

Bridgeton Landfill, LLC

Monthly Data Submittals

November 2018

**Required by Section IX.f of Final Consent Judgement, Case No. 13SL-
CC01088-01**

Effective June 29, 2018

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Provided Separately:

- Flare Raw Data Excel Spreadsheet
- Gas Wellfield Raw Data Excel Spreadsheet

December 20, 2018

Commentary on Data

December 20, 2018

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

Gas Volume

- As presented in Attachment B-1, the gas collection volumetric rate for this month averaged 303 SCFM from the North Quarry and 842 SCFM from the South Quarry, for a total site flow of 1,145 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.

Gas Quality

- Attachments D and E present the monthly data related to gas quality as measured at the respective wellheads.
- Attachment E-1 presents vertical wells which exhibited oxygen levels over 5% during one (1) or more weekly monitoring events during this reporting period. These consisted of 30 GEW wells that are experiencing low or restricted flows, one (1) leachate collection sump (LCS), and three (3) GIW wells that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 22 of the GEW wells, 1 of the LCS, and 3 of the GIW wells still exhibited oxygen levels at or greater than 5% at the wellhead. All of these wells are low-flow/vacuum sensitive wells with valves that are only slightly open. On-going tuning, maintenance, and pump operation are being performed to manage the oxygen content.
- Attachment E-2 presents gas temperatures as measured at the wellheads. Four (4) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. Additionally, twenty-four (24) vertical wells (excluding GIW wells) decreased by 30°F or more.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (145.9°F) Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (70 ppm) and GEW-055 (33 ppm) consistent with past events.
- Site personnel are performing a comprehensive wellfield investigation to optimize landfill gas collection and control (GCCS). Wells that have previously been decommissioned due to excessive moisture and/or dangerous conditions have been reviewed and monitored to determine if the wells have obstructions that would prohibit pump installation and would therefore preclude leachate and landfill gas collection. Wells with identified downhole integrity issues will be scheduled for abandonment during the upcoming GCCS system expansion event. Wells with no identified downhole integrity issues and which are no longer exhibiting excessive moisture and/or dangerous conditions have been brought back online. Wells with no

identified downhole integrity issues but which still exhibit excessive moisture and/or dangerous conditions will remain decommissioned until conditions at the location improve. This investigation will continue through the end of Fourth Quarter 2018, and wellfield expansion and abandonment activities will be reported in the quarterly Landfill Gas Corrective Action Update.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.38 feet over 31 days during this reporting period (see Attachment E).

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.

Natural Gas Usage

- Natural gas was not used as a supplemental fuel for the destruction of landfill gas in the previous month. The requirements for landfill gas destruction under 40 CFR 60 Subpart WWW were achieved by meeting the provisions of 40 CFR 60 Subpart A under §60.18 for non-assisted flares.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

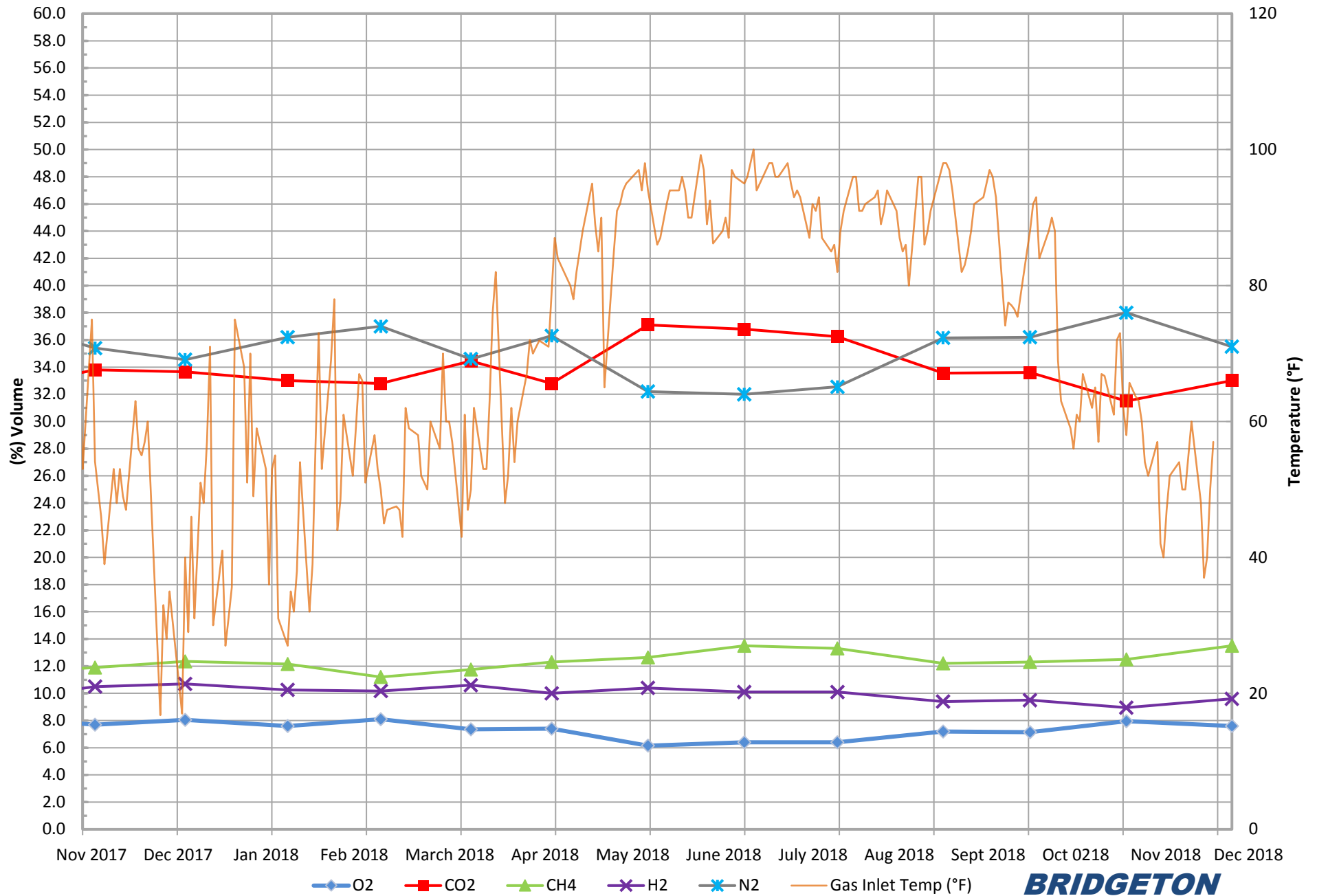
Daily Flare Monitoring Data - Bridgeton Landfill
November 2018

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***	
11/1/2018	0	853	0	313	1,166
11/2/2018	0	646	0	230	876
11/3/2018	0	784	0	304	1,088
11/4/2018	0	820	0	297	1,118
11/5/2018	0	803	0	291	1,094
11/6/2018	0	779	0	297	1,076
11/7/2018	0	819	0	296	1,115
11/8/2018	0	829	0	298	1,127
11/9/2018	0	809	0	310	1,119
11/10/2018	0	826	0	316	1,142
11/11/2018	0	821	0	327	1,148
11/12/2018	0	808	0	298	1,106
11/13/2018	0	804	0	303	1,107
11/14/2018	0	823	0	334	1,157
11/15/2018	0	818	0	336	1,154
11/16/2018	0	814	0	327	1,141
11/17/2018	0	804	0	315	1,119
11/18/2018	0	793	0	316	1,109
11/19/2018	0	872	0	316	1,188
11/20/2018	0	941	0	298	1,239
11/21/2018	0	990	0	308	1,298
11/22/2018	0	984	0	301	1,285
11/23/2018	0	967	0	304	1,271
11/24/2018	0	959	0	289	1,248
11/25/2018	0	807	0	296	1,103
11/26/2018	0	910	0	298	1,208
11/27/2018	0	912	0	304	1,216
11/28/2018	0	870	0	301	1,172
11/29/2018	0	911	0	280	1,192
11/30/2018	32	635	22	293	982
AVERAGE	1	840	1	303	1,145
* 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 A-2

