH QUARRY LFG - MAIN FLARE COMPOUND BLOWER OUTLET (FL120)			
Date	Test Date	2/20/18	2/20/18
Time	Start	9:10	9:24
***%CH_4**	Methane, %	12.0	12.2
***%CO_2**	Carbon Dioxide, %	38.7	39.8
***'%O_2**	Oxygen, %	7.1	7.0
***%Balance**	Assumed as Nitrogen, %	42.2	41.0
P_g	Flue Gas Static Pressure, inches of H_2O	14.6	14.6
t_s	Blower Outlet LFG Temperature, °F	78.0	78.0
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	1,036	
Q_s	Kurz Blower Outlet, Standard Volumetric Flow Rate, scfm	1,090	
LFG_{CH4}	Methane, lb/hr	310.5	315.7
	Methane, grains/dscf	34.99	35.57
LFG_{CO2}	Carbon Dioxide, lb/hr	2,747.5	2,825.6
	Carbon Dioxide, grains/dscf	309.52	318.32
LFG_{O2}	Oxygen, lb/hr	366.5	361.3
	Oxygen, grains/dscf	41.29	40.71
LFG_{N2}	Balance gas as Nitrogen, lb/hr	1,907.0	1,852.8
	Balance gas as Nitrogen, grains/dscf	214.84	208.73

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		Blower Outlet A	Blower Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	13	14
	Hydrogen Sulfide Rate, lb/hr	0.07	0.08
	Hydrogen Sulfide Rate, grains/dscf	0.008	0.009
COS	Carbonyl Sulfide Concentration, ppmd	0.59	0.59
	Carboynl Sulfide Rate, lb/hr	0.01	0.01
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	160	160
	Methyl Mercaptan Rate, lb/hr	1.24	1.24
	Methyl Mercaptan Rate, grains/dscf	0.140	0.140
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	1.7	1.8
	Ethyl Mercaptan Rate, lb/hr	0.02	0.02
	Ethyl Mercaptan Rate, grains/dscf	0.002	0.002
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	1,000	1,000
	Dimethyl Sulfide Rate, lb/hr	10.02	10.02
	Dimethyl Sulfide Rate, grains/dscf	1.129	1.129
CS_2	Carbon Disulfide Concentration, ppmd	0.59	0.59
	Carbon Disulfide Rate, lb/hr	0.01	0.01
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	64	64
	Dimethyl Disulfide Rate, lb/hr	0.97	0.97
	Dimethyl Disulfide Rate, grains/dscf	0.110	0.110
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	1,300	1,300
	TRS-->SO2 Emission Rate, lb/hr	13.43	13.43
	TRS-->SO2 Emission Rate, grains/dscf	1.514	1.514
	TPY =	58.84	58.84

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 101-08
02/20/2018

Fleetzoom Total = 288 scfm

	PARAMETER	EP14 NQ A	EP14 NQ B
EP14 NORTH QUARRY FLARE (OPERATING SOLO, NQ LFG Only)			
Date	Test Date	2/20/18	2/20/18
Time	Start	8:21	8:37
***%CH_4**	Methane, %	37.7	37.4
***%CO_2**	Carbon Dioxide, %	30.0	30.2
***'%O_2**	Oxygen, %	5.0	4.9
***%Balance**	Assumed as Nitrogen, %	27.3	27.5
P_g	Flue Gas Static Pressure, inches of H_2O	1.53	1.46
t_s	Blower Outlet LFG Temperature, °F	74.4	74.1
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	274	
Q_s	Fleetzoom Standard Volumetric Flow Rate, scfm	288	
LFG_{CH4}	Methane, lb/hr	257.8	255.7
	Methane, grains/dscf	109.91	109.04
LFG_{CO2}	Carbon Dioxide, lb/hr	562.7	566.5
	Carbon Dioxide, grains/dscf	239.94	241.54
LFG_{O2}	Oxygen, lb/hr	68.2	66.8
	Oxygen, grains/dscf	29.08	28.49
LFG_{N2}	Balance gas as Nitrogen, lb/hr	325.9	328.3
	Balance gas as Nitrogen, grains/dscf	138.98	140.00

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		EP14 NQ A	EP14 NQ B
H_2S	Hydrogen Sulfide Concentration, ppmd	28	27
	Hydrogen Sulfide Rate, lb/hr	0.04	0.04
	Hydrogen Sulfide Rate, grains/dscf	0.017	0.017
COS	Carbonyl Sulfide Concentration, ppmd	0.59	0.59
	Carboynl Sulfide Rate, lb/hr	0.00	0.00
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	3.5	3.5
	Methyl Mercaptan Rate, lb/hr	0.01	0.01
	Methyl Mercaptan Rate, grains/dscf	0.003	0.003
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	0.59	0.59
	Ethyl Mercaptan Rate, lb/hr	0.00	0.00
	Ethyl Mercaptan Rate, grains/dscf	0.001	0.001
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	11	11
	Dimethyl Sulfide Rate, lb/hr	0.03	0.03
	Dimethyl Sulfide Rate, grains/dscf	0.012	0.012
CS_2	Carbon Disulfide Concentration, ppmd	0.59	0.59
	Carbon Disulfide Rate, lb/hr	0.00	0.00
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	0.59	0.59
	Dimethyl Disulfide Rate, lb/hr	0.00	0.00
	Dimethyl Disulfide Rate, grains/dscf	0.001	0.001
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	43	43
	TRS-->SO2 Emission Rate, lb/hr	0.12	0.12
	TRS-->SO2 Emission Rate, grains/dscf	0.050	0.050
	TPY =	0.51	0.51

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Air TECHNOLOGY Laboratories, Inc.

February 28, 2018

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J022103-01/04

Enclosed are results for sample(s) received 2/21/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 2/27/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME		DELIVERABLES		PAGE: 1 OF 1
Standard	48 hours	EDD		Condition upon receipt:
Same Day	72 hours	EDF		Sealed Yes No
24 hours	96 hours	Level 3		Intact Yes No
Other:	✓ 5 day	Level 4		Chilled deg C

Project No.:
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd
City/State/Zip: Bridgeton, MO 63044
Phone& Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: 6605567
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LAB USE ONLY	Canister Pressures ("hg)				SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST: EPA Method 15/16 + TRS
	Canister ID	Sample Start	Sample End	Lab Receive							
J022103-01	R2205	-19.5	-3.5	-4	EP-14 NQ A	2/20/2018	8:21	C -1L	LFG	He	X
-02	1615	-19.83	-3.49	-4	EP-14 NQ B	2/20/2018	8:37	C -1L	LFG	He	X
-03	R1161	-20.07	-3.48	-4	Blower Outlet A	2/20/2018	9:10	C -1L	LFG	He	X
-04	R2206	-19.9	-3.51	-4	Blower Outlet B	2/20/2018	9:24	C -1L	LFG	He	X

AUTHORIZATION TO PERFORM WORK: Dave Penoyer — COMPANY: Republic Services — DATE/TIME:
SAMPLED BY: Anthony Kimutis — COMPANY: Republic Services — DATE/TIME: 2/20/18
RELINQUISHED BY: [signature] 2/20/18 — DATE/TIME — RECEIVED BY — DATE/TIME
RELINQUISHED BY: FED EX — DATE/TIME — RECEIVED BY: [signature] 2/21/18 0989 — DATE/TIME
RELINQUISHED BY — DATE/TIME — RECEIVED BY — DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5 7 09*

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/21/18
Matrix: Air
Reporting Units: ppmv

EPA Methods 15/16

Lab No.:	J022103-01		J022103-02		J022103-03		J022103-04	
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B		Blower Outlet A		Blower Outlet B	
Date/Time Sampled:	2/20/18 8:21		2/20/18 8:37		2/20/18 9:10		2/20/18 9:24	
Date/Time Analyzed:	2/21/18 14:53		2/21/18 15:05		2/21/18 15:18		2/21/18 15:30	
QC Batch No.:	180221GC3A1		180221GC3A1		180221GC3A1		180221GC3A1	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	3.0		3.0		3.0		3.0	
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Hydrogen Sulfide	28	0.59	27	0.59	13	0.59	14	0.59
Carbonyl Sulfide	ND	0.59	ND	0.59	ND	0.59	ND	0.59
Methyl Mercaptan	3.5	0.59	3.5	0.59	160 d	59	160 d	59
Ethyl Mercaptan	ND	0.59	ND	0.59	1.7	0.59	1.8	0.59
Dimethyl Sulfide	11	0.59	11	0.59	1,000 d	59	1,000 d	59
Carbon Disulfide	ND	0.59	ND	0.59	ND	0.59	ND	0.59
Dimethyl Disulfide	ND	0.59	ND	0.59	64 d	59	64 d	59
Total Reduced Sulfur	43	0.59	43	0.59	1,300	0.59	1,300	0.59

ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary dilution

Reviewed/Approved By: _____ Date 2/26/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 180221GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date/Time Analyzed:	2/21/18 14:03		2/21/18 13:38		2/21/18 13:51			
Analyst Initials:	AS		AS		AS			
Datafile:	21feb003		21feb001		21feb002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	89	70-130%	90	70-130%	1.1	<30
Carbonyl Sulfide	ND	0.20	91	70-130%	91	70-130%	0.2	<30
Methyl Mercaptan	ND	0.20	99	70-130%	100	70-130%	1.1	<30
Ethyl Mercaptan	ND	0.20	94	70-130%	92	70-130%	1.8	<30
Dimethyl Sulfide	ND	0.20	91	70-130%	90	70-130%	1.9	<30
Carbon Disulfide	ND	0.20	84	70-130%	83	70-130%	1.5	<30
Dimethyl Disulfide	ND	0.20	89	70-130%	88	70-130%	0.7	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 2/26/18
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 154-07
02/13/2018

Kurz FM =	**1,018**	**scfm**
Fleetzoom Total =	**997**	**scfm**

$\Delta =$ **-2.1%**

	PARAMETER	Blower Outlet A	Blower Outlet B
SOUTH QUARRY LFG - MAIN FLARE COMPOUND BLOWER OUTLET (FL120)			
Date	Test Date	2/13/18	2/13/18
Time	Start	9:39	9:54
***%CH_4**	Methane, %	12.5	12.6
***%CO_2**	Carbon Dioxide, %	35.8	36.6
***'%O_2**	Oxygen, %	7.5	7.2
***%Balance**	Assumed as Nitrogen, %	44.2	43.6
P_g	Flue Gas Static Pressure, inches of H_2O	16.1	16.5
t_s	Blower Outlet LFG Temperature, °F	44.7	47.0
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	967	
Q_s	Kurz Blower Outlet, Standard Volumetric Flow Rate, scfm	1,018	
LFG_{CH4}	Methane, lb/hr	302.0	304.4
	Methane, grains/dscf	36.44	36.73
LFG_{CO2}	Carbon Dioxide, lb/hr	2,372.9	2,425.9
	Carbon Dioxide, grains/dscf	286.33	292.73
LFG_{O2}	Oxygen, lb/hr	361.4	347.0
	Oxygen, grains/dscf	43.61	41.87
LFG_{N2}	Balance gas as Nitrogen, lb/hr	1,864.8	1,839.5
	Balance gas as Nitrogen, grains/dscf	225.02	221.97

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		Blower Outlet A	Blower Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	16	15
	Hydrogen Sulfide Rate, lb/hr	0.08	0.08
	Hydrogen Sulfide Rate, grains/dscf	0.010	0.009
COS	Carbonyl Sulfide Concentration, ppmd	0.56	0.56
	Carboynl Sulfide Rate, lb/hr	0.01	0.01
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	140	140
	Methyl Mercaptan Rate, lb/hr	1.01	1.01
	Methyl Mercaptan Rate, grains/dscf	0.122	0.122
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	1.6	1.6
	Ethyl Mercaptan Rate, lb/hr	0.01	0.01
	Ethyl Mercaptan Rate, grains/dscf	0.002	0.002
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	830	880
	Dimethyl Sulfide Rate, lb/hr	7.77	8.23
	Dimethyl Sulfide Rate, grains/dscf	0.937	0.994
CS_2	Carbon Disulfide Concentration, ppmd	0.56	0.57
	Carbon Disulfide Rate, lb/hr	0.01	0.01
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	49	54
	Dimethyl Disulfide Rate, lb/hr	0.70	0.77
	Dimethyl Disulfide Rate, grains/dscf	0.084	0.092
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	1,100	1,100
	TRS-->SO2 Emission Rate, lb/hr	10.61	10.61
	TRS-->SO2 Emission Rate, grains/dscf	1.281	1.281
	TPY =	46.49	46.49

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Bridgeton Landfill, LLC.
Weekly TRS Sampling Summary
Event 100-07
02/13/2018

Fleetzoom Total = **280** **scfm**

	PARAMETER	EP14 NQ A	EP14 NQ B
EP14 NORTH QUARRY FLARE (OPERATING SOLO, NQ LFG Only)			
Date	Test Date	2/13/18	2/13/18
Time	Start	8:50	9:06
***%CH_4**	Methane, %	37.0	37.9
***%CO_2**	Carbon Dioxide, %	31.5	31.7
***'%O_2**	Oxygen, %	3.6	2.9
***%Balance**	Assumed as Nitrogen, %	27.9	27.5
P_g	Flue Gas Static Pressure, inches of H_2O	15.60	1.44
t_s	Blower Outlet LFG Temperature, °F	49.9	52.9
Q_{sd}	Dry Volumetric Flow Rate, dry scfm (assumes 5%H2O)	266	
Q_s	Fleetzoom Standard Volumetric Flow Rate, scfm	280	
LFG_{CH4}	Methane, lb/hr	245.8	251.7
	Methane, grains/dscf	107.87	110.50
LFG_{CO2}	Carbon Dioxide, lb/hr	574.0	577.6
	Carbon Dioxide, grains/dscf	251.94	253.54
LFG_{O2}	Oxygen, lb/hr	47.7	38.4
	Oxygen, grains/dscf	20.93	16.86
LFG_{N2}	Balance gas as Nitrogen, lb/hr	323.6	319.0
	Balance gas as Nitrogen, grains/dscf	142.04	140.00

** Fixed gas results based on field parameter data collection at the time of sampling, via Envision Landfill Gas Analyzer*

		EP14 NQ A	EP14 NQ B
H_2S	Hydrogen Sulfide Concentration, ppmd	23	28
	Hydrogen Sulfide Rate, lb/hr	0.03	0.04
	Hydrogen Sulfide Rate, grains/dscf	0.014	0.017
COS	Carbonyl Sulfide Concentration, ppmd	0.56	0.56
	Carboynl Sulfide Rate, lb/hr	0.00	0.00
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	2.9	3.2
	Methyl Mercaptan Rate, lb/hr	0.01	0.01
	Methyl Mercaptan Rate, grains/dscf	0.003	0.003
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	0.56	0.56
	Ethyl Mercaptan Rate, lb/hr	0.00	0.00
	Ethyl Mercaptan Rate, grains/dscf	0.001	0.001
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	11	10
	Dimethyl Sulfide Rate, lb/hr	0.03	0.03
	Dimethyl Sulfide Rate, grains/dscf	0.012	0.011
CS_2	Carbon Disulfide Concentration, ppmd	0.56	0.56
	Carbon Disulfide Rate, lb/hr	0.00	0.00
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	0.56	0.56
	Dimethyl Disulfide Rate, lb/hr	0.00	0.00
	Dimethyl Disulfide Rate, grains/dscf	0.001	0.001
❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	37	42
	TRS-->SO2 Emission Rate, lb/hr	0.10	0.11
	TRS-->SO2 Emission Rate, grains/dscf	0.043	0.049
	TPY =	0.43	0.49

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

AirTECHNOLOGY
Laboratories, Inc.

February 21, 2018

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J021407-01/04

Enclosed are results for sample(s) received 2/14/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 2/20/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

PAGE: 1 OF 1

TURNAROUND TIME		DELIVERABLES	
Standard	48 hours	EDD	
Same Day	72 hours	EDF	
24 hours	96 hours	Level 3	
Other:	✓ 5 day	Level 4	

Condition upon receipt:
Sealed Yes No
Intact Yes No
Chilled deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd
City/State/Zip:	Bridgeton, MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.: 6605567
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Canister Pressures ("hg) Canister ID	Sample Start	Sample End	Lab Receive	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	EPA Method 15/16 + TRS					
J021407-01	1540	-21.05	-4.49	-3	EP-14 NQ A	2/13/2018	8:50	C -1L	LFG	He	X					
-02	R1345	-20.77	-4.44	-3	EP-14 NQ B	2/13/2018	9:06	C -1L	LFG	He	X					
-03	R2201	-20.71	-4.49	-3	Blower Outlet A	2/13/2018	9:39	C -1L	LFG	He	X					
-04	1618	-21.12	-4.51	-3	Blower Outlet B	2/13/2018	9:54	C -1L	LFG	He	X					

AUTHORIZATION TO PERFORM WORK: Dave Penoyer — COMPANY: Republic Services — DATE/TIME:

SAMPLED BY: Anthony Kimutis — COMPANY: Republic Services — DATE/TIME: 2/13/18

RELINQUISHED BY	DATE/	RECEIVED BY	DATE/TIME
	2/13/18		
FEDEX			
		JGT	2/14/18 1310

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5 7 09*

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/14/18
Matrix: Air
Reporting Units: ppmv

EPA Methods 15/16

Lab No.:	J021407-01		J021407-02		J021407-03		J021407-04	
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B		Blower Outlet A		Blower Outlet B	
Date/Time Sampled:	2/13/18 8:50		2/13/18 9:06		2/13/18 9:39		2/13/18 9:54	
Date/Time Analyzed:	2/16/18 15:02		2/16/18 15:15		2/16/18 15:27		2/16/18 15:40	
QC Batch No.:	180216GC3A1		180216GC3A1		180216GC3A1		180216GC3A1	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		2.8	
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Hydrogen Sulfide	23	0.56	28	0.56	16	0.56	15	0.56
Carbonyl Sulfide	ND	0.56	ND	0.56	ND	0.56	ND	0.56
Methyl Mercaptan	2.9	0.56	3.2	0.56	140 d	56	140 d	56
Ethyl Mercaptan	ND	0.56	ND	0.56	1.6	0.56	1.6	0.56
Dimethyl Sulfide	11	0.56	10	0.56	830 d	56	880 d	56
Carbon Disulfide	ND	0.56	ND	0.56	ND	0.56	0.57	0.56
Dimethyl Disulfide	ND	0.56	ND	0.56	49 d	5.6	54 d	5.6
Total Reduced Sulfur	37	0.56	42	0.56	1,100	0.56	1,100	0.56

ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary dilution

Reviewed/Approved By: _____ Date 2/20/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 180216GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date/Time Analyzed:	2/16/18 8:44		2/16/18 15:53		2/16/18 16:05			
Analyst Initials:	AS		AS		AS			
Datafile:	16feb003		16feb019		16feb020			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	93	70-130%	93	70-130%	0.0	<30
Carbonyl Sulfide	ND	0.20	91	70-130%	91	70-130%	0.5	<30
Methyl Mercaptan	ND	0.20	103	70-130%	103	70-130%	0.5	<30
Ethyl Mercaptan	ND	0.20	97	70-130%	96	70-130%	0.2	<30
Dimethyl Sulfide	ND	0.20	94	70-130%	91	70-130%	2.9	<30
Carbon Disulfide	ND	0.20	84	70-130%	84	70-130%	0.1	<30
Dimethyl Disulfide	ND	0.20	89	70-130%	88	70-130%	1.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 2/20/18
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Bridgeton Landfill, LLC
Weekly TRS
Monthly Method 2C
Event 153-06
02/05/2018

	PARAMETER	Blower Out
SOUTH QUARRY LFG - BLOWER OUTLET (FL120/EP-12 Only)		
Date	Test Date	2/5/18
Start	Run Start Time	11:17
	Run Finish Time	12:47
	Net Traversing Points	8 (2 x 4)
Θ	Net Run Time, minutes	1:29:55
C_p	Pitot Tube Coeficient	0.99
P_{Br}	Barometric Pressure, inches of Mercury	29.73
% H_2O	Moisture Content of LFG, %	0.53
% RH	Relative Humidity, %	62.05
M_{fd}	Dry Mole Fraction	0.995
$\%CH_4$	Methane, %	12.2
$\%CO_2$	Carbon Dioxide, %	33.0
$\%O_2$	Oxygen, %	7.6
%Balance	Assumed as Nitrogen, %	36.2
$\%H_2$	Hydrogen, %	10.3
%CO	Carbon Monoxide, %	0.051
M_d	Dry Molecular Weight, lb/lb-Mole	29.27
M_s	Wet Molecular weight, lb/lb-Mole	29.21
P_g	Flue Gas Static Pressure, inches of H_2O	13.54
P_s	Absolute Flue Gas Pressure, inches of Mercury	30.76
t_s	Average Stack Gas Temperature, °F	43
ΔP_{avg}	Average Velocity Head, inches of H_2O	0.047
v_s	Average LFG Velocity, feet/second	13.72
A_s	Stack Crossectional Area, square feet	1.35
Q_{sd}	Dry Volumetric Flow Rate, dry scfm	1,197
Q_s	Standard Volumetric Flow Rate, scfm	1,203
Q_{aw}	Actual Wet Volumetric Flue Gas Flow Rate, acfm	1,114
$Q_{lb/hr}$	Dry Air Flow Rate at Standard Conditions, lb/hr	5,455
NHV	Net Heating Value, Btu/scf	154.6
LFG_{CH4}	Methane, lb/hr	363.4
	Methane, grains/dscf	35.42
LFG_{CO2}	Carbon Dioxide, lb/hr	2,707.8
	Carbon Dioxide, grains/dscf	263.93
LFG_{O2}	Oxygen, lb/hr	453.4
	Oxygen, grains/dscf	44.20
LFG_{N2}	Balance gas as Nitrogen, lb/hr	1,890.7
	Balance gas as Nitrogen, grains/dscf	184.29
LFG_{H2}	Hydrogen, lb/hr	38.5
	Hydrogen, grains/dscf	3.76
LFG_{CO}	Carbon Monoxide, lb/hr	2.6
	Carbon Monoxide, grains/dscf	0.26

		Outlet A	Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	19	19
	Hydrogen Sulfide Rate, lb/hr	0.12	0.12
	Hydrogen Sulfide Rate, grains/dscf	0.012	0.012
COS	Carbonyl Sulfide Concentration, ppmd	0.55	0.56
	Carboynl Sulfide Rate, lb/hr	0.01	0.01
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	160	170
	Methyl Mercaptan Rate, lb/hr	1.44	1.52
	Methyl Mercaptan Rate, grains/dscf	0.140	0.149
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	1.6	1.7
	Ethyl Mercaptan Rate, lb/hr	0.02	0.02
	Ethyl Mercaptan Rate, grains/dscf	0.002	0.002
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	950	1,000
	Dimethyl Sulfide Rate, lb/hr	11.01	11.58
	Dimethyl Sulfide Rate, grains/dscf	1.073	1.129
CS_2	Carbon Disulfide Concentration, ppmd	0.61	0.66
	Carbon Disulfide Rate, lb/hr	0.01	0.01
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	69	78
	Dimethyl Disulfide Rate, lb/hr	1.21	1.11
	Dimethyl Disulfide Rate, grains/dscf	0.118	0.108

❶$E_{TRS-SO2}$	TRS-->SO2 Emission Concentration, ppmd	1,300	1,400
	TRS-->SO2 Emission Rate, lb/hr	15.53	16.72
	TRS-->SO2 Emission Rate, grains/dscf	1.514	1.630

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Monday, February 05, 2018

LOCATION	TIME	FLOW -SCFM			Method 2 vs. Fleetzoom	Method 2 vs Kurz	Kurz vs Fleetzoom
		Method 2	FleetZoom	Kurz FM			
BLOWER OUT	**11:17**	**1,203**	**1,043**	**1,057**	**13.3%**	**12.1%**	**1.4%**

**Note: Fleetzoom data derived from EP-12/FL120 TSI Flow Meter*

Bridgeton Landfill, LLC
Weekly TRS
Monthly Method 2C
Event 99-06
02/05/2018

	PARAMETER	Blower Out
	EP14 NORTH QUARRY LFG ONLY	
Date	Test Date	2/5/17
Start	Run Start Time	9:06
	Run Finish Time	10:36
	Net Traversing Points	8 (2 x 4)
Θ	Net Run Time, minutes	1:29:55
C_p	Pitot Tube Coeficient	0.99
P_{Br}	Barometric Pressure, inches of Mercury	29.81
% H_2O	Moisture Content of LFG, %	0.69
% RH	Relative Humidity, %	76.25
M_{fd}	Dry Mole Fraction	0.993
%CH_4	Methane, %	36.1
%CO_2	Carbon Dioxide, %	28.7
%O_2	Oxygen, %	4.5
%Balance	Assumed as Nitrogen, %	29.6
%H_2	Hydrogen, % (** reported at the laboratory detection limit*)	2.7
%CO	Carbon Monoxide, % (** reported at the laboratory detection limit*)	0.0027
M_d	Dry Molecular Weight, lb/lb-Mole	28.18
M_s	Wet Molecular weight, lb/lb-Mole	28.11
P_g	Flue Gas Static Pressure, inches of H_2O	1.32
P_s	Absolute Flue Gas Pressure, inches of Mercury	29.87
t_s	Average Stack Gas Temperature, °F	42
ΔP_{avg}	Average Velocity Head, inches of H_2O	0.032
v_s	Average LFG Velocity, feet/second	11.70
A_s	Stack Crossectional Area, square feet	0.51
Q_{sd}	Dry Volumetric Flow Rate, dry scfm	376
Q_s	Standard Volumetric Flow Rate, scfm	379
Q_{aw}	Actual Wet Volumetric Flue Gas Flow Rate, acfm	360
$Q_{lb/hr}$	Dry Air Flow Rate at Standard Conditions, lb/hr	1,650
NHV	Net Heating Value, Btu/scf	328.5
LFG_{CH4}	Methane, lb/hr	339.3
	Methane, grains/dscf	105.25
LFG_{CO2}	Carbon Dioxide, lb/hr	739.9
	Carbon Dioxide, grains/dscf	229.54
LFG_{O2}	Oxygen, lb/hr	83.4
	Oxygen, grains/dscf	25.88
LFG_{N2}	Balance gas as Nitrogen, lb/hr	484.9
	Balance gas as Nitrogen, grains/dscf	150.44
LFG_{H4}	Hydrogen, lb/hr	3.2
	Hydrogen, grains/dscf	0.99
LFG_{CO}	Carbon Monoxide, lb/hr	0.0
	Carbon Monoxide, grains/dscf	0.01

		Outlet A	Outlet B
H_2S	Hydrogen Sulfide Concentration, ppmd	35	34
	Hydrogen Sulfide Rate, lb/hr	0.07	0.07
	Hydrogen Sulfide Rate, grains/dscf	0.022	0.021
COS	Carbonyl Sulfide Concentration, ppmd	0.53	0.53
	Carboynl Sulfide Rate, lb/hr	0.00	0.00
	Carbonyl Sulfide Rate, grains/dscf	0.001	0.001
CH_4S	Methyl Mercaptan Concentration, ppmd	3.7	4.1
	Methyl Mercaptan Rate, lb/hr	0.01	0.01
	Methyl Mercaptan Rate, grains/dscf	0.003	0.004
C_2H_6S	Ethyl Mercaptan Concentration, ppmd	0.53	0.53
	Ethyl Mercaptan Rate, lb/hr	0.00	0.00
	Ethyl Mercaptan Rate, grains/dscf	0.001	0.001
$(CH_3)_2S$	Dimethyl Sulfide Concentration, ppmd	12	13
	Dimethyl Sulfide Rate, lb/hr	0.04	0.05
	Dimethyl Sulfide Rate, grains/dscf	0.014	0.015
CS_2	Carbon Disulfide Concentration, ppmd	0.53	0.53
	Carbon Disulfide Rate, lb/hr	0.00	0.00
	Carbon Disulfide Rate, grains/dscf	0.001	0.001
$C_2H_6S_2$	Dimethyl Disulfide Concentration, ppmd	0.53	0.53
	Dimethyl Disulfide Rate, lb/hr	0.00	0.00
	Dimethyl Disulfide Rate, grains/dscf	0.001	0.001

❶ **$E_{TRS-SO2}$**	TRS-->SO2 Emission Concentration, ppmd	51	51
	TRS-->SO2 Emission Rate, lb/hr	0.19	0.19
	TRS-->SO2 Emission Rate, grains/dscf	0.059	0.059

❶ TRS assumed moelcular mass = SO2, 64.06 gram/mole, I.e. 1 TRS in LFG assumed to = 1 SO2 emitted from the stack

Air TECHNOLOGY Laboratories, Inc.