FLOW DATA GRAPHS

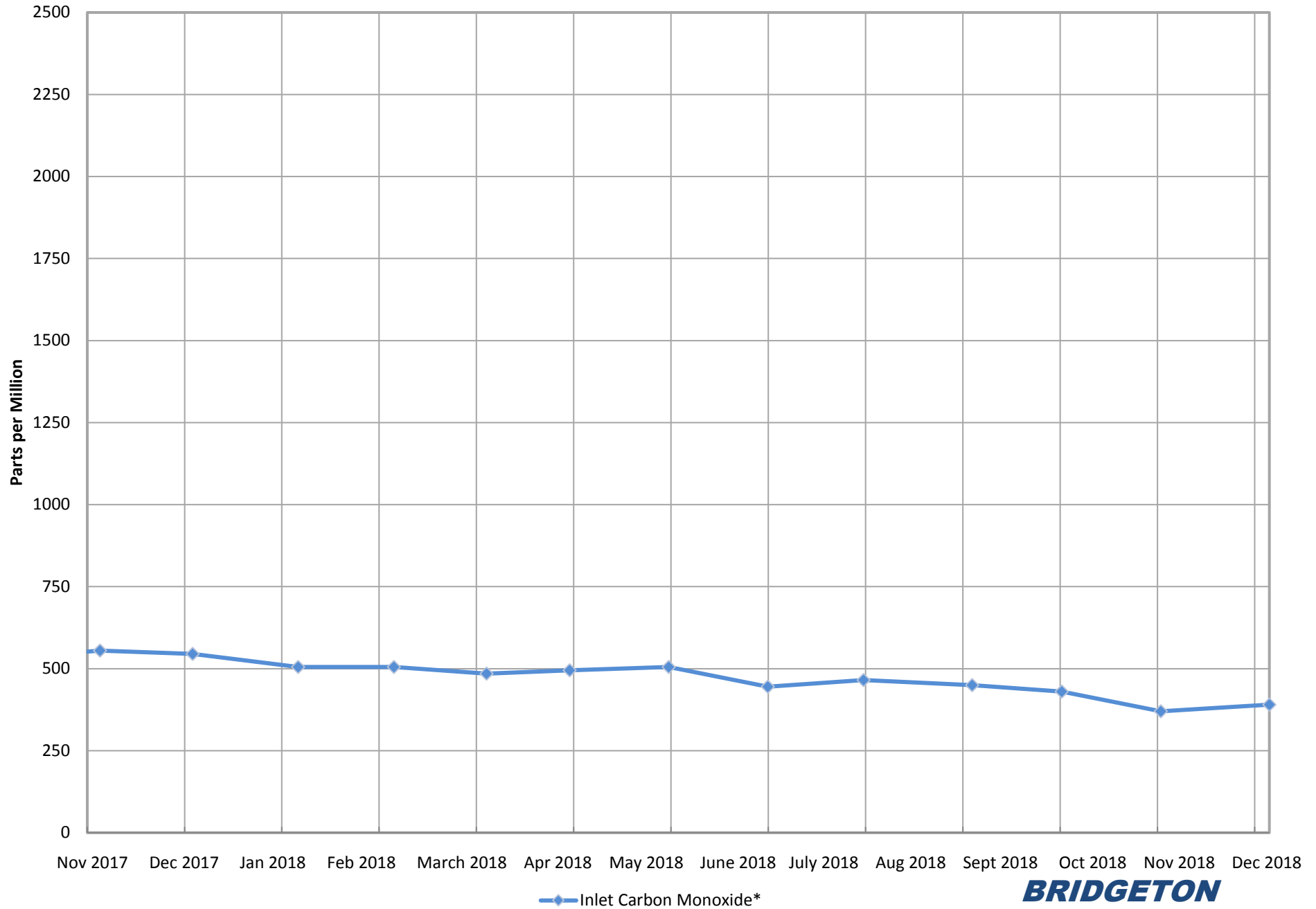
South Quarry Inlet Gas and Temperature*



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

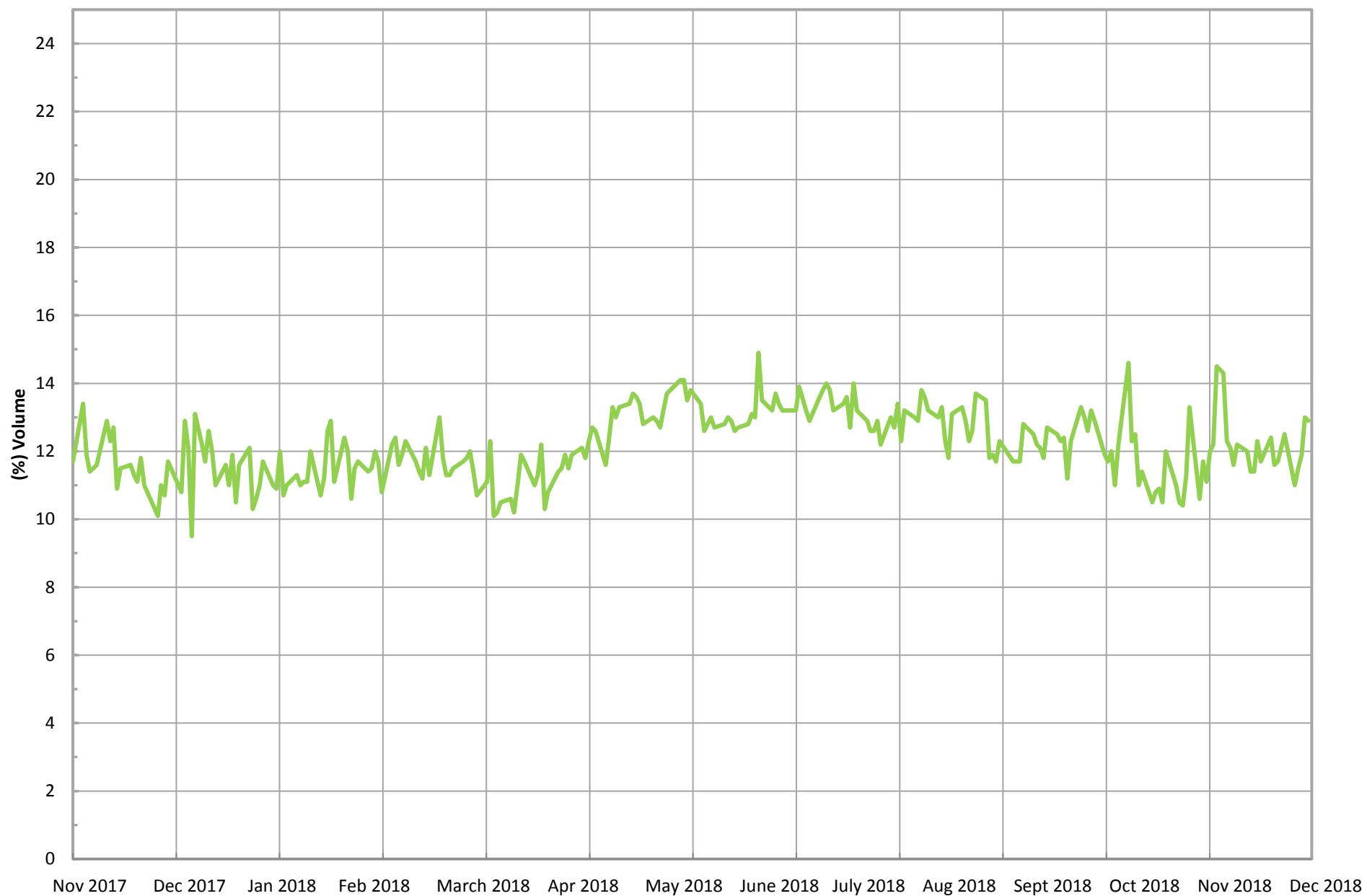
South Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the South

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South Quarry Inlet Methane (Field Data)*

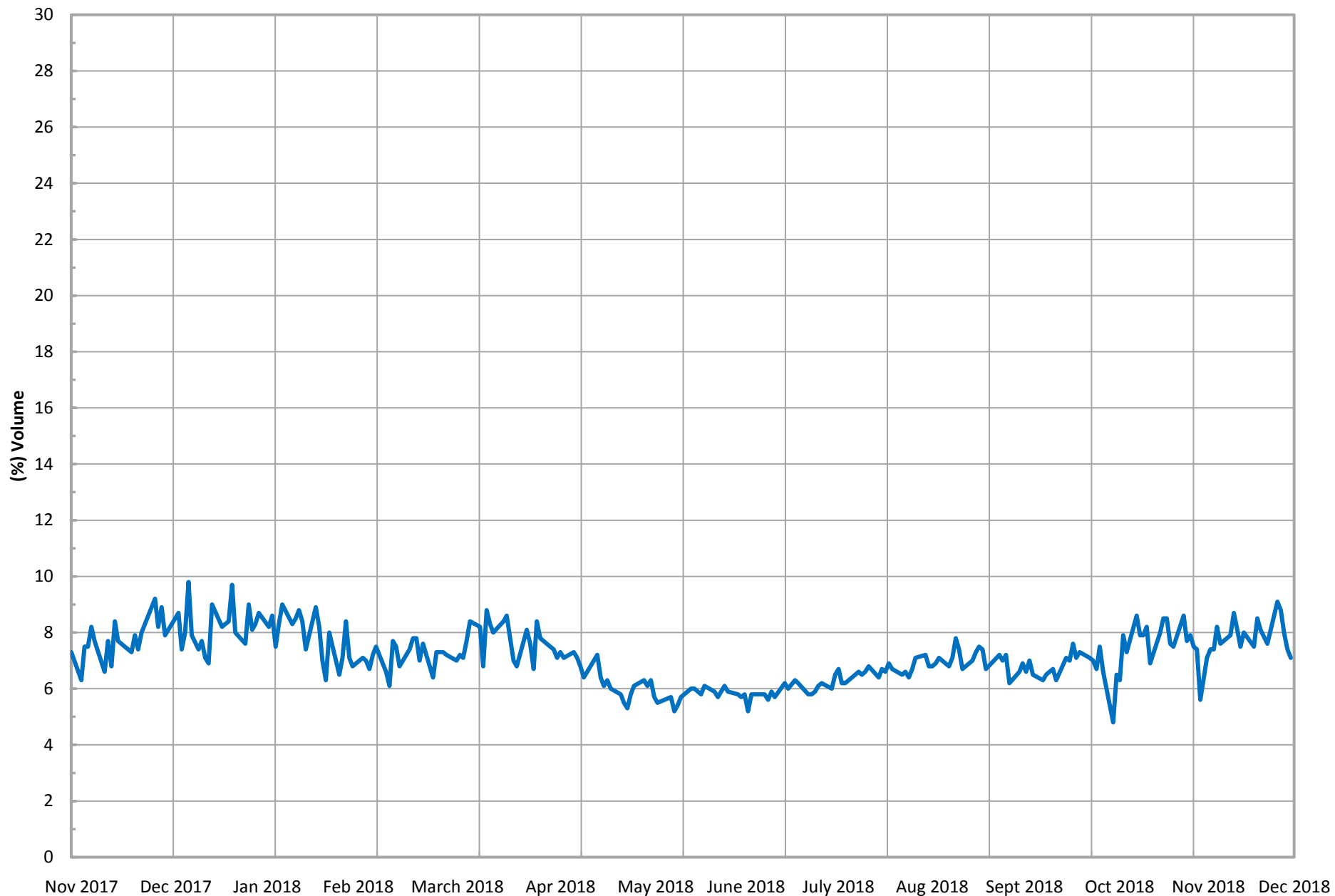


*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Methane (Field Data)*

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South Quarry Inlet Oxygen (Field Data)*

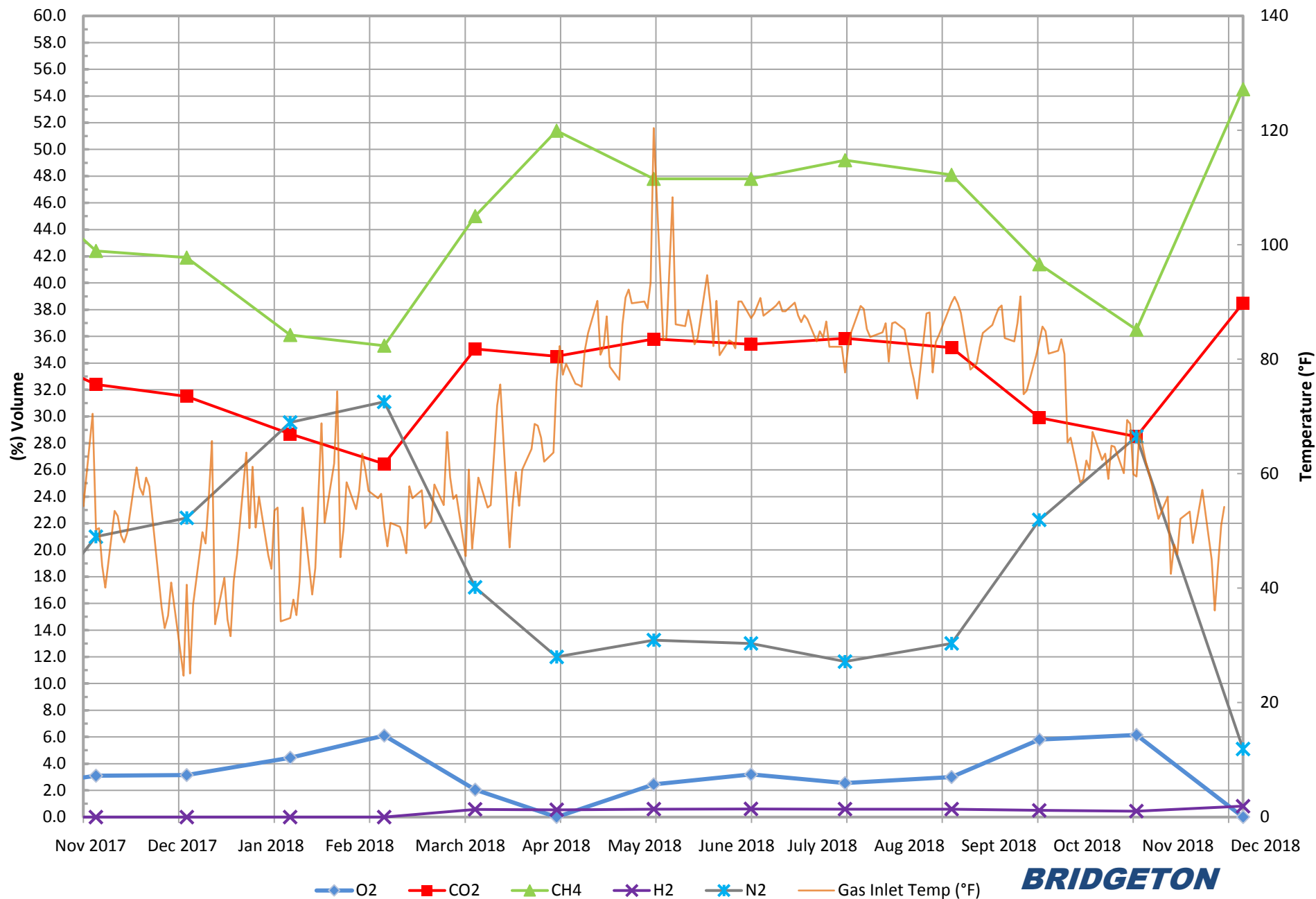


*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Oxygen (Field Data)*

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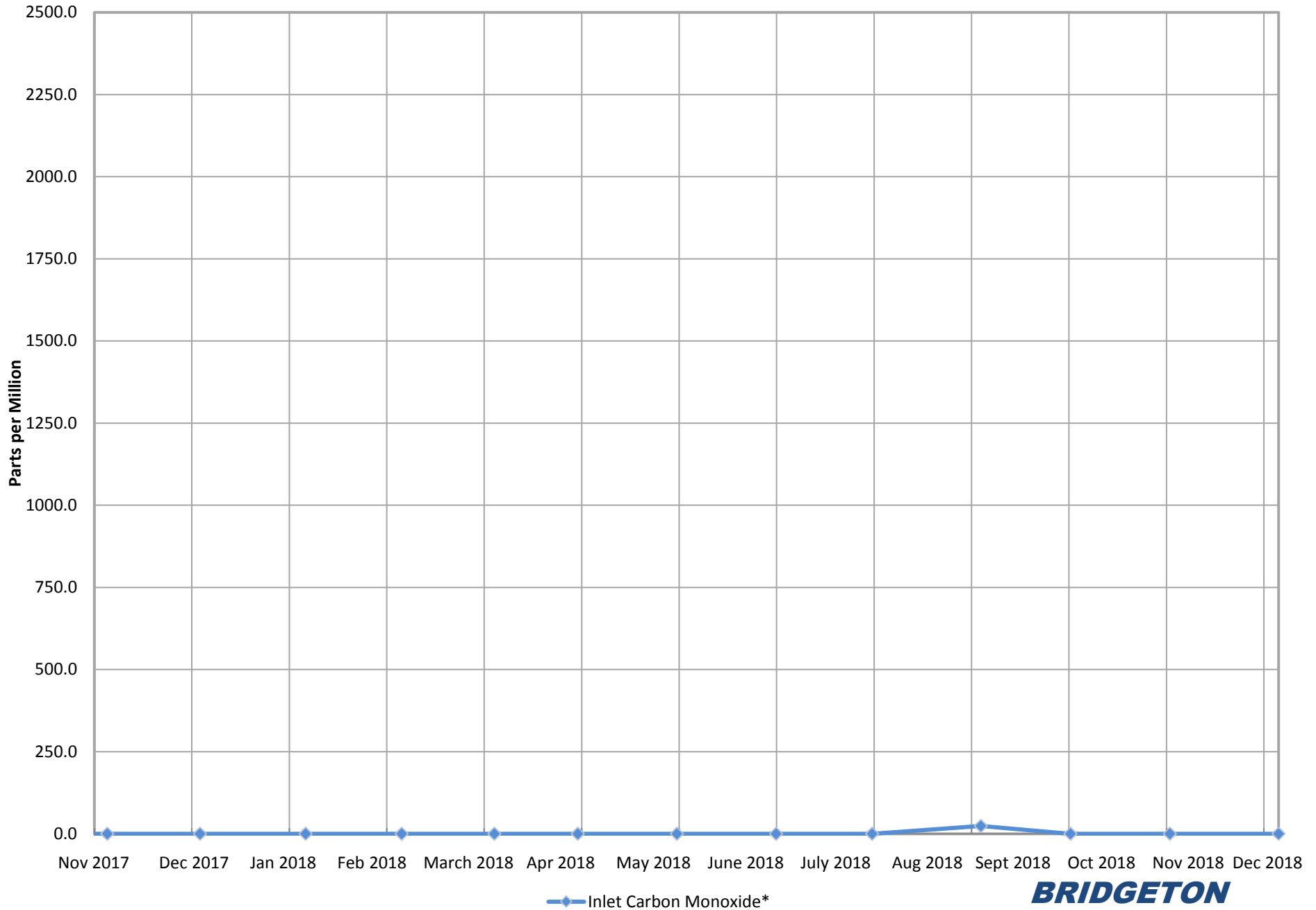
North Quarry Inlet Gas and Temperature*



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

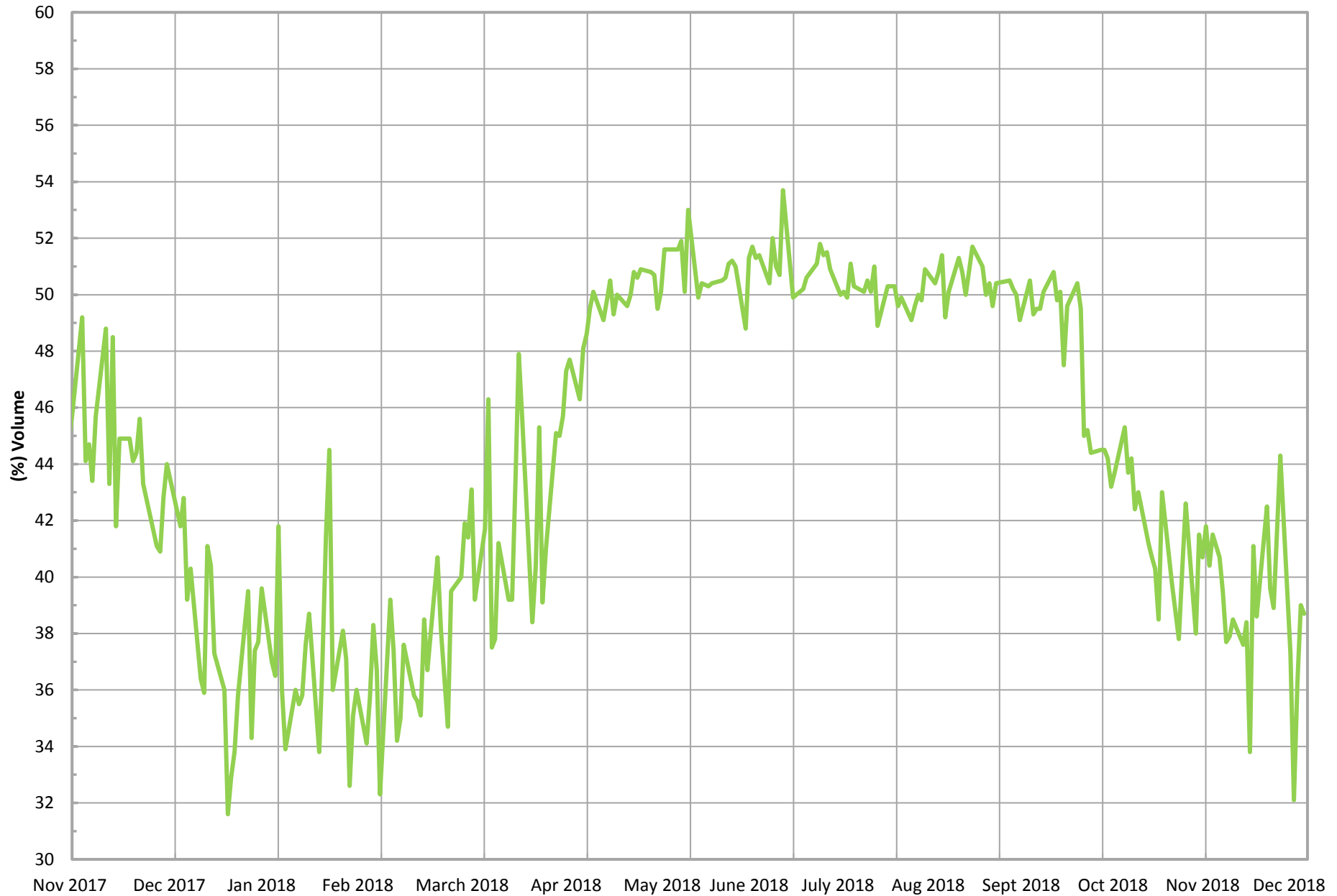
North Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the North

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North Quarry Inlet Methane (Field Data)*

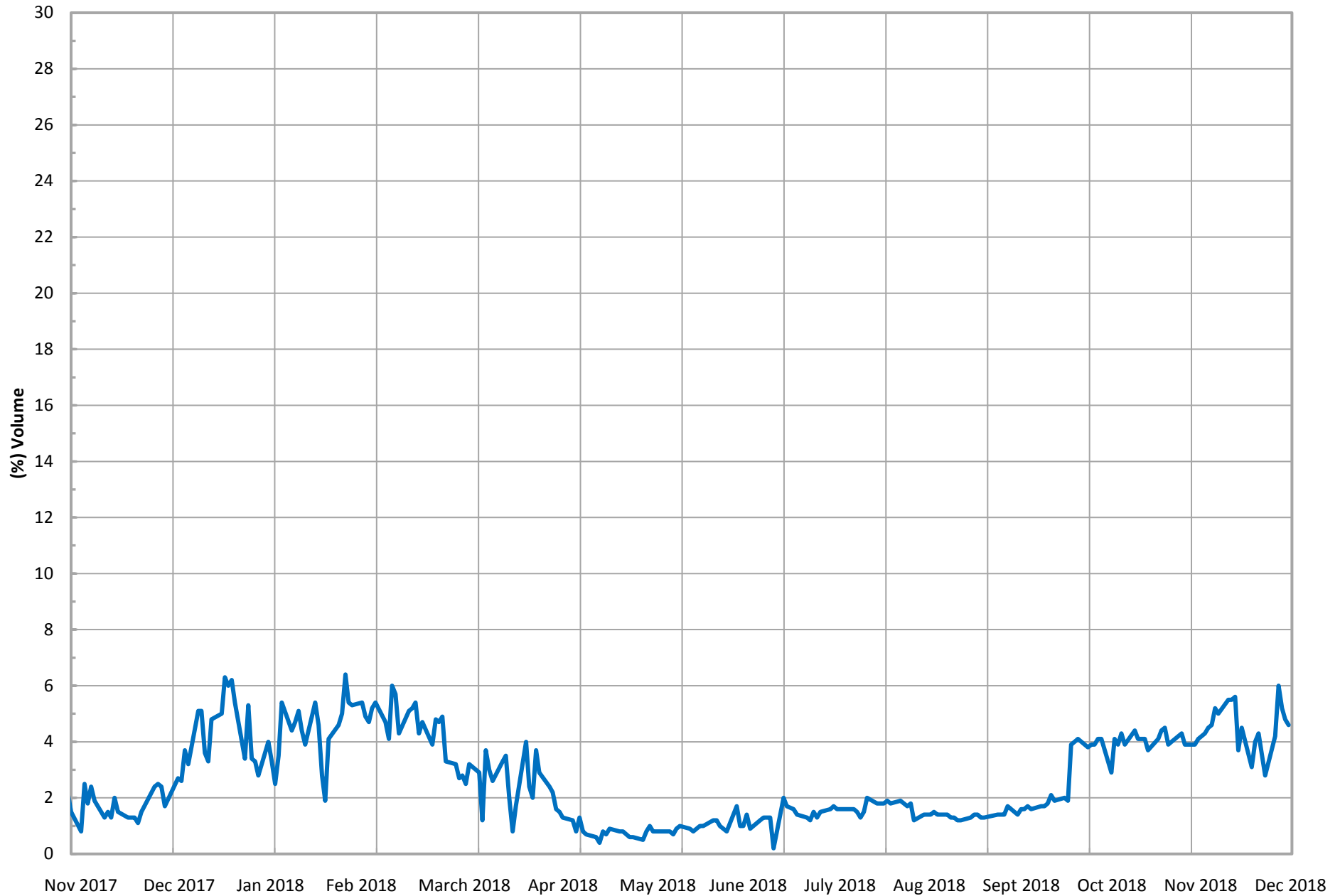


*Gas data collected from field monitoring data in the North Quarry.