February 8, 2018

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J020601-01/04

Enclosed are results for sample(s) received 2/06/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 2/08/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard	☐	48 hours	■
Same Day	☐	72 hours	☐
24 hours	☐	96 hours	☐
Other:		5 day	☐

DELIVERABLES

EDD	☐
EDF	☐
Level 3	☐
Level 4	☐

PAGE: 1 OF 1

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd
City/State/Zip:	Bridgeton, MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.:	6605567
Bill to:	Republic Services
	Attn: Mike Lambrich
	13570 St. Charles Rock Rd.
	Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Canister Pressures ("hg) Canister ID	Sample Start	Sample End	Lab Receive	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	EPA Method 15/16	ASTM 1946 + H2 + CO & Btu/SCF		ASTM 1946 + H2 + CO & Btu/SCF (by CH4 only)		
J020601-01	4435	-21.43	-4.5	-2	NQ EP14 A	2/5/2018	9:17	C-6L	LFG	He	X			X		
-02	5983	-21.77	-4.47	-2	NQ EP14 B	2/5/2018	9:47	C-6L	LFG	He	X			X		
-03	1304	-21.19	-4.48	-2.9	Blower Outlet A	2/5/2018	11:22	C-6L	LFG	He	X	X				
-04	6048	-21.39	-4.5	-3	Blower Outlet B	2/5/2018	11:50	C-6L	LFG	He	X	X				

AUTHORIZATION TO PERFORM WORK: Dave Penoyer — COMPANY: Republic Services — DATE/TIME:

SAMPLED BY: Anthony Kimutis — COMPANY: Republic Services — DATE/TIME 2/5/18 0917-1028

RELINQUISHED BY [signature] — DATE 2/5/18 — RECEIVED BY — DATE/TIME

RELINQUISHED BY FED EX — DATE — RECEIVED BY [signature] — DATE/TIME 2/6/18 1439

RELINQUISHED BY — DATE — RECEIVED BY — DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** **UPS** Courier ATLI Other _____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/06/18
Matrix: Air
Reporting Units: ppmv

EPA Methods 15/16

Lab No.:	J020601-01		J020601-02		J020601-03		J020601-04	
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B		Blower Outlet A		Blower Outlet B	
Date/Time Sampled:	2/5/18 9:17		2/5/18 9:47		2/5/18 11:22		2/5/18 11:50	
Date/Time Analyzed:	2/7/18 9:13		2/7/18 9:25		2/7/18 9:38		2/7/18 9:50	
QC Batch No.:	180207GC3A1		180207GC3A1		180207GC3A1		180207GC3A1	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.7		2.7		2.7		2.8	
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv	Result ppmv	RL ppmv
Hydrogen Sulfide	35 d	5.3	34 d	5.3	19	0.55	19	0.56
Carbonyl Sulfide	ND	0.53	ND	0.53	ND	0.55	ND	0.56
Methyl Mercaptan	3.7	0.53	4.1	0.53	160 d	55	170 d	56
Ethyl Mercaptan	ND	0.53	ND	0.53	1.6	0.55	1.7	0.56
Dimethyl Sulfide	12	0.53	13	0.53	950 d	55	1,000 d	56
Carbon Disulfide	ND	0.53	ND	0.53	0.61	0.55	0.66	0.56
Dimethyl Disulfide	ND	0.53	ND	0.53	69 d	55	78 d	56
Total Reduced Sulfur	51	0.53	51	0.53	1,300	0.55	1,400	0.56

ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary dilution

Reviewed/Approved By: _____ Date 2/8/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 180207GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date/Time Analyzed:	2/7/18 9:01		2/7/18 8:36		2/7/18 8:48			
Analyst Initials:	AS		AS		AS			
Datafile:	07feb003		07feb001		07feb002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	111	70-130%	111	70-130%	0.4	<30
Carbonyl Sulfide	ND	0.20	99	70-130%	97	70-130%	1.4	<30
Methyl Mercaptan	ND	0.20	125	70-130%	124	70-130%	1.0	<30
Ethyl Mercaptan	ND	0.20	121	70-130%	120	70-130%	1.1	<30
Dimethyl Sulfide	ND	0.20	96	70-130%	96	70-130%	0.4	<30
Carbon Disulfide	ND	0.20	83	70-130%	82	70-130%	1.8	<30
Dimethyl Disulfide	ND	0.20	84	70-130%	84	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 2/8/18
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/06/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020601-01		J020601-02					
Client Sample I.D.:	EP-14 NQ A		EP-14 NQ B					
Date/Time Sampled:	2/5/18 9:17		2/5/18 9:47					
Date/Time Analyzed:	2/6/18 15:24		2/6/18 15:39					
QC Batch No.:	180206GC8A2		180206GC8A2					
Analyst Initials:	AS		AS					
Dilution Factor:	2.7		2.7					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	ND	2.7	ND	2.7				
Carbon Dioxide	27.8	0.027	29.6	0.027				
Oxygen/Argon	5.1	1.3	3.8	1.3				
Nitrogen	31.2	2.7	27.9	2.7				
Methane	34.8	0.0027	37.4	0.0027				
Carbon Monoxide	ND	0.0027	ND	0.0027				
Net Heating Value (BTU/ft3) methane only	316.6	2.7	340.3	2.7				
Gross Heating Value (BTU/ft3) methane only	351.6	2.7	377.9	2.7				

Results normalized including non-methane hydrocarbons
BTU values based on D1946 analysis methane only
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/7/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/06/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020601-03		J020601-04					
Client Sample I.D.:	Blower Outlet A		Blower Outlet B					
Date/Time Sampled:	2/5/18 11:22		2/5/18 11:50					
Date/Time Analyzed:	2/6/18 15:53		2/6/18 16:08					
QC Batch No.:	180206GC8A2		180206GC8A2					
Analyst Initials:	AS		AS					
Dilution Factor:	2.7		2.8					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	10.3	2.7	10.2	2.8				
Carbon Dioxide	33.1	0.027	32.9	0.028				
Oxygen/Argon	7.6	1.4	7.6	1.4				
Nitrogen	36.0	2.7	36.4	2.8				
Methane	12.2	0.0027	12.1	0.0028				
Carbon Monoxide	0.050	0.0027	0.051	0.0028				
Net Heating Value (BTU/ft3)	154.5	2.7	154.7	2.8				
Gross Heating Value (BTU/ft3)	175.2	2.7	175.3	2.8				

Results normalized including non-methane hydrocarbons
BTU values based on D1946 analysis and non-methane analysis assumed as propane
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/7/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No: 180206GC8A2
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	2/6/18 14:09			2/6/18 13:40		2/6/18 13:54					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0			Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.95	99	4.96	99	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.20	92	9.24	92	0.4	70	130	30
Oxygen/Argon	ND	0.50	15	16.0	108	16.0	108	0.2	70	130	30
Nitrogen	ND	1.0	70	71.3	102	71.4	102	0.2	70	130	30
Methane	ND	0.0010	0.10	0.108	108	0.109	109	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.105	105	0.105	105	0.3	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/7/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

ATTACHMENT C

GAS WELL ANALYSIS MAPS

LEGEND

WELL LOCATION

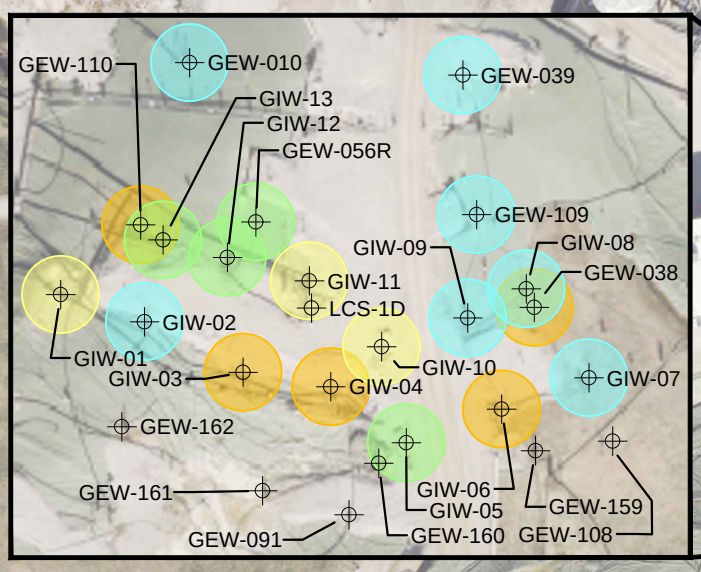
HYDROGEN

		<	10%
10%	<	20%	
20%	<	30%	
30%	<	40%	
		≥	40%

NOTES:
Hydrogen represents the laboratory reported concentration for samples collected during the month.

*Only points monitored during the report period show data.

PGW-60
GEW-1A
GEW-003
GEW-002
GEW-2S
GEW-004
GEW-005
GEW-046R
LCS-6B
GEW-048
GEW-047R
GEW-045R
T-56
GEW-006
GEW-049
GEW-050
GEW-044
GEW-051
GEW-052
LCS-5A
GEW-043R
GEW-007
GEW-053
GEW-054
GEW-008
GEW-042R
LCS-5B
GEW-041R
GEW-055
GEW-009
GEW-040
SEE INSET
GEW-187
GEW-149
GEW-154
GEW-153
GEW-107
GEW-013A
GEW-148
GEW-152
GEW-113
GEW-059R
GEW-067A
GEW-090
GEW-087
GEW-151
GEW-106
GEW-16R
GEW-015
GEW-088
GEW-058A
GEW-158
GEW-058
GEW-147
GEW-156
GEW-105
GEW-104
GEW-135
GEW-176
GEW-086
GEW-136
GEW-150
GEW-175
GEW-057R
GEW-134
GEW-146
GEW-157
LCS-4B
GEW-057B
GEW-182
GEW-018B
GEW-116
GEW-137
GEW-133
GEW-174
GEW-145
GEW-178
GEW-082R
GEW-117
GEW-102
GEW-118
GEW-179
GEW-132
GEW-155
GEW-173
GEW-068A
GEW-138
GEW-188
GEW-081
GEW-144
GEW-180
GEW-184
GEW-122
GEW-078R
GEW-101
GEW-121
GEW-140
GEW-143
GEW-120
GEW-167
GEW-185
GEW-022R
GEW-077
GEW-181
GEW-163
GEW-172
GEW-123
GEW-166
GEW-139
LCS-2D
GEW-131
GEW-164
GEW-142
GEW-100
GEW-124
GEW-171
GEW-165
GEW-130
GEW-125
GEW-141
SEW -002
GEW-168
GEW-177
GEW-126
GEW-169
GEW-129
GEW-127
GEW-170
GEW-186
GEW-128



NOTE:

1.) AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS, INC. AND IS DATED DECEMBER 1, 2017

0 200 400 Feet

N

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK RD
BRIDGETON, MO 63044

BRIDGETON LANDFILL
MONTHLY REPORTING

HYDROGEN DATA MAP - FEBRUARY 2018

PROJECT NUMBER: BT-145

FILE PATH: C:\Users\plins\Dropbox (Feezor Engineering)\BT-145 Agreed Order Reporting\Surfer Updates\civil 3D\January 2018\January 2018.dwg

Engineering for a Better World
FEEZOR ENGINEERING, INC.

FEBRUARY 2018
DESIGNED BY: PML
APPROVED BY: ---

REVISION DATE

DRAWING NO.:
001

LEGEND

WELL LOCATION

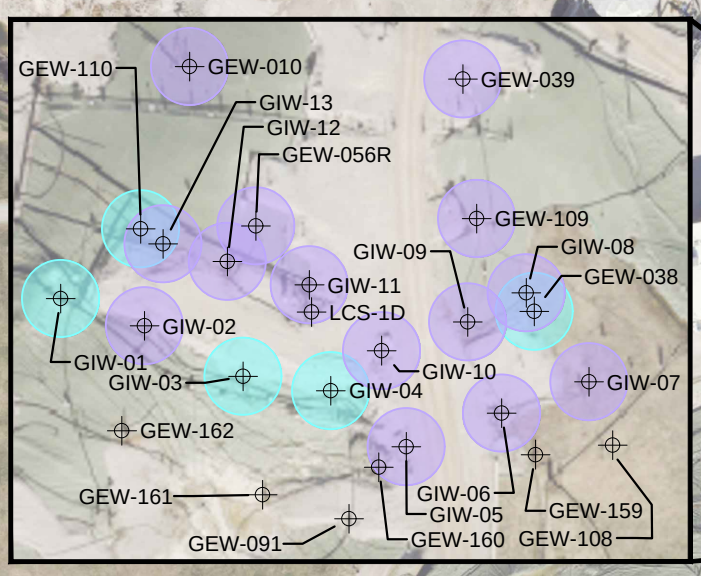
CARBON MONOXIDE (PPM)

		≤	1,000
1,001	≤	2,000	
2,001	≤	3,000	
3,001	≤	4,000	
4,001	≤	5,000	
		>	5,000

NOTES:
Carbon Monoxide represents the laboratory reported concentration for samples collected during the month.

*Only points monitored during the report period show data.

PGW-60
GEW-1A
GEW-003
GEW-002
GEW-2S
GEW-004
GEW-005
GEW-046R
LCS-6B
GEW-048
GEW-047R
GEW-045R
T-56
GEW-006
GEW-049
GEW-050
GEW-044
GEW-051
GEW-052
LCS-5A
GEW-043R
GEW-007
GEW-053
GEW-054
GEW-008
GEW-042R
LCS-5B
GEW-041R
GEW-055
GEW-009
GEW-040
SEE INSET
GEW-187
GEW-149
GEW-154
GEW-153
GEW-107
GEW-013A
GEW-148
GEW-152
GEW-113
GEW-059R
GEW-067A
GEW-090
GEW-151
GEW-087
GEW-106
GEW-16R
GEW-015
GEW-088
GEW-058A
GEW-158
GEW-058
GEW-147
GEW-156
GEW-105
GEW-104
GEW-135
GEW-176
GEW-086
GEW-136
GEW-150
GEW-175
GEW-057R
GEW-134
LCS-4B
GEW-146
GEW-157
GEW-057B
GEW-182
GEW-018B
GEW-116
GEW-137
GEW-133
GEW-174
GEW-145
GEW-178
GEW-082R
GEW-117
GEW-118
GEW-102
GEW-179
GEW-132
GEW-155
GEW-173
GEW-068A
GEW-138
GEW-188
GEW-081
GEW-144
GEW-180
GEW-184
GEW-122
GEW-078R
GEW-101
GEW-121
GEW-140
GEW-143
GEW-120
GEW-167
GEW-185
GEW-022R
GEW-077
GEW-181
GEW-163
GEW-172
GEW-123
GEW-166
GEW-139
LCS-2D
GEW-131
GEW-164
GEW-142
GEW-100
GEW-124
GEW-171
GEW-165
GEW-130
GEW-125
GEW-141
SEW -002
GEW-168
GEW-177
GEW-126
GEW-169
GEW-129
GEW-127
GEW-170
GEW-186
GEW-128



NOTE:

1.) AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS, INC. AND IS DATED DECEMBER 1, 2017

0 200 400 Feet

N

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK RD
BRIDGETON, MO 63044

BRIDGETON LANDFILL
MONTHLY REPORTING

CARBON MONOXIDE DATA MAP - FEBRUARY 2018

PROJECT NUMBER: BT-145

FILE PATH: C:\Users\plins\Dropbox (Feezor Engineering)\BT-145 Agreed Order Reporting\Surfer Updates\civil 3D\January 2018\January 2018.dwg

Engineering for a Better World
FEEZOR ENGINEERING, INC.

FEBRUARY 2018
DESIGNED BY: PML
APPROVED BY: ---

REVISION DATE

DRAWING NO.:
002

LEGEND

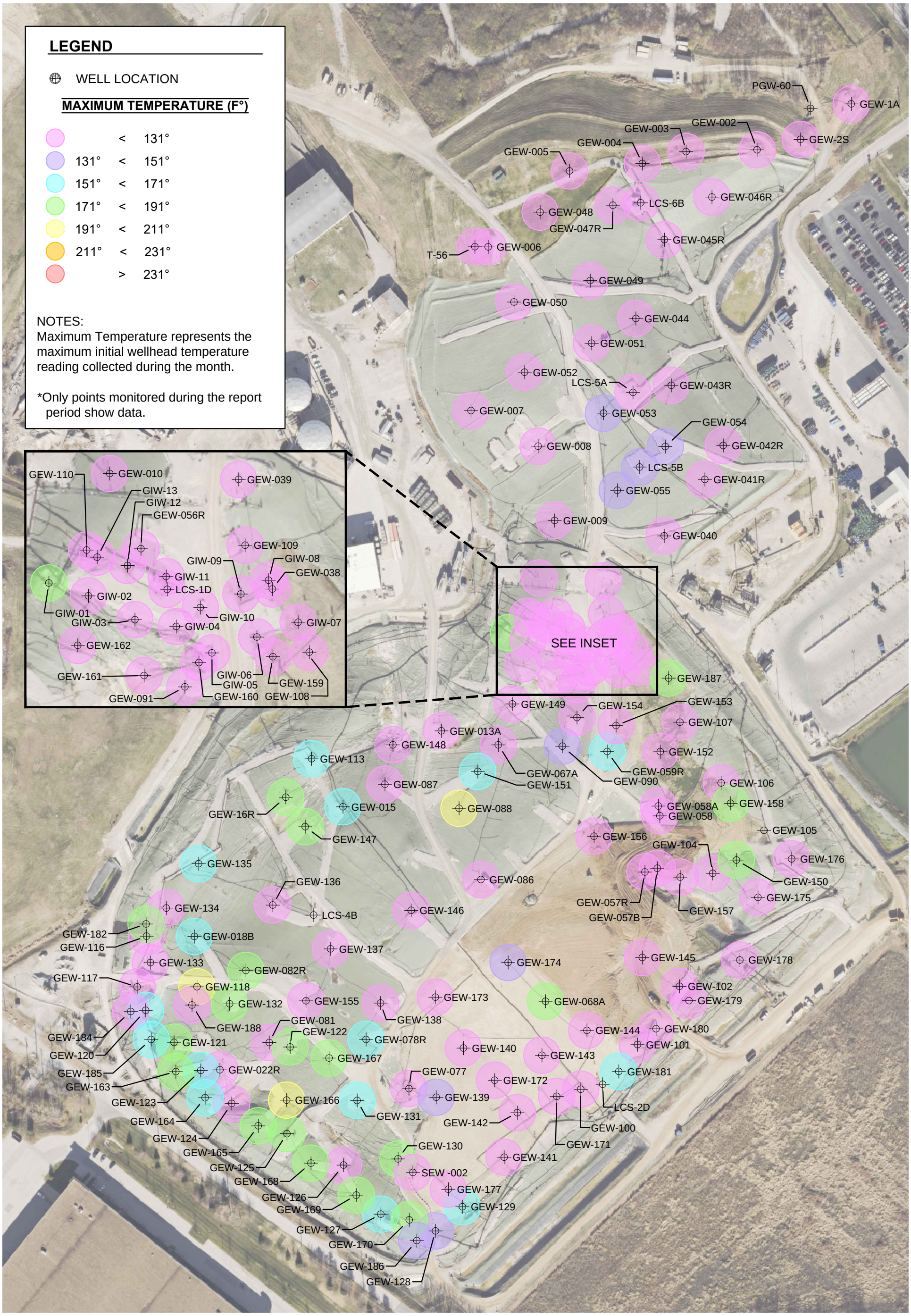
WELL LOCATION

MAXIMUM TEMPERATURE (F°)

	<	131°
131°	<	151°
151°	<	171°
171°	<	191°
191°	<	211°
211°	<	231°
	>	231°

NOTES:
Maximum Temperature represents the maximum initial wellhead temperature reading collected during the month.

*Only points monitored during the report period show data.



NOTE:

1.) AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS, INC. AND IS DATED DECEMBER 1, 2017

0 200 400 Feet

N

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL MONTHLY REPORTING	Engineering for a Better World FEEZOR ENGINEERING, INC.	FEBRUARY 2018 DESIGNED BY: PML APPROVED BY: --- REVISION DATE	DRAWING NO.: 003

INITIAL TEMPERATURE MAXIMUMS - FEBRUARY 2018

PROJECT NUMBER: BT-145 | FILE PATH: C:\Users\plins\Dropbox (Feezor Engineering)\BT-145 Agreed Order Reporting\Surfer Updates\civil 3D\January 2018\January 2018.dwg

ATTACHMENT D

LABORATORY DATA

ATTACHMENT D-1

LAB ANALYSIS SUMMARY

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
North Quarry								
GEW-002	10/9/2017	56	40	ND	ND	ND	ND	
GEW-002	11/6/2017	55	40	ND	3.8	ND	ND	
GEW-002	12/12/2017	54	40	ND	4.4	ND	ND	
GEW-002	1/8/2018	52	36	ND	11	ND	ND	
GEW-002	2/5/2018	56	40	ND	ND	ND	ND	
GEW-02S	11/9/2017	53	37	2.2	7.7	ND	ND	See Note 3
GEW-02S	1/23/2018	57	36	1.6	5.2	ND	ND	
GEW-003	10/9/2017	47	36	ND	15.0	0.06	ND	
GEW-003	11/6/2017	50	37	ND	12.0	0.08	ND	
GEW-003	12/12/2017	49	36	ND	14.0	0.07	ND	
GEW-003	1/8/2018	43	34	ND	21	0.098	ND	
GEW-003	2/5/2018	48	37	ND	14	0.10	ND	
GEW-004	10/9/2017	56	39	ND	3.7	0.06	ND	
GEW-004	11/6/2017	56	39	ND	4.1	0.08	ND	
GEW-004	12/12/2017	52	38	ND	9.3	0.09	ND	
GEW-004	1/8/2018	50	37	ND	13	0.084	ND	
GEW-004	2/5/2018	47	36	ND	15	0.070	ND	
GEW-005	10/9/2017	52	34	1.9	12	ND	ND	
GEW-005	11/6/2017	57	36	ND	6.2	0.04	ND	
GEW-005	12/12/2017	46	34	ND	19	ND	ND	
GEW-005	1/8/2018	43	33	ND	23	ND	ND	
GEW-005	2/6/2018	37	30	ND	33	ND	ND	
GEW-006	11/6/2017	59	37	ND	3.2	ND	ND	
GEW-006	1/8/2018	50	33	ND	16	ND	ND	
GEW-007	11/7/2017	54	36	2.1	7.4	ND	ND	See Note 3
GEW-007	1/9/2018	58	38	ND	ND	ND	ND	
GEW-008	10/11/2017	53	43	ND	ND	1.1	ND	
GEW-008	11/7/2017	54	43	ND	ND	1.2	ND	
GEW-008	12/13/2017	53	41	ND	3.4	1.5	ND	
GEW-008	1/9/2018	54	42	ND	ND	1.7	ND	
GEW-008	2/6/2018	54	41	ND	3.9	0.55	ND	
GEW-009	10/11/2017	49	39	ND	10	0.41	ND	
GEW-009	11/7/2017	51	39	ND	9	0.6	ND	
GEW-009	12/13/2017	50	38	ND	11	0.7	ND	
GEW-009	1/9/2018	53	39	ND	6.7	0.60	ND	
GEW-009	2/6/2018	49	37	ND	12	1.1	ND	
GEW-040	10/11/2017	57	39	ND	3.2	ND	ND	
GEW-040	11/9/2017	58	39	ND	ND	ND	ND	
GEW-040	12/13/2017	58	39	ND	ND	ND	ND	
GEW-040	1/9/2018	57	38	ND	4.2	ND	ND	
GEW-040	2/6/2018	56	35	1.4	7.7	ND	ND	
GEW-041R	11/9/2017	59	38	ND	ND	ND	ND	
GEW-041R	1/9/2018	53	35	ND	12	ND	ND	
GEW-042R	10/11/2017	55	39	ND	4.2	ND	ND	
GEW-042R	11/9/2017	55	39	ND	4.5	ND	ND	
GEW-042R	12/13/2017	57	39	ND	ND	ND	ND	
GEW-042R	1/8/2018	58	39	ND	3.1	ND	ND	
GEW-042R	2/6/2018	57	39	ND	3.1	ND	ND	
GEW-043R	11/9/2017	47	34	4.1	15	0.19	ND	See Note 3
GEW-043R	1/8/2018	56	39	ND	3.9	0.29	ND	
GEW-044	11/9/2017	59	39	ND	ND	ND	ND	
GEW-044	1/8/2018	48	35	ND	16	ND	ND	
GEW-045R	10/11/2017	57	41	ND	ND	ND	ND	
GEW-045R	11/6/2017	55	41	ND	ND	ND	ND	
GEW-045R	12/12/2017	61	36	ND	ND	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-045R	1/8/2018	53	37	2.4	8.2	ND	ND	See Note 3
GEW-045R	2/6/2018	56	42	ND	ND	ND	ND	
GEW-046R	10/9/2017	56	40	ND	ND	0.05	ND	
GEW-046R	11/6/2017	55	40	ND	4	0.06	ND	
GEW-046R	12/12/2017	57	38	ND	4.2	0.04	ND	
GEW-046R	1/8/2018	47	36	ND	17	0.081	ND	
GEW-046R	2/6/2018	51	36	ND	13	0.085	ND	
GEW-047R	10/9/2017	56	42	ND	ND	ND	ND	
GEW-047R	11/6/2017	56	41	ND	ND	ND	ND	
GEW-047R	12/12/2017	48	36	1.5	14	0.03	ND	
GEW-047R	1/8/2018	37	31	1.5	30	0.041	ND	
GEW-047R	2/6/2018	48	36	ND	15	ND	ND	
GEW-048	10/9/2017	54	36	2.1	7.8	ND	ND	See Note 3
GEW-048	11/6/2017	58	39	ND	ND	ND	ND	
GEW-048	12/12/2017	55	38	ND	6.6	ND	ND	
GEW-048	1/8/2018	50	35	ND	13	0.032	ND	
GEW-048	2/6/2018	51	36	ND	13	ND	ND	
GEW-049	10/11/2017	55	39	ND	5.7	ND	ND	
GEW-049	11/6/2017	57	39	ND	3.4	0.06	ND	
GEW-049	12/12/2017	53	36	ND	10	0.06	ND	
GEW-049	1/8/2018	47	34	ND	17	0.036	ND	
GEW-049	2/6/2018	47	33	ND	19	ND	ND	
GEW-050	11/6/2017	55	36	1.7	7	0.05	ND	
GEW-050	1/8/2018	46	32	2.3	19	0.035	ND	See Note 4
GEW-051	11/6/2017	56	40	ND	ND	1.0	ND	
GEW-051	1/8/2018	55	39	ND	4.1	0.90	ND	
GEW-052	11/7/2017	52	37	ND	11	0.04	ND	
GEW-052	1/8/2018	34	30	ND	35	ND	ND	
GEW-053	10/9/2017	53	40	ND	ND	2.8	58	
GEW-053	11/9/2017	49	42	ND	ND	6.7	56	
GEW-053	12/13/2017	51	41	ND	ND	5.1	62	
GEW-053	1/8/2018	49	38	ND	7.7	4.7	57	
GEW-053	2/6/2018	49	39	ND	6.1	4.7	60	
GEW-054	10/9/2017	53	42	ND	ND	2.7	ND	
GEW-054	11/9/2017	54	41	ND	ND	2.7	30	
GEW-054	12/12/2017	54	41	ND	ND	2.5	ND	
GEW-054	1/9/2018	55	39	ND	3.5	1.5	ND	
GEW-054	2/6/2018	52	39	1.4	6.1	2.1	28	
GEW-055	10/11/2017	49	40	1.9	6.4	2.8	36	
GEW-055	11/9/2017	53	41	ND	3.2	2.4	32	
GEW-055	12/12/2017	54	40	ND	3	2.1	32	
GEW-055	1/8/2018	50	40	ND	ND	6.5	46	
GEW-055	2/6/2018	50	38	ND	8.7	2.0	30	
Flare Station[2]	10/10/2017	48.0	36.1	2.1	12.8	ND	ND	See Note 5
Flare Station[2]	11/2/2017	49.5	36.0	2.0	11.2	ND	ND	See Note 5
Flare Station[2]	12/5/2017	42.4	32.4	3.1	21.0	ND	ND	See Note 5
Flare Station[2]	1/3/2018	41.9	31.5	3.2	22.4	ND	ND	See Note 5
Flare Station[2]	2/5/2018	36.1	28.7	4.5	29.6	ND	ND	See Note 5

Notes: (1) Based on the comparison of field to laboratory readings, oxygen to balance gas ratios, and historical concentrations, the sample was determined to be suspect due to oxygen introduction which likely occurred during sample collection or laboratory analytical methods. (2) MDNR also collected duplicate LFG samples at these locations during this sampling period. (3) Based on the oxygen verification readings taken with an Envision meter, it was determined there is a sample train leak. (4) Based on the oxygen verification readings taken with an Envision meter, it was determined that the readings are accurate. (5) Flare station gas concentration data is an average of NQ EP14 A (or 1) and NQ EP14 B (or 2), located in the North Quarry. (6) Flare station gas concentration data is an average of Outlets 1 and 2 (A & B) or SQ OU 1 and OU 2, located in the South Quarry. (7) Sample not reported by lab due to canister leak.

ND = Analyte not detected in sample.