— Combined Inlet Methane (Field Data)*

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North Quarry Inlet Oxygen (Field Data)*

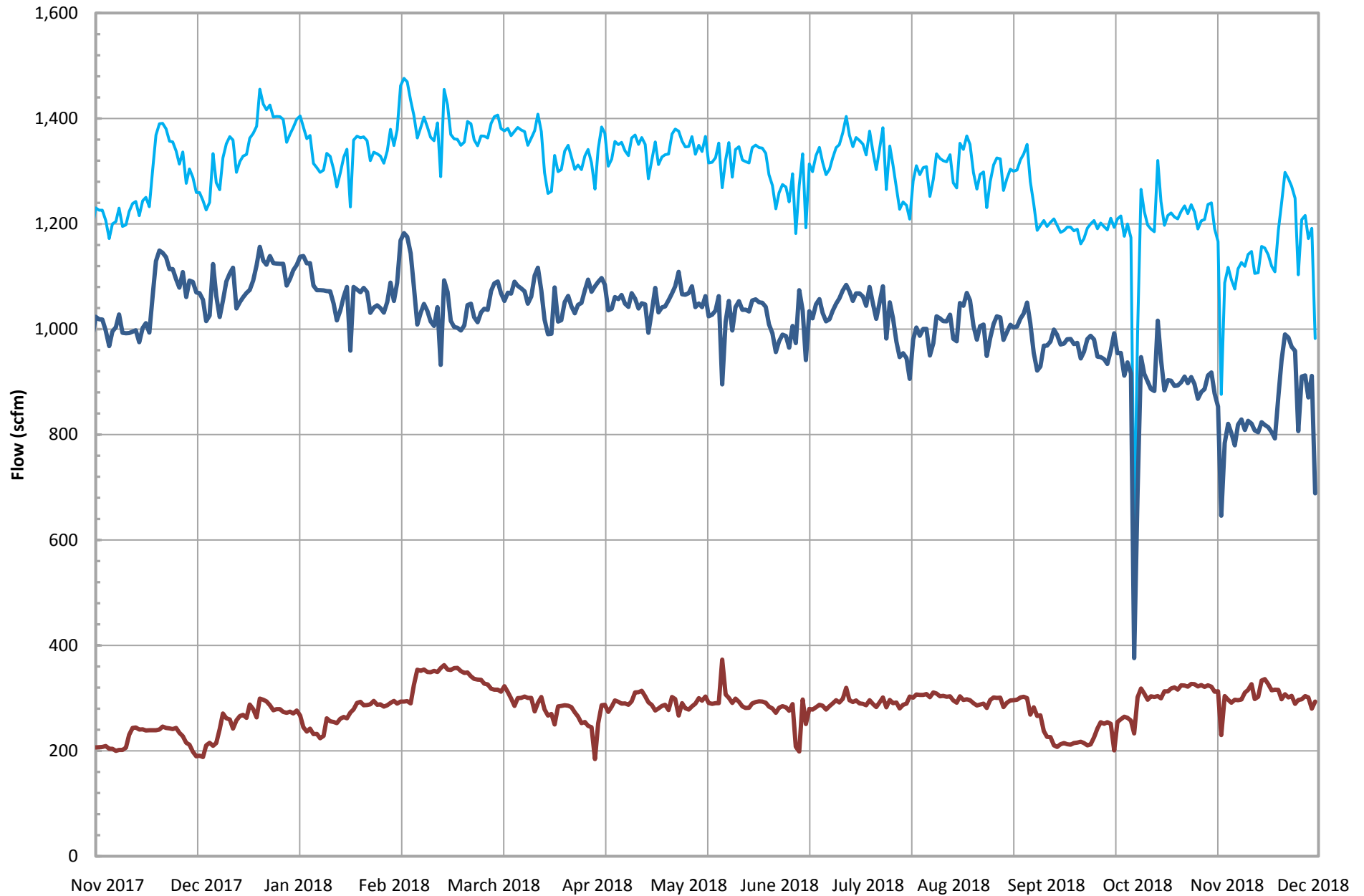


*Gas data collected from field monitoring data in the North Quarry.

— Combined Inlet Oxygen (Field Data)*

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Total Combined Flow (scfm)*



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

— Total Combined Flow (scfm)*
— SQ Flare Station Total Utility Flare Flow
— NQ Utility Flare

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ATTACHMENT B

WELL CONDITON/STATUS REPORT

November 2018		
ID	Well Condition	Comments
GEW-2	Operational	
GEW-2S	Operational	
GEW-3	Operational	
GEW-4	Operational	
GEW-5	Operational	
GEW-6	Operational	
GEW-7	Operational	
GEW-8	Operational	
GEW-9	Operational	
GEW-10	Operational	
GEW-13A	Operational	
GEW-15	Operational	
GEW-16R	Operational	
GEW-18B	Operational	
GEW-19A	Operational	
GEW-22R	Operational	
GEW-38	Non-Operational	Abandoned
GEW-39	Operational	
GEW-40	Operational	
GEW-41R	Operational	
GEW-42R	Operational	
GEW-43R	Operational	
GEW-44	Operational	
GEW-45R	Operational	
GEW-46R	Operational	
GEW-47R	Operational	
GEW-48	Operational	
GEW-49	Operational	
GEW-50	Operational	
GEW-51	Operational	
GEW-52	Operational	
GEW-53	Operational	
GEW-54	Operational	
GEW-55	Operational	
GEW-56R	Operational	
GEW-57B	Operational	
GEW-57R	Non-Operational	Abandoned
GEW-58	Non-Operational	Abandoned
GEW-58A	Operational	
GEW-59R	Operational	
GEW-67A	Operational	
GEW-68A	Operational	
GEW-77	Non-Operational	Abandoned
GEW-78R	Operational	

November 2018		
ID	Well Condition	Comments
GEW-82R	Operational	
GEW-86	Operational	
GEW-87	Operational	
GEW-88	Operational	
GEW-90	Operational	
GEW-91	Operational	
GEW-100	Operational	
GEW-101	Operational	
GEW-102	Operational	
GEW-104	Operational	
GEW-105	Operational	
GEW-106	Operational	
GEW-107	Operational	
GEW-108	Operational	
GEW-109	Operational	
GEW-110	Operational	
GEW-113	Operational	
GEW-116	Operational	
GEW-117	Operational	
GEW-118	Operational	
GEW-120	Operational	
GEW-121	Operational	
GEW-122	Operational	
GEW-123	Operational	
GEW-124	Operational	
GEW-125	Operational	
GEW-126	Operational	
GEW-127	Operational	
GEW-128	Operational	
GEW-129	Operational	
GEW-130	Operational	
GEW-131	Operational	
GEW-132	Operational	
GEW-133	Operational	
GEW-134	Operational	
GEW-135	Operational	
GEW-136	Non-Operational	Abandoned
GEW-137	Operational	
GEW-138	Operational	
GEW-139	Operational	
GEW-140	Operational	
GEW-141	Non-Operational	Abandoned
GEW-142	Non-Operational	Abandoned
GEW-143	Non-Operational	Abandoned

November 2018		
ID	Well Condition	Comments
GEW-144	Operational	
GEW-145	Operational	
GEW-146	Non-Operational	Abandoned
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	
GEW-154	Non-Operational	Decommissioned
GEW-155	Operational	
GEW-156	Operational	
GEW-157	Operational	
GEW-158	Operational	
GEW-159	Operational	
GEW-160	Operational	
GEW-161	Operational	
GEW-162	Operational	
GEW-163	Operational	
GEW-164	Operational	
GEW-165	Operational	
GEW-166	Operational	
GEW-167	Operational	
GEW-168	Operational	
GEW-169	Operational	
GEW-170	Operational	
GEW-171	Operational	
GEW-172	Operational	
GEW-173	Operational	
GEW-174	Operational	
GEW-175	Operational	
GEW-176	Operational	
GEW-177	Operational	
GEW-178	Operational	
GEW-179	Operational	
GEW-180	Operational	
GEW-181	Operational	
GEW-182	Operational	
GEW-184	Operational	
GEW-185	Operational	
GEW-186	Operational	
GEW-187	Operational	
GEW-188	Operational	

November 2018		
ID	Well Condition	Comments
GEW-217	Operational	
GEW-218	Operational	
GEW-219	Operational	
GEW-220	Operational	
GEW-221	Operational	
GEW-222	Operational	
GEW-223	Operational	
GEW-224	Operational	
GEW-225	Operational	
GEW-226	Operational	
GEW-227	Operational	
GEW-228	Operational	
GEW-229	Operational	
GEW-230	Operational	
GEW-231	Operational	
GIW-1	Operational	
GIW-2	Operational	
GIW-3	Operational	
GIW-4	Operational	
GIW-5	Operational	
GIW-6	Operational	
GIW-7	Operational	
GIW-8	Operational	
GIW-9	Operational	
GIW-10	Operational	
GIW-11	Operational	
GIW-12	Operational	
GIW-13	Operational	

ATTACHMENT C

LABORATORY DATA

ATTACHMENT C-1

LABORATORY ANALYSES 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	7/5/2018	56	42	ND	ND	ND	ND	
GEW-002	8/8/2018	56	41	ND	ND	ND	ND	
GEW-002	9/6/2018	57	39	ND	ND	ND	ND	
GEW-002	10/4/2018	48	35	3.7	14	ND	ND	See Note 3
GEW-002	11/15/2018	59	38	ND	ND	ND	ND	
GEW-02S	7/5/2018	57	34	2.1	7.4	ND	ND	See Note 4
GEW-02S	8/8/2018	59	36	ND	3.9	ND	ND	
GEW-02S	9/6/2018	58	31	2.4	9.0	ND	ND	See Note 3
GEW-02S	10/4/2018	59	36	ND	4.2	ND	ND	
GEW-02S	11/13/2018	53	36	2.6	9.0	ND	ND	See Note 3
GEW-003	7/5/2018	54	40	ND	4.9	0.052	ND	
GEW-003	8/8/2018	50	39	ND	10	ND	ND	
GEW-003	9/6/2018	48	36	2.2	15	ND	ND	See Note 3
GEW-003	11/15/2018	58	38	ND	ND	ND	ND	
GEW-004	7/5/2018	56	39	ND	4.7	0.077	ND	
GEW-004	8/8/2018	55	39	ND	5.3	0.072	ND	
GEW-004	9/6/2018	57	39	ND	4.0	0.035	ND	
GEW-004	10/4/2018	57	40	ND	ND	ND	ND	
GEW-004	11/15/2018	56	38	ND	5.1	0.077	ND	
GEW-005	7/5/2018	52	32	2.2	14	ND	ND	See Note 3
GEW-005	8/8/2018	52	34	ND	13	ND	ND	
GEW-005	9/7/2018	54	34	ND	10	ND	ND	
GEW-005	10/5/2018	55	36	ND	8.4	ND	ND	
GEW-005	11/15/2018	59	37	ND	3.8	ND	ND	
GEW-006	7/5/2018	58	37	ND	4.9	ND	ND	
GEW-006	8/8/2018	56	37	ND	6.5	ND	ND	
GEW-006	9/7/2018	58	37	ND	4.4	ND	ND	
GEW-006	10/5/2018	57	37	ND	4.4	ND	ND	
GEW-006	11/15/2018	54	35	ND	9.3	ND	ND	
GEW-007	7/3/2018	58	39	ND	ND	ND	ND	
GEW-007	8/6/2018	58	39	ND	ND	ND	ND	
GEW-007	9/4/2018	56	38	ND	4.3	ND	ND	
GEW-007	10/2/2018	58	39	ND	ND	ND	ND	
GEW-007	11/14/2018	60	38	ND	ND	ND	ND	
GEW-008	7/3/2018	52	44	ND	ND	1.4	ND	
GEW-008	8/6/2018	53	43	ND	ND	1.6	ND	
GEW-008	9/4/2018	53	43	ND	ND	1.3	ND	
GEW-008	10/4/2018	54	43	ND	ND	0.048	ND	
GEW-008	11/14/2018	56	41	ND	ND	1.0	ND	
GEW-009	7/3/2018	53	40	ND	4.9	0.67	ND	
GEW-009	8/8/2018	55	41	ND	ND	0.71	ND	
GEW-009	9/6/2018	53	40	ND	5.4	0.56	ND	
GEW-009	10/4/2018	53	40	ND	4.9	0.46	ND	
GEW-009	11/14/2018	54	39	ND	5.2	0.77	ND	
GEW-040	7/3/2018	57	35	ND	6.0	ND	ND	
GEW-040	8/7/2018	57	36	ND	5.4	ND	ND	
GEW-040	9/5/2018	57	36	ND	6.1	ND	ND	
GEW-040	10/4/2018	59	37	ND	3.9	ND	ND	
GEW-040	11/14/2018	52	30	3.4	15	ND	ND	See Note 3
GEW-041R	7/3/2018	59	36	ND	3.6	ND	ND	
GEW-041R	8/7/2018	56	37	ND	5.3	ND	ND	
GEW-041R	9/6/2018	58	37	ND	4.5	ND	ND	
GEW-041R	10/4/2018	60	37	ND	ND	ND	ND	
GEW-041R	11/15/2018	57	36	ND	6.3	ND	ND	
GEW-042R	7/3/2018	55	38	ND	5.6	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-042R	8/7/2018	57	40	ND	ND	ND	ND	
GEW-042R	9/6/2018	58	39	ND	ND	ND	ND	
GEW-042R	10/4/2018	50	34	3.5	12	ND	ND	See Note 3
GEW-042R	11/15/2018	58	37	ND	3.6	ND	ND	
GEW-043R	7/5/2018	56	41	ND	ND	0.19	ND	
GEW-043R	8/7/2018	55	41	ND	ND	0.21	ND	
GEW-043R	9/6/2018	56	41	ND	ND	0.20	ND	
GEW-043R	10/4/2018	56	41	ND	ND	0.20	ND	
GEW-043R	11/15/2018	57	40	ND	ND	0.23	ND	
GEW-044	7/5/2018	56	35	ND	6.8	ND	ND	
GEW-044	8/7/2018	58	38	ND	ND	ND	ND	
GEW-044	9/6/2018	56	39	ND	4.3	ND	ND	
GEW-044	10/4/2018	56	38	ND	4.7	ND	ND	
GEW-044	11/15/2018	56	39	ND	3.2	ND	ND	
GEW-045R	7/5/2018	56	39	ND	3.9	ND	ND	
GEW-045R	8/7/2018	57	39	ND	ND	ND	ND	
GEW-045R	9/6/2018	55	39	ND	4.5	ND	ND	
GEW-045R	10/4/2018	57	41	ND	ND	ND	ND	
GEW-045R	11/15/2018	56	36	1.5	5.9	0.040	ND	
GEW-046R	7/5/2018	56	37	ND	6.1	ND	ND	
GEW-046R	8/7/2018	57	38	ND	4.3	ND	ND	
GEW-046R	9/6/2018	59	37	ND	ND	ND	ND	
GEW-046R	10/4/2018	57	39	ND	3.3	ND	ND	
GEW-046R	11/15/2018	57	41	ND	ND	ND	ND	
GEW-047R	7/5/2018	55	39	ND	4.8	0.058	ND	
GEW-047R	8/8/2018	53	38	ND	8.2	ND	ND	
GEW-047R	9/6/2018	54	39	ND	6.6	ND	ND	
GEW-047R	10/5/2018	55	40	ND	3.7	ND	ND	
GEW-047R	11/15/2018	56	39	ND	4.9	0.061	ND	
GEW-048	7/5/2018	57	38	ND	3.9	ND	ND	
GEW-048	8/8/2018	58	39	ND	ND	ND	ND	
GEW-048	9/7/2018	58	38	ND	ND	ND	ND	
GEW-048	10/5/2018	58	39	ND	ND	ND	ND	
GEW-048	11/15/2018	59	39	ND	ND	ND	ND	
GEW-049	7/5/2018	56	37	ND	5.7	ND	ND	
GEW-049	8/8/2018	57	39	ND	ND	ND	ND	
GEW-049	9/6/2018	56	39	ND	ND	ND	ND	
GEW-049	10/4/2018	57	40	ND	ND	ND	ND	
GEW-049	11/15/2018	56	41	ND	ND	ND	ND	
GEW-050	7/3/2018	59	38	ND	ND	0.043	ND	
GEW-050	8/6/2018	58	38	ND	ND	0.045	ND	
GEW-050	9/4/2018	57	38	ND	3.8	0.057	ND	
GEW-050	10/2/2018	57	38	ND	3.8	ND	ND	
GEW-050	11/14/2018	58	36	ND	5.3	ND	ND	
GEW-051	7/3/2018	56	40	ND	ND	0.99	ND	
GEW-051	8/6/2018	56	40	ND	ND	1.0	ND	
GEW-051	9/5/2018	56	40	ND	ND	0.83	ND	
GEW-051	10/4/2018	56	40	ND	ND	0.76	ND	
GEW-051	11/14/2018	56	38	ND	4.0	0.99	ND	
GEW-052	7/3/2018	55	36	ND	8.0	ND	ND	
GEW-052	8/6/2018	56	37	ND	5.6	ND	ND	
GEW-052	9/4/2018	56	39	ND	4.6	ND	ND	
GEW-052	10/2/2018	56	39	ND	4.1	ND	ND	
GEW-052	11/14/2018	54	37	ND	8.6	ND	ND	
GEW-053	7/3/2018	51	41	ND	ND	4.5	60	
GEW-053	8/7/2018	51	39	ND	4.4	4.8	58	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
				(%)				
GEW-053	9/5/2018	52	40	ND	ND	4.8	62	
GEW-053	10/4/2018	52	42	ND	ND	3.7	74	
GEW-053	11/14/2018	52	38	ND	4.5	3.6	70	
GEW-054	7/3/2018	50	39	1.9	6.5	2.0	ND	
GEW-054	8/7/2018	52	40	ND	4.7	2.0	ND	
GEW-054	9/5/2018	54	41	ND	ND	1.9	ND	
GEW-054	10/4/2018	54	41	ND	ND	2.1	ND	
GEW-054	11/14/2018	54	39	ND	3.5	2.1	ND	
GEW-055	7/3/2018	52	41	ND	ND	2.5	ND	
GEW-055	8/7/2018	46	38	2.5	8.4	4.5	34	See Note 3
GEW-055	9/5/2018	52	40	ND	3.7	2.2	ND	
GEW-055	10/4/2018	53	42	ND	ND	2.3	ND	
GEW-055	11/14/2018	54	41	ND	ND	2.6	33	
Flare Station ²	7/2/2018	47.8	35.4	3.2	13.0	0.6	ND	See Note 5
Flare Station ²	8/1/2018	49.2	35.9	2.6	11.7	0.6	ND	See Note 5
Flare Station ²	9/4/2018	48.1	35.2	3.0	13.0	0.6	24.0	See Note 5
Flare Station ²	10/2/2018	41.4	29.9	5.8	22.3	0.5	ND	See Note 5
Flare Station ²	11/2/2018	36.5	28.5	6.2	28.5	0.4	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. (8) Invalid sample due to canister leak; resampled.