[2] = Flare Station measured at EPA Method 2 flow port (blower outlet)

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
South Quarry								
GEW-010	10/9/2017	57	41	ND	ND	0.06	ND	
GEW-010	11/6/2017	57	39	ND	ND	0.12	ND	
GEW-010	12/12/2017	57	40	ND	ND	ND	ND	
GEW-010	1/8/2018	56	41	ND	ND	ND	ND	
GEW-010	2/6/2018	56	41	ND	ND	0.25	ND	
GEW-022R	11/9/2017	2	44	6.3	22	25	1,700	See Note 3
GEW-022R	1/15/2018	2.8	58	ND	2.9	35	2,100	
GEW-038	10/9/2017	1.2	19	14.0	51	14	840	See Note 4
GEW-038	11/6/2017	0.77	51	2.1	7.3	38	2,300	
GEW-038	12/13/2017	0.89	53	ND	ND	42	2,200	
GEW-038	1/8/2018	12	39	5.2	21	22	1,000	See Note 4
GEW-038	2/6/2018	13	46	2.2	7.4	31	1,500	
GEW-039	10/9/2017	46	52	ND	ND	ND	ND	
GEW-039	11/6/2017	46	49	ND	3.2	0.14	ND	
GEW-039	12/13/2017	46	48	ND	5.1	ND	ND	
GEW-039	1/8/2018	30	37	2.2	30	0.050	37	
GEW-039	2/6/2018	26	32	4.5	37	0.042	42	
GEW-056R	10/9/2017	31	48	ND	ND	17	580	
GEW-056R	11/6/2017	30	42	1.8	10	15	510	
GEW-056R	12/12/2017	9.9	47	ND	20	22	920	
GEW-056R	1/8/2018	26	45	ND	6.5	21	630	
GEW-056R	2/6/2018	28	43	ND	11	18	570	
GEW-057R	1/16/2018	5.4	38	4.6	16	36	1,000	
GEW-058	11/8/2017	2.4	36	4.1	29	28	1,100	
GEW-058	1/15/2018	2.5	34	4.4	27	32	1,200	
GEW-058A	11/8/2017	12	25	7.3	41	15	620	See Note 4
GEW-058A	1/15/2018	1.4	31	5.5	28	34	1,300	See Note 4
GEW-059R	11/7/2017	14	43	ND	4.6	37	1,300	
GEW-059R	1/10/2018	15	40	ND	5.5	38	1,300	
GEW-082R	11/13/2017	11	37	ND	25	26	960	
GEW-082R	1/12/2018	14	37	ND	22	26	910	
GEW-086	11/9/2017	19	37	2.7	36	5.1	140	
GEW-086	1/15/2018	15	32	5.3	38	10	250	See Note 3
GEW-090	11/9/2017	19	43	ND	5.6	31	1,000	
GEW-090	1/5/2018	20	42	ND	5.3	31	1,000	
GEW-102	11/9/2017	5.7	46	2.2	7.4	38	640	
GEW-107	11/7/2017	42	39	2.9	10	6	290	
GEW-107	1/5/2018	40	51	ND	3.7	4.7	240	
GEW-109	10/9/2017	36	42	ND	14	7.6	180	
GEW-109	11/6/2017	33	38	2	19	7.9	190	
GEW-109	12/13/2017	26	35	3	22	13	340	
GEW-109	1/8/2018	20	32	4.5	33	10	310	
GEW-109	2/6/2018	14	31	2.0	44	9.1	370	
GEW-110	10/9/2017	7.9	21	12	48	10	510	See Note 4
GEW-110	11/6/2017	8	17	14	53	8.4	290	See Note 4
GEW-110	12/12/2017	12	38	4.2	19	27	990	
GEW-110	1/8/2018	6.5	18	14	52	9.1	340	See Note 4
GEW-110	2/6/2018	11	50	ND	ND	35	1,300	
GEW-116	11/13/2017	7.7	58	ND	4.1	28	1,200	
GEW-116	1/11/2018	5.4	55	2.2	7.4	29	1,400	
GEW-117	11/9/2017	44	51	ND	ND	0.42	140	
GEW-117	1/11/2018	44	50	ND	4.2	0.49	140	
GEW-118	11/9/2017	1.9	52	2.3	8.5	34	750	
GEW-118	1/12/2018	1.5	47	3.2	12	37	1,100	
GEW-120	11/9/2017	17	53	ND	18	11	510	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-120	1/11/2018	14	44	2.2	29	9.4	450	
GEW-121	11/9/2017	11	48	ND	20	19	910	
GEW-121	1/15/2018	5.6	36	2.5	39	17	990	
GEW-122	11/9/2017	12	34	ND	36	16	1,500	
GEW-122	1/15/2018	12	42	ND	19	27	1,500	
GEW-123	11/9/2017	7.7	58	ND	ND	31	2,300	
GEW-123	1/15/2018	13	40	ND	35	11	570	
GEW-124	11/9/2017	53	44	ND	ND	0.06	ND	
GEW-125	11/9/2017	3.4	45	2.1	20	28	1,800	
GEW-125	1/11/2018	4.0	37	5.1	31	22	1,400	See Note 3
GEW-126	11/9/2017	20	46	2.5	24	6.9	530	
GEW-126	1/11/2018	22	45	ND	26	6.3	430	
GEW-127	11/9/2017	4.1	54	2.3	14	24	2,600	
GEW-127	1/11/2018	5.8	37	7.4	36	13	1,200	See Note 4
GEW-128	11/9/2017	14	60	ND	6.8	17	1,800	
GEW-128	1/11/2018	13	55	ND	17	14	1,400	
GEW-129	11/9/2017	6.3	45	5.5	19	23	2,500	See Note 3
GEW-129	1/15/2018	15	59	ND	6.2	18	1,900	
GEW-130	11/9/2017	5.9	39	5.9	27	22	1,600	See Note 4
GEW-130	1/11/2018	4.9	45	4.3	16	29	2,100	
GEW-131	11/9/2017	20	39	ND	21	19	1,400	
GEW-131	1/11/2018	21	42	ND	16	19	1,300	
GEW-132	11/9/2017	1.8	18	10	61	9.2	500	See Note 4
GEW-132	1/12/2018	2.7	25	8.8	47	16	870	See Note 4
GEW-133	11/13/2017	11	49	ND	15	23	1,100	
GEW-133	1/11/2018	0.75	47	ND	ND	49	1,800	
GEW-134	11/13/2017	10.0	38	2.3	40	10	450	
GEW-134	1/11/2018	12	41	2.0	29	16	700	
GEW-135	11/13/2017	7.3	35	4.4	36	18	890	
GEW-135	1/11/2018	9.2	42	2.6	23	23	1,000	
GEW-136	11/13/2017	5.7	26	7.7	40	20	540	See Note 4
GEW-136	1/11/2018	5.0	21	9.6	50	14	370	See Note 4
GEW-137	11/13/2017	29	34	1.8	35	0.16	33	
GEW-137	1/12/2018	35	33	1.6	30	ND	ND	
GEW-138	11/13/2017	6.5	21	8.9	56	7	390	See Note 4
GEW-138	1/12/2018	9.0	33	ND	45	11	650	
GEW-139	11/9/2017	1.8	51	ND	ND	43	3,000	
GEW-139	1/15/2018	2.3	52	ND	ND	42	2,700	
GEW-140	1/10/2018	13	50	ND	ND	34	1,300	
GEW-144	1/10/2018	1.5	24	11	37	25	1,200	See Note 4
GEW-146	1/11/2018	2.9	6.4	18	72	0.70	ND	
GEW-147	11/13/2017	11	42	ND	22	23	880	
GEW-147	1/11/2018	10	39	ND	28	21	810	
GEW-148	1/11/2018	3.2	48	2.9	9.8	36	2,500	
GEW-149	11/9/2017	14	32	4.3	43	6.4	310	
GEW-149	1/11/2018	12	27	6.9	48	6.5	240	See Note 4
GEW-150	11/8/2017	12	29	7.7	44	6.7	260	See Note 4
GEW-150	1/10/2018	16	31	8.6	32	12	310	See Note 3
GEW-151	11/13/2017	1.4	43	ND	ND	52	1000	
GEW-151	1/11/2018	12	38	4.4	25	20	650	
GEW-152	11/7/2017	24	42	2.2	7.5	23	1300	
GEW-152	1/5/2018	26	42	1.6	6.0	24	1200	
GEW-153	11/7/2017	43	37	ND	17	2	77	
GEW-153	1/5/2018	34	30	1.4	32	1.7	99	
GEW-154	11/9/2017	2.2	10	16	64	7.2	340	See Note 4
GEW-154	1/10/2018	1.5	6.4	18	70	4.2	200	See Note 4

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-155	11/13/2017	1.1	13	11	75	ND	79	See Note 3
GEW-155	1/12/2018	6.3	27	2.3	60	4.3	97	
GEW-156	11/8/2017	16	23	12	43	6	140	See Note 4
GEW-156	1/16/2018	11	14	14	58	2.2	70	See Note 4
GEW-158	11/8/2017	34	48	ND	ND	15	470	
GEW-158	1/10/2018	22	49	ND	ND	26	970	
GEW-159	11/7/2017	25	40	3	29	2.9	150	
GEW-159	1/5/2018	38	40	ND	19	1.5	42	
GEW-160	11/13/2017	13	43	ND	20	23	1,100	
GEW-160	1/5/2018	12	53	ND	ND	31	1,400	
GEW-161	1/5/2018	0.40	28	9.1	31	31	1,400	See Note 4
GEW-162	11/9/2017	11	56	2	11	20	950	
GEW-162	1/5/2018	21	68	ND	4.2	6.1	230	
GEW-163	11/7/2017	10	36	6.8	38	8.7	400	See Note 4
GEW-163	1/9/2018	2.9	23	13	48	12	500	See Note 4
GEW-164	11/7/2017	18	51	3.6	17	11	690	
GEW-164	1/9/2018	20	50	3.5	15	11	640	
GEW-165	11/7/2017	7.8	54	3.7	13	20	1,100	
GEW-165	1/9/2018	11	63	ND	ND	23	1,200	
GEW-166	11/7/2017	0.81	53	1.7	6.6	38	2,500	
GEW-166	1/9/2018	1.2	51	ND	5.0	41	2,600	
GEW-167	11/7/2017	0.56	35	7.8	28	28	1,700	See Note 4
GEW-167	1/9/2018	0.43	30	9.1	33	27	1,600	See Note 3
GEW-168	11/7/2017	10	55	1.6	6.5	26	1,700	
GEW-168	1/10/2018	11	54	ND	4.2	29	1,700	
GEW-169	11/7/2017	2.6	46	5.6	22	23	1,700	See Note 4
GEW-169	1/10/2018	2.4	52	3.0	13	29	2,100	
GEW-170	11/9/2017	8.3	41	7.1	28	15	1,300	See Note 4
GEW-170	1/11/2018	8.0	39	7.2	31	14	1,000	See Note 4
GEW-172	11/9/2017	0.33	46	4.3	15	34	2,700	
GEW-172	1/16/2018	0.45	49	3.0	11	36	2,800	
GEW-173	11/9/2017	8.7	17	12	61	0.21	33	See Note 4
GEW-173	1/16/2018	24	34	1.6	39	0.27	29	
GEW-174	11/9/2017	5.5	50	ND	ND	42	2,700	
GEW-174	1/10/2018	20	44	ND	16	19	960	
GEW-175	11/8/2017	17	45	3.5	21	13	550	
GEW-175	1/10/2018	21	44	3.7	19	12	430	
GEW-176	11/8/2017	21	39	5.5	28	6.8	250	See Note 4
GEW-176	1/10/2018	23	34	7.2	30	5.9	180	See Note 4
GEW-177	11/9/2017	0.32	63	2	6.8	27	4,600	
GEW-177	1/15/2018	3.5	59	ND	4.7	31	3,600	
GEW-181	1/23/2018	9.9	61	2.7	9.4	16	1,200	
GEW-182	1/23/2018	7.1	51	2.2	7.5	32	1,400	
GEW-184	1/23/2018	22	40	8.1	30	0.38	96	
GEW-185	1/23/2018	17	59	ND	4.1	18	940	
GEW-186	1/23/2018	12	59	1.7	7.2	19	1,900	
GEW-187	1/23/2018	10	39	5.8	22	22	1,100	See Note 4
GEW-188	1/23/2018	0.79	22	12	46	18	800	See Note 4
GIW-01	10/9/2017	27	41	3.3	28	0.67	110	
GIW-01	11/6/2017	6	61	ND	7.5	23	1,300	
GIW-01	12/12/2017	16	43	6.1	30	5	230	See Note 4
GIW-01	1/8/2018	11	53	2.8	12	20	940	
GIW-01	2/5/2018	4.9	61	ND	5.2	27	1,300	
GIW-02	10/9/2017	2.3	17	13	65	2.8	290	See Note 4
GIW-02	11/6/2017	1.9	12	14	69	2.8	240	See Note 4
GIW-02	12/12/2017	5.7	32	7.3	43	11	550	See Note 4

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GIW-02	1/8/2018	13	50	3.4	17	16	690	
GIW-02	2/5/2018	2.5	18	14	61	5.6	380	See Note 4
GIW-03	10/9/2017	3.3	53	1.9	17	24	1,400	
GIW-03	11/6/2017	2.9	47	2.1	25	23	1,300	
GIW-03	12/12/2017	1.1	59	ND	ND	37	1,900	
GIW-03	1/8/2018	1.5	54	ND	ND	41	1,700	
GIW-03	2/5/2018	1.4	61	ND	ND	34	1,600	
GIW-04	10/9/2017	3.3	53	3	15	26	1,400	
GIW-04	11/6/2017	1.5	48	4.5	18	27	1,500	
GIW-04	12/12/2017	0.096	5.6	20	69	6	280	See Note 4
GIW-04	1/8/2018	0.53	46	1.5	5.1	46	1,700	
GIW-04	2/5/2018	0.50	36	5.7	20	37	1,200	See Note 4
GIW-05	10/9/2017	0.36	7.2	18	66	8.2	150	See Note 4
GIW-05	11/6/2017	0.21	4.1	20	73	2.3	68	See Note 4
GIW-05	12/12/2017	0.32	8.7	18	62	11	120	See Note 4
GIW-05	1/8/2018	0.92	28	10	36	25	350	See Note 3
GIW-05	2/5/2018	0.45	9.7	17	59	14	180	See Note 4
GIW-06	10/9/2017	15	43	ND	25	15	340	
GIW-06	11/6/2017	17	43	1.6	25	14	320	
GIW-06	12/13/2017	1.7	50	ND	3.5	43	830	
GIW-06	1/8/2018	12	48	ND	9.5	29	560	
GIW-06	2/5/2018	2.6	47	1.6	9.0	39	740	
GIW-07	10/9/2017	22	61	ND	10	5	210	
GIW-07	11/6/2017	21	62	1.9	11	4.3	250	
GIW-07	12/13/2017	19	58	2.6	14	6.3	340	
GIW-07	1/9/2018	30	56	ND	7.1	6.1	350	
GIW-07	2/5/2018	25	56	1.4	11	6.1	310	
GIW-08	10/9/2017	24	55	ND	19	0.49	78	
GIW-08	11/6/2017	22	52	1.8	24	0.48	67	
GIW-08	12/13/2017	25	51	ND	22	0.68	82	
GIW-08	1/9/2018	29	54	ND	15	0.49	68	
GIW-08	2/5/2018	22	52	ND	25	0.47	64	
GIW-09	10/9/2017	3.9	17	9.8	66	2.6	160	See Note 4
GIW-09	11/6/2017	4	15	12	67	2.4	150	See Note 4
GIW-09	12/13/2017	13	21	5.9	55	5	150	See Note 3
GIW-09	1/9/2018	4.9	14	14	65	2.1	120	See Note 4
GIW-09	2/5/2018	3.9	13	12	66	5.0	200	See Note 4
GIW-10	10/9/2017	14	36	ND	34	15	470	
GIW-10	11/6/2017	11	31	ND	41	15	470	
GIW-10	12/12/2017	6.1	42	ND	17	34	660	
GIW-10	1/9/2018	4.9	41	1.8	17	36	650	
GIW-10	2/5/2018	6.9	40	ND	24	28	560	
GIW-11	10/9/2017	15	40	2.6	30	12	560	
GIW-11	11/6/2017	13	38	1.7	33	14	620	
GIW-11	12/12/2017	29	46	ND	6.4	18	590	
GIW-11	1/9/2018	9.2	47	ND	20	22	910	
GIW-11	2/5/2018	7.7	44	ND	27	20	860	
GIW-12	10/9/2017	6.2	33	8.7	37	15	990	See Note 4
GIW-12	11/6/2017	4.9	32	8.3	37	17	1100	See Note 4
GIW-12	12/12/2017	14	33	6.7	37	9.4	470	See Note 4
GIW-12	1/9/2018	9.9	33	6.0	38	13	730	See Note 4
GIW-12	2/5/2018	9.8	41	2.5	29	18	930	
GIW-13	10/9/2017	20	57	ND	5.2	16	550	
GIW-13	11/6/2017	24	56	ND	3.9	15	540	
GIW-13	12/12/2017	17	56	ND	5.5	20	610	
GIW-13	1/9/2018	18	58	ND	3.2	20	560	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GIW-13	2/5/2018	18	59	ND	4.1	18	490	
Flare Station[2]	10/10/2017	12.1	33.6	7.8	36.0	9.5	535	See Note 6
Flare Station[2]	11/2/2017	11.5	32.3	8.3	37.6	9.5	530	See Note 6
Flare Station[2]	12/5/2017	11.9	33.8	7.7	35.4	10.5	555	See Note 6
Flare Station[2]	1/3/2018	12.4	33.7	8.1	34.6	10.7	545	See Note 6
Flare Station[2]	2/5/2018	12.2	33.0	7.6	36.2	10.3	505	See Note 6

Notes: (1) Based on the comparison of field to laboratory readings, oxygen to balance gas ratios, and historical concentrations, the sample was determined to be suspect due to oxygen introduction which likely occurred during sample collection or laboratory analytical methods. (2) MDNR also collected duplicate LFG samples at these locations during this sampling period. (3) Based on the oxygen verification readings taken with an Envision meter, it was determined there is a sample train leak. (4) Based on the oxygen verification readings taken with an Envision meter, it was determined that the readings are accurate. (5) Flare station gas concentration data is an average of NQ EP14 A (or 1) and NQ EP14 B (or 2), located in the North Quarry. (6) Flare station gas concentration data is an average of Outlets 1 and 2 (A & B) or SQ OU 1 and OU 2, located in the South Quarry. (7) Sample not reported by lab due to canister leak.

ND = Analyte not detected in sample.

[2] = Flare Station Inlet measured at EPA Method 2 flow port (blower outlet)

ATTACHMENT D-2

LAB ANALYSIS REPORTS

Air TECHNOLOGY
Laboratories, Inc.

February 14, 2018

LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-14-6
EPA Methods TO14A, TO15
UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: J020705-01/35

Enclosed are results for sample(s) received 2/07/18 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich and Erin Fanning; David Randall, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 2/14/18.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard ☐ 48 hours ☒
Same Day ☐ 72 hours ☐
24 hours ☐ 96 hours ☐
Other: 5 Day

DELIVERABLES

EDD ☐
EDF ☐
Level 3 ☐
Level 4 ☐

PAGE: 1 OF 4

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd.
City/State/Zip:	Bridgeton , MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.: PO7112802
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg) Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIAL PSSI
J020705-01	3128	-21.5	-5	GIW 1	2/5/2018	9:07	C	LFG	NA	X					-3
-02	A7814	-21.4	-5	GIW 2	2/5/2018	9:19	C	LFG	NA	X					-3
-03	5318	-21.6	-5	GIW 3	2/5/2018	9:50	C	LFG	NA	X					-3
-04	6160	-21.7	-5	GIW 4	2/5/2018	10:01	C	LFG	NA	X					-3
-05	A7764	-21.2	-5	GIW 5	2/5/2018	11:01	C	LFG	NA	X					-3
-06	5306	-21.3	-5	GIW 6	2/5/2018	11:17	C	LFG	NA	X					-3
-07	A7807	-21.1	-5	GIW 7	2/5/2018	11:36	C	LFG	NA	X					-3
-08	A7794	-21.4	-5	GIW 8	2/5/2018	13:24	C	LFG	NA	X					-3
-09	4656	-21.4	-5	GIW 9	2/5/2018	13:35	C	LFG	NA	X					-3
-10	5833	-21	-5	GIW 10	2/5/2018	13:46	C	LFG	NA	X					-3.5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens COMPANY: Cornerstone Env. DATE/TIME

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY FED EX	DATE/TIME	RECEIVED BY	DATE/TIME
			2/7/18 1250
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

Standard ☐ 48 hours ☒
Same Day ☐ 72 hours ☐
24 hours ☐ 96 hours ☐
Other: 5 Day

DELIVERABLES

EDD ☐
EDF ☐
Level 3 ☐
Level 4 ☐

PAGE: 2 OF 4

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd.
City/State/Zip:	Bridgeton , MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.: PO7112802
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg) Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIAL PRESS
J020705-11	A7649	-21.2	-5	GIW 11	2/5/2018	14:00	C	LFG	NA	X					-3.5
-12	3126	-21.1	-5	GIW 12	2/5/2018	14:10	C	LFG	NA	X					-3.5
-13	5815	-21.5	-5	GIW 13	2/5/2018	14:20	C	LFG	NA	X					-3
-14	A7781	-22	-5	GEW 56R	2/6/2018	8:22	C	LFG	NA	X					-2
-15	A7775	-21.8	-5	GEW 110	2/6/2018	8:39	C	LFG	NA	X					-2
-16	A7663	-21.9	-5	GEW 10	2/6/2018	8:51	C	LFG	NA	X					-2.9
-17	5817	-21.9	-5	GEW 38	2/6/2018	9:26	C	LFG	NA	X					-2
-18	5836	-21.5	-5	GEW 109	2/6/2018	9:37	C	LFG	NA	X					-3
-19	5305	-21.6	-5	GEW 39	2/6/2018	9:48	C	LFG	NA	X					-3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens COMPANY: Cornerstone Env. DATE/TIME

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
FEDEX			2/7/18 1250

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

- Standard ☐ 48 hours ☒
- Same Day ☐ 72 hours ☐
- 24 hours ☐ 96 hours ☐
- Other: 5 Day

DELIVERABLES

- EDD ☐
- EDF ☐
- Level 3 ☐
- Level 4 ☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd.
City/State/Zip:	Bridgeton , MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.:	PO7112802
Bill to:	Republic Services
	Attn: Mike Lambrich
	13570 St. Charles Rock Rd.
	Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg) Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIAL PRESS
J020705-20	3440	-21	-5	GEW 2	2/5/2018	15:04	C	LFG	NA	X					-3
-21	5910	-21.1	-5	GEW 3	2/5/2018	15:26	C	LFG	NA	X					-3
-22	A8096	-20.9	-5	GEW 4	2/5/2018	15:38	C	LFG	NA	X					-3.5
-23	5819	-21.1	-5	GEW 5	2/6/2018	9:06	C	LFG	NA	X					-3
-24	3157	-21.5	-5	GEW 48	2/6/2018	9:19	C	LFG	NA	X					-3
-25	A7646	-21.6	-5	GEW 47R	2/6/2018	9:33	C	LFG	NA	X					-3
-26	5323	-21.8	-5	GEW 49	2/6/2018	9:48	C	LFG	NA	X					-3
-27	A7816	-21.7	-5	GEW 46R	2/6/2018	10:06	C	LFG	NA	X					-3
-28	A7770	-21.4	-5	GEW 45R	2/6/2018	10:18	C	LFG	NA	X					-3
-29	3131	-21.6	-5	GEW 42R	2/6/2018	10:38	C	LFG	NA	X					-3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
FEDEX		[illegible]	2/7/18 1250

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

CHAIN OF CUSTODY RECORD

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

TURNAROUND TIME

Standard	☐	48 hours	☒
Same Day	☐	72 hours	☐
24 hours	☐	96 hours	☐
Other: 5 Day			

DELIVERABLES

EDD	☐
EDF	☐
Level 3	☐
Level 4	☐

PAGE: 4 **OF** 4

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	
Project Name:	Bridgeton Landfill
Report To:	Mike Lambrich
Company:	Republic Services
Street:	13570 St. Charles Rock Rd.
City/State/Zip:	Bridgeton , MO 63044
Phone& Fax:	314-683-3921
e-mail:	Mlambrich@republicservices.com

BILLING

P.O. No.:	PO7112802
Bill to:	Republic Services
	Attn: Mike Lambrich
	13570 St. Charles Rock Rd.
	Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg) Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIAL PRESS
J020705-30	4644	-21.3	-5	GEW 54	2/6/2018	10:52	C	LFG	NA	X					-3
-31	6131	-21.3	-5	GEW 53	2/6/2018	11:05	C	LFG	NA	X					-3
-32	5834	-21.5	-5	GEW 55	2/6/2018	11:21	C	LFG	NA	X					-3
-33	6152	-21.4	-5	GEW 40	2/6/2018	11:40	C	LFG	NA	X					-3
-34	5313	-21.4	-5	GEW 8	2/6/2018	11:52	C	LFG	NA	X					-3
-35	5310	-21.7	-5	GEW 9	2/6/2018	12:02	C	LFG	NA	X					-3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
RELINQUISHED BY Fed Ex	DATE/TIME	RECEIVED BY UPS - 2/7/18 1250	DATE/TIME
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other_____

COMMENTS

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: **H**=HCl **N**=None / Container: **B**=Bag **C**=Can **V**=VOA **O**=Other *Rev. 03 - 5/7/09*

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-01		J020705-02		J020705-03		J020705-04	
Client Sample I.D.:	GIW 1		GIW 2		GIW 3		GIW 4	
Date/Time Sampled:	2/5/18 9:07		2/5/18 9:19		2/5/18 9:50		2/5/18 10:01	
Date/Time Analyzed:	2/8/18 13:16		2/8/18 13:31		2/8/18 13:45		2/8/18 14:00	
QC Batch No.:	180208GC8A2		180208GC8A2		180208GC8A2		180208GC8A2	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	27	2.8	5.6	2.8	34	2.8	37	2.8
Carbon Dioxide	61	0.028	18	0.028	61	0.028	36	0.028
Oxygen/Argon	ND	1.4	14	1.4	ND	1.4	5.7	1.4
Nitrogen	5.2	2.8	61	2.8	ND	2.8	20	2.8
Methane	4.9	0.0028	2.5	0.0028	1.4	0.0028	0.50	0.0028
Carbon Monoxide	0.13	0.0028	0.038	0.0028	0.16	0.0028	0.12	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/14/18

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-05		J020705-06		J020705-07		J020705-08	
Client Sample I.D.:	GIW 5		GIW 6		GIW 7		GIW 8	
Date/Time Sampled:	2/5/18 11:01		2/5/18 11:17		2/5/18 11:36		2/5/18 13:24	
Date/Time Analyzed:	2/8/18 14:14		2/8/18 14:29		2/8/18 14:43		2/8/18 14:58	
QC Batch No.:	180208GC8A2		180208GC8A2		180208GC8A2		180208GC8A2	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	14	2.8	39	2.8	6.1	2.8	0.47 d	0.028
Carbon Dioxide	9.7	0.028	47	0.028	56	0.028	52	0.028
Oxygen/Argon	17	1.4	1.6	1.4	1.4	1.4	ND	1.4
Nitrogen	59	2.8	9.0	2.8	11	2.8	25	2.8
Methane	0.45	0.0028	2.6	0.0028	25	0.0028	22	0.0028
Carbon Monoxide	0.018	0.0028	0.074	0.0028	0.031	0.0028	0.0064	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-09		J020705-10		J020705-11		J020705-12	
Client Sample I.D.:	GIW 9		GIW 10		GIW 11		GIW 12	
Date/Time Sampled:	2/5/18 13:35		2/5/18 13:46		2/5/18 14:00		2/5/18 14:10	
Date/Time Analyzed:	2/8/18 15:13		2/8/18 15:27		2/8/18 15:42		2/8/18 15:56	
QC Batch No.:	180208GC8A2		180208GC8A2		180208GC8A2		180208GC8A2	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.9		2.9		2.9	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	5.0	2.8	28	2.9	20	2.9	18	2.9
Carbon Dioxide	13	0.028	40	0.029	44	0.029	41	0.029
Oxygen/Argon	12	1.4	ND	1.4	ND	1.4	2.5	1.4
Nitrogen	66	2.8	24	2.9	27	2.9	29	2.9
Methane	3.9	0.0028	6.9	0.0029	7.7	0.0029	9.8	0.0029
Carbon Monoxide	0.020	0.0028	0.056	0.0029	0.086	0.0029	0.093	0.0029

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-13		J020705-14		J020705-15		J020705-16	
Client Sample I.D.:	GIW 13		GEW 56R		GEW 110		GEW 10	
Date/Time Sampled:	2/5/18 14:20		2/6/18 8:22		2/6/18 8:39		2/6/18 8:51	
Date/Time Analyzed:	2/8/18 16:11		2/8/18 16:26		2/8/18 16:40		2/8/18 16:55	
QC Batch No.:	180208GC8A2		180208GC8A2		180208GC8A2		180208GC8A2	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.7		2.7		2.7	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	18	2.8	18	2.7	35	2.7	0.25 d	0.027
Carbon Dioxide	59	0.028	43	0.027	50	0.027	41	0.027
Oxygen/Argon	ND	1.4	ND	1.3	ND	1.3	ND	1.4
Nitrogen	4.1	2.8	11	2.7	ND	2.7	ND	2.7
Methane	18	0.0028	28	0.0027	11	0.0027	56	0.0027
Carbon Monoxide	0.049	0.0028	0.057	0.0027	0.13	0.0027	ND	0.0027