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	7/2/2018	54	41	ND	3.5	0.46	ND	
GEW-010	8/9/2018	55	42	ND	ND	ND	ND	
GEW-010	9/5/2018	54	42	ND	ND	0.38	ND	
GEW-010	10/4/2018	53	41	ND	4.4	0.38	ND	
GEW-010	11/12/2018	56	40	ND	ND	0.28	ND	
GEW-013A	7/5/2018	10	40	5.2	33	11	450	See Note 3
GEW-013A	10/5/2018	4.2	32	11	41	12	370	See Note 3
GEW-015	7/11/2018	0.43	46	ND	ND	50	2,400	
GEW-015	10/11/2018	0.28	31	8.1	28	32	1,600	See Note 3
GEW-016R	7/11/2018	6.3	43	ND	24	25	1,000	
GEW-016R	10/11/2018	3.7	18	14	54	10	430	See Note 3
GEW-018B	7/17/2018	0.63	40	4.1	17	37	1,400	
GEW-018B	10/11/2018	1.2	16	15	53	15	510	See Note 4
GEW-22R	10/12/2018	1.7	33	9.4	33	23	1,100	See Note 3
GEW-038	7/3/2018	8.4	35	7.5	26	22	910	See Note 4
GEW-038	8/9/2018	21	39	5.0	17	18	620	
GEW-038	9/5/2018	18	41	4.7	16	20	760	
GEW-038	10/4/2018	19	36	6.4	22	16	590	See Note 4
GEW-039	7/3/2018	33	38	ND	28	ND	ND	
GEW-039	8/9/2018	35	38	ND	26	ND	ND	
GEW-039	9/5/2018	30	33	3.1	33	ND	ND	
GEW-039	10/4/2018	17	21	11	51	ND	ND	See Note 3
GEW-039	11/13/2018	34	34	2.6	30	ND	ND	
GEW-056R	7/3/2018	37	45	ND	ND	16	340	
GEW-056R	8/9/2018	38	44	ND	ND	15	310	
GEW-056R	9/5/2018	41	42	ND	ND	12	250	
GEW-056R	10/4/2018	40	39	2.2	9.2	9.9	200	
GEW-056R	11/12/2018	44	40	ND	5.5	9.7	190	
GEW-057B	7/11/2018	1.0	52	ND	ND	43	1,400	
GEW-057B	10/10/2018	1.2	49	3.1	11	35	920	
GEW-058	7/11/2018	20	39	ND	26	12	530	
GEW-058A	7/11/2018	3.9	36	4.5	25	30	1,000	
GEW-058A	10/5/2018	1.3	45	2.4	10	40	1,500	
GEW-059R	7/11/2018	20	40	ND	6.7	31	890	
GEW-059R	10/5/2018	25	39	ND	8.2	26	730	
GEW-067A	7/5/2018	6.4	32	2.5	52	6.4	95	
GEW-067A	10/5/2018	4.6	39	2.7	26	26	420	
GEW-068A	7/12/2018	8.1	54	ND	ND	33	2,100	
GEW-068A	10/10/2018	11	54	ND	6.4	27	1,500	
GEW-078R	7/12/2018	4.2	31	ND	48	15	490	
GEW-078R	10/11/2018	4.1	12	14	63	6.4	200	See Note 3
GEW-081	7/12/2018	0.29	22	12	44	20	610	See Note 4
GEW-082R	7/12/2018	0.81	47	ND	3.8	46	1,500	
GEW-082R	10/11/2018	9.5	34	2.0	30	24	790	
GEW-086	7/5/2018	19	41	1.9	31	7.0	130	
GEW-086	10/5/2018	17	32	5.7	37	7.7	160	See Note 3
GEW-087	7/11/2018	4.0	24	4.6	61	5.6	180	
GEW-087	10/5/2018	2.3	12	14	70	1.1	79	See Note 4
GEW-088	7/17/2018	10.0	43	1.7	19	24	610	
GEW-088	10/5/2018	2.4	40	2.9	13	40	1,000	
GEW-090	7/5/2018	19	43	ND	9.3	27	690	
GEW-090	10/5/2018	24	43	ND	4.6	27	860	
GEW-091	7/5/2018	2.0	35	5.5	27	28	350	See Note 4
GEW-091	8/9/2018	2.2	39	4.0	20	33	360	
GEW-091	9/6/2018	2.7	46	2.0	6.9	40	460	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-091	10/5/2018	2.6	43	3.2	12	38	460	
GEW-091	11/9/2018	2.3	28	9.6	34	26	280	See Note 3
GEW-100	7/12/2018	0.89	40	7.7	27	22	560	See Note 3
GEW-100	10/10/2018	1.1	56	2.4	8.3	31	790	
GEW-101	7/12/2018	17	43	7.6	29	2.9	300	See Note 4
GEW-101	10/10/2018	22	62	2.3	9.3	3.8	300	
GEW-102	7/12/2018	13	50	ND	ND	33	460	
GEW-102	10/10/2018	14	43	3.9	14	24	280	
GEW-104	7/12/2018	44	41	ND	ND	11	200	
GEW-104	10/5/2018	29	37	ND	24	8.0	110	
GEW-105	7/11/2018	14	39	5.5	23	17	740	See Note 3
GEW-105	10/5/2018	7.0	53	ND	6.9	30	1,300	
GEW-106	7/11/2018	7.0	53	ND	6.0	30	670	
GEW-106	10/5/2018	21	44	3.2	16	15	380	
GEW-107	7/11/2018	13	55	ND	ND	29	1,300	
GEW-107	10/5/2018	11	53	ND	ND	32	1,500	
GEW-108	7/11/2018	40	48	ND	10	1.3	47	
GEW-108	8/9/2018	40	46	ND	11	1.4	52	
GEW-108	9/4/2018	32	38	4.0	21	5.0	130	
GEW-108	10/5/2018	26	30	8.1	33	3.5	110	See Note 3
GEW-108	11/9/2018	34	39	2.7	20	3.5	97	
GEW-109	7/3/2018	30	39	ND	20	10	280	
GEW-109	8/9/2018	30	40	ND	19	9.2	240	
GEW-109	9/5/2018	32	39	ND	20	8.2	230	
GEW-109	10/4/2018	32	36	2.1	25	4.6	160	
GEW-109	11/13/2018	32	38	ND	22	7.4	210	
GEW-110	7/2/2018	22	40	3.8	17	18	520	
GEW-110	8/9/2018	24	46	ND	3.7	25	680	
GEW-110	9/5/2018	17	28	7.8	34	12	360	See Note 4
GEW-110	10/4/2018	11	20	13	46	9.7	280	See Note 4
GEW-110	11/12/2018	7.2	8.6	18	64	2.5	87	See Note 4
GEW-113	7/11/2018	11	51	ND	13	23	1,100	
GEW-113	10/11/2018	12	45	3.9	22	17	800	
GEW-116	7/13/2018	13	58	ND	4.9	22	750	
GEW-116	10/11/2018	7.9	37	9.0	33	13	480	See Note 3
GEW-117	7/13/2018	45	52	ND	ND	0.080	65	
GEW-117	10/12/2018	16	16	15	53	ND	ND	See Note 3
GEW-118	7/17/2018	1.6	55	ND	3.9	37	980	
GEW-118	10/11/2018	0.73	30	9.3	33	26	900	See Note 3
GEW-120	7/17/2018	22	61	ND	3.7	12	590	
GEW-120	10/12/2018	8.2	25	11	50	6.5	280	See Note 3
GEW-121	7/13/2018	6.9	42	2.4	31	17	780	
GEW-121	10/12/2018	4.2	24	9.4	51	11	580	See Note 4
GEW-122	7/13/2018	12	36	ND	35	15	1,100	
GEW-122	10/24/2018	24	36	2.8	22	16	610	
GEW-123	7/13/2018	13	45	ND	29	11	480	
GEW-123	10/12/2018	5.6	24	9.9	52	8.4	380	
GEW-124	7/13/2018	35	24	8.9	31	ND	ND	See Note 3
GEW-124	10/24/2018	39	28	7.3	25	ND	ND	See Note 4
GEW-125	7/13/2018	2.7	52	ND	9.8	33	1,600	
GEW-125	10/11/2018	5.2	41	4.0	19	30	1,500	
GEW-126	7/17/2018	19	51	ND	15	13	870	
GEW-126	10/11/2018	14	50	3.1	11	21	1,400	
GEW-127	7/17/2018	8.4	57	ND	11	21	1,800	
GEW-127	10/11/2018	16	54	1.7	12	15	1,000	
GEW-128	7/13/2018	9.5	54	3.5	15	17	1,700	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-128	10/11/2018	14	50	4.2	18	13	1,000	
GEW-129	7/13/2018	1.1	64	ND	ND	31	3,500	
GEW-129	10/11/2018	8.7	61	ND	4.8	24	2,300	
GEW-130	7/17/2018	7.3	50	2.3	13	26	2,200	
GEW-130	10/11/2018	11	50	1.8	7.6	30	2,300	
GEW-131	7/17/2018	24	40	ND	22	13	810	
GEW-131	10/11/2018	2.7	52	ND	ND	42	2,500	
GEW-132	7/12/2018	1.6	49	ND	8.5	40	1,900	
GEW-132	10/12/2018	0.71	35	5.4	30	28	1,700	See Note 3
GEW-133	7/13/2018	11	48	ND	17	21	880	
GEW-133	10/11/2018	1.9	6.7	19	70	2.5	150	See Note 3
GEW-134	7/12/2018	14	43	1.8	23	18	680	
GEW-134	10/11/2018	9.1	22	11	54	4.1	210	See Note 3
GEW-135	7/12/2018	6.6	41	2.5	28	22	840	
GEW-135	10/11/2018	3.7	25	10	48	13	500	See Note 3
GEW-136	7/11/2018	6.1	20	11	48	15	330	See Note 3
GEW-137	7/11/2018	23	31	3.1	42	0.49	43	
GEW-137	10/11/2018	13	18	11	57	0.28	ND	See Note 3
GEW-138	7/12/2018	4.8	24	5.2	57	8.8	430	See Note 4
GEW-138	10/11/2018	4.1	21	5.7	61	8.1	360	See Note 3
GEW-139	7/13/2018	6.4	49	ND	11	31	2,100	
GEW-139	10/10/2018	0.54	54	ND	4.6	38	2,500	
GEW-140	7/13/2018	15	50	ND	7.2	26	1,300	
GEW-140	10/10/2018	3.3	55	ND	3.4	36	1,800	
GEW-143	7/12/2018	0.25	19	14	52	14	1,400	See Note 4
GEW-144	7/12/2018	30	28	8.6	30	2.5	120	See Note 4
GEW-144	10/10/2018	40	49	1.9	6.5	2.6	280	
GEW-145	7/12/2018	5.0	49	ND	ND	42	1,700	
GEW-145	10/10/2018	5.3	51	ND	3.6	38	1,300	
GEW-146	7/11/2018	2.7	7.2	15	74	0.59	ND	See Note 4
GEW-147	7/11/2018	12	42	ND	20	24	750	
GEW-147	10/11/2018	9.0	23	11	46	11	330	See Note 3
GEW-148	7/11/2018	7.4	43	3.9	16	28	1,400	
GEW-148	10/11/2018	7.2	33	8.2	29	23	1,100	See Note 3
GEW-149	7/5/2018	15	41	ND	40	2.7	150	
GEW-149	10/5/2018	11	48	ND	19	19	740	
GEW-150	7/11/2018	22	47	ND	10.0	18	760	
GEW-150	10/5/2018	18	35	4.4	27	15	570	
GEW-151	7/17/2018	7.6	49	ND	ND	39	1,200	
GEW-151	10/11/2018	6.1	21	12	58	2.4	150	See Note 4
GEW-152	7/11/2018	25	44	ND	5.1	24	1,000	
GEW-152	10/5/2018	30	44	ND	3.6	21	800	
GEW-153	7/11/2018	46	37	ND	15	1.8	ND	
GEW-153	10/5/2018	38	30	5.4	26	0.63	ND	See Note 4
GEW-154	7/5/2018	0.81	9.6	13	76	0.34	ND	See Note 4
GEW-155	7/12/2018	0.58	19	5.9	70	4.7	130	See Note 4
GEW-155	10/11/2018	0.88	12	12	72	2.6	81	See Note 4
GEW-156	7/11/2018	37	48	ND	6.3	7.5	200	
GEW-156	10/10/2018	29	41	3.0	16	10	240	
GEW-157	7/11/2018	16	45	2.3	8.0	28	1,100	
GEW-157	10/10/2018	15	48	1.8	6.2	28	940	
GEW-158	7/11/2018	17	53	ND	5.8	22	620	
GEW-158	10/5/2018	22	50	ND	ND	24	700	
GEW-159	7/11/2018	37	35	2.9	20	4.5	86	
GEW-159	8/9/2018	44	40	ND	13	2.5	47	
GEW-159	9/5/2018	46	39	ND	9.8	3.3	110	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-159	10/5/2018	32	39	2.8	13	12	500	
GEW-159	11/9/2018	45	37	1.8	15	1.1	ND	
GEW-160	7/5/2018	1.6	51	ND	4.5	40	2,100	
GEW-160	8/9/2018	4.4	50	ND	5.0	38	1,700	
GEW-160	9/6/2018	5.7	49	ND	6.8	37	1,700	
GEW-160	10/5/2018	6.4	49	ND	5.8	37	1,700	
GEW-160	11/9/2018	7.9	45	ND	8.9	36	1,400	
GEW-161	7/5/2018	5.0	47	1.8	13	32	1,400	
GEW-161	8/9/2018	7.9	47	ND	11	32	1,200	
GEW-161	9/6/2018	7.9	45	ND	15	30	1,100	
GEW-161	10/5/2018	0.039	0.37	22	77	0.084	ND	See Note 3
GEW-161	11/9/2018	9.7	43	ND	19	26	860	
GEW-162	7/5/2018	7.2	39	8.5	36	8.5	420	See Note 3
GEW-162	8/9/2018	11	58	2.1	15	13	560	
GEW-162	9/6/2018	3.5	19	16	58	3.2	210	See Note 3
GEW-162	10/5/2018	7.3	39	9.1	36	7.8	350	See Note 3
GEW-162	11/9/2018	11	54	3.3	18	13	510	
GEW-163	7/9/2018	8.0	32	7.7	43	8.9	270	See Note 3
GEW-163	10/12/2018	0.78	19	15	53	12	300	See Note 4
GEW-164	7/9/2018	25	54	ND	10	8.7	490	
GEW-164	10/12/2018	14	29	10	43	3.7	250	See Note 4
GEW-165	7/9/2018	11	54	3.1	12	19	780	
GEW-165	10/12/2018	11	47	4.7	19	17	720	
GEW-166	5/3/2018	0.93	54	ND	ND	41	2,600	
GEW-166	7/9/2018	1.3	46	3.3	12	36	2,000	
GEW-166	10/12/2018	2.9	47	1.9	8.6	39	2,200	
GEW-167	7/9/2018	0.63	37	6.4	25	31	1,600	See Note 3
GEW-167	10/12/2018	0.56	25	9.9	44	21	1,100	See Note 4
GEW-168	7/9/2018	13	50	3.1	15	18	800	
GEW-168	10/11/2018	14	36	5.9	35	7.6	400	See Note 4
GEW-169	7/9/2018	5.3	58	ND	5.9	29	1,600	
GEW-169	10/11/2018	12	49	2.8	15	20	1,000	
GEW-170	7/13/2018	10.0	57	ND	7.3	23	1,700	
GEW-170	10/11/2018	12	47	4.6	20	16	1,100	
GEW-171	10/10/2018	6.5	61	ND	3.9	26	1,600	
GEW-172	7/13/2018	20	51	ND	ND	24	1,600	
GEW-172	10/10/2018	13	43	5.1	18	20	1,200	See Note 3
GEW-173	7/13/2018	4.2	15	11	68	1.4	150	See Note 4
GEW-173	10/10/2018	1.7	7.5	16	74	0.79	43	See Note 4
GEW-174	7/12/2018	23	45	ND	16	14	630	
GEW-174	10/10/2018	14	36	2.9	36	11	400	
GEW-175	7/11/2018	14	53	ND	5.8	24	870	
GEW-175	10/5/2018	13	35	6.4	34	11	400	See Note 4
GEW-176	7/11/2018	34	46	ND	12	5.9	240	
GEW-176	10/5/2018	28	33	3.8	33	1.2	110	
GEW-177	7/13/2018	6.6	53	2.8	9.8	27	2,700	
GEW-177	10/11/2018	0.14	24	13	51	12	1,500	See Note 4
GEW-178	7/11/2018	26	64	ND	ND	5.8	170	
GEW-178	10/3/2018	16	40	6.4	35	1.6	110	See Note 3
GEW-179	7/11/2018	16	54	2.6	22	4.7	130	
GEW-179	10/3/2018	18	62	2.7	14	2.5	130	
GEW-180	7/11/2018	14	68	ND	3.9	12	400	
GEW-180	10/3/2018	13	57	3.7	18	7.5	360	
GEW-181	7/11/2018	16	67	ND	3.8	11	660	
GEW-181	10/3/2018	12	52	5.7	20	8.7	550	See Note 3
GEW-182	7/9/2018	24	44	4.0	18	9.3	280	