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-17		J020705-18		J020705-19		J020705-20	
Client Sample I.D.:	GEW 38		GEW 109		GEW 39		GEW 2	
Date/Time Sampled:	2/6/18 9:26		2/6/18 9:37		2/6/18 9:48		2/5/18 15:04	
Date/Time Analyzed:	2/8/18 19:35		2/8/18 19:50		2/8/18 20:04		2/8/18 20:19	
QC Batch No.:	180208GC8A3		180208GC8A3		180208GC8A3		180208GC8A3	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.7		2.8		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	31	2.7	9.1	2.8	0.042 d	0.028	ND d	0.028
Carbon Dioxide	46	0.027	31	0.028	32	0.028	40	0.028
Oxygen/Argon	2.2	1.3	2.0	1.4	4.5	1.4	ND	1.4
Nitrogen	7.4	2.7	44	2.8	37	2.8	ND	2.8
Methane	13	0.0027	14	0.0028	26	0.0028	56	0.0028
Carbon Monoxide	0.15	0.0027	0.037	0.0028	0.0042	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-21		J020705-22		J020705-23		J020705-24	
Client Sample I.D.:	GEW 3		GEW 4		GEW 5		GEW 48	
Date/Time Sampled:	2/5/18 15:26		2/5/18 15:38		2/6/18 9:06		2/6/18 9:19	
Date/Time Analyzed:	2/9/18 8:22		2/9/18 8:36		2/9/18 8:51		2/9/18 9:05	
QC Batch No.:	180208GC8A3		180208GC8A3		180208GC8A3		180208GC8A3	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.9		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	0.10 d	0.028	0.070 d	0.029	ND d	0.028	ND d	0.028
Carbon Dioxide	37	0.028	36	0.029	30	0.028	36	0.028
Oxygen/Argon	ND	1.4	ND	1.4	ND	1.4	ND	1.4
Nitrogen	14	2.8	15	2.9	33	2.8	13	2.8
Methane	48	0.0028	47	0.0029	37	0.0028	51	0.0028
Carbon Monoxide	ND	0.0028	ND	0.0029	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-25		J020705-26		J020705-27		J020705-28	
Client Sample I.D.:	GEW 47R		GEW 49		GEW 46R		GEW 45R	
Date/Time Sampled:	2/6/18 9:33		2/6/18 9:48		2/6/18 10:06		2/6/18 10:18	
Date/Time Analyzed:	2/9/18 9:20		2/9/18 9:34		2/9/18 9:49		2/9/18 10:03	
QC Batch No.:	180208GC8A3		180208GC8A3		180208GC8A3		180208GC8A3	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.028	ND d	0.028	0.085 d	0.028	ND d	0.028
Carbon Dioxide	36	0.028	33	0.028	36	0.028	42	0.028
Oxygen/Argon	ND	1.4	ND	1.4	ND	1.4	ND	1.4
Nitrogen	15	2.8	19	2.8	13	2.8	ND	2.8
Methane	48	0.0028	47	0.0028	51	0.0028	56	0.0028
Carbon Monoxide	ND	0.0028	ND	0.0028	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-29		J020705-30		J020705-31		J020705-32	
Client Sample I.D.:	GEW 42R		GEW 54		GEW 53		GEW 55	
Date/Time Sampled:	2/6/18 10:38		2/6/18 10:52		2/6/18 11:05		2/6/18 11:21	
Date/Time Analyzed:	2/9/18 10:18		2/9/18 10:33		2/9/18 10:47		2/9/18 11:02	
QC Batch No.:	180208GC8A3		180208GC8A3		180208GC8A3		180208GC8A3	
Analyst Initials:	AS		AS		AS		AS	
Dilution Factor:	2.8		2.8		2.8		2.8	
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.028	2.1 d	0.028	4.7	2.8	2.0 d	0.028
Carbon Dioxide	39	0.028	39	0.028	39	0.028	38	0.028
Oxygen/Argon	ND	1.4	1.4	1.4	ND	1.4	ND	1.4
Nitrogen	3.1	2.8	6.1	2.8	6.1	2.8	8.7	2.8
Methane	57	0.0028	52	0.0028	49	0.0028	50	0.0028
Carbon Monoxide	ND	0.0028	0.0028	0.0028	0.0060	0.0028	0.0030	0.0028

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 02/07/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J020705-33		J020705-34		J020705-35			
Client Sample I.D.:	GEW 40		GEW 8		GEW 9			
Date/Time Sampled:	2/6/18 11:40		2/6/18 11:52		2/6/18 12:02			
Date/Time Analyzed:	2/9/18 11:16		2/9/18 11:31		2/9/18 11:45			
QC Batch No.:	180208GC8A3		180208GC8A3		180208GC8A3			
Analyst Initials:	AS		AS		AS			
Dilution Factor:	2.8		2.8		2.8			
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v		
Hydrogen	ND d	0.028	0.55 d	0.028	1.1 d	0.028		
Carbon Dioxide	35	0.028	41	0.028	37	0.028		
Oxygen/Argon	1.4	1.4	ND	1.4	ND	1.4		
Nitrogen	7.7	2.8	3.9	2.8	12	2.8		
Methane	56	0.0028	54	0.0028	49	0.0028		
Carbon Monoxide	ND	0.0028	ND	0.0028	ND	0.0028		

Results normalized including non-methane hydrocarbons
ND = Not Detected (below RL)
RL = Reporting Limit
d = Reported from a secondary analysis. QC Batch: 180214GC8A1

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No: 180208GC8A2
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	2/8/18 12:32			2/8/18 11:48		2/8/18 12:03					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0			Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.75	115	5.66	113	1.6	70	130	30
Carbon Dioxide	ND	0.010	10	9.36	93	9.35	93	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.7	106	15.7	106	0.0	70	130	30
Nitrogen	ND	1.0	70	71.2	102	71.1	102	0.1	70	130	30
Methane	ND	0.0010	0.10	0.109	109	0.109	109	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.108	108	0.108	108	0.4	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No: 180208GC8A3
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	2/8/18 19:21			2/8/18 18:22		2/8/18 18:37					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0			Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.08	102	5.04	101	0.8	70	130	30
Carbon Dioxide	ND	0.010	10	9.11	91	9.07	91	0.4	70	130	30
Oxygen/Argon	ND	0.50	15	16.1	108	16.1	109	0.1	70	130	30
Nitrogen	ND	1.0	70	71.8	103	71.7	103	0.1	70	130	30
Methane	ND	0.0010	0.10	0.107	107	0.106	106	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.106	106	0.106	106	0.4	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch # 180214GC8A1
Matrix: Air
Units: % v/v

QC for Low Level Hydrogen Analysis

Lab No.:	Blank		LCS		LCSD			
Date Analyzed:	2/14/2018 8:54		2/14/2018 8:44		2/14/2018 8:49			
Analyst Initials:	AS		AS		AS			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	%Rec	Criteria	%Rec	Criteria	RPD	Criteria
Hydrogen	ND	0.01	98	70-130	96	70-130	1.9	<20

ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 2/14/18
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

ATTACHMENT E

GAS WELLFIELD DATA

ATTACHMENT E-1

WELLFIELD DATA TABLE

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	Date Sampled	Methane	CO_2	O_2	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H_2O		
GEW-002	2/1/2018 15:09	54.9	41.4	0.0	3.7	115.1	115.0	34.0	32.8	-0.3	-0.3	-12.9
GEW-002	2/5/2018 14:59	57.0	41.3	0.0	1.7	115.3	115.3	19.6	20.2	0.3	0.4	-13.6
GEW-002	2/5/2018 15:09	56.1	42.1	0.0	1.8	115.0	115.0	18.1	18.5	0.2	0.2	-13.4
GEW-002	2/6/2018 8:48	55.3	42.8	0.0	1.9	115.7	115.7	20.0	18.6	-0.3	-0.3	-14.6
GEW-002	2/12/2018 15:00	55.4	39.7	0.0	4.9	116.8	116.8	20.0	23.9	-0.4	-0.3	-15.2
GEW-002	2/20/2018 10:25	54.5	42.6	0.0	2.9	117.2	117.1	22.2	23.6	-0.2	-0.3	-13.6
GEW-002	2/26/2018 13:41	55.7	39.3	0.0	5.0	117.4	117.3	21.7	21.7	-0.2	-0.2	-14.0
GEW-003	2/1/2018 15:19	38.8	32.0	0.0	29.2	105.7	106.0	11.9	16.5	-0.8	-0.7	-13.3
GEW-003	2/1/2018 15:21	37.1	33.8	0.0	29.1	103.2	102.9	6.1	2.9	-0.7	-0.7	-13.2
GEW-003	2/5/2018 15:23	48.6	38.5	0.0	12.9	103.3	103.0	7.9	9.2	0.3	0.3	-12.9
GEW-003	2/5/2018 15:31	48.1	39.0	0.0	12.9	103.3	103.5	5.8	8.8	0.2	0.2	-12.9
GEW-003	2/6/2018 8:52	40.3	35.2	0.0	24.5	101.1	102.1	4.1	5.4	-0.3	-0.3	-12.6
GEW-003	2/6/2018 8:53	40.1	36.0	0.0	23.9	101.8	101.8	7.2	4.7	-0.3	-0.3	-13.2
GEW-003	2/12/2018 15:04	41.4	36.1	0.0	22.5	104.8	104.5	4.4	2.3	-0.2	-0.2	-14.7
GEW-003	2/12/2018 15:06	41.4	36.5	0.0	22.1	104.9	104.8	20.9	20.7	-0.2	-0.2	-14.7
GEW-003	2/20/2018 10:30	43.6	37.5	0.0	18.9	106.2	106.2	9.4	9.4	-0.2	-0.2	-13.0
GEW-003	2/20/2018 10:32	43.1	37.8	0.0	19.1	106.2	106.3	20.2	20.0	-0.3	-0.3	-13.2
GEW-003	2/26/2018 13:45	45.7	37.7	0.0	16.6	107.9	108.0	6.9	6.9	0.0	0.0	-13.1
GEW-003	2/26/2018 13:47	45.6	38.3	0.0	16.1	108.0	108.2	4.1	5.6	0.0	0.0	-13.2
GEW-003	2/27/2018 10:47	45.5	38.5	0.0	16.0	108.0	108.0	10.8	11.0	0.0	0.0	-13.2
GEW-003	2/27/2018 10:49	45.4	38.2	0.0	16.4	108.2	108.0	10.2	11.8	0.0	0.0	-12.9
GEW-003	2/28/2018 13:51	46.7	36.8	0.0	16.5	114.0	114.0	16.0	17.9	-0.1	-0.1	-13.0
GEW-004	2/1/2018 15:24	41.8	35.4	0.0	22.8	115.1	115.0	14.5	14.5	-0.8	-0.8	-13.2
GEW-004	2/1/2018 15:26	41.6	36.2	0.0	22.2	113.5	113.5	9.8	11.1	-0.8	-0.7	-13.8
GEW-004	2/5/2018 15:34	46.4	38.4	0.0	15.2	111.7	112.2	8.3	8.3	0.1	0.1	-13.2
GEW-004	2/5/2018 15:42	47.0	37.6	0.0	15.4	112.7	112.0	8.3	8.5	0.0	-0.1	-12.5
GEW-004	2/12/2018 15:09	47.5	37.3	0.0	15.2	113.7	113.5	11.6	11.6	-0.3	-0.3	-14.5
GEW-004	2/20/2018 10:36	48.7	38.8	0.0	12.5	114.0	113.2	26.1	26.7	-0.2	-0.3	-13.0
GEW-004	2/26/2018 13:50	49.4	38.3	0.0	12.3	114.0	114.0	13.8	13.8	-0.1	-0.1	-13.2
GEW-005	2/1/2018 15:46	33.8	29.9	0.0	36.3	84.9	84.9	9.2	10.4	-0.5	-0.4	-14.2
GEW-005	2/1/2018 15:48	33.2	30.9	0.0	35.9	83.3	83.4	4.9	5.6	-0.4	-0.4	-13.7
GEW-005	2/6/2018 9:02	35.8	32.4	0.0	31.8	80.3	79.8	28.5	28.2	-0.1	-0.2	-13.1
GEW-005	2/6/2018 9:10	36.4	32.0	0.0	31.6	80.5	80.3	27.9	28.6	-0.1	-0.1	-12.8
GEW-005	2/12/2018 15:19	38.5	33.6	0.0	27.9	84.7	84.9	22.8	25.2	-0.1	-0.1	-14.3
GEW-005	2/20/2018 10:50	40.3	35.1	0.0	24.6	86.5	86.5	0.0	3.9	-0.1	-0.1	-13.2
GEW-005	2/26/2018 14:14	43.1	33.7	0.0	23.2	86.3	86.1	11.5	8.8	0.1	0.0	-13.3
GEW-005	2/26/2018 14:16	43.2	34.5	0.0	22.3	86.3	86.1	5.0	4.2	0.0	0.0	-13.2
GEW-005	2/27/2018 10:59	42.3	35.2	0.0	22.5	86.8	86.8	8.3	14.9	0.2	0.2	-13.1
GEW-005	2/27/2018 11:01	42.6	35.0	0.0	22.4	87.0	87.0	9.2	6.2	0.2	0.2	-13.1
GEW-005	2/28/2018 13:45	43.8	35.7	0.0	20.5	91.7	91.9	21.3	23.7	-0.1	-0.1	-13.6
GEW-006	2/2/2018 8:53	37.0	31.4	0.2	31.4	77.1	77.3	13.3	16.2	-0.3	-0.3	-13.1

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-006	2/2/2018 8:54	37.2	31.7	0.2	30.9	73.9	73.8	10.8	6.2	-0.1	-0.1	-12.6
GEW-006	2/7/2018 8:47	45.3	35.0	0.0	19.7	61.6	61.6	5.6	11.9	-0.1	-0.1	-15.3
GEW-006	2/12/2018 15:27	52.1	36.2	0.0	11.7	74.5	74.6	7.2	5.8	0.1	0.0	-14.6
GEW-006	2/12/2018 15:29	52.1	36.7	0.0	11.2	75.2	75.5	5.4	4.9	0.0	0.1	-14.8
GEW-006	2/13/2018 11:06	53.8	35.5	0.0	10.7	77.5	77.7	10.0	9.6	0.1	0.1	-13.6
GEW-006	2/13/2018 11:09	53.1	36.1	0.0	10.8	80.8	81.0	5.5	5.9	0.1	0.1	-14.5
GEW-006	2/14/2018 8:33	53.4	37.2	0.0	9.4	81.9	82.1	12.3	12.2	0.0	0.0	-14.4
GEW-006	2/14/2018 8:35	53.3	36.6	0.0	10.1	82.3	82.5	11.7	11.6	0.0	0.0	-14.3
GEW-006	2/20/2018 11:01	49.4	36.8	0.0	13.8	83.4	83.5	5.4	9.4	-0.1	-0.1	-13.4
GEW-006	2/26/2018 14:26	52.3	36.5	0.0	11.2	87.5	87.7	0.0	0.0	0.0	0.0	-13.4
GEW-006	2/26/2018 14:27	52.5	37.0	0.0	10.5	87.7	87.8	5.0	5.7	-0.1	-0.1	-13.7
GEW-007	2/1/2018 10:11	57.7	39.5	0.0	2.8	82.3	82.6	12.3	9.5	-3.6	-3.6	-14.4
GEW-007	2/1/2018 10:13	57.5	39.0	0.0	3.5	81.5	81.7	31.3	31.5	-3.6	-3.6	-14.6
GEW-007	2/7/2018 9:10	57.5	40.2	0.0	2.3	81.9	81.9	11.3	10.6	-2.6	-2.6	-15.2
GEW-007	2/7/2018 9:12	56.9	40.4	0.0	2.7	79.6	79.4	32.8	32.5	-1.7	-1.7	-15.2
GEW-007	2/12/2018 10:42	58.5	39.5	0.0	2.0	80.3	80.2	10.3	10.3	-1.6	-1.6	-14.6
GEW-007	2/12/2018 10:43	57.4	40.2	0.0	2.4	80.2	79.8	8.3	8.3	-1.6	-1.6	-14.5
GEW-007	2/20/2018 11:33	57.0	41.0	0.0	2.0	83.1	83.3	12.3	10.7	-0.8	-0.8	-13.5
GEW-007	2/20/2018 11:34	57.0	41.6	0.0	1.4	83.2	83.1	8.7	9.5	-0.8	-0.8	-13.2
GEW-007	2/26/2018 10:04	56.5	39.0	0.0	4.5	83.0	83.0	9.2	10.0	-1.2	-1.2	-13.7
GEW-008	2/1/2018 10:18	52.9	41.6	0.0	5.5	109.3	109.5	12.1	15.5	-1.4	-1.4	-14.7
GEW-008	2/6/2018 11:49	56.8	38.2	0.0	5.0	109.2	110.0	14.0	15.9	-0.7	-0.7	-12.0
GEW-008	2/6/2018 11:55	53.3	41.1	0.0	5.6	109.2	109.5	15.7	15.9	-0.6	-0.6	-12.5
GEW-008	2/12/2018 10:48	51.9	41.7	0.0	6.4	110.7	111.5	11.4	14.7	-1.0	-1.0	-14.7
GEW-008	2/20/2018 11:38	52.7	44.0	0.0	3.3	111.7	112.0	16.8	13.7	-0.6	-0.7	-13.3
GEW-008	2/26/2018 10:09	51.9	40.8	0.0	7.3	111.2	111.7	16.2	13.2	-0.9	-0.9	-13.6
GEW-009	2/1/2018 10:22	41.8	38.7	0.0	19.5	113.5	113.8	17.5	18.5	-0.7	-0.7	-18.9
GEW-009	2/1/2018 10:23	41.8	38.1	0.0	20.1	113.2	113.5	22.9	22.7	-0.5	-0.5	-19.5
GEW-009	2/6/2018 11:58	47.9	39.8	0.0	12.3	115.2	114.8	3.8	8.9	-0.1	-0.1	-17.4
GEW-009	2/6/2018 12:05	49.6	38.2	0.0	12.2	115.5	115.3	9.7	7.6	-0.1	-0.1	-17.5
GEW-009	2/12/2018 10:51	45.4	39.7	0.0	14.9	114.8	115.4	6.0	3.8	-0.3	-0.3	-17.6
GEW-009	2/20/2018 11:42	47.5	40.8	0.0	11.7	118.9	118.7	10.0	12.5	-0.1	-0.2	-17.1
GEW-009	2/26/2018 10:13	48.8	40.2	0.0	11.0	116.8	116.6	14.4	14.4	-0.1	-0.1	-8.4
GEW-010	2/6/2018 8:48	57.3	42.6	0.1	0.0	21.5	21.5	1.3	1.3	-1.7	-1.7	-21.1
GEW-010	2/6/2018 8:54	58.6	41.3	0.1	0.0	21.9	21.9	3.7	3.7	-1.7	-1.7	-20.9
GEW-010	2/12/2018 8:31	54.1	42.9	0.1	2.9	22.5	22.6	6.0	6.0	-2.2	-2.2	-20.0
GEW-010	2/19/2018 9:37	52.9	45.8	0.0	1.3	61.8	61.8	3.6	4.8	-2.1	-2.1	-19.9
GEW-010	2/26/2018 8:11	52.5	44.3	0.2	3.0	45.5	45.5	4.5	4.5	-2.2	-2.2	-19.4
GEW-013A	2/8/2018 11:00	13.8	37.9	7.3	41.0	116.8	116.6	106.7	106.8	-2.4	-2.4	-17.2
GEW-013A	2/8/2018 11:02	13.4	39.1	7.2	40.3	119.2	119.1	99.6	98.8	-2.0	-2.0	-19.3
GEW-013A	2/21/2018 11:06	9.1	27.7	12.0	51.2	115.8	116.3	97.8	99.2	-2.1	-2.0	-18.0

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-013A	2/21/2018 11:08	8.6	28.7	11.8	50.9	116.8	117.1	98.4	95.3	-1.9	-1.9	-18.5
GEW-015	2/8/2018 13:15	13.4	47.6	0.0	39.0	165.2	165.2	8.4	7.5	-4.9	-4.9	-19.5
GEW-015	2/8/2018 13:17	13.4	48.1	0.0	38.5	165.2	165.2	8.7	6.7	-4.9	-4.9	-19.2
GEW-015	2/21/2018 13:40	15.3	46.3	0.1	38.3	154.0	154.0	6.2	6.8	-5.6	-5.6	-19.4
GEW-015	2/21/2018 13:41	15.0	46.2	0.0	38.8	154.0	154.0	4.7	1.4	-5.7	-5.7	-19.4
GEW-016R	2/8/2018 13:28	8.9	47.1	0.5	43.5	180.2	179.7	NFD		-16.2	-18.5	-16.0
GEW-016R	2/8/2018 13:29	8.8	47.2	0.5	43.5	179.7	180.2	NFD		-19.0	-19.1	-19.0
GEW-016R	2/21/2018 13:50	7.5	43.4	0.6	48.5	178.6	179.2	NFD		-19.3	-19.3	-19.3
GEW-016R	2/21/2018 13:51	7.2	44.0	0.6	48.2	178.6	179.2	NFD		-19.7	-19.7	-18.8
GEW-018B	2/8/2018 15:13	0.9	48.0	1.7	49.4	165.2	164.8	7.1	7.2	-0.1	-0.1	-19.1
GEW-018B	2/8/2018 15:14	0.9	49.3	1.4	48.4	165.4	165.4	7.0	7.0	-0.2	-0.2	-19.0
GEW-018B	2/22/2018 11:32	0.4	42.1	4.3	53.2	157.7	157.4	5.2	4.9	-0.3	-0.3	-18.9
GEW-018B	2/22/2018 11:33	0.4	42.7	4.1	52.8	156.9	157.3	3.3	3.4	-0.3	-0.3	-19.2
GEW-022R	2/8/2018 14:45	1.2	55.6	2.4	40.8	60.8	60.9	4.5	3.1	-19.4	-19.4	-19.2
GEW-022R	2/22/2018 10:35	1.2	49.0	4.3	45.5	42.1	42.1	4.5	4.8	-18.9	-18.9	-19.2
GEW-038	2/6/2018 9:22	13.8	46.9	1.9	37.4	21.9	21.9	5.3	5.3	-1.7	-1.6	-20.8
GEW-038	2/6/2018 9:29	14.6	48.4	1.8	35.2	21.8	21.8	4.2	3.9	-1.5	-1.5	-21.3
GEW-038	2/12/2018 9:57	13.0	47.6	1.6	37.8	38.9	39.1	2.2	2.2	-1.8	-1.8	-19.6
GEW-038	2/19/2018 10:54	3.3	56.6	0.0	40.1	60.2	60.1	3.2	3.0	-1.0	-1.0	-19.7
GEW-038	2/26/2018 9:13	0.5	31.8	10.3	57.4	58.9	58.8	2.7	2.4	-0.7	-0.7	-19.2
GEW-038	2/26/2018 9:15	0.4	31.6	10.5	57.5	59.0	59.0	2.5	2.5	-0.7	-0.7	-19.0
GEW-039	2/6/2018 9:45	28.2	36.5	3.4	31.9	113.5	113.6	25.4	19.7	-1.9	-1.9	-21.8
GEW-039	2/6/2018 9:51	27.4	35.6	3.5	33.5	114.3	114.3	24.6	22.6	-2.0	-2.0	-20.7
GEW-039	2/12/2018 10:07	24.6	35.7	3.5	36.2	115.8	115.9	22.9	24.4	-1.8	-1.9	-18.5
GEW-039	2/19/2018 11:04	25.5	36.7	3.8	34.0	116.3	116.3	30.0	25.9	-1.8	-1.8	-18.8
GEW-039	2/26/2018 9:26	24.5	35.2	3.5	36.8	119.4	119.4	26.1	26.1	-1.9	-1.9	-18.9
GEW-040	2/1/2018 11:48	55.3	38.4	0.0	6.3	36.9	36.9	9.6	9.6	-0.7	-0.7	-13.3
GEW-040	2/6/2018 11:37	55.7	39.1	0.0	5.2	32.9	33.0	7.7	5.8	-0.4	-0.4	-12.8
GEW-040	2/6/2018 11:43	56.7	36.6	0.0	6.7	33.1	33.0	10.4	10.0	-0.4	-0.4	-12.8
GEW-040	2/12/2018 13:47	53.2	39.5	0.0	7.3	52.6	52.7	8.8	9.4	-0.6	-0.6	-14.7
GEW-040	2/19/2018 14:45	55.0	39.5	0.0	5.5	61.4	61.4	7.3	7.3	-0.6	-0.6	-13.7
GEW-040	2/26/2018 10:52	53.7	38.5	0.0	7.8	59.3	59.2	9.4	10.2	-0.6	-0.6	-13.2
GEW-041R	2/1/2018 13:56	48.2	34.6	0.0	17.2	87.2	87.0	18.9	16.4	-0.6	-0.6	-12.7
GEW-041R	2/7/2018 9:25	47.5	36.8	0.0	15.7	90.5	90.3	8.7	9.5	-0.4	-0.4	-15.0
GEW-041R	2/12/2018 13:53	47.3	35.9	0.0	16.8	90.1	90.8	9.8	5.9	-0.4	-0.4	-14.5
GEW-041R	2/19/2018 14:49	50.1	36.4	0.0	13.5	96.2	96.2	12.7	12.4	-0.4	-0.4	-13.7
GEW-041R	2/26/2018 10:56	48.6	36.1	0.0	15.3	96.7	96.7	8.2	11.6	-0.5	-0.5	-13.5
GEW-041R	2/26/2018 10:58	49.4	35.9	0.0	14.7	96.6	96.7	7.2	8.2	-0.4	-0.4	-13.3
GEW-042R	2/1/2018 14:00	56.7	38.0	0.0	5.3	85.6	85.9	10.0	10.0	-0.6	-0.5	-13.7
GEW-042R	2/6/2018 10:34	55.0	40.6	0.0	4.4	84.0	84.6	2.8	2.8	-0.5	-0.5	-12.9
GEW-042R	2/6/2018 10:42	54.5	40.9	0.3	4.3	84.9	84.0	24.3	24.3	-0.5	-0.5	-12.8

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-042R	2/12/2018 13:57	55.8	40.1	0.0	4.1	91.3	91.5	5.9	8.1	-0.6	-0.6	-14.6
GEW-042R	2/19/2018 14:53	55.9	41.6	0.0	2.5	95.0	95.3	22.9	22.9	-0.4	-0.4	-13.7
GEW-042R	2/26/2018 11:02	54.6	39.6	0.0	5.8	94.9	95.1	30.8	30.6	-0.6	-0.6	-13.3
GEW-043R	2/1/2018 14:03	55.3	38.6	0.0	6.1	115.3	115.0	24.5	23.8	-0.9	-1.1	-14.2
GEW-043R	2/7/2018 9:43	53.4	41.2	0.0	5.4	116.3	116.0	13.0	13.0	-1.0	-1.0	-15.3
GEW-043R	2/12/2018 14:01	54.1	39.7	0.0	6.2	116.3	116.0	28.0	29.5	-0.9	-0.9	-14.7
GEW-043R	2/19/2018 15:01	53.1	40.9	0.0	6.0	117.3	117.4	37.3	37.6	-0.8	-0.8	-14.1
GEW-043R	2/26/2018 11:06	52.7	39.7	0.0	7.6	117.1	117.3	15.4	15.4	-0.9	-0.9	-13.9
GEW-044	2/1/2018 14:10	42.3	33.6	0.0	24.1	78.8	78.4	4.9	6.3	-0.9	-0.9	-13.7
GEW-044	2/1/2018 14:12	42.6	34.1	0.0	23.3	77.7	79.1	6.3	6.4	-0.9	-1.0	-13.8
GEW-044	2/7/2018 9:48	44.5	37.0	0.0	18.5	79.6	79.0	34.8	34.3	-0.8	-0.8	-14.7
GEW-044	2/7/2018 9:50	45.0	36.4	0.0	18.6	79.4	79.0	25.8	26.1	-0.8	-0.7	-15.0
GEW-044	2/12/2018 14:07	44.9	36.0	0.0	19.1	83.3	83.0	9.0	2.6	-0.7	-0.7	-14.7
GEW-044	2/12/2018 14:09	45.4	35.3	0.0	19.3	83.3	82.1	5.2	5.7	-0.7	-0.7	-15.1
GEW-044	2/19/2018 15:05	47.3	37.3	0.0	15.4	81.4	81.2	10.6	10.2	-0.5	-0.5	-13.6
GEW-044	2/19/2018 15:06	47.7	36.5	0.0	15.8	82.4	82.6	32.1	32.1	-0.6	-0.6	-13.6
GEW-044	2/26/2018 11:09	45.3	35.9	0.0	18.8	82.6	82.6	32.0	32.0	-0.6	-0.6	-13.3
GEW-044	2/26/2018 11:11	45.3	35.0	0.0	19.7	84.0	83.9	6.2	5.5	-0.8	-0.8	-13.3
GEW-045R	2/1/2018 14:15	56.8	39.3	0.0	3.9	34.9	34.9	10.6	9.7	1.6	1.6	-13.7
GEW-045R	2/1/2018 14:18	54.8	41.4	0.0	3.8	56.6	56.9	8.6	8.6	-0.8	-0.8	-13.2
GEW-045R	2/6/2018 10:14	55.4	41.7	0.0	2.9	32.7	32.8	9.6	8.2	1.5	1.5	-13.3
GEW-045R	2/6/2018 10:25	54.6	42.9	0.0	2.5	50.2	50.8	4.2	4.3	-0.1	-0.1	-12.7
GEW-045R	2/12/2018 14:13	56.2	41.1	0.0	2.7	80.3	80.5	5.3	5.3	-1.8	-1.8	-14.6
GEW-045R	2/19/2018 15:13	55.7	41.2	0.0	3.1	84.2	84.2	7.1	7.1	-1.8	-1.8	-13.6
GEW-045R	2/19/2018 15:16	54.8	41.3	0.0	3.9	84.2	83.9	7.1	7.1	-1.8	-1.8	-13.7
GEW-045R	2/26/2018 11:14	55.5	39.5	0.0	5.0	86.1	86.1	11.0	11.0	-1.9	-1.9	-13.3
GEW-045R	2/26/2018 11:16	55.0	40.9	0.0	4.1	85.9	85.9	10.3	10.3	-1.8	-1.8	-12.3
GEW-046R	2/1/2018 14:22	47.1	38.1	0.0	14.8	86.1	85.1	5.8	5.8	-0.4	-0.4	-13.7
GEW-046R	2/6/2018 10:02	50.1	36.1	0.0	13.8	83.7	84.4	7.8	9.9	-0.3	-0.3	-12.8
GEW-046R	2/6/2018 10:10	50.0	36.4	0.0	13.6	84.7	84.4	9.1	6.7	-0.3	-0.3	-12.9
GEW-046R	2/12/2018 14:19	47.8	38.1	0.0	14.1	87.3	87.6	2.3	4.5	-0.2	-0.2	-14.7
GEW-046R	2/19/2018 15:20	49.5	38.7	0.0	11.8	89.3	89.6	7.1	9.0	-0.2	-0.2	-13.7
GEW-046R	2/26/2018 11:19	48.3	38.1	0.0	13.6	90.0	90.5	4.8	2.8	-0.4	-0.3	-13.8
GEW-046R	2/26/2018 11:21	48.1	38.1	0.0	13.8	90.8	90.8	21.5	21.1	-0.3	-0.3	-13.3
GEW-047R	2/1/2018 15:32	33.8	32.8	0.0	33.4	101.9	102.1	33.5	33.5	-0.7	-0.7	-14.5
GEW-047R	2/1/2018 15:35	34.1	32.4	0.0	33.5	92.2	89.1	3.4	4.1	-0.5	-0.4	-14.0
GEW-047R	2/6/2018 9:29	48.0	36.7	0.0	15.3	51.2	51.8	4.9	4.9	0.1	0.1	-12.9
GEW-047R	2/6/2018 9:38	47.5	38.2	0.0	14.3	54.4	54.2	5.7	5.7	0.1	0.1	-12.9
GEW-047R	2/7/2018 8:35	48.7	39.5	0.0	11.8	33.4	33.4	11.2	11.6	-0.1	-0.1	-15.5
GEW-047R	2/12/2018 15:15	50.2	38.7	0.0	11.1	70.9	71.1	8.7	9.5	-0.1	-0.1	-14.6
GEW-047R	2/20/2018 10:43	51.8	42.3	0.0	5.9	78.0	78.1	8.1	8.1	0.0	0.0	-13.2

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-047R	2/20/2018 10:45	51.7	42.2	0.0	6.1	78.4	78.5	16.5	16.1	0.0	0.0	-13.2
GEW-047R	2/26/2018 13:58	53.4	40.4	0.0	6.2	85.8	85.6	3.2	3.6	0.1	0.1	-13.3
GEW-047R	2/26/2018 14:00	53.3	41.6	0.0	5.1	85.9	86.1	5.0	5.0	0.1	0.1	-13.3
GEW-047R	2/27/2018 10:53	53.7	38.5	0.0	7.8	82.1	87.0	27.7	27.0	0.2	0.2	-12.9
GEW-047R	2/27/2018 10:55	53.8	41.7	0.0	4.5	88.2	88.5	37.9	37.2	0.2	0.2	-13.0
GEW-047R	2/28/2018 13:41	48.8	38.0	0.0	13.2	113.5	113.5	27.8	29.6	-0.1	-0.1	-14.0
GEW-048	2/1/2018 15:52	47.3	36.2	0.0	16.5	98.2	98.0	41.0	41.9	-0.7	-0.8	-6.1
GEW-048	2/1/2018 15:53	47.1	37.7	0.0	15.2	97.2	97.4	7.3	11.6	-0.7	-0.7	-11.8
GEW-048	2/6/2018 9:16	49.7	37.0	0.0	13.3	97.0	97.2	27.2	25.7	-0.3	-0.3	-8.5
GEW-048	2/6/2018 9:23	49.6	37.4	0.0	13.0	97.4	97.3	31.7	31.2	-0.2	-0.2	-8.5
GEW-048	2/12/2018 15:23	50.4	37.0	0.0	12.6	98.4	98.7	13.0	15.3	-0.3	-0.3	-10.1
GEW-048	2/20/2018 10:54	50.9	38.8	0.0	10.3	99.6	99.1	10.9	3.4	-0.2	-0.3	-8.7
GEW-048	2/20/2018 10:56	50.6	39.2	0.0	10.2	98.7	99.3	9.5	11.8	-0.2	-0.2	-8.4
GEW-048	2/26/2018 14:19	51.9	37.4	0.0	10.7	99.1	98.9	26.4	26.4	-0.1	-0.1	-7.2
GEW-049	2/1/2018 15:39	38.8	32.6	0.0	28.6	99.9	100.3	12.2	14.2	-0.7	-0.7	-12.6
GEW-049	2/1/2018 15:41	39.3	32.9	0.0	27.8	99.1	98.9	12.2	12.8	-0.8	-0.8	-14.0
GEW-049	2/6/2018 9:44	45.1	36.0	0.0	18.9	99.7	100.3	7.7	3.8	-0.2	-0.2	-12.8
GEW-049	2/6/2018 9:52	46.5	35.6	0.0	17.9	99.9	100.3	35.0	35.0	-0.2	-0.2	-13.0
GEW-049	2/12/2018 15:40	46.6	35.3	0.0	18.1	101.1	101.1	10.8	8.9	-0.2	-0.3	-14.6
GEW-049	2/20/2018 11:14	46.2	36.4	0.0	17.4	103.8	103.8	27.5	27.9	-0.3	-0.3	-13.2
GEW-049	2/20/2018 11:16	46.2	36.8	0.0	17.0	103.7	103.8	25.5	24.7	-0.3	-0.3	-13.0
GEW-049	2/26/2018 11:26	43.2	35.1	0.0	21.7	102.8	102.8	11.9	11.6	-0.3	-0.4	-13.3
GEW-049	2/26/2018 11:27	43.5	35.4	0.0	21.1	102.3	102.3	29.3	28.7	-0.3	-0.3	-13.4
GEW-050	2/1/2018 9:58	42.6	34.4	0.0	23.0	102.6	102.7	13.9	16.0	-0.9	-1.0	-6.1
GEW-050	2/1/2018 10:01	42.5	34.0	0.0	23.5	101.6	101.6	22.6	17.0	-0.9	-0.8	-11.8
GEW-050	2/7/2018 9:02	48.8	35.9	0.0	15.3	101.3	101.6	33.4	35.6	-0.3	-0.3	-10.0
GEW-050	2/12/2018 10:33	49.0	34.7	0.0	16.3	102.1	102.0	24.1	27.2	-0.5	-0.5	-8.5
GEW-050	2/20/2018 11:20	52.1	38.2	0.0	9.7	103.8	103.3	21.6	21.8	-0.2	-0.2	-8.3
GEW-050	2/26/2018 9:57	50.3	35.8	0.0	13.9	103.3	103.3	15.9	9.8	-0.4	-0.4	-8.7
GEW-051	2/1/2018 10:28	53.3	40.4	0.0	6.3	119.9	119.7	11.1	10.0	-1.8	-1.8	-13.7
GEW-051	2/1/2018 10:30	53.5	41.2	0.0	5.3	119.7	119.4	24.4	23.9	-1.8	-1.8	-13.6
GEW-051	2/7/2018 9:18	53.7	40.3	0.0	6.0	121.3	120.7	26.6	26.9	-0.8	-0.8	-14.7
GEW-051	2/7/2018 9:20	52.8	41.3	0.0	5.9	121.5	120.7	19.2	19.2	-0.8	-0.8	-14.8
GEW-051	2/12/2018 13:21	54.9	39.5	0.0	5.6	120.8	120.8	14.3	16.6	-0.8	-0.8	-14.3
GEW-051	2/12/2018 13:22	54.3	39.7	0.0	6.0	120.5	120.7	16.8	15.7	-0.8	-0.8	-14.4
GEW-051	2/19/2018 14:16	55.1	40.3	0.0	4.6	122.1	121.8	19.1	20.0	-0.7	-0.6	-13.4
GEW-051	2/26/2018 10:18	52.6	40.3	0.0	7.1	120.8	120.9	19.4	19.8	-0.9	-0.9	-13.3
GEW-051	2/26/2018 10:20	52.2	40.7	0.0	7.1	120.7	120.8	12.0	10.7	-0.9	-0.9	-13.3
GEW-052	2/1/2018 10:04	25.7	27.9	0.0	46.4	103.9	103.8	11.8	15.4	-0.9	-0.9	-14.4
GEW-052	2/1/2018 10:06	25.3	28.0	0.0	46.7	100.1	100.0	7.2	6.7	-0.6	-0.6	-14.3
GEW-052	2/7/2018 9:06	30.9	30.3	0.0	38.8	100.1	100.1	7.1	6.9	-0.1	-0.1	-15.1

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-052	2/12/2018 10:37	30.8	28.6	0.0	40.6	102.3	102.0	9.0	4.7	-0.1	-0.1	-14.8
GEW-052	2/12/2018 10:38	30.4	29.2	0.0	40.4	102.8	102.1	7.2	3.8	-0.1	-0.1	-14.7
GEW-052	2/20/2018 11:27	45.4	36.6	0.0	18.0	105.7	106.2	7.9	7.6	0.2	0.1	-13.5
GEW-052	2/20/2018 11:29	45.5	36.7	0.0	17.8	105.7	106.3	6.6	4.7	0.1	0.1	-13.4
GEW-052	2/21/2018 8:55	31.3	29.9	0.0	38.8	99.9	99.9	8.2	2.7	-0.4	-0.4	-14.7
GEW-052	2/21/2018 8:57	31.5	28.8	0.0	39.7	95.8	95.8	7.3	9.1	-0.4	-0.4	-14.8
GEW-052	2/23/2018 8:09	51.8	39.3	0.0	8.9	91.2	90.4	10.7	9.9	-0.1	-0.2	-13.6
GEW-052	2/26/2018 10:01	45.7	34.9	0.0	19.4	94.6	94.6	8.7	8.4	-0.1	-0.1	-13.4
GEW-053	2/1/2018 10:37	49.0	40.1	0.0	10.9	134.4	134.1	31.0	31.1	-1.9	-1.9	-14.5
GEW-053	2/1/2018 10:38	48.7	41.2	0.0	10.1	134.1	134.4	15.6	14.2	-1.9	-1.9	-14.4
GEW-053	2/6/2018 11:01	49.4	39.6	0.0	11.0	134.7	135.3	13.2	15.6	-1.0	-1.0	-13.2
GEW-053	2/6/2018 11:08	49.2	40.5	0.0	10.3	134.9	134.8	21.1	20.9	-1.0	-1.0	-13.0
GEW-053	2/12/2018 13:29	47.7	39.1	0.0	13.2	135.6	135.9	33.7	34.9	-1.2	-1.2	-14.7
GEW-053	2/12/2018 13:30	47.3	40.0	0.0	12.7	135.6	135.9	28.0	29.1	-1.2	-1.2	-14.5
GEW-053	2/19/2018 14:23	48.0	41.2	0.0	10.8	136.6	136.1	32.2	32.2	-0.8	-0.8	-14.0
GEW-053	2/19/2018 14:25	47.4	41.7	0.0	10.9	136.2	136.5	27.7	27.1	-0.8	-0.8	-13.9
GEW-053	2/26/2018 10:26	46.7	39.9	0.0	13.4	136.5	136.5	15.2	15.2	-1.2	-1.2	-13.9
GEW-053	2/26/2018 10:28	46.5	40.5	0.0	13.0	135.6	135.8	14.5	14.2	-1.0	-1.0	-13.6
GEW-054	2/1/2018 10:42	51.7	41.7	0.0	6.6	142.9	142.9	39.0	36.4	-4.4	-4.4	-15.0
GEW-054	2/1/2018 10:43	51.9	41.6	0.0	6.5	142.9	142.9	38.5	38.5	-4.4	-4.4	-14.4
GEW-054	2/6/2018 10:48	53.0	40.4	0.0	6.6	143.2	143.2	38.1	40.3	-3.6	-3.5	-14.0
GEW-054	2/6/2018 10:55	53.0	40.8	0.0	6.2	143.2	143.2	36.4	40.0	-3.5	-3.5	-13.4
GEW-054	2/12/2018 13:33	52.2	41.5	0.0	6.3	141.1	141.2	36.6	39.7	-4.2	-4.2	-14.7
GEW-054	2/12/2018 13:35	52.0	41.6	0.0	6.4	141.2	141.2	36.9	42.5	-4.3	-4.3	-14.9
GEW-054	2/19/2018 14:29	51.8	42.6	0.0	5.6	142.9	142.9	42.4	39.4	-3.4	-3.4	-13.9
GEW-054	2/19/2018 14:31	51.5	42.6	0.0	5.9	142.9	142.9	38.3	40.0	-3.4	-3.4	-14.4
GEW-054	2/26/2018 10:34	49.9	40.7	0.0	9.4	143.5	143.6	39.3	39.2	-3.6	-3.6	-13.8
GEW-054	2/26/2018 10:36	49.9	41.4	0.0	8.7	143.7	143.6	39.9	37.8	-3.5	-3.4	-13.8
GEW-055	2/1/2018 13:49	49.4	37.6	0.3	12.7	132.0	132.0	14.3	15.5	-1.1	-1.1	-14.1
GEW-055	2/1/2018 13:50	48.6	38.2	0.3	12.9	132.6	132.3	13.0	13.0	-1.1	-1.0	-13.7
GEW-055	2/6/2018 11:17	48.4	39.9	0.1	11.6	132.6	132.6	7.9	13.7	-0.9	-0.9	-13.2
GEW-055	2/6/2018 11:25	48.2	39.4	0.2	12.2	132.6	132.5	38.3	37.9	-1.0	-1.0	-13.4
GEW-055	2/12/2018 13:42	47.8	39.4	0.2	12.6	133.2	133.5	23.4	23.5	-1.1	-1.1	-14.7
GEW-055	2/12/2018 13:43	47.7	39.3	0.1	12.9	133.2	133.2	11.1	13.1	-1.0	-1.0	-14.8
GEW-055	2/19/2018 14:39	46.7	40.2	0.2	12.9	134.1	134.3	32.2	32.8	-1.0	-1.0	-13.7
GEW-055	2/19/2018 14:41	46.6	40.6	0.3	12.5	134.1	134.1	28.9	28.1	-1.0	-1.0	-13.6
GEW-055	2/26/2018 10:47	45.5	39.6	0.3	14.6	133.2	133.5	7.5	5.9	-1.1	-1.1	-13.5
GEW-055	2/26/2018 10:49	45.6	39.9	0.3	14.2	133.4	133.2	30.9	31.2	-1.1	-1.1	-13.7
GEW-056R	2/6/2018 8:18	29.4	43.2	0.0	27.4	51.0	51.2	6.6	5.4	-0.6	-0.6	-20.9
GEW-056R	2/6/2018 8:28	29.6	45.5	0.0	24.9	51.0	50.9	3.3	2.5	-0.6	-0.6	-20.7
GEW-056R	2/12/2018 8:48	26.5	48.9	0.0	24.6	62.5	62.6	4.7	3.6	-0.6	-0.6	-19.9

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-056R	2/19/2018 9:54	27.9	48.7	0.0	23.4	83.3	82.8	2.8	2.6	-0.6	-0.6	-19.7
GEW-056R	2/26/2018 8:29	27.0	45.8	0.0	27.2	87.0	87.0	3.1	3.8	-0.5	-0.5	-19.3
GEW-057B	2/7/2018 15:38	4.6	30.6	7.3	57.5	40.2	40.2	7.9	6.4	-12.6	-13.0	-19.7
GEW-057B	2/7/2018 15:39	4.6	32.8	7.1	55.5	39.7	39.6	4.4	7.7	-12.5	-12.5	-19.6
GEW-057B	2/20/2018 15:10	10.5	48.4	2.6	38.5	55.5	55.5	1.7	2.6	-19.5	-19.5	-19.5
GEW-057R	2/7/2018 15:42	0.7	9.1	19.2	71.0	40.2	40.3	1.2	2.1	-18.9	-18.9	-19.6
GEW-057R	2/7/2018 15:44	1.2	3.3	20.1	75.4	40.5	40.5	2.1	2.1	-18.9	-18.9	-19.5
GEW-057R	2/21/2018 9:07	14.3	32.9	11.7	41.1	29.5	29.8	3.0	2.8	-18.4	-18.5	-19.2
GEW-057R	2/21/2018 9:09	10.3	26.0	14.5	49.2	29.9	29.9	2.5	2.2	-18.0	-18.0	-19.2
GEW-058	2/7/2018 14:03	0.7	53.0	0.0	46.3	46.6	43.8	10.3	11.5	0.6	0.7	-19.2
GEW-058	2/7/2018 14:08	0.7	52.4	0.0	46.9	40.6	40.5	10.2	7.3	-4.6	-4.7	-19.2
GEW-058A	2/7/2018 13:58	2.3	38.2	3.2	56.3	43.6	43.7	2.8	2.8	-0.4	-0.4	-19.3
GEW-059R	2/7/2018 13:44	22.5	42.9	0.0	34.6	157.7	157.7	6.7	6.7	-19.0	-19.0	-19.3
GEW-059R	2/7/2018 13:45	22.1	44.3	0.0	33.6	156.9	157.3	5.5	5.7	-19.2	-18.8	-19.2
GEW-059R	2/20/2018 14:12	20.7	44.4	0.0	34.9	162.6	162.4	8.0	8.3	-18.6	-18.6	-19.0
GEW-059R	2/20/2018 14:13	20.4	45.3	0.0	34.3	162.9	162.9	7.7	7.7	-18.6	-18.6	-19.0
GEW-067A	2/8/2018 10:20	3.0	30.5	10.3	56.2	92.9	93.1	7.3	6.4	-0.1	-0.1	-20.0
GEW-067A	2/8/2018 10:22	3.0	30.6	10.1	56.3	93.6	94.1	3.6	10.6	-0.1	-0.2	-18.5
GEW-067A	2/21/2018 9:12	5.0	30.1	9.7	55.2	70.4	70.4	25.0	25.3	-0.1	-0.1	-19.0
GEW-067A	2/21/2018 9:13	4.8	30.2	9.8	55.2	70.3	70.4	24.3	24.7	-0.1	-0.1	-17.6
GEW-068A	2/8/2018 9:59	17.0	45.4	1.8	35.8	173.6	173.6	23.3	25.4	-16.7	-16.7	-19.9
GEW-068A	2/8/2018 10:01	16.5	46.9	1.6	35.0	174.2	174.0	22.9	26.3	-16.1	-16.2	-20.2
GEW-068A	2/21/2018 9:53	17.3	44.6	1.7	36.4	174.2	174.0	21.7	25.0	-15.1	-15.1	-19.7
GEW-068A	2/21/2018 9:55	16.2	47.2	1.5	35.1	174.2	174.2	26.8	25.7	-15.0	-14.9	-19.1
GEW-077	2/8/2018 11:11	0.5	57.5	0.0	42.0	98.2	98.2	4.0	2.6	-19.8	-19.7	-20.0
GEW-078R	2/8/2018 14:13	10.1	38.4	0.0	51.5	157.4	157.3	7.7	9.0	-18.3	-18.2	-18.5
GEW-078R	2/8/2018 14:14	10.0	39.9	0.0	50.1	157.7	157.7	9.9	9.3	-18.6	-18.6	-19.0
GEW-078R	2/22/2018 13:27	11.5	42.9	0.0	45.6	154.0	154.1	10.0	8.3	-18.7	-18.6	-18.8
GEW-078R	2/22/2018 13:28	11.9	42.9	0.0	45.2	154.4	154.0	7.3	5.9	-18.7	-18.8	-18.8
GEW-081	2/8/2018 14:37	0.8	55.8	0.6	42.8	63.7	63.7	9.9	9.9	-18.4	-18.4	-18.6
GEW-082R	2/8/2018 14:22	12.7	39.6	0.0	47.7	176.4	176.4	2.0	5.6	-17.6	-17.7	-18.4
GEW-082R	2/8/2018 14:23	12.8	40.3	0.0	46.9	176.9	176.9	5.1	2.2	-17.7	-18.0	-19.2
GEW-082R	2/22/2018 13:35	10.7	39.9	0.0	49.4	174.7	174.7	5.5	3.6	-17.2	-17.2	-18.2
GEW-082R	2/22/2018 13:36	10.7	40.0	0.0	49.3	174.2	174.2	5.2	6.1	-17.3	-17.2	-18.3
GEW-086	2/8/2018 10:06	12.2	30.8	7.0	50.0	59.3	59.3	8.5	8.3	-0.3	-0.3	-19.1
GEW-086	2/8/2018 10:08	12.2	30.9	7.0	49.9	59.1	59.1	8.5	8.9	-0.3	-0.2	-20.3
GEW-086	2/21/2018 9:42	8.8	26.8	9.4	55.0	42.7	42.7	7.0	8.3	-0.3	-0.3	-18.7
GEW-086	2/21/2018 9:44	9.2	26.3	9.3	55.2	42.5	42.5	6.6	9.9	-0.4	-0.4	-18.8
GEW-087	2/8/2018 10:37	12.9	22.7	13.5	50.9	104.8	104.8	NFD		-19.6	-19.6	-19.9
GEW-087	2/8/2018 10:38	13.2	21.3	13.7	51.8	105.0	105.0	NFD		-19.1	-19.1	-19.4
GEW-087	2/21/2018 10:51	9.5	23.7	14.8	52.0	95.6	95.8	NFD		-19.7	-19.7	-19.9

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-087	2/21/2018 10:52	11.0	18.3	15.5	55.2	95.8	95.5	NFD		-19.7	-19.7	-19.9
GEW-088	2/8/2018 10:28	3.0	46.4	0.6	50.0	193.8	194.2	30.7	27.9	-0.9	-1.0	-19.3
GEW-088	2/8/2018 10:30	3.7	46.4	0.8	49.1	193.6	194.3	15.8	9.4	-2.2	-2.3	-19.4
GEW-088	2/21/2018 10:35	3.6	45.1	0.5	50.8	191.6	190.9	51.1	52.1	-0.2	-0.3	-19.4
GEW-088	2/21/2018 10:36	3.5	45.5	0.8	50.2	190.9	190.9	45.9	44.8	-0.8	-0.6	-19.4
GEW-090	2/8/2018 9:32	25.5	43.7	0.2	30.6	146.3	146.1	5.7	2.6	-19.6	-19.4	-20.1
GEW-090	2/8/2018 9:34	24.4	45.6	0.0	30.0	146.0	146.2	11.2	15.5	-19.6	-19.6	-20.0
GEW-090	2/21/2018 8:56	23.2	44.5	0.0	32.3	129.2	129.4	8.4	6.2	-19.1	-19.2	-19.4
GEW-091	2/8/2018 9:13	1.4	17.0	17.3	64.3	107.0	107.0	20.4	21.0	-20.1	-20.1	-20.0
GEW-091	2/8/2018 9:15	1.5	12.1	18.1	68.3	106.9	107.0	14.6	12.1	-19.6	-19.6	-19.9
GEW-091	2/21/2018 8:35	0.7	3.2	19.6	76.5	97.7	97.7	26.8	25.4	-19.1	-19.2	-19.3
GEW-091	2/21/2018 8:37	0.6	6.9	19.1	73.4	97.2	97.3	33.0	30.0	-19.1	-19.2	-19.4
GEW-100	2/8/2018 10:32	1.0	48.6	5.6	44.8	48.5	48.5	3.6	6.2	-12.9	-13.2	-19.6
GEW-100	2/8/2018 10:33	1.0	47.8	6.2	45.0	49.1	49.1	2.4	1.2	-8.9	-8.8	-20.0
GEW-100	2/21/2018 10:33	1.0	46.9	6.0	46.1	30.4	30.5	5.5	4.2	-12.6	-12.4	-20.0
GEW-100	2/21/2018 10:35	0.9	46.0	6.4	46.7	30.7	30.6	2.6	6.1	-6.3	-6.3	-20.1
GEW-101	2/8/2018 9:45	17.7	57.5	2.3	22.5	54.7	54.7	9.4	9.3	-0.2	-0.2	-19.7
GEW-101	2/21/2018 9:36	16.9	63.0	0.1	20.0	51.8	51.8	13.2	13.0	-0.1	-0.1	-19.6
GEW-101	2/21/2018 9:38	17.0	63.6	0.0	19.4	52.5	52.5	11.9	11.3	-0.2	-0.2	-19.8
GEW-102	2/8/2018 9:40	7.5	48.1	0.5	43.9	44.8	44.8	4.6	5.8	-19.7	-19.7	-19.9
GEW-104	2/7/2018 14:50	1.1	50.9	0.6	47.4	40.5	40.5	3.2	1.7	-18.4	-18.4	-19.1
GEW-106	2/7/2018 14:13	8.1	41.7	6.1	44.1	63.0	63.2	2.7	1.7	-4.0	-4.0	-19.1
GEW-106	2/7/2018 14:15	7.9	41.3	6.6	44.2	61.6	61.6	1.7	2.1	-2.8	-2.8	-19.3
GEW-106	2/20/2018 14:17	6.8	48.6	4.0	40.6	76.1	76.3	1.2	2.6	-2.3	-2.3	-18.2
GEW-107	2/7/2018 13:49	32.2	55.4	0.0	12.4	113.1	113.0	6.1	6.1	-18.9	-18.9	-19.0
GEW-108	2/7/2018 13:36	37.1	42.8	0.1	20.0	117.9	117.6	3.1	3.0	-19.3	-19.2	-19.1
GEW-108	2/7/2018 13:37	36.5	43.2	0.0	20.3	119.9	119.7	2.3	2.3	-19.2	-19.3	-19.1
GEW-109	2/6/2018 9:33	16.4	38.1	0.0	45.5	49.3	49.3	3.4	3.2	-15.7	-15.7	-21.0
GEW-109	2/6/2018 9:40	16.4	36.5	0.0	47.1	50.2	50.3	3.8	4.0	-15.7	-15.7	-20.7
GEW-109	2/12/2018 10:04	17.8	33.2	0.0	49.0	62.2	62.0	3.5	4.1	-14.2	-14.2	-18.3
GEW-109	2/19/2018 11:01	17.8	41.0	0.0	41.2	90.6	90.8	2.7	2.7	-12.3	-12.3	-19.7
GEW-109	2/26/2018 9:23	16.7	36.6	0.2	46.5	88.9	88.9	2.5	1.9	-12.5	-12.5	-19.3
GEW-110	2/6/2018 8:35	13.3	53.3	0.0	33.4	22.8	22.9	18.2	22.7	-0.5	-0.6	-21.0
GEW-110	2/6/2018 8:41	14.4	52.2	0.4	33.0	25.7	25.7	19.5	19.3	-0.5	-0.5	-20.8
GEW-110	2/12/2018 8:36	9.9	27.9	9.9	52.3	24.3	24.2	24.5	25.7	-0.6	-0.7	-20.0
GEW-110	2/12/2018 8:39	9.0	30.9	9.8	50.3	25.6	25.3	23.2	23.0	-0.4	-0.4	-19.9
GEW-110	2/19/2018 9:40	12.4	51.6	0.0	36.0	62.1	62.1	4.2	2.7	0.2	0.2	-19.7
GEW-110	2/19/2018 9:45	11.8	52.9	0.0	35.3	65.1	65.2	2.1	2.1	-0.2	-0.2	-19.4
GEW-110	2/26/2018 8:15	11.0	25.1	11.0	52.9	48.2	48.2	27.7	29.1	0.7	0.7	-19.3
GEW-110	2/26/2018 8:19	11.9	24.8	10.1	53.2	48.1	48.1	2.2	1.3	-0.1	-0.1	-19.7
GEW-113	2/8/2018 13:22	10.5	45.1	2.2	42.2	151.7	151.7	12.3	12.3	-4.8	-4.8	-19.5