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Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-182	10/3/2018	21	36	7.3	31	4.7	170	See Note 4
GEW-184	7/9/2018	21	49	4.2	20	5.0	200	
GEW-184	10/3/2018	14	28	12	46	0.90	79	See Note 4
GEW-185	7/9/2018	15	58	ND	6.1	18	690	
GEW-185	10/3/2018	10	37	9.0	32	11	400	See Note 4
GEW-186	7/11/2018	19	49	4.4	18	9.2	770	
GEW-186	10/3/2018	19	47	4.5	19	10	660	
GEW-187	7/11/2018	14	45	5.6	19	16	630	See Note 3
GEW-187	8/9/2018	17	57	ND	ND	21	800	
GEW-187	9/4/2018	14	44	6.0	21	15	610	See Note 3
GEW-187	10/3/2018	21	54	1.9	6.4	16	650	
GEW-187	11/9/2018	26	56	ND	ND	14	490	
GEW-188	7/9/2018	0.45	18	8.9	66	6.9	270	See Note 4
GEW-188	10/3/2018	0.23	6.3	17	74	1.6	85	See Note 4
GEW-217	10/9/2018	6.3	37	8.0	28	20	720	See Note 4
GEW-218	10/9/2018	25	48	ND	7.2	19	800	
GEW-219	10/9/2018	6.5	20	11	60	1.9	110	See Note 3
GEW-220	10/9/2018	2.3	37	7.0	36	16	960	See Note 3
GEW-221	10/9/2018	13	36	2.9	40	7.7	200	
GEW-222	10/9/2018	11	18	15	51	4.5	300	See Note 3
GEW-223	10/9/2018	2.6	38	8.8	32	17	1,300	See Note 3
GEW-224	10/9/2018	6.2	63	ND	ND	24	2,400	
GEW-225	10/9/2018	5.7	41	6.7	23	22	1,700	See Note 3
GEW-226	10/9/2018	11	23	7.5	48	8.9	390	See Note 4
GEW-227	10/9/2018	3.7	16	12	64	3.3	190	See Note 4
GEW-228	10/9/2018	2.5	17	9.9	59	11	180	See Note 4
GEW-229	10/9/2018	3.0	16	8.6	69	3.1	210	See Note 4
GEW-230	10/9/2018	6.0	28	5.5	51	9.1	260	See Note 3
GEW-231	10/9/2018	15	58	ND	6.9	18	1,500	
GIW-01	7/3/2018	7.0	54	2.4	13	22	990	
GIW-01	8/9/2018	8.2	58	ND	7.4	25	990	
GIW-01	9/6/2018	6.3	41	6.7	26	19	750	See Note 3
GIW-01	10/4/2018	8.0	53	2.6	13	23	1,000	
GIW-01	11/12/2018	10	44	5.5	23	18	770	See Note 3
GIW-02	7/3/2018	3.6	26	10	52	7.9	510	See Note 4
GIW-02	8/9/2018	3.3	24	10	55	7.7	460	See Note 4
GIW-02	9/6/2018	2.9	20	14	57	7.1	450	See Note 4
GIW-02	10/4/2018	2.4	17	15	60	5.1	400	See Note 4
GIW-02	11/12/2018	1.1	12	16	64	6.9	330	See Note 4
GIW-03	7/3/2018	9.9	46	3.4	20	19	780	
GIW-03	8/9/2018	13	50	ND	14	20	700	
GIW-03	9/6/2018	8.6	37	7.2	32	15	570	See Note 3
GIW-03	10/4/2018	11	48	2.5	18	20	760	
GIW-03	11/12/2018	2.7	58	ND	5.6	32	1,600	
GIW-04	7/3/2018	2.5	52	ND	5.0	38	1,700	
GIW-04	8/9/2018	2.8	50	1.8	5.9	39	1,600	
GIW-04	9/6/2018	1.8	45	3.5	12	37	1,600	
GIW-04	10/4/2018	2.5	52	ND	4.1	40	1,800	
GIW-04	11/13/2018	1.9	48	ND	ND	46	2,000	
GIW-05	7/5/2018	0.77	20	13	45	22	210	See Note 3
GIW-05	8/9/2018	1.5	45	3.2	11	39	420	
GIW-05	9/6/2018	0.49	11	16	57	15	130	See Note 4
GIW-05	10/4/2018	1.6	41	3.9	14	39	410	
GIW-05	11/13/2018	0.53	13	15	54	16	150	See Note 4
GIW-06	7/3/2018	27	41	ND	19	11	160	
GIW-06	8/9/2018	25	39	2.0	23	11	150	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GIW-06	9/5/2018	28	41	ND	18	11	150	
GIW-06	10/4/2018	29	39	2.1	20	10	150	
GIW-06	11/13/2018	30	39	ND	19	10	140	
GIW-07	7/3/2018	35	53	ND	4.2	5.9	260	
GIW-07	8/9/2018	37	52	ND	5.0	4.8	250	
GIW-07	9/5/2018	40	52	ND	3.9	2.0	220	
GIW-07	10/4/2018	27	34	8.2	29	1.3	120	See Note 3
GIW-07	11/13/2018	43	49	ND	3.7	3.0	190	
GIW-08	7/3/2018	43	49	ND	6.4	0.34	58	
GIW-08	8/9/2018	44	49	ND	5.2	0.39	60	
GIW-08	9/5/2018	45	49	ND	5.0	0.35	61	
GIW-08	10/4/2018	33	34	6.9	26	0.13	ND	See Note 3
GIW-08	11/13/2018	47	46	ND	5.9	0.29	44	
GIW-09	7/3/2018	7.8	24	4.3	59	5.5	89	
GIW-09	8/9/2018	9.0	27	5.1	52	7.4	180	See Note 4
GIW-09	9/5/2018	10	24	6.2	53	6.0	140	See Note 4
GIW-09	10/4/2018	13	25	5.1	54	2.5	81	See Note 3
GIW-09	11/13/2018	13	27	3.2	52	4.8	130	
GIW-10	7/5/2018	11	34	ND	38	16	420	
GIW-10	8/9/2018	12	34	ND	37	15	380	
GIW-10	9/5/2018	13	35	ND	35	16	410	
GIW-10	10/4/2018	11	28	4.1	45	12	330	
GIW-10	11/12/2018	12	32	ND	40	15	490	
GIW-11	7/3/2018	20	40	ND	28	11	380	
GIW-11	8/9/2018	22	40	ND	26	10	370	
GIW-11	9/5/2018	20	38	ND	31	9.9	400	
GIW-11	10/4/2018	15	30	4.8	42	7.4	340	
GIW-11	11/12/2018	19	36	1.5	34	8.6	440	
GIW-12	7/3/2018	9.3	53	ND	9.1	27	1,300	
GIW-12	8/9/2018	11	48	ND	15	24	1,100	
GIW-12	9/5/2018	10	48	2.4	14	25	1,200	
GIW-12	10/4/2018	12	36	6.2	29	17	820	See Note 4
GIW-12	11/12/2018	12	42	3.1	21	22	840	
GIW-13	7/3/2018	27	56	ND	ND	13	390	
GIW-13	8/9/2018	33	51	ND	ND	12	350	
GIW-13	9/5/2018	31	52	ND	ND	12	400	
GIW-13	10/4/2018	33	47	1.6	6.9	11	340	
GIW-13	11/12/2018	36	45	ND	5.5	12	300	
Flare Station²	7/2/2018	13.5	36.8	6.4	32.0	10.1	445	See Note 6
Flare Station²	8/1/2018	13.3	36.3	6.4	32.6	10.1	465	See Note 6
Flare Station²	9/4/2018	12.2	33.6	7.2	36.2	9.4	450	See Note 6
Flare Station²	10/2/2018	12.3	33.6	7.2	36.2	9.5	430	See Note 6
Flare Station²	11/2/2018	12.5	31.5	8.0	38.0	9.0	370	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 Enviroson meter, it was determined there is a sample train leak. (4) Based on the oxygen verification readings taken with an Enviroson 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. (8) Invalid sample due to canister leak; resampled.

ND = Analyte not detected in sample.

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

ATTACHMENT C-2

LABORATORY ANALYSES REPORTS



November 28, 2018

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



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: J111904-01/50

Enclosed are results for sample(s) received 11/19/18 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, Erin Fanning and Anthony Kimutis; Michelle Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 11/27/18.

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,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

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: <u>5 Day</u>	DELIVERABLES ☒ EDD ☐ EDF ☐ Level 3 ☐ Level 4	Condition upon receipt: Sealed Yes ☐ No ☐ Intact Yes ☐ No ☐ Chilled Yes ☐ No ☐	PAGE: 1 OF 6								
Project No.: 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	
LAB USE ONLY		SAMPLE IDENTIFICATION		BILLING P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044		ANALYSIS REQUEST							
Cannister Pressure ("hg)		Sample Start	Sample End	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION					
3826		-21.1	-5	11/9/2018	9:04	C	LFG	NA	X				
6158		-21.1	-5	11/9/2018	9:16	C	LFG	NA	X				
A8065		-21.1	-5	11/9/2018	9:28	C	LFG	NA	X				
A7776		-21.2	-5	11/9/2018	10:33	C	LFG	NA	X				
A7759		-21	-5	11/9/2018	10:45	C	LFG	NA	X				
A8072		-21.3	-5	11/9/2018	10:58	C	LFG	NA	X				
A7670		-21.2	-5	11/9/2018	11:13	C	LFG	NA	X				
5816		-21	-5	11/12/2018	9:01	C	LFG	NA	X				
5907		-20.8	-5	11/12/2018	9:13	C	LFG	NA	X				
6152		-21	-5	11/12/2018	9:27	C	LFG	NA	X				
COMMENTS													
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Anthony Kimutis RELINQUISHED BY: <u>[Signature]</u> 11/9/18 RECEIVED BY: <u>[Signature]</u> 11/12/18 RELINQUISHED BY: <u>[Signature]</u> 11/16/18 RECEIVED BY: <u>[Signature]</u> 11/19/18 RELINQUISHED BY: <u>[Signature]</u> RECEIVED BY: <u>[Signature]</u>													
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													

[illegible]

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		DELIVERABLES		PAGE: 3 OF 6																							
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				Standard ☐ 48 hours ☐ EDD ☒		Sealed Yes ☐ No ☐																									
				Same Day ☐ 72 hours ☐ EDF ☐		Intact Yes ☐ No ☐																									
				24 hours ☐ 96 hours ☐ Level 3 ☐		Chilled ☐ deg C																									
				Other: 5 Day																											
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				SAMPLE IDENTIFICATION		SAMPLE DATE		SAMPLE TIME		CONTAINER QTY/TYP		MATRIX		PRESERVA- TION																	
				Cannister Pressure ("hg) Cannister ID		Sample Start		Sample End																							
J111904-24 -22 -23 -24 -25 -26 -27 -28 -29 -30				A7663		-21.4		-5		GIW 6		11/13/2018		13:50		C		LFG		NA		D1946 + CO, H2		X				INITIAL PROCES			
				A7748		-20.9		-5		GIW 7		11/13/2018		14:04		C		LFG		NA		NA		X						-3	
				A7804		-21.3		-5		GIW 8		11/13/2018		14:16		C		LFG		NA		NA		X						-4	
				6148		-21.2		-5		GIW 9		11/13/2018		14:27		C		LFG		NA		NA		X						-3	
				A8070		-21.3		-5		GEW 109		11/13/2018		15:04		C		LFG		NA		NA		X						-3.5	
				5313		-21.1		-5		GEW 39		11/13/2018		15:18		C		LFG		NA		NA		X						-4	
				A8103		-21.7		-5		GEW 50		11/14/2018		9:14		C		LFG		NA		NA		X						-4	
				A7666		-21.7		-5		GEW 52		11/14/2018		9:25		C		LFG		NA		NA		X						-3	
				A8067		-21.3		-5		GEW 7		11/14/2018		9:38		C		LFG		NA		NA		X						-3	
				3833		-21.4		-5		GEW 8		11/14/2018		9:49		C		LFG		NA		NA		X						-3	
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services				COMMENTS																											
SAMPLED BY: Anthony Kimutis RELINQUISHED BY: [Signature] RELINQUISHED BY: [Signature] RELINQUISHED BY: [Signature]				DATE/TIME: 11/13/18 DATE/TIME: 11/14/18 DATE/TIME: 11/19/18 0913																											
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									