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-113	2/8/2018 13:24	10.6	45.9	2.2	41.3	150.9	151.0	11.8	9.5	-4.3	-4.3	-19.4
GEW-113	2/21/2018 13:55	9.6	44.1	3.7	42.6	148.2	148.2	13.3	11.5	-4.3	-4.3	-19.5
GEW-113	2/21/2018 13:56	9.7	44.5	3.6	42.2	148.4	148.4	9.6	10.3	-4.3	-4.3	-19.4
GEW-116	2/8/2018 14:29	5.3	45.1	5.1	44.5	121.0	121.0	11.0	15.6	-17.3	-17.7	-19.1
GEW-116	2/8/2018 14:31	5.3	46.1	5.1	43.5	121.3	121.3	9.3	2.8	-17.1	-17.2	-18.7
GEW-116	2/22/2018 11:24	3.3	46.1	5.8	44.8	108.7	108.7	15.3	15.3	-16.0	-16.0	-16.9
GEW-116	2/22/2018 11:25	3.2	45.7	5.9	45.2	108.0	108.0	6.3	6.3	-15.2	-15.2	-18.6
GEW-117	2/8/2018 15:09	39.8	52.0	0.4	7.8	93.1	92.7	NFD		-17.5	-17.8	-19.1
GEW-118	2/8/2018 15:03	1.6	57.5	0.0	40.9	64.0	64.1	2.5	4.6	0.2	0.1	-18.5
GEW-118	2/8/2018 15:05	1.8	59.6	0.0	38.6	182.7	187.6	5.0	5.1	-0.1	-0.1	-19.1
GEW-118	2/22/2018 10:51	2.0	55.4	0.0	42.6	195.7	195.7	9.6	9.3	-0.1	-0.1	-19.0
GEW-118	2/22/2018 10:53	1.7	59.3	0.0	39.0	196.4	196.4	9.6	11.0	-0.2	-0.3	-19.1
GEW-120	2/8/2018 9:03	11.7	41.4	2.8	44.1	160.3	160.3	35.3	36.7	-18.2	-18.1	-19.6
GEW-120	2/8/2018 9:06	11.3	42.1	2.7	43.9	158.9	158.5	33.6	35.1	-15.7	-15.7	-20.1
GEW-120	2/15/2018 14:32	15.5	53.5	0.2	30.8	158.5	158.6	35.7	34.0	-15.6	-15.7	-20.4
GEW-120	2/15/2018 14:35	15.6	54.4	0.2	29.8	118.5	156.1	20.2	20.4	-7.7	-7.6	-20.6
GEW-120	2/22/2018 10:46	12.4	48.2	0.5	38.9	156.9	156.9	17.5	19.1	-7.2	-7.2	-19.0
GEW-120	2/22/2018 10:47	12.5	48.8	0.5	38.2	157.3	157.3	19.3	20.1	-7.2	-7.2	-19.3
GEW-121	2/8/2018 14:51	6.9	43.2	0.8	49.1	171.5	171.5	24.5	19.8	-15.9	-15.5	-18.2
GEW-121	2/8/2018 14:53	6.9	42.7	0.8	49.6	171.6	171.1	24.0	28.6	-15.6	-16.0	-18.1
GEW-121	2/22/2018 10:42	8.3	45.4	1.2	45.1	167.1	167.1	28.2	26.8	-16.5	-16.5	-18.2
GEW-121	2/22/2018 10:43	7.5	44.4	1.2	46.9	167.1	167.1	22.5	29.9	-16.5	-16.9	-18.5
GEW-122	2/8/2018 14:33	5.5	53.7	0.0	40.8	181.1	181.5	31.8	33.1	-17.2	-17.0	-19.1
GEW-122	2/8/2018 14:34	6.2	54.6	0.0	39.2	181.5	181.5	35.4	35.9	-16.8	-16.7	-18.6
GEW-122	2/22/2018 10:22	3.9	49.4	0.0	46.7	185.7	185.7	33.7	35.3	-17.1	-17.1	-19.3
GEW-122	2/22/2018 10:23	3.2	54.3	0.0	42.5	186.3	186.2	35.4	35.4	-17.0	-17.0	-19.4
GEW-123	2/8/2018 14:48	13.9	50.1	0.0	36.0	160.6	160.3	16.6	19.2	-12.5	-12.5	-19.2
GEW-123	2/8/2018 14:49	14.4	48.6	0.0	37.0	160.2	160.2	17.8	18.5	-12.5	-12.5	-18.9
GEW-123	2/22/2018 10:38	15.0	51.1	0.0	33.9	150.3	150.6	7.6	12.5	-12.2	-12.2	-19.3
GEW-123	2/22/2018 10:39	16.0	49.3	0.0	34.7	149.1	149.1	6.6	5.3	-12.1	-12.1	-19.2
GEW-124	2/8/2018 14:42	39.3	37.8	4.2	18.7	60.7	60.7	3.0	3.2	-11.0	-11.0	-11.3
GEW-124	2/22/2018 10:30	40.0	38.8	4.0	17.2	45.1	44.9	1.7	1.7	-10.1	-10.1	-12.2
GEW-125	2/8/2018 14:09	5.3	39.0	4.9	50.8	171.1	171.0	23.3	23.1	-14.0	-14.0	-18.2
GEW-125	2/8/2018 14:11	5.2	38.2	4.9	51.7	170.0	170.0	13.3	17.7	-12.0	-11.6	-18.7
GEW-125	2/22/2018 10:00	4.3	37.5	5.6	52.6	170.0	170.0	20.1	17.2	-10.9	-10.9	-18.8
GEW-125	2/22/2018 10:06	3.6	39.2	5.4	51.8	124.8	124.7	3.1	1.9	-0.9	-0.9	-19.0
GEW-126	2/8/2018 14:04	15.6	47.1	0.0	37.3	75.7	75.7	11.2	10.5	-6.6	-6.6	-6.3
GEW-127	2/8/2018 13:42	5.6	34.3	8.9	51.2	150.6	150.6	32.7	35.0	-18.3	-18.7	-19.1
GEW-127	2/8/2018 13:46	5.6	32.4	9.1	52.9	151.8	151.7	27.0	30.5	-17.3	-17.3	-18.8
GEW-127	2/22/2018 9:23	5.0	40.1	8.6	46.3	154.0	154.0	29.9	31.3	-17.0	-16.9	-19.0
GEW-127	2/22/2018 9:27	5.9	35.4	8.3	50.4	122.1	121.5	2.9	2.7	-0.3	-0.3	-19.2

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-128	2/8/2018 13:31	15.0	53.7	2.7	28.6	136.5	136.5	36.6	38.8	-17.3	-17.3	-18.3
GEW-128	2/8/2018 13:32	15.3	53.1	2.7	28.9	136.8	136.8	35.5	37.1	-16.9	-17.0	-17.8
GEW-128	2/22/2018 9:05	13.7	55.3	3.1	27.9	129.0	129.1	44.4	44.4	-16.5	-16.5	-18.2
GEW-129	2/8/2018 11:32	17.4	57.0	0.0	25.6	167.6	167.6	17.9	15.0	-18.6	-18.2	-19.7
GEW-129	2/8/2018 11:33	17.3	59.5	0.0	23.2	167.6	167.6	16.8	14.0	-18.6	-18.2	-19.8
GEW-129	2/22/2018 9:01	14.8	61.1	0.0	24.1	170.0	170.0	20.4	16.1	-17.7	-17.5	-19.0
GEW-129	2/22/2018 9:02	15.6	62.7	0.0	21.7	169.5	169.5	20.3	19.6	-17.6	-17.5	-19.0
GEW-130	2/8/2018 13:51	4.3	41.7	4.8	49.2	175.3	175.3	32.4	30.6	-8.6	-8.6	-19.0
GEW-130	2/8/2018 13:53	4.2	43.1	4.7	48.0	175.8	175.8	30.9	24.9	-7.2	-7.2	-19.6
GEW-130	2/22/2018 9:34	4.1	40.5	6.3	49.1	174.7	174.8	30.9	28.7	-6.8	-6.8	-19.7
GEW-130	2/22/2018 9:38	1.5	52.7	1.5	44.3	180.9	181.5	13.9	8.8	-0.4	-0.4	-19.9
GEW-131	2/8/2018 14:00	19.1	41.0	0.0	39.9	159.8	159.8	14.9	14.0	-11.0	-11.0	-18.6
GEW-131	2/8/2018 14:01	19.3	40.7	0.0	40.0	160.2	160.2	15.5	14.9	-10.9	-10.7	-19.4
GEW-131	2/22/2018 9:55	20.5	45.5	0.0	34.0	159.4	159.8	12.0	12.3	-11.2	-11.2	-19.5
GEW-131	2/22/2018 9:56	21.3	44.5	0.0	34.2	159.5	159.4	14.2	12.6	-11.2	-11.2	-19.5
GEW-132	2/8/2018 14:59	1.3	43.2	3.6	51.9	157.7	157.7	2.6	2.6	-0.2	-0.2	-18.6
GEW-132	2/8/2018 15:01	1.2	44.0	3.6	51.2	159.8	159.0	3.2	2.9	-0.2	-0.2	-19.0
GEW-132	2/22/2018 10:56	1.4	37.8	6.0	54.8	174.7	175.3	3.7	4.2	-0.2	-0.2	-18.8
GEW-132	2/22/2018 10:57	1.5	36.9	6.1	55.5	169.0	170.0	2.0	3.5	-0.1	-0.1	-19.1
GEW-133	2/8/2018 14:35	1.5	18.2	16.0	64.3	58.0	57.9	4.6	6.7	-19.1	-19.1	-19.4
GEW-133	2/8/2018 14:37	1.7	15.8	16.2	66.3	57.5	57.5	5.8	2.0	-19.1	-19.1	-19.4
GEW-133	2/22/2018 11:18	3.7	47.6	0.0	48.7	51.0	51.0	22.2	24.6	-12.6	-12.1	-19.1
GEW-134	2/8/2018 13:49	14.2	40.2	2.3	43.3	117.0	117.3	4.5	5.1	-0.7	-0.7	-18.8
GEW-135	2/8/2018 13:42	11.4	43.8	1.9	42.9	153.3	153.3	8.5	6.7	-3.2	-3.2	-18.8
GEW-135	2/8/2018 13:44	11.2	45.1	1.9	41.8	153.3	153.7	10.7	9.5	-3.0	-3.0	-19.3
GEW-135	2/22/2018 13:20	6.0	41.9	2.7	49.4	149.6	149.6	10.4	10.4	-3.2	-3.2	-19.3
GEW-135	2/22/2018 13:21	5.8	43.3	2.5	48.4	149.9	149.5	25.7	28.2	-4.1	-4.3	-19.0
GEW-136	2/8/2018 13:57	9.5	38.2	3.3	49.0	114.3	114.0	14.1	21.4	0.0	0.0	-6.8
GEW-137	2/8/2018 15:20	33.4	38.6	0.0	28.0	64.4	64.4	2.2	4.9	-10.5	-10.5	-19.3
GEW-138	2/8/2018 14:08	7.2	29.7	2.8	60.3	95.8	95.8	1.0	4.7	-0.2	-0.2	-18.8
GEW-139	2/8/2018 11:07	1.9	55.4	0.0	42.7	146.2	146.3	4.2	3.7	-1.5	-1.5	-20.1
GEW-139	2/8/2018 11:08	1.8	57.1	0.0	41.1	147.3	147.4	3.6	2.7	-1.5	-1.5	-19.7
GEW-139	2/21/2018 11:14	2.3	56.9	0.0	40.8	124.7	124.3	5.2	3.0	-2.0	-2.1	-20.1
GEW-140	2/8/2018 10:21	19.1	47.7	0.6	32.6	116.4	116.3	5.9	5.7	-3.5	-3.5	-20.3
GEW-141	2/8/2018 10:52	0.1	24.7	13.4	61.8	51.8	51.8	2.8	2.8	-0.8	-0.8	-20.1
GEW-141	2/8/2018 10:54	0.1	26.2	13.2	60.5	51.0	50.9	2.1	2.5	-0.4	-0.4	-19.6
GEW-141	2/21/2018 11:03	0.3	57.9	0.3	41.5	32.7	32.7	4.5	4.5	0.0	0.0	-20.3
GEW-141	2/21/2018 11:05	0.2	57.7	2.2	39.9	32.1	32.0	3.2	3.7	-0.5	-0.4	-20.1
GEW-142	2/8/2018 10:44	0.0	4.1	21.1	74.8	45.1	45.8	3.6	2.7	-14.2	-14.2	-19.5
GEW-142	2/8/2018 10:48	0.1	5.0	20.5	74.4	47.0	47.0	5.8	7.9	-17.2	-17.2	-19.9
GEW-142	2/21/2018 10:45	0.0	8.4	20.2	71.4	32.2	32.2	6.3	6.4	-12.1	-12.1	-20.1

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-142	2/21/2018 10:47	0.0	0.0	18.7	81.3	32.2	32.2	4.0	3.1	-12.5	-12.5	-20.0
GEW-143	2/8/2018 10:26	0.1	9.1	19.6	71.2	54.7	54.9	4.2	4.6	-16.7	-16.7	-19.7
GEW-143	2/8/2018 10:27	0.1	5.6	20.2	74.1	56.4	56.4	3.1	2.6	-17.7	-17.7	-19.6
GEW-143	2/21/2018 10:26	0.1	9.7	21.0	69.2	30.6	30.6	7.9	7.6	-5.9	-5.8	-20.1
GEW-143	2/21/2018 10:29	0.0	3.2	21.2	75.6	30.7	30.7	3.8	3.8	-4.8	-4.8	-19.9
GEW-144	2/8/2018 9:51	0.7	18.3	16.0	65.0	45.2	45.2	3.6	3.2	-19.6	-19.5	-19.6
GEW-144	2/8/2018 9:52	0.8	16.2	16.4	66.6	45.6	45.7	2.4	3.6	-19.6	-19.7	-19.9
GEW-144	2/21/2018 9:44	0.2	15.2	19.1	65.5	29.1	29.1	6.5	6.6	-17.5	-17.5	-19.0
GEW-144	2/21/2018 9:45	0.2	11.2	19.7	68.9	29.0	29.0	4.3	4.3	-17.7	-17.7	-19.0
GEW-145	2/8/2018 9:34	0.0	8.3	20.4	71.3	40.5	40.5	6.8	6.3	-2.6	-2.6	-19.9
GEW-145	2/8/2018 9:36	0.0	5.2	21.0	73.8	40.3	40.3	4.9	4.7	-2.7	-2.7	-19.8
GEW-145	2/15/2018 10:07	1.3	51.0	0.0	47.7	81.9	81.7	6.0	7.2	27.7	27.7	-18.8
GEW-145	2/15/2018 10:10	1.7	53.0	0.0	45.3	87.4	86.4	4.5	4.3	-8.5	-8.5	-18.5
GEW-145	2/21/2018 9:31	4.6	48.7	0.0	46.7	44.8	44.6	3.6	3.2	-17.5	-17.6	-19.5
GEW-146	2/8/2018 13:07	3.4	5.6	14.9	76.1	80.5	80.5	7.0	8.7	0.0	0.0	-18.7
GEW-146	2/8/2018 13:09	3.3	7.0	14.8	74.9	80.1	80.3	7.9	7.2	0.0	0.0	-18.7
GEW-146	2/21/2018 13:29	1.6	1.8	17.1	79.5	64.9	64.8	6.7	7.2	0.0	0.0	-19.5
GEW-146	2/21/2018 13:30	1.6	3.1	17.0	78.3	64.4	64.5	6.5	7.5	0.0	0.0	-19.4
GEW-147	2/8/2018 13:35	12.6	42.7	0.2	44.5	178.0	178.0	35.6	35.3	-17.6	-17.6	-19.1
GEW-147	2/8/2018 13:37	12.7	43.0	0.2	44.1	178.0	178.0	34.4	35.2	-17.2	-17.5	-18.6
GEW-147	2/21/2018 14:09	10.4	41.9	0.3	47.4	180.9	180.9	36.5	36.5	-17.4	-17.4	-19.2
GEW-147	2/21/2018 14:10	10.5	42.1	0.3	47.1	181.2	181.0	37.6	36.9	-17.4	-17.4	-19.0
GEW-148	2/8/2018 11:08	12.9	49.1	1.9	36.1	58.5	58.6	1.7	3.9	-18.7	-18.7	-19.9
GEW-149	2/8/2018 9:45	7.6	26.2	9.3	56.9	93.4	93.3	15.1	17.8	-0.2	-0.2	-8.0
GEW-149	2/8/2018 9:47	7.7	25.6	9.4	57.3	92.7	92.7	15.5	16.2	-0.2	-0.2	-7.8
GEW-149	2/21/2018 9:07	9.4	29.8	6.3	54.5	113.5	113.5	13.2	11.9	-0.2	-0.2	-4.4
GEW-149	2/21/2018 9:11	9.1	31.1	6.3	53.5	113.5	113.5	14.3	11.8	-0.2	-0.2	-4.4
GEW-150	2/7/2018 14:41	11.4	36.3	7.4	44.9	120.7	120.7	18.7	15.8	-10.5	-10.5	-16.6
GEW-150	2/7/2018 14:44	10.9	36.7	7.6	44.8	114.5	114.3	14.4	10.0	-3.2	-3.1	-19.7
GEW-150	2/20/2018 14:57	9.3	43.0	6.0	41.7	186.4	186.3	10.2	8.1	-0.9	-0.9	-20.0
GEW-150	2/20/2018 14:58	9.2	43.8	6.0	41.0	184.5	184.7	5.5	5.5	-0.6	-0.6	-18.5
GEW-151	2/8/2018 10:14	9.9	36.2	6.2	47.7	156.9	156.9	3.7	3.6	-1.2	-1.2	-19.7
GEW-151	2/8/2018 10:16	9.8	36.9	6.0	47.3	151.3	151.6	3.6	5.0	-0.7	-0.7	-19.9
GEW-151	2/21/2018 10:29	11.8	49.4	0.7	38.1	120.2	119.9	2.7	7.1	-0.2	-0.2	-19.4
GEW-152	2/7/2018 13:52	28.4	48.1	0.0	23.5	115.5	116.0	2.2	1.5	-8.5	-8.5	-19.1
GEW-153	2/7/2018 13:41	49.6	37.9	0.0	12.5	44.0	43.9	1.8	1.3	-1.6	-1.6	-18.7
GEW-154	2/8/2018 9:23	7.9	8.6	15.9	67.6	43.4	43.4	2.5	2.5	-1.4	-1.4	-19.9
GEW-154	2/8/2018 9:26	7.8	8.2	16.0	68.0	42.8	42.8	3.3	3.3	-1.3	-1.3	-19.9
GEW-154	2/21/2018 8:46	0.0	4.5	20.3	75.2	30.6	30.6	1.8	1.8	-1.5	-1.5	-19.5
GEW-154	2/21/2018 8:47	0.0	3.8	20.4	75.8	30.2	30.2	2.6	1.3	-1.5	-1.5	-19.6
GEW-155	2/8/2018 15:23	1.5	26.4	0.2	71.9	102.3	102.5	6.0	4.8	-0.1	-0.1	-17.7

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-156	2/7/2018 15:49	11.0	14.2	13.3	61.5	69.1	69.1	2.4	1.2	-0.1	-0.1	-19.8
GEW-156	2/7/2018 15:50	10.8	15.3	13.2	60.7	69.7	69.5	4.0	2.7	-0.1	-0.1	-19.6
GEW-156	2/21/2018 9:16	11.7	20.5	11.8	56.0	55.2	55.7	3.5	2.8	-0.2	-0.1	-19.5
GEW-156	2/21/2018 9:17	12.1	19.6	11.8	56.5	54.9	55.2	2.8	2.7	-0.1	-0.1	-19.6
GEW-157	2/7/2018 15:32	0.8	8.3	18.0	72.9	39.9	39.9	3.8	3.6	-0.4	-0.5	-19.4
GEW-157	2/7/2018 15:34	0.8	6.1	18.4	74.7	40.0	40.0	1.3	1.8	-0.2	-0.2	-19.5
GEW-157	2/14/2018 13:44	2.1	52.0	0.0	45.9	93.4	93.4	3.1	7.3	47.9	47.7	-19.6
GEW-157	2/14/2018 13:48	3.7	52.8	0.0	43.5	124.5	124.7	9.9	9.8	-2.5	-2.5	-20.1
GEW-157	2/20/2018 15:07	11.8	48.0	2.3	37.9	94.1	93.9	8.2	3.8	-17.4	-17.5	-19.5
GEW-158	2/7/2018 14:19	17.1	54.6	0.0	28.3	182.1	182.1	6.2	3.9	-0.7	-0.7	-13.5
GEW-158	2/7/2018 14:20	17.4	56.5	0.0	26.1	181.8	182.1	5.6	7.2	-0.6	-0.6	-13.4
GEW-158	2/20/2018 14:39	19.1	57.0	0.0	23.9	156.9	156.8	7.6	4.2	-2.0	-2.0	-12.7
GEW-158	2/20/2018 14:40	18.5	57.5	0.0	24.0	156.0	156.0	4.7	3.7	-1.9	-1.9	-11.2
GEW-159	2/7/2018 13:30	2.8	7.7	18.1	71.4	44.7	44.7	2.7	2.1	-18.8	-18.9	-18.8
GEW-159	2/7/2018 13:32	1.0	3.6	19.7	75.7	45.2	45.2	2.4	1.2	-18.8	-18.7	-19.0
GEW-159	2/20/2018 14:32	0.1	2.9	20.5	76.5	59.1	59.1	4.5	4.7	-15.5	-15.5	-19.3
GEW-159	2/20/2018 14:33	0.0	0.9	20.9	78.2	59.0	59.0	3.1	3.3	-13.2	-13.2	-19.1
GEW-160	2/8/2018 9:01	9.5	42.7	2.9	44.9	44.3	44.3	15.0	17.3	-20.1	-20.1	-19.9
GEW-161	2/8/2018 9:04	0.6	39.0	6.5	53.9	39.2	39.2	8.0	3.9	-14.3	-14.3	-19.9
GEW-161	2/8/2018 9:06	0.6	40.7	6.4	52.3	38.8	38.8	9.0	6.4	-10.4	-10.4	-20.1
GEW-161	2/22/2018 13:45	0.8	54.9	0.0	44.3	48.2	48.2	2.4	3.4	-13.4	-13.4	-19.1
GEW-161	2/22/2018 13:46	0.7	56.8	0.0	42.5	48.2	48.2	4.8	4.5	-13.4	-13.4	-18.8
GEW-162	2/8/2018 9:41	13.9	59.2	0.0	26.9	67.9	67.9	6.4	8.2	-9.4	-9.4	-20.2
GEW-163	2/1/2018 8:46	7.8	36.5	8.1	47.6	171.0	170.5	4.1	6.3	0.0	0.0	-19.3
GEW-163	2/1/2018 8:48	7.7	36.9	8.0	47.4	171.0	171.8	8.9	12.2	0.0	0.0	-19.5
GEW-163	2/7/2018 11:00	4.7	51.1	3.0	41.2	189.0	188.9	16.1	13.9	0.0	0.0	-18.1
GEW-163	2/7/2018 11:01	5.2	50.0	3.9	40.9	188.3	188.9	17.7	24.4	-0.1	-0.1	-18.9
GEW-163	2/13/2018 10:45	13.3	37.9	7.6	41.2	168.1	168.1	17.8	4.2	-0.1	-0.1	-18.4
GEW-163	2/13/2018 10:47	13.1	39.4	7.5	40.0	168.1	167.6	4.2	10.2	-0.1	-0.1	-17.3
GEW-163	2/20/2018 10:43	10.6	43.5	5.8	40.1	178.6	178.6	16.7	21.2	-0.1	-0.1	-17.9
GEW-163	2/20/2018 10:45	10.5	44.0	5.8	39.7	178.6	179.2	16.5	20.9	-0.1	-0.1	-17.7
GEW-163	2/26/2018 14:53	13.1	43.7	3.9	39.3	174.2	174.2	14.5	15.7	-0.1	-0.1	-18.4
GEW-163	2/26/2018 14:55	12.6	46.1	3.9	37.4	173.6	173.1	11.2	10.7	-0.1	-0.1	-18.5
GEW-164	2/1/2018 8:52	21.1	49.7	3.5	25.7	150.3	150.6	22.7	18.5	-0.5	-0.5	-20.1
GEW-164	2/1/2018 8:53	21.0	49.9	3.5	25.6	150.2	150.3	40.2	25.3	-0.5	-0.5	-20.4
GEW-164	2/7/2018 11:06	24.1	49.4	2.9	23.6	148.0	148.3	26.8	20.4	-0.5	-0.4	-19.1
GEW-164	2/7/2018 11:07	24.2	49.5	2.8	23.5	148.0	148.0	33.2	18.0	-0.4	-0.4	-18.8
GEW-164	2/13/2018 10:51	24.9	52.5	2.2	20.4	152.5	152.5	11.8	16.1	-0.4	-0.4	-19.5
GEW-164	2/13/2018 11:01	24.7	52.7	2.2	20.4	152.1	152.1	28.9	35.7	-0.4	-0.4	-19.3
GEW-164	2/20/2018 10:48	23.6	54.6	1.6	20.2	155.6	155.6	18.1	23.7	-0.5	-0.5	-18.6
GEW-164	2/20/2018 10:50	23.7	54.2	1.6	20.5	155.6	155.6	17.2	7.9	-0.6	-0.5	-18.3

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-164	2/26/2018 14:57	22.9	53.3	1.1	22.7	156.5	156.1	23.7	21.1	-0.4	-0.4	-19.2
GEW-164	2/26/2018 14:59	22.8	55.2	1.1	20.9	156.0	156.0	25.7	25.7	-0.4	-0.4	-19.3
GEW-165	2/1/2018 9:00	11.2	58.2	1.1	29.5	180.9	181.4	8.1	9.4	-0.2	-0.3	-20.3
GEW-165	2/1/2018 9:02	11.1	60.7	1.1	27.1	181.0	180.9	14.7	15.4	-0.2	-0.2	-20.4
GEW-165	2/7/2018 11:14	11.1	44.0	5.8	39.1	165.2	165.2	39.3	33.1	-1.1	-1.1	-19.3
GEW-165	2/7/2018 11:16	10.9	45.5	5.9	37.7	165.2	165.2	7.2	27.3	-1.2	-1.1	-19.4
GEW-165	2/13/2018 14:15	7.3	38.6	7.9	46.2	158.1	158.5	13.5	48.5	-1.0	-1.0	-18.8
GEW-165	2/13/2018 14:17	7.5	40.8	7.8	43.9	158.5	158.5	34.9	19.8	-1.1	-0.9	-18.9
GEW-165	2/20/2018 10:57	11.5	57.6	1.3	29.6	181.5	181.0	15.6	15.5	-0.3	-0.3	-17.5
GEW-165	2/20/2018 10:59	11.4	58.8	1.4	28.4	180.9	181.3	18.7	20.0	-0.5	-0.4	-18.5
GEW-165	2/26/2018 15:03	11.7	57.5	0.6	30.2	182.1	182.2	32.2	30.3	-0.3	-0.3	-17.7
GEW-165	2/26/2018 15:05	11.4	60.3	0.7	27.6	182.1	182.7	29.8	37.9	-0.4	-0.4	-17.9
GEW-166	2/1/2018 9:07	2.1	52.3	1.3	44.3	185.7	185.7	34.2	31.0	-17.6	-17.7	-18.2
GEW-166	2/1/2018 9:08	2.0	53.5	1.3	43.2	186.4	185.7	31.5	26.2	-17.2	-17.2	-18.2
GEW-166	2/7/2018 11:21	1.9	52.9	0.8	44.4	190.9	190.9	24.2	43.9	-15.7	-15.7	-16.3
GEW-166	2/7/2018 11:22	1.9	53.8	0.8	43.5	190.9	191.2	58.4	49.1	-15.7	-16.2	-17.3
GEW-166	2/13/2018 14:10	1.4	52.5	0.6	45.5	194.3	194.3	14.3	27.6	-13.3	-13.3	-14.1
GEW-166	2/13/2018 14:11	1.2	53.1	0.6	45.1	194.3	194.3	37.9	17.1	-14.2	-13.7	-13.6
GEW-166	2/20/2018 11:03	1.8	54.5	0.5	43.2	193.6	193.9	11.3	8.7	-13.0	-13.0	-12.1
GEW-166	2/20/2018 11:05	1.8	54.0	0.5	43.7	193.7	193.6	12.6	16.3	-13.0	-13.1	-12.1
GEW-166	2/26/2018 15:08	2.0	53.6	0.4	44.0	189.6	189.6	35.5	31.1	-15.7	-15.8	-17.1
GEW-166	2/26/2018 15:09	1.4	54.7	0.4	43.5	189.6	189.8	39.0	42.0	-15.2	-15.7	-15.7
GEW-167	2/1/2018 9:26	1.9	30.9	12.5	54.7	180.5	180.8	16.8	19.4	-0.5	-0.5	-17.7
GEW-167	2/1/2018 9:28	2.0	29.9	12.9	55.2	180.3	180.3	12.9	12.0	-0.5	-0.5	-17.7
GEW-167	2/7/2018 11:28	1.7	37.8	6.1	54.4	185.2	185.1	16.0	11.7	-0.3	-0.3	-16.2
GEW-167	2/7/2018 11:29	1.8	38.7	6.4	53.1	184.5	184.5	8.1	15.7	-0.4	-0.4	-15.9
GEW-167	2/13/2018 11:06	0.8	40.3	6.5	52.4	187.6	187.5	17.9	11.6	-0.1	-0.2	-15.7
GEW-167	2/13/2018 11:08	0.7	41.4	6.5	51.4	187.6	187.2	23.7	22.9	-0.2	-0.3	-15.5
GEW-167	2/20/2018 11:16	1.4	46.3	4.6	47.7	189.6	189.6	6.3	19.6	-0.1	-0.1	-15.9
GEW-167	2/20/2018 11:18	1.5	45.7	4.7	48.1	189.6	189.6	18.8	24.0	-0.1	-0.2	-16.9
GEW-167	2/26/2018 15:24	0.8	43.5	4.5	51.2	187.6	187.7	16.4	14.7	-0.2	-0.2	-16.2
GEW-167	2/26/2018 15:25	0.8	43.7	4.5	51.0	187.9	187.6	13.1	13.1	-0.3	-0.3	-15.9
GEW-168	2/1/2018 9:39	16.7	56.4	0.2	26.7	170.0	170.5	171.4	172.4	-3.0	-2.9	-19.6
GEW-168	2/1/2018 9:41	16.2	57.4	0.1	26.3	170.5	170.5	172.0	172.0	-2.8	-2.9	-19.9
GEW-168	2/7/2018 11:35	16.5	55.1	0.1	28.3	170.0	170.0	167.5	168.5	-2.9	-2.8	-18.8
GEW-168	2/7/2018 11:36	16.4	55.9	0.1	27.6	169.5	169.5	171.0	169.0	-2.9	-2.8	-19.4
GEW-168	2/13/2018 11:15	14.6	55.5	0.2	29.7	172.1	171.9	168.6	167.5	-2.6	-2.6	-18.2
GEW-168	2/13/2018 11:17	14.6	56.2	0.1	29.1	171.6	171.6	170.0	171.3	-2.6	-2.6	-18.8
GEW-168	2/20/2018 11:33	16.2	57.4	0.0	26.4	168.5	169.0	170.3	170.7	-2.5	-2.4	-18.2
GEW-168	2/20/2018 11:34	16.4	57.2	0.0	26.4	169.1	169.0	168.8	168.7	-2.6	-2.6	-18.2
GEW-168	2/26/2018 15:29	12.5	55.5	0.0	32.0	169.2	169.5	172.6	172.3	-2.5	-2.5	-18.7

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-168	2/26/2018 15:30	12.4	56.9	0.0	30.7	170.5	170.5	172.7	173.3	-2.5	-2.5	-18.7
GEW-169	2/1/2018 9:47	5.3	50.4	3.4	40.9	184.5	184.9	11.2	12.8	-1.2	-1.2	-19.3
GEW-169	2/1/2018 9:48	5.0	53.5	3.3	38.2	184.5	184.5	23.0	30.7	-1.3	-1.3	-19.3
GEW-169	2/7/2018 11:41	5.1	52.7	3.1	39.1	183.9	184.5	20.1	16.3	-1.2	-1.3	-18.7
GEW-169	2/7/2018 11:43	5.0	53.5	3.1	38.4	184.5	184.5	17.4	9.0	-1.3	-1.3	-18.6
GEW-169	2/13/2018 11:22	5.1	55.2	1.9	37.8	187.6	187.6	11.4	19.4	-1.0	-1.0	-18.0
GEW-169	2/13/2018 11:23	5.0	56.6	1.8	36.6	187.6	187.6	19.4	10.6	-1.0	-1.0	-18.8
GEW-169	2/20/2018 11:23	7.4	58.4	1.0	33.2	187.1	187.6	8.8	21.5	-0.6	-0.6	-18.0
GEW-169	2/20/2018 11:24	7.6	58.2	0.9	33.3	187.0	187.6	12.2	4.4	-0.6	-0.6	-18.2
GEW-169	2/26/2018 15:33	5.1	61.0	0.0	33.9	188.3	187.6	11.3	12.5	-0.6	-0.6	-18.7
GEW-169	2/26/2018 15:34	5.1	62.1	0.0	32.8	188.3	188.3	14.6	19.0	-0.9	-0.9	-18.7
GEW-170	2/8/2018 13:35	8.0	40.6	6.6	44.8	162.0	162.0	18.7	24.4	-7.5	-7.5	-15.3
GEW-170	2/8/2018 13:38	8.1	39.9	6.6	45.4	149.5	149.1	1.6	1.9	-1.7	-1.7	-14.8
GEW-170	2/14/2018 10:07	6.7	63.5	0.0	29.8	172.1	171.6	9.1	8.5	0.9	0.9	-8.1
GEW-170	2/14/2018 10:11	6.2	65.2	0.0	28.6	189.6	190.2	4.6	5.4	-0.6	-0.6	-8.8
GEW-170	2/22/2018 9:18	7.8	48.9	4.1	39.2	181.5	181.5	6.2	9.4	-1.7	-1.7	-12.3
GEW-170	2/22/2018 9:20	7.7	50.9	4.1	37.3	180.9	180.9	6.2	4.1	-1.6	-1.6	-13.4
GEW-171	2/8/2018 10:37	0.1	16.4	17.6	65.9	47.3	47.2	10.2	10.5	-19.1	-19.1	-19.6
GEW-171	2/8/2018 10:40	0.0	8.1	20.3	71.6	47.4	47.4	9.4	9.4	-16.7	-16.5	-19.5
GEW-171	2/12/2018 14:29	6.1	58.8	0.0	35.1	53.9	53.7	5.8	5.5	66.4	66.4	-19.1
GEW-171	2/12/2018 14:32	6.5	63.4	0.0	30.1	80.7	80.0	5.1	6.4	-9.1	-9.1	-19.3
GEW-171	2/21/2018 10:40	6.7	58.0	0.5	34.8	44.6	44.4	9.9	5.5	-16.0	-16.0	-20.1
GEW-172	2/8/2018 11:02	0.6	47.8	3.3	48.3	56.3	56.2	5.5	5.5	-19.8	-20.0	-20.0
GEW-173	2/8/2018 10:11	4.5	16.9	10.2	68.4	95.5	96.2	54.6	52.0	-2.1	-2.1	-4.8
GEW-173	2/8/2018 10:15	4.7	16.2	10.3	68.8	89.6	89.1	7.3	7.8	-0.1	-0.1	-20.0
GEW-173	2/21/2018 10:18	18.2	35.0	2.7	44.1	90.9	90.8	6.1	9.1	-0.1	-0.1	-20.0
GEW-174	2/8/2018 10:04	19.8	46.1	0.0	34.1	143.5	143.5	24.6	28.2	-4.2	-4.3	-19.0
GEW-174	2/8/2018 10:05	20.0	45.8	0.0	34.2	143.5	143.6	26.0	20.1	-4.2	-4.3	-19.8
GEW-174	2/21/2018 9:59	18.5	44.1	0.0	37.4	140.2	140.9	31.2	31.2	-4.3	-4.3	-20.2
GEW-174	2/21/2018 10:00	19.1	44.4	0.0	36.5	141.2	140.8	35.4	35.4	-4.4	-4.4	-19.7
GEW-175	2/7/2018 14:34	18.7	41.6	4.8	34.9	113.7	113.3	45.7	51.0	-0.6	-0.6	-19.6
GEW-175	2/7/2018 14:35	18.6	42.3	4.7	34.4	113.3	113.5	49.0	42.4	-0.5	-0.6	-19.6
GEW-176	2/7/2018 14:27	17.5	32.0	9.3	41.2	48.2	48.2	8.2	9.5	-0.3	-0.3	-19.3
GEW-176	2/7/2018 14:28	18.0	30.1	9.4	42.5	47.2	47.1	10.9	10.9	-0.1	-0.1	-19.3
GEW-176	2/20/2018 14:45	17.6	28.6	10.0	43.8	59.2	59.2	7.1	7.2	-0.1	-0.1	-19.4
GEW-176	2/20/2018 14:47	18.1	26.8	10.2	44.9	59.2	59.2	7.1	7.1	-0.1	-0.1	-19.4
GEW-177	2/8/2018 11:26	0.1	38.5	8.7	52.7	54.6	54.7	10.7	15.7	-19.7	-19.7	-19.6
GEW-177	2/8/2018 11:28	0.1	43.4	7.9	48.6	54.6	54.6	8.3	6.8	-19.5	-19.2	-19.5
GEW-177	2/22/2018 8:43	0.4	45.5	6.2	47.9	39.2	39.2	2.9	3.6	-19.0	-19.0	-19.1
GEW-177	2/22/2018 8:57	0.2	48.8	4.9	46.1	38.8	38.8	4.1	4.1	-17.5	-17.5	-18.7
GEW-178	2/7/2018 8:51	12.2	42.8	7.1	37.9	44.4	44.3	2.5	2.5	0.0	0.0	-19.9

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-178	2/7/2018 8:53	12.2	43.3	7.1	37.4	44.3	44.4	1.8	2.0	0.0	0.0	-19.8
GEW-178	2/9/2018 10:43	15.4	64.8	0.0	19.8	74.1	74.3	4.9	3.3	0.0	0.0	-19.7
GEW-178	2/9/2018 10:45	15.1	65.9	0.0	19.0	83.7	84.0	4.9	4.6	-0.1	-0.1	-20.0
GEW-178	2/13/2018 8:44	9.8	43.6	7.8	38.8	87.2	87.7	6.9	6.8	-0.1	-0.2	-19.1
GEW-178	2/13/2018 8:45	9.6	44.8	7.4	38.2	87.5	86.9	5.2	2.3	-0.1	-0.1	-19.0
GEW-178	2/20/2018 8:16	12.7	50.7	4.8	31.8	105.4	105.8	6.1	2.9	-0.1	-0.1	-20.1
GEW-178	2/28/2018 8:55	15.4	61.0	0.3	23.3	100.8	101.1	6.1	6.1	-0.1	-0.2	-20.0
GEW-178	2/28/2018 8:57	15.5	61.3	0.2	23.0	103.1	103.0	7.5	9.4	-0.3	-0.3	-20.1
GEW-179	2/7/2018 9:03	1.4	9.6	19.6	69.4	32.3	32.3	4.1	3.9	-17.7	-17.7	-19.3
GEW-179	2/7/2018 9:04	2.3	8.3	19.4	70.0	32.6	32.6	3.3	2.8	-17.7	-17.7	-19.5
GEW-179	2/13/2018 8:53	21.8	48.8	5.3	24.1	45.2	45.3	2.2	2.5	-2.0	-2.0	-18.7
GEW-179	2/13/2018 8:55	21.8	48.2	5.5	24.5	46.1	46.1	3.9	4.3	-2.1	-2.1	-18.8
GEW-179	2/16/2018 11:45	17.2	64.3	0.0	18.5	44.7	44.7	5.4	3.3	0.8	0.8	-19.8
GEW-179	2/16/2018 11:47	16.7	66.6	0.0	16.7	46.2	46.2	5.9	8.6	-0.7	-0.8	-20.0
GEW-179	2/20/2018 8:28	14.2	63.1	0.5	22.2	66.1	66.1	6.8	6.7	-19.9	-19.9	-19.9
GEW-179	2/28/2018 14:50	17.3	62.9	0.0	19.8	67.2	67.2	15.6	14.9	-0.2	-0.2	-20.1
GEW-179	2/28/2018 14:52	17.0	65.1	0.0	17.9	68.6	68.8	9.9	9.7	-1.4	-1.4	-18.2
GEW-180	2/7/2018 9:11	0.1	0.9	21.1	77.9	31.1	31.1	1.3	0.0	-11.3	-11.3	-19.8
GEW-180	2/7/2018 9:13	0.1	0.8	21.1	78.0	30.7	30.6	1.3	1.3	-11.3	-11.3	-19.8
GEW-180	2/9/2018 10:40	9.6	57.9	1.5	31.0	78.2	78.0	3.7	5.9	-5.9	-5.9	-19.7
GEW-180	2/13/2018 9:02	10.2	59.5	1.9	28.4	74.9	74.8	3.1	3.9	-2.9	-3.0	-18.4
GEW-180	2/20/2018 8:32	11.8	62.4	0.0	25.8	106.5	106.3	8.1	7.1	2.0	2.1	-20.2
GEW-180	2/20/2018 8:34	11.2	65.5	0.0	23.3	118.1	118.6	8.5	6.5	-2.2	-2.3	-20.1
GEW-180	2/28/2018 9:08	0.1	10.3	20.0	69.6	53.5	53.4	4.7	4.7	-19.4	-19.4	-19.6
GEW-180	2/28/2018 9:11	0.0	4.0	21.4	74.6	53.1	53.1	3.6	3.8	-17.4	-17.4	-19.6
GEW-181	2/7/2018 9:18	11.1	62.0	0.0	26.9	99.6	99.2	10.2	8.1	-4.0	-4.1	-19.6
GEW-181	2/13/2018 9:07	12.6	64.3	0.0	23.1	159.8	160.3	4.7	2.6	6.8	6.8	-18.5
GEW-181	2/13/2018 9:10	12.5	67.4	0.0	20.1	169.0	169.0	13.5	6.9	-1.0	-1.1	-18.7
GEW-181	2/20/2018 8:38	10.9	62.1	0.1	26.9	167.4	167.1	5.1	8.7	-5.7	-5.7	-20.1
GEW-181	2/20/2018 8:40	10.8	64.0	0.1	25.1	166.1	166.1	9.6	5.1	-5.9	-6.2	-20.4
GEW-181	2/28/2018 9:21	12.2	62.2	0.0	25.6	168.1	167.6	7.3	9.1	0.0	0.0	-21.1
GEW-181	2/28/2018 9:24	11.9	63.2	0.0	24.9	168.0	168.1	10.8	10.2	-0.5	-0.5	-20.2
GEW-182	2/7/2018 10:33	11.1	55.2	0.0	33.7	159.8	160.2	5.6	10.1	0.4	0.4	-9.5
GEW-182	2/7/2018 10:36	11.1	57.3	0.0	31.6	173.9	174.2	10.6	18.2	-1.1	-1.1	-13.1
GEW-182	2/13/2018 10:12	12.4	41.4	6.4	39.8	157.7	157.9	6.7	25.0	-0.6	-0.7	-15.7
GEW-182	2/13/2018 10:14	12.7	42.6	6.6	38.1	157.7	157.7	11.6	9.5	-0.5	-0.5	-17.5
GEW-182	2/20/2018 10:01	12.6	50.7	2.6	34.1	152.9	153.1	6.6	19.1	-0.3	-0.4	-16.0
GEW-182	2/20/2018 10:03	13.0	52.1	2.6	32.3	153.5	153.3	13.5	12.4	-0.4	-0.4	-15.0
GEW-182	2/28/2018 15:10	13.9	48.0	3.2	34.9	148.0	148.0	18.7	16.6	-0.7	-0.7	-20.9
GEW-182	2/28/2018 15:11	13.9	49.0	3.2	33.9	148.0	148.0	16.3	13.5	-0.9	-0.9	-20.5
GEW-184	2/7/2018 10:20	20.5	34.8	8.8	35.9	60.4	60.8	2.4	4.0	-0.1	-0.1	-19.3

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-184	2/7/2018 10:21	20.4	34.9	8.8	35.9	60.7	60.2	3.0	4.0	-0.1	-0.1	-19.3
GEW-184	2/8/2018 8:14	18.8	35.0	9.6	36.6	58.5	58.2	1.7	2.7	-0.1	-0.1	-19.7
GEW-184	2/8/2018 8:38	12.1	25.4	14.0	48.5	80.5	80.3	10.3	6.9	-0.2	-0.2	-19.8
GEW-184	2/8/2018 8:53	13.5	24.8	13.7	48.0	79.1	78.9	12.7	6.4	-0.2	-0.2	-19.9
GEW-184	2/8/2018 8:55	12.2	24.2	14.3	49.3	68.3	69.1	2.3	2.3	-0.1	-0.1	-20.0
GEW-184	2/13/2018 9:57	19.8	37.3	9.3	33.6	83.0	82.8	1.2	2.3	0.0	0.0	-18.5
GEW-184	2/13/2018 9:58	19.7	37.6	9.3	33.4	83.3	83.3	3.5	2.3	0.0	0.0	-18.5
GEW-184	2/15/2018 14:26	22.6	47.5	5.1	24.8	108.7	108.8	2.2	1.6	-0.1	-0.1	-20.5
GEW-184	2/15/2018 14:28	22.6	46.8	5.2	25.4	112.7	113.5	4.2	3.7	-0.1	-0.1	-19.7
GEW-184	2/16/2018 11:15	12.4	23.2	14.1	50.3	81.9	81.9	7.6	3.1	-0.1	-0.1	-19.9
GEW-184	2/16/2018 11:16	12.7	23.6	14.0	49.7	72.8	72.9	2.9	1.1	-0.1	-0.1	-20.0
GEW-184	2/20/2018 9:47	26.4	44.9	5.3	23.4	90.1	90.2	13.9	14.0	-0.2	-0.3	-19.7
GEW-184	2/20/2018 9:49	25.8	45.0	5.2	24.0	90.1	90.1	10.4	10.2	-0.1	-0.1	-18.8
GEW-184	2/28/2018 9:53	24.4	45.3	5.2	25.1	86.3	86.5	3.0	3.1	0.0	0.0	-19.7
GEW-184	2/28/2018 9:56	24.4	45.1	5.3	25.2	91.2	91.9	2.3	3.8	-0.1	-0.1	-19.3
GEW-185	2/7/2018 10:25	17.8	54.8	0.0	27.4	147.7	148.0	8.8	8.4	-0.3	-0.3	-19.2
GEW-185	2/7/2018 10:26	17.2	59.7	0.0	23.1	148.4	148.1	8.0	9.8	-0.3	-0.3	-18.7
GEW-185	2/13/2018 10:03	16.2	60.2	0.0	23.6	156.0	156.0	9.4	6.8	-0.1	-0.1	-18.6
GEW-185	2/13/2018 10:05	16.2	59.8	0.0	24.0	156.4	155.6	3.6	4.3	-0.1	-0.1	-18.5
GEW-185	2/20/2018 9:53	16.1	57.3	0.0	26.6	157.3	157.3	10.1	11.7	-0.2	-0.1	-18.5
GEW-185	2/20/2018 9:54	15.3	60.7	0.0	24.0	157.0	157.0	9.5	12.4	-0.1	-0.1	-18.4
GEW-185	2/28/2018 10:01	15.1	59.4	0.0	25.5	161.6	161.1	4.7	4.7	0.0	0.0	-19.6
GEW-185	2/28/2018 10:03	15.2	61.1	0.0	23.7	161.9	162.0	6.4	4.1	-0.1	-0.1	-19.7
GEW-186	2/7/2018 9:27	9.1	37.4	9.4	44.1	79.9	79.8	5.3	5.1	-0.1	-0.1	-19.9
GEW-186	2/7/2018 9:29	9.3	37.4	9.5	43.8	73.2	73.0	2.1	2.1	-0.1	-0.1	-19.9
GEW-186	2/9/2018 14:09	17.6	54.2	3.2	25.0	126.1	126.4	5.0	5.6	-0.1	-0.1	-19.1
GEW-186	2/13/2018 9:25	20.6	51.8	3.9	23.7	127.2	127.8	4.6	6.2	0.0	0.0	-18.5
GEW-186	2/20/2018 9:24	22.2	49.9	4.0	23.9	135.3	135.0	6.3	11.2	-0.2	-0.1	-20.0
GEW-186	2/20/2018 9:25	22.1	50.3	3.4	24.2	134.7	134.4	9.6	7.4	-0.2	-0.2	-19.2
GEW-186	2/28/2018 9:35	23.0	51.6	3.2	22.2	138.3	137.4	5.0	4.9	-0.1	-0.1	-19.4
GEW-186	2/28/2018 9:39	22.9	50.3	3.3	23.5	141.5	141.5	7.5	6.6	-0.1	-0.1	-19.2
GEW-187	2/7/2018 8:42	11.0	42.3	4.8	41.9	79.8	79.8	4.2	4.2	-1.0	-1.0	-19.8
GEW-187	2/13/2018 8:34	3.0	13.1	17.2	66.7	133.5	133.7	9.3	9.1	-1.0	-1.0	-19.2
GEW-187	2/13/2018 8:36	2.9	14.8	17.0	65.3	133.5	133.5	9.0	8.9	-1.0	-1.0	-19.1
GEW-187	2/20/2018 8:06	3.0	27.5	12.4	57.1	170.0	169.5	10.4	10.4	-0.2	-0.2	-20.5
GEW-187	2/20/2018 8:09	3.0	28.0	12.3	56.7	170.0	170.0	8.1	7.1	-0.1	-0.1	-20.3
GEW-187	2/28/2018 8:32	9.3	55.0	1.0	34.7	174.8	174.7	7.6	7.6	-2.6	-2.6	-20.1
GEW-187	2/28/2018 8:34	9.3	56.1	0.8	33.8	174.7	174.7	6.9	8.5	-2.6	-2.6	-19.7
GEW-188	2/7/2018 10:02	1.2	23.1	12.0	63.7	90.5	91.0	26.0	26.8	-0.4	-0.4	-18.5
GEW-188	2/7/2018 10:03	1.3	23.4	12.0	63.3	93.2	93.9	23.1	21.1	-0.3	-0.2	-16.8
GEW-188	2/13/2018 9:42	2.5	25.2	13.3	59.0	92.2	92.2	24.7	10.4	-0.3	-0.2	-14.5

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GEW-188	2/13/2018 9:44	2.3	22.0	13.8	61.9	92.9	92.9	7.7	22.2	-0.2	-0.3	-14.3
GEW-188	2/20/2018 9:38	1.1	19.6	15.8	63.5	99.6	99.6	11.0	19.3	-0.2	-0.1	-15.5
GEW-188	2/20/2018 9:40	0.9	16.1	16.3	66.7	99.9	100.1	19.5	18.6	-0.2	-0.1	-16.5
GEW-188	2/28/2018 10:13	2.4	19.1	15.0	63.5	94.8	94.9	25.7	18.8	-0.4	-0.1	-16.2
GEW-188	2/28/2018 10:21	2.4	18.9	13.9	64.8	84.2	83.7	8.8	11.1	-0.1	-0.1	-18.1
GEW-1A	2/1/2018 14:28	0.6	6.9	19.0	73.5	31.9	31.9	6.8	5.8	-13.2	-13.4	-14.1
GEW-1A	2/1/2018 14:29	0.4	4.4	19.8	75.4	31.5	31.5	5.0	5.3	-13.1	-13.1	-12.6
GEW-1A	2/7/2018 9:56	1.5	6.2	18.5	73.8	31.0	31.0	3.9	3.7	-14.9	-14.9	-15.1
GEW-1A	2/7/2018 9:59	0.2	1.2	21.0	77.6	31.1	31.1	1.8	1.8	-14.2	-14.2	-15.1
GEW-1A	2/12/2018 14:46	0.7	6.8	18.1	74.4	51.6	51.8	4.2	6.3	-14.6	-14.6	-14.7
GEW-1A	2/12/2018 14:47	0.8	2.4	19.2	77.6	52.1	52.1	3.6	5.1	-14.6	-14.6	-14.7
GEW-1A	2/19/2018 15:29	1.1	2.6	19.2	77.1	61.8	61.8	1.3	2.1	-13.2	-13.2	-13.7
GEW-1A	2/19/2018 15:30	0.7	1.0	19.9	78.4	61.7	61.7	0.6	0.6	-13.2	-13.2	-13.7
GEW-1A	2/26/2018 13:17	0.0	2.6	20.2	77.2	70.5	70.9	2.2	2.5	-12.9	-12.8	-13.2
GEW-1A	2/26/2018 13:18	0.0	0.5	20.6	78.9	72.7	72.7	2.1	1.9	-13.2	-13.1	-13.3
GEW-2S	2/1/2018 15:15	58.0	38.8	0.0	3.2	40.5	40.3	6.4	4.9	-6.4	-6.0	-7.5
GEW-2S	2/7/2018 10:06	56.3	37.4	0.5	5.8	44.1	44.4	14.4	12.9	-6.3	-5.8	-10.7
GEW-2S	2/12/2018 14:57	56.0	35.7	0.9	7.4	48.8	49.0	13.7	13.9	-6.3	-6.2	-9.7
GEW-2S	2/22/2018 8:00	53.2	39.1	1.2	6.5	44.6	44.6	15.9	13.7	-3.8	-3.7	-7.3
GEW-2S	2/26/2018 13:37	55.6	36.3	1.3	6.8	64.7	64.9	10.9	12.3	-3.1	-3.2	-4.4
GIW-01	2/5/2018 9:02	4.9	60.9	0.5	33.7	172.1	172.1	13.6	13.4	-4.1	-4.0	-21.1
GIW-01	2/5/2018 9:10	6.3	60.3	0.4	33.0	172.5	172.1	10.3	9.8	-4.0	-4.0	-20.8
GIW-01	2/12/2018 8:55	10.8	38.6	8.2	42.4	43.8	44.0	5.9	4.3	-19.4	-19.4	-20.0
GIW-01	2/12/2018 8:57	12.2	34.8	8.4	44.6	40.2	40.1	2.8	1.2	-10.2	-10.1	-20.3
GIW-01	2/19/2018 10:00	6.2	62.6	0.0	31.2	134.4	134.6	3.2	3.2	20.5	20.5	-20.1
GIW-01	2/19/2018 10:04	5.6	64.4	0.0	30.0	175.8	175.8	14.6	14.6	-1.4	-1.4	-20.5
GIW-01	2/26/2018 8:36	6.3	58.3	0.6	34.8	174.2	174.2	11.6	11.6	-6.7	-6.7	-20.0
GIW-01	2/26/2018 8:37	6.1	59.3	0.5	34.1	174.2	174.2	12.4	11.0	-6.7	-6.7	-20.3
GIW-02	2/5/2018 9:15	3.1	25.4	12.7	58.8	31.0	31.0	5.4	5.1	0.0	0.0	-20.4
GIW-02	2/5/2018 9:22	3.3	22.0	13.3	61.4	30.9	30.9	1.0	2.4	-0.1	-0.1	-20.4
GIW-02	2/12/2018 9:00	1.5	18.0	15.6	64.9	39.7	39.8	5.8	5.7	-0.1	-0.1	-20.0
GIW-02	2/12/2018 9:01	1.5	15.1	16.2	67.2	40.5	40.6	3.1	3.1	-0.1	-0.1	-20.0
GIW-02	2/19/2018 10:07	2.3	24.3	12.1	61.3	63.5	63.5	3.1	3.2	-0.1	-0.1	-19.6
GIW-02	2/19/2018 10:09	2.4	22.7	12.5	62.4	63.3	63.3	1.7	3.2	-0.1	-0.2	-19.7
GIW-02	2/26/2018 8:40	1.5	19.3	14.5	64.7	67.5	67.5	5.1	5.3	-0.1	-0.1	-19.5
GIW-02	2/26/2018 8:42	1.6	15.2	15.2	68.0	68.4	68.4	3.2	2.9	-0.1	-0.1	-19.6
GIW-03	2/5/2018 9:47	2.0	61.9	0.0	36.1	25.1	25.1	4.0	4.0	-0.4	-0.4	-17.4
GIW-03	2/5/2018 9:53	2.3	59.1	0.0	38.6	24.7	24.7	4.0	4.3	-0.3	-0.2	-17.0
GIW-03	2/12/2018 9:04	1.6	56.9	0.0	41.5	37.6	37.7	5.5	5.7	0.4	0.4	-17.5
GIW-03	2/12/2018 9:06	1.5	63.5	0.0	35.0	29.1	29.1	3.7	3.2	-0.1	-0.1	-17.1
GIW-03	2/19/2018 10:12	2.7	56.6	0.0	40.7	62.1	62.1	4.8	3.6	-6.9	-6.8	-17.7

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GIW-03	2/26/2018 8:47	5.2	55.3	0.5	39.0	62.3	62.4	4.2	4.2	-2.9	-2.9	-16.8
GIW-04	2/5/2018 9:57	1.3	42.1	4.8	51.8	32.3	32.4	7.2	7.4	-8.8	-8.8	-19.4
GIW-04	2/5/2018 10:04	1.6	41.7	4.8	51.9	31.8	31.8	4.8	10.3	-7.4	-7.4	-19.5
GIW-04	2/12/2018 9:09	0.4	33.5	9.9	56.2	37.1	37.3	5.2	3.5	-11.5	-11.3	-20.0
GIW-04	2/12/2018 9:11	0.4	31.9	10.1	57.6	37.9	38.1	2.1	1.2	-11.3	-11.3	-20.0
GIW-04	2/19/2018 10:16	0.0	6.8	20.1	73.1	61.6	61.6	3.3	4.1	-15.7	-15.7	-19.7
GIW-04	2/19/2018 10:17	0.0	5.1	20.3	74.6	61.6	61.6	2.3	3.3	-16.2	-16.2	-19.7
GIW-04	2/26/2018 8:50	3.3	50.6	2.6	43.5	63.3	63.3	2.7	3.4	-3.0	-3.0	-19.2
GIW-05	2/5/2018 10:57	1.0	8.5	19.9	70.6	31.8	32.3	0.0	0.0	-2.1	-2.1	-19.3
GIW-05	2/5/2018 11:05	1.7	18.9	13.2	66.2	31.1	31.1	9.6	9.4	-5.3	-5.2	-19.3
GIW-05	2/12/2018 9:20	0.0	8.9	20.8	70.3	34.2	36.1	0.0	0.0	0.0	0.0	-19.6
GIW-05	2/12/2018 9:23	0.0	2.3	21.2	76.5	36.4	36.4	0.0	0.0	-0.1	-0.1	-19.8
GIW-05	2/19/2018 10:26	0.0	5.2	21.0	73.8	61.4	61.4	0.0	0.0	-0.1	-0.1	-19.7
GIW-05	2/19/2018 10:28	0.0	1.5	21.1	77.4	61.4	61.4	0.0	0.0	-0.1	0.0	-19.7
GIW-05	2/26/2018 8:59	0.0	5.5	20.9	73.6	58.7	58.7	0.0	0.0	0.0	0.0	-19.5
GIW-05	2/26/2018 9:01	0.0	2.7	21.5	75.8	59.0	59.2	0.0	0.0	-0.1	0.0	-19.2
GIW-06	2/5/2018 11:13	4.5	52.5	0.2	42.8	31.8	31.7	3.5	6.0	-1.1	-1.1	-19.9
GIW-06	2/5/2018 11:20	4.9	51.9	0.4	42.8	31.8	31.9	3.8	3.5	-1.2	-1.1	-19.8
GIW-06	2/12/2018 9:48	2.1	55.0	0.2	42.7	42.6	42.5	2.5	4.4	-0.7	-0.7	-19.6
GIW-06	2/19/2018 10:47	22.3	45.4	0.0	32.3	59.5	59.6	5.0	6.6	-10.8	-10.8	-19.7
GIW-06	2/26/2018 9:05	13.4	46.7	0.0	39.9	60.9	60.9	3.8	4.0	-5.3	-5.5	-19.2
GIW-07	2/5/2018 11:32	33.0	52.1	0.8	14.1	34.4	34.4	2.0	2.0	-5.4	-5.4	-19.7
GIW-07	2/5/2018 11:38	30.9	53.0	0.7	15.4	36.4	36.4	3.2	3.5	-5.4	-5.4	-19.6
GIW-07	2/12/2018 9:51	30.6	55.5	0.4	13.5	39.8	39.9	3.9	3.9	-5.8	-5.8	-19.5
GIW-07	2/19/2018 10:49	32.1	52.8	0.0	15.1	59.4	59.4	5.8	4.8	-5.9	-5.9	-19.7
GIW-07	2/26/2018 9:07	29.7	51.2	0.4	18.7	59.1	59.2	3.0	2.7	-5.5	-5.3	-19.5
GIW-08	2/5/2018 13:21	22.0	48.8	0.0	29.2	40.0	39.9	7.3	7.4	-2.5	-2.5	-19.4
GIW-08	2/5/2018 13:27	21.7	49.8	0.0	28.5	36.1	36.2	3.8	3.8	-2.6	-2.6	-19.8
GIW-08	2/12/2018 9:54	26.6	51.2	0.0	22.2	42.5	42.8	4.0	4.0	-2.6	-2.6	-19.5
GIW-08	2/19/2018 10:52	24.1	53.1	0.0	22.8	59.6	59.6	1.7	3.2	-2.6	-2.5	-19.7
GIW-08	2/26/2018 9:10	23.9	53.9	0.0	22.2	65.5	65.6	2.1	1.7	-2.5	-2.5	-19.2
GIW-09	2/5/2018 13:32	3.0	18.7	10.3	68.0	37.8	37.8	4.6	3.8	-0.4	-0.4	-19.4
GIW-09	2/5/2018 13:38	3.2	15.6	10.6	70.6	37.3	37.2	2.6	1.8	-0.4	-0.4	-19.7
GIW-09	2/12/2018 10:00	1.1	19.6	14.1	65.2	39.2	39.5	5.5	5.5	-0.7	-0.6	-19.6
GIW-09	2/12/2018 10:01	1.2	14.4	14.8	69.6	39.9	39.9	4.4	4.4	-0.6	-0.6	-19.6
GIW-09	2/19/2018 10:57	0.8	18.3	13.2	67.7	59.4	59.4	3.2	4.0	-0.5	-0.6	-20.1
GIW-09	2/19/2018 10:58	0.8	14.5	13.8	70.9	59.4	59.4	2.1	1.7	-0.5	-0.5	-19.7
GIW-09	2/26/2018 9:18	1.0	14.1	14.3	70.6	60.4	60.4	2.4	3.0	-0.7	-0.7	-19.2
GIW-09	2/26/2018 9:19	1.0	12.8	14.4	71.8	61.4	61.5	2.1	2.1	-0.7	-0.7	-19.5
GIW-10	2/5/2018 13:43	7.4	43.2	0.0	49.4	41.9	41.9	2.2	2.8	-3.3	-3.3	-19.7
GIW-10	2/5/2018 13:50	8.1	44.6	0.0	47.3	43.4	43.4	3.3	3.5	-3.3	-3.3	-19.7

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
GIW-10	2/12/2018 9:14	8.7	44.5	0.0	46.8	36.0	36.0	4.4	4.2	-4.3	-4.3	-19.9
GIW-10	2/19/2018 10:21	10.3	41.3	0.0	48.4	60.7	60.7	4.5	3.4	-4.1	-4.0	-19.9
GIW-10	2/26/2018 8:53	8.8	41.7	0.0	49.5	60.0	60.0	1.7	1.7	-4.3	-4.3	-19.6
GIW-11	2/5/2018 13:56	9.5	47.1	0.3	43.1	42.5	42.5	3.1	2.2	-1.0	-1.0	-17.7
GIW-11	2/5/2018 14:03	10.1	46.7	0.3	42.9	40.8	40.7	4.9	7.5	-1.2	-1.2	-15.9
GIW-11	2/12/2018 8:51	10.4	43.2	0.2	46.2	36.0	36.0	3.8	4.4	-1.4	-1.5	-15.6
GIW-11	2/19/2018 9:57	15.3	47.9	0.0	36.8	62.8	62.8	3.6	2.7	-1.4	-1.3	-16.2
GIW-11	2/26/2018 8:32	16.1	44.7	0.0	39.2	60.0	60.1	5.2	4.9	-1.3	-1.3	-17.8
GIW-12	2/5/2018 14:07	12.0	44.3	1.7	42.0	37.8	37.8	3.1	2.6	-0.1	-0.1	-19.0
GIW-12	2/5/2018 14:13	12.2	43.0	1.7	43.1	36.7	36.7	2.2	1.8	-0.1	-0.1	-19.0
GIW-12	2/12/2018 8:45	2.5	52.4	1.7	43.4	29.9	30.1	2.2	2.2	-0.1	-0.1	-14.7
GIW-12	2/19/2018 9:51	9.4	41.7	4.4	44.5	62.9	62.9	2.7	4.0	-0.1	-0.1	-18.6
GIW-12	2/26/2018 8:25	8.0	36.9	6.8	48.3	53.9	54.0	2.1	1.8	-0.2	-0.2	-18.1
GIW-12	2/26/2018 8:26	8.0	35.2	6.9	49.9	54.8	54.9	2.5	2.5	-0.2	-0.2	-17.7
GIW-13	2/5/2018 14:17	21.6	57.8	0.0	20.6	36.0	36.0	3.1	1.8	-1.2	-1.2	-13.6
GIW-13	2/5/2018 14:23	21.1	56.7	0.0	22.2	34.5	34.5	2.2	2.6	-1.2	-1.2	-14.2
GIW-13	2/12/2018 8:42	21.6	54.4	0.0	24.0	24.8	24.9	2.3	2.3	-1.5	-1.5	-13.6
GIW-13	2/19/2018 9:48	18.9	60.2	0.0	20.9	62.3	62.3	4.3	3.0	-1.4	-1.4	-13.9
GIW-13	2/26/2018 8:22	23.3	54.5	0.0	22.2	53.7	53.9	4.4	4.4	-1.5	-1.5	-13.3
LCS-1D	2/14/2018 14:25	54.3	37.0	1.5	7.2	85.1	84.9	2.5	3.7	-10.8	-10.8	-19.3
LCS-5A	2/1/2018 10:33	53.9	40.3	0.5	5.3	68.8	68.4	NFD		-14.3	-14.3	-14.6
LCS-5A	2/7/2018 9:34	55.1	38.7	0.7	5.5	70.4	70.2	NFD		-15.2	-15.0	-15.1
LCS-5A	2/12/2018 13:26	54.7	40.0	0.4	4.9	75.9	75.9	NFD		-14.5	-14.5	-14.6
LCS-5A	2/19/2018 14:20	54.9	40.0	0.4	4.7	75.8	75.8	NFD		-13.7	-13.7	-13.7
LCS-5A	2/26/2018 10:23	54.4	40.0	0.0	5.6	80.0	80.0	NFD		-13.5	-13.5	-13.7
LCS-5B	2/1/2018 10:46	53.7	41.9	0.0	4.4	136.8	136.8	21.4	20.6	-13.8	-13.8	-14.1
LCS-5B	2/1/2018 10:48	53.8	41.7	0.0	4.5	137.4	137.7	21.0	19.8	-13.8	-13.8	-14.1
LCS-5B	2/7/2018 9:38	53.5	41.3	0.0	5.2	144.2	143.9	22.4	23.1	-15.0	-14.9	-15.0
LCS-5B	2/7/2018 9:39	53.3	42.1	0.0	4.6	143.2	142.9	22.0	22.0	-14.9	-14.9	-15.0
LCS-5B	2/12/2018 13:38	53.0	41.5	0.0	5.5	146.2	146.2	24.3	24.9	-14.2	-14.2	-14.6
LCS-5B	2/12/2018 13:39	53.1	42.1	0.0	4.8	146.4	146.2	24.5	24.7	-14.5	-14.4	-14.5
LCS-5B	2/19/2018 14:34	53.1	42.7	0.0	4.2	144.9	144.5	23.5	23.5	-13.6	-13.6	-13.7
LCS-5B	2/19/2018 14:35	53.3	42.6	0.0	4.1	144.9	144.6	24.2	23.2	-13.6	-13.6	-13.7
LCS-5B	2/26/2018 10:41	52.9	41.4	0.0	5.7	144.9	144.9	20.1	22.3	-13.0	-13.0	-13.3
LCS-5B	2/26/2018 10:44	53.1	41.5	0.0	5.4	144.6	144.9	23.7	21.0	-13.0	-13.0	-13.3
LCS-6B	2/1/2018 15:29	44.3	36.4	0.0	19.3	105.2	105.4	24.5	24.5	-4.0	-4.0	-14.0
LCS-6B	2/7/2018 8:40	49.1	38.4	0.0	12.5	121.3	122.4	14.7	15.8	-4.0	-4.0	-15.6
LCS-6B	2/12/2018 15:12	46.1	37.5	0.0	16.4	110.5	111.4	9.1	8.3	-3.1	-3.1	-14.6
LCS-6B	2/20/2018 10:40	48.3	39.6	0.1	12.0	109.0	109.5	23.6	23.9	-1.7	-1.6	-13.3
LCS-6B	2/21/2018 8:47	44.0	38.2	0.5	17.3	96.0	96.0	6.7	8.2	-3.6	-3.7	-14.6
LCS-6B	2/21/2018 8:48	44.7	36.6	0.1	18.6	96.1	95.8	11.5	11.2	-3.1	-3.1	-14.6

February 2018 Wellfield Monitoring Data - Bridgeton Landfill												
Well Name	**Date Sampled**	**Methane**	**CO_2**	**O_2**	**Balance Gas**	**Init Temp**	**Adj Temp**	**Init Flow**	**Adj Flow**	**Init Static Press**	**Adj Static Press**	**System Pressure**
		(% vol)				**°F**		**scfm**		**H_2O**		
LCS-6B	2/26/2018 13:53	50.0	39.2	0.1	10.7	107.7	108.1	9.1	8.6	-2.0	-2.0	-13.2
LCS-6B	2/26/2018 13:55	48.2	39.5	0.0	12.3	106.4	106.7	25.4	21.9	-1.5	-1.5	-13.3
SEW-002	2/8/2018 13:24	10.8	61.2	0.6	27.4	57.2	57.2	7.3	6.7	-0.1	-0.1	-18.6
T-56	2/2/2018 9:52	22.1	25.8	0.1	52.0	42.5	42.5	10.0	10.1	0.0	0.0	-14.0
T-56	2/2/2018 9:55	22.1	26.2	0.1	51.6	42.5	42.7	10.0	8.8	0.0	0.0	-12.9
T-56	2/7/2018 8:52	45.7	34.6	0.0	19.7	38.9	39.8	11.2	11.1	0.1	0.1	-15.9
T-56	2/7/2018 8:55	46.0	34.0	0.0	20.0	41.5	42.4	15.8	17.2	-0.1	0.0	-15.6
T-56	2/12/2018 15:32	46.0	33.9	0.0	20.1	45.3	45.6	10.9	10.6	0.1	0.1	-14.5
T-56	2/12/2018 15:34	46.1	33.8	0.0	20.1	45.8	45.9	11.1	11.4	0.1	0.1	-14.4
T-56	2/13/2018 11:13	47.9	34.2	0.0	17.9	45.4	45.4	4.0	2.9	0.0	0.1	-14.7
T-56	2/13/2018 11:15	47.7	34.4	0.0	17.9	45.5	45.5	9.2	6.6	0.0	0.0	-14.4
T-56	2/14/2018 8:39	53.4	36.1	0.0	10.5	44.4	44.6	13.8	14.2	-0.1	0.0	-14.5
T-56	2/20/2018 11:07	35.0	30.9	0.5	33.6	51.3	51.3	15.9	15.8	-0.1	0.0	-13.2
T-56	2/26/2018 14:30	45.4	33.8	0.0	20.8	52.6	52.3	15.3	15.0	0.0	-0.1	-13.0

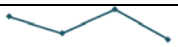
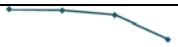
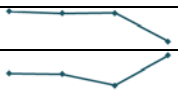
ATTACHMENT E-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

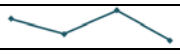
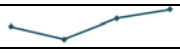
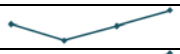
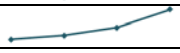
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	November 2017	December 2017	January 2018	Febrauary 2018	><30°F	
GEW-002	107.1	121.5	115.0	117.4		
GEW-003	111.4	111.5	110.2	114.0		
GEW-004	116.2	117.6	116.3	115.1		
GEW-005	89.4	90.5	88.4	91.7		
GEW-006	86.5	90.3	85.8	87.7		
GEW-007	91.5	85.4	87.7	83.2		
GEW-008	111.7	111.1	111.7	111.7		
GEW-009	121.8	122.4	124.5	118.9		
GEW-010	61.8	63.9	64.4	61.8		
GEW-013A	119.7	117.2	116.3	119.2		
GEW-015	183.1	182.1	166.1	165.2		
GEW-016R	183.3	182.1	180.3	180.2		
GEW-018B	171.0	165.2	163.8	165.4		
GEW-022R	92.5	56.0	79.4	60.8		
GEW-038	71.6	70.2	65.4	60.2		
GEW-039	106.5	100.1	117.6	119.4		
GEW-040	62.8	50.8	62	61.4		
GEW-041R	99.9	97.9	97.2	96.7		
GEW-042R	97.9	98.7	108.5	95.0		
GEW-043R	118.4	118.9	117.9	117.3		
GEW-044	85.6	88.0	89.3	84.0		
GEW-045R	87.7	72.6	76.8	86.1		
GEW-046R	97.0	99.6	92.4	90.8		
GEW-047R	103.8	110.0	109.5	113.5		
GEW-048	100.6	100.8	100.8	99.6		
GEW-049	106.5	106.2	106.3	103.8		
GEW-050	104.3	105.2	105.5	103.8		
GEW-051	122.1	123.7	123.4	122.1		
GEW-052	111.5	112.8	112.0	105.7		
GEW-053	137.1	139.0	139.9	136.6		
GEW-054	143.2	144.2	142.9	143.7		
GEW-055	132.6	135.0	140.9	134.1		
GEW-056R	96.5	88.4	90.3	87.0		
GEW-057B	55.5	64.0	61.4	55.5		
GEW-057R	69.5	61.5	59.9	40.5		
GEW-058	71.8	69.5	52.6	46.6		
GEW-058A	67.5	67.7	51.3	43.6		

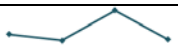
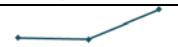
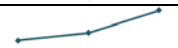
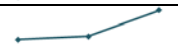
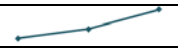
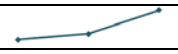
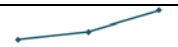
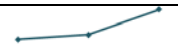
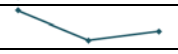
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	November 2017	December 2017	January 2018	Febrauary 2018	><30°F	
GEW-059R	161.1	157.3	162.1	162.9		
GEW-067A	151.7	94.8	111.5	93.6		
GEW-068A	179.7	173.1	174.2	174.2		
GEW-077	--	--	91.7	98.2		
GEW-078R	162.4	157.3	160.2	157.7		
GEW-081	80.0	50.4	68.6	63.7		
GEW-082R	177.5	178.6	178.6	176.9		
GEW-086	101.8	72.3	67.7	59.3		
GEW-087	128.6	111.2	136.2	105.0		
GEW-088	190.9	185.7	194.3	193.8		
GEW-090	162.6	152.9	157.7	146.3		
GEW-091	185.7	187.6	96.2	107.0		
GEW-100	57.8	45.2	62.8	49.1		
GEW-101	81.4	55.2	68.5	54.7		
GEW-102	62.3	36.4	60.2	44.8		
GEW-104	55.2	--	61.2	40.5		
GEW-105	78.9	133.3	--	--		
GEW-106	62.3	66.8	54.2	76.1		
GEW-107	62.9	114.3	113.2	113.1		
GEW-108	141.9	142.2	122.6	119.9		
GEW-109	78.4	72.6	105.2	90.6		
GEW-110	70.0	67.5	75.0	65.1		
GEW-113	157.3	155.1	152.9	151.7		
GEW-116	187.0	184.5	174.7	121.3		
GEW-117	132.9	117.6	99.6	93.1		
GEW-118	193.0	194.3	194.3	196.4		
GEW-120	162.9	164.7	164.3	160.3		
GEW-121	174.7	171.0	176.4	171.6		
GEW-122	157.7	156.0	160.2	186.3		
GEW-123	187.1	163.5	163.3	160.6		
GEW-124	75.2	48.5	71.0	60.7		
GEW-125	184.5	181.6	174.1	171.1		
GEW-126	86.6	53.4	84.8	75.7		
GEW-127	190.2	177.5	166.1	154.0		
GEW-128	171.0	168.5	169.1	136.8		
GEW-129	146.2	145.2	130.1	170.0		
GEW-130	168.5	178.7	180.0	180.9		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	November 2017	December 2017	January 2018	Febrauary 2018	><30°F	
GEW-131	164.4	163.3	165.2	160.2		
GEW-132	195.7	186.4	152.5	174.7		
GEW-133	159.4	151.7	61.4	58.0		
GEW-134	129.2	122.9	122.9	117.0		
GEW-135	153.3	154.8	155.6	153.3		
GEW-136	134.8	128.6	101.1	114.3		
GEW-137	79.5	70.8	62.6	64.4		
GEW-138	121.5	103.5	132.1	95.8		
GEW-139	168.5	147.3	147.0	147.3		
GEW-140	75.9	51.8	117.3	116.4		
GEW-141	--	--	--	51.8		
GEW-142	76.6	44.2	62.4	47.0		
GEW-143	77.1	44.4	63.5	56.4		
GEW-144	--	23.2	63.1	45.6		
GEW-145	60.4	36.3	59.0	87.4		
GEW-146	87.8	86.1	82.6	80.5		
GEW-147	174.2	183.9	183.3	181.2		
GEW-148	51.7	76.0	61.6	58.5		
GEW-149	98.5	118.6	96	113.5		
GEW-150	116.0	63.7	149.2	186.4		
GEW-151	122.6	86.8	151.3	156.9		
GEW-152	125.0	122.9	115.3	115.5		
GEW-153	81.5	103.9	61.8	44.0		
GEW-154	88.5	70.9	61.1	43.4		
GEW-155	112.0	92.4	90.8	102.3		
GEW-156	87.2	93.1	80.5	69.7		
GEW-157	68.4	--	60.7	124.5		
GEW-158	96.3	106.9	129.7	182.1		
GEW-159	102.3	72.5	54.0	59.1		
GEW-160	48.8	83.2	51.9	44.3		
GEW-161	47.4	63.6	42.8	48.2		
GEW-162	69.6	64.1	74.6	67.9		
GEW-163	178.7	185.0	192.9	189.0		
GEW-164	167.6	164.8	152.9	156.5		
GEW-165	183.9	183.3	183.9	182.1		
GEW-166	195.7	195.0	192.9	194.3		
GEW-167	191.7	192.9	194.8	189.6		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	November 2017	December 2017	January 2018	Febrauary 2018	><30°F	
GEW-168	181.6	178.6	180.9	172.1		
GEW-169	193.6	190.9	186.7	188.3		
GEW-170	168.1	165.7	167.1	189.6		
GEW-171	--	--	--	80.7		
GEW-172	80.0	46.1	65.8	56.3		
GEW-173	98.4	86.5	97.4	95.5		
GEW-174	152.9	144.9	144.5	143.5		
GEW-175	124.4	123.1	116.9	113.7		
GEW-176	69.0	65.6	54.7	59.2		
GEW-177	80.7	50.8	194.3	54.6		
GEW-178	--	47.3	44.0	105.4		
GEW-179	--	28.5	38.5	68.6		
GEW-180	--	29.0	38.6	118.1		
GEW-181	--	28.7	72.6	169.0		
GEW-182	--	30.6	162.4	173.9		
GEW-184	--	58.0	68.7	112.7		
GEW-185	--	136.2	151.3	161.9		
GEW-186	--	42.1	67.7	141.5		
GEW-187	--	75.9	90.8	174.8		
GEW-188	--	183.9	63.3	99.9		
GEW-1A	71.1	64.4	63.5	72.7		
GEW-2S	72.8	65.5	62.2	64.7		
GIW-01	173.1	179.7	171.6	175.8		
GIW-02	70.9	67.7	64.9	68.4		
GIW-03	65.8	65.7	60.3	62.3		
GIW-04	69.5	66.2	64.2	63.3		
GIW-05	70.4	67.4	63.0	61.4		
GIW-06	73.4	69.3	62.6	60.9		
GIW-07	78.0	70.2	63.5	59.4		
GIW-08	74.5	71.6	66.8	65.5		
GIW-09	73.8	70.7	65.0	61.4		
GIW-10	72.5	67.7	64.9	60.7		
GIW-11	67.9	68.1	65.4	62.8		
GIW-12	60.1	64.5	63.7	62.9		
GIW-13	65.0	63.8	65.1	62.3		
LCS-1D	69.8	64.5	75.2	85.1		
LCS-2D	--	--	--	--		
LCS-4B	--	--	--	--		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	November 2017	December 2017	January 2018	Febrauary 2018	><30°F	
LCS-5A	84.1	82.4	82.6	80.0		
LCS-5B	--	--	--	146.4		
LCS-6B	104.2	148.0	123.1	121.3		
PGW-60	83.7	100.9	--	--		
SEW-002	111.7	57.3	53.2	57.2		
T-56	60.7	55.7	47.0	52.6		

-- = Indicates no data available.

ATTACHMENT F

SETTLEMENT FRONT MAP

Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	
2	-4.00	-3.00	0.00	
3	-3.00	-2.00	0.00	
4	-2.00	-1.00	155.88	
5	-1.00	0.00	1,168,955.02	
6	0.00	1.00	358,970.50	

LEGEND

- 12-2-2016 TOPOGRAPHY (2' CONTOUR)
- 500 — 12-2-2016 TOPOGRAPHY (10' CONTOUR)
- .25 — MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
- .50 — MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
- -.03 — SPOT ELEVATION DIFFERENCE (TO 1-15-2018 to 2-16-2018)
- *2–2018 — *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.44' PER 32 DAYS FOR CURRENT PERIOD OF DAYS

*NONE FOR FEBRUARY 2018

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 1, 2017.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 12-15-17 FROM SPOT ELEVATIONS SURVEYED ON 2-16-18.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

0 200 400 Feet

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK RD
BRIDGETON, MO 63044

BRIDGETON LANDFILL
SETTLEMENT MONITORING

SETTLEMENT MAP 1/15/2018 - 2/16/2018

PROJECT NUMBER: BT-145 | FILE PATH: C:\Users\plins\Dropbox (Feezor Engineering)\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Monthly Reports\02-2018 Report\Internal Draft\Draft Site Data\Settlement\3_deliverables\Settlement And Fill 2-16-18.dwg

Engineering for a Better World
FEEZOR ENGINEERING, INC.

REVISION	DATE

FEBRUARY 2018
DESIGNED BY: PML
APPROVED BY: DRF

DRAWING NO.: 001

ATTACHMENT G

SUMMARY OF ODOR COMPLAINTS

February 1, 2018 – February 28, 2018 / MDNR ODOR COMPLAINTS

Name: Traci Vette

Message: Odor logged February 17, 2018, at 8:15 pm strength of 9

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. This concern was reported over 3 hours after the observation time so real time follow-up was not possible. Odor patrols performed before and after the time cited in this concern did not observe Bridgeton Landfill odor. At the time cited in this concern winds were of a western origin placing this location outside the downwind pathway of the Bridgeton Landfill. There is no evidence to suggest that this was a Bridgeton Landfill odor.

Name: Jamie Crawford

Message: Odor logged February 17, 2018, at 6:05 pm strength of 7

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. This concern was reported over 25 hours after the observation time so real time follow-up was not possible. Odor patrols performed before and after the time cited in this concern did not observe Bridgeton Landfill odor. This location is in close proximity to another known odor source with frequent off-site odor emissions. There is no evidence to suggest that this was a Bridgeton Landfill odor.

Name: Ronnique

Message: Odor logged February 20, 2018, at 4:50 am strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. An odor patrol performed within an hour before the time cited in this concern did not observe Bridgeton Landfill odor. An odor patrol performed after the time cited in this concern did not observe Bridgeton Landfill odor. There is no evidence to suggest that this was a Bridgeton Landfill odor.

Name: Nick Dougherty

Message: Odor logged February 26, 2018, at 5:30 pm strength of 6

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. No odor was observed at this location within an hour of the time cited in this concern. A skunk odor was observed within close proximity to this location within an hour of the time cited in this concern. An odor patrol performed concurrently with the time cited in this concern did not observe Bridgeton Landfill odor. There is no evidence to suggest that this was a Bridgeton Landfill odor.

ATTACHMENT H

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant

February 2018

Liquid Characterization Data

Liquid characterization data is made available to MDNR on an ongoing basis. No additional lechate characterization data, beyond that produced for MSD, was collected during the prior month.

Hauled Disposal to MSD – Bissell Point

Date	Waste	Source	Transporter	Quantity
2/1/2018	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
2/2/2018				0
2/3/2018				0
2/4/2018				0
2/5/2018				0
2/6/2018				0
2/7/2018				0
2/8/2018				0
2/9/2018				0
2/10/2018				0
2/11/2018				0
2/12/2018				0
2/13/2018				0
2/14/2018				0
2/15/2018				0
2/16/2018				0
2/17/2018				0
2/18/2018				0
2/19/2018				0
2/20/2018				0
2/21/2018				0
2/22/2018				0
2/23/2018				0
2/24/2018				0
2/25/2018				0
2/26/2018				0
2/27/2018				0
2/28/2018				0
			Total	**0**

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
2/1/2018	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	117,660
2/2/2018			145,096
2/3/2018			135,608
2/4/2018			132,968
2/5/2018			132,696
2/6/2018			80,632
2/7/2018			67,320
2/8/2018			69,160
2/9/2018			50,968
2/10/2018			81,600
2/11/2018			61,816
2/12/2018			83,632
2/13/2018			160,368
2/14/2018			142,016
2/15/2018			146,688
2/16/2018			137,760
2/17/2018			128,256
2/18/2018			119,160
2/19/2018			127,744
2/20/2018			165,528
2/21/2018			172,528
2/22/2018			147,888
2/23/2018			152,120
2/24/2018			203,808
2/25/2018			252,888
2/26/2018			197,016
2/27/2018			169,296
2/28/2018			128,208
		Total	**3,710,428**

ATTACHMENT I

LOW FILL PROJECT AREA

ATTACHMENT I-1

LOW FILL AREA BOUNDARY

LEGEND

BOUNDARY OF FILL AREA FOR 1-15-2018 THROUGH 2-16-2018

(NOTE: NO FILL WAS PLACED BETWEEN 1-15-2018 AND 2-16-2018)

NOTES:

1. SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 1, 2017.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. SURVEY POINTS WERE PERFORMED USING GPS METHODS.

N

0 350 700 Feet

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK RD
BRIDGETON, MO 63044

BRIDGETON LANDFILL
SETTLEMENT MONITORING

LOW FILL AREA BOUNDARY 1/15/2018 - 2/16/2018

PROJECT NUMBER: BT-145

FILE PATH: C:\Users\plins\Dropbox (Feezor Engineering)\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Monthly Reports\02-2018 Report\Internal Draft\Draft Site Data\Settlement\3_deliverables\Settlement And Fill 2-16-18.dwg

Engineering for a Better World
FEEZOR ENGINEERING, INC.

FEBRUARY 2018
DESIGNED BY: PML
APPROVED BY: DRF

REVISION	DATE

DRAWING NO.:
002