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 DELIVERABLES PAGE: 4 OF 6 Standard ☐ 48 hours Same Day ☐ 72 hours 24 hours ☐ 96 hours Other: 5 Day EDD ☒ EDF ☐ Level 3 ☐ Level 4 ☐ Condition upon receipt: Sealed Yes ☐ No ☐ Intact Yes ☐ No ☐ Chilled _____ deg C																			
Project No.: Project Name: Report To: Company: Street: City/State/Zip: Phone& Fax: e-mail:				Bridgeton Landfill Mike Lambrich Republic Services 13570 St. Charles Rock Rd. Bridgeton, MO 63044 314-683-3921 Mlambrich@republicservices.com																			
LAB USE ONLY				Cannister Pressure ("hg)			SAMPLE IDENTIFICATION			ANALYSIS REQUEST													
Cannister ID				Sample Start		Sample End		SAMPLE DATE		SAMPLE TIME		CONTAINER QTY/TYPE		MATRIX		PRESERVATION							
A7766				-21.5		-5		11/14/2018		9:59		C		LFG		NA		X					
3436				-21.3		-5		11/14/2018		10:23		C		LFG		NA		X					
A8064				-21.4		-5		11/14/2018		10:39		C		LFG		NA		X					
A8098				-21.4		-5		11/14/2018		10:52		C		LFG		NA		X					
5316				-21.2		-5		11/14/2018		11:19		C		LFG		NA		X					
3837				-21		-5		11/14/2018		11:34		C		LFG		NA		X					
5268				-20.9		-5		11/15/2018		8:26		C		LFG		NA		X					
5839				-21.1		-5		11/15/2018		8:38		C		LFG		NA		X					
5929				-21.1		-5		11/15/2018		8:52		C		LFG		NA		X					
5817				-21		-5		11/15/2018		9:03		C		LFG		NA		X					
COMMENTS																							
AUTHORIZATION TO PERFORM WORK: Dave Penoyer										COMPANY: Republic Services													
SAMPLED BY: Anthony Kimutis										COMPANY: Republic Services													
RELINQUISHED BY: [Signature]										DATE/TIME: 11/14/18 - 11/15/18													
RELINQUISHED BY: [Signature]										RECEIVED BY: [Signature] DATE/TIME: 11/14/18													
RELINQUISHED BY: [Signature]										RECEIVED BY: [Signature] DATE/TIME: 11/14/18													
RELINQUISHED BY: [Signature]										RECEIVED BY: [Signature] DATE/TIME: 11/14/18													
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																							

[illegible]

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		DELIVERABLES		PAGE: 6 OF 6							
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				Standard ☐ 48 hours ☐ Same Day ☐ 72 hours ☐ 24 hours ☐ 96 hours ☐ Other: <u>5 Day</u>		EDD ☒ EDF ☐ Level 3 ☐ Level 4 ☐		Condition upon receipt: Sealed Yes ☐ No ☐ Intact Yes ☐ No ☐ Chilled _____ deg C							
				BILLING				ANALYSIS REQUEST							
				P.O. No.: PO7112802											
				Bill to: Republic Services											
				Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044											
LAB USE ONLY				SAMPLE IDENTIFICATION		SAMPLE DATE		SAMPLE TIME		CONTAINER QTY/TYPE		MATRIX		PRESERVATION	
				Cannister Pressure ("hg) Sample Start Sample End		GEW 47R GEW 49 GEW 5 GEW 48 GEW 6		11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018		14:02 14:13 14:25 14:35 14:48		C C C C C		LFG LFG LFG LFG LFG	
J111904-46 -47 -48 -49 -50				A7760 4655 3162 A7767 A8083		-20.9 -20.4 -20.5 -20.7 -20.6		-5 -5 -5 -5 -5		X X X X X		D1946 + CO, H2 X X X X X		INITIAL PRESS 4 4 5 5 5	
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services				COMMENTS											
				SAMPLED BY: Tim Ahrens				DATE/TIME: 11/15/18							
				RELINQUISHED BY: [Signature]				RECEIVED BY: [Signature] DATE/TIME: 11/16/18							
				RELINQUISHED BY: [Signature]				RECEIVED BY: [Signature] DATE/TIME: 11/16/18							
				RELINQUISHED BY: [Signature]				RECEIVED BY: [Signature] DATE/TIME: 11/16/18							
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____															
DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy															

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-01		J111904-02		J111904-03		J111904-04	
Client Sample I.D.:	GEW 187		GEW 108		GEW 159		GEW 160	
Date/Time Sampled:	11/9/18 9:04		11/9/18 9:16		11/9/18 9:28		11/9/18 10:33	
Date/Time Analyzed:	11/20/18 17:26		11/20/18 17:41		11/20/18 17:55		11/20/18 18:10	
QC Batch No.:	181120GC8A1		181120GC8A1		181120GC8A1		181120GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		3.0		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	14	3.0	3.5 d	0.030	1.1 d	0.030	36	2.9
Carbon Dioxide	56	0.030	39	0.030	37	0.030	45	0.029
Oxygen/Argon	ND	1.5	2.7	1.5	1.8	1.5	ND	1.4
Nitrogen	ND	3.0	20	3.0	15	3.0	8.9	2.9
Methane	26	0.0030	34	0.0030	45	0.0030	7.9	0.0029
Carbon Monoxide	0.049	0.0030	0.0097	0.0030	ND	0.0030	0.14	0.0029

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Result from secondary analysis 181123GC8A2

Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-05	J111904-06	J111904-07	J111904-08					
Client Sample I.D.:	GEW 161	GEW 91	GEW 162	GEW 10					
Date/Time Sampled:	11/9/18 10:45	11/9/18 10:58	11/9/18 11:13	11/12/18 9:01					
Date/Time Analyzed:	11/20/18 18:24	11/20/18 18:39	11/20/18 18:54	11/20/18 19:08					
QC Batch No.:	181120GC8A1	181120GC8A1	181120GC8A1	181120GC8A1					
Analyst Initials:	MJ	MJ	MJ	MJ					
Dilution Factor:	2.9	3.0	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	26	2.9	26	3.0	13	2.9	0.28 d	0.029
	Carbon Dioxide	43	0.029	28	0.030	54	0.029	40	0.029
	Oxygen/Argon	ND	1.4	9.6	1.5	3.3	1.4	ND	1.4
	Nitrogen	19	2.9	34	3.0	18	2.9	ND	2.9
	Methane	9.7	0.0029	2.3	0.0030	11	0.0029	56	0.0029
	Carbon Monoxide	0.086	0.0029	0.028	0.0030	0.051	0.0029	ND	0.0029

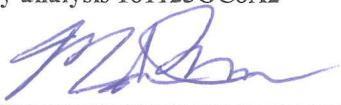
Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Result from secondary analysis 181123GC8A2

Reviewed/Approved By:



Mark Johnson
Operations Manager

Date 11-27-18

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: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-09		J111904-10		J111904-11		J111904-12	
Client Sample I.D.:	GEW 110		GIW 13		GIW 12		GEW 56R	
Date/Time Sampled:	11/12/18 9:13		11/12/18 9:27		11/12/18 9:40		11/12/18 9:53	
Date/Time Analyzed:	11/20/18 19:23		11/20/18 19:37		11/20/18 19:52		11/20/18 20:06	
QC Batch No.:	181120GC8A1		181120GC8A1		181120GC8A1		181120GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	2.9		3.0		3.0		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	2.5 d	0.029	12	3.0	22	3.0	9.7	2.9
Carbon Dioxide	8.6	0.029	45	0.030	42	0.030	40	0.029
Oxygen/Argon	18	1.4	ND	1.5	3.1	1.5	ND	1.4
Nitrogen	64	2.9	5.5	3.0	21	3.0	5.5	2.9
Methane	7.2	0.0029	36	0.0030	12	0.0030	44	0.0029
Carbon Monoxide	0.0087	0.0029	0.030	0.0030	0.084	0.0030	0.019	0.0029

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-13		J111904-14		J111904-15		J111904-16	
Client Sample I.D.:	GIW 11		GIW 10		GIW 1		GIW 2	
Date/Time Sampled:	11/12/18 10:04		11/12/18 10:53		11/12/18 11:13		11/12/18 11:24	
Date/Time Analyzed:	11/20/18 20:21		11/20/18 20:35		11/20/18 20:50		11/21/18 7:39	
QC Batch No.:	181120GC8A1		181120GC8A1		181120GC8A1		181120GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		2.5		3.0	
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	8.6	3.0	15	3.0	18	2.5	6.9	3.0
Carbon Dioxide	36	0.030	32	0.030	44	0.025	12	0.030
Oxygen/Argon	1.5	1.5	ND	1.5	5.5	1.3	16	1.5
Nitrogen	34	3.0	40	3.0	23	2.5	64	3.0
Methane	19	0.0030	12	0.0030	10	0.0025	1.1	0.0030
Carbon Monoxide	0.044	0.0030	0.049	0.0030	0.077	0.0025	0.033	0.0030

Results normalized including non-methane hydrocarbons

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Mark Johnson
Operations Manager

Date 11-27-18

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-17		J111904-18		J111904-19		J111904-20	
Client Sample I.D.:	GIW 3		GEW 2S		GIW 4		GIW 5	
Date/Time Sampled:	11/12/18 11:35		11/13/18 11:38		11/13/18 13:25		11/13/18 13:39	
Date/Time Analyzed:	11/21/18 23:39		11/21/18 8:08		11/21/18 8:23		11/21/18 12:38	
QC Batch No.:	181121GC8A2		181120GC8A1		181120GC8A1		181121GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	2.9		2.8		3.0		3.0	
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	32	2.9	ND	0.028	46	3.0	16	3.0
Carbon Dioxide	58	0.029	36	0.028	48	0.030	13	0.030
Oxygen/Argon	ND	1.4	2.6	1.4	ND	1.5	15	1.5
Nitrogen	5.6	2.9	9.0	2.8	ND	3.0	54	3.0
Methane	2.7	0.0029	53	0.0028	1.9	0.0030	0.53	0.0030
Carbon Monoxide	0.16	0.0029	ND	0.0028	0.20	0.0030	0.015	0.0030

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Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-21		J111904-22		J111904-23		J111904-24	
Client Sample I.D.:	GIW 6		GIW 7		GIW 8		GIW 9	
Date/Time Sampled:	11/13/18 13:50		11/13/18 14:04		11/13/18 14:16		11/13/18 14:27	
Date/Time Analyzed:	11/21/18 12:53		11/21/18 13:07		11/21/18 13:22		11/21/18 13:36	
QC Batch No.:	181121GC8A1		181121GC8A1		181121GC8A1		181121GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	2.8		3.0		2.8		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	10	2.8	3.0	d 0.030	0.29	d 0.028	4.8	d 0.029
Carbon Dioxide	39	0.028	49	0.030	46	0.028	27	0.029
Oxygen/Argon	ND	1.4	ND	1.5	ND	1.4	3.2	1.4
Nitrogen	19	2.8	3.7	3.0	5.9	2.8	52	2.9
Methane	30	0.0028	43	0.0030	47	0.0028	13	0.0029
Carbon Monoxide	0.014	0.0028	0.019	0.0030	0.0044	0.0028	0.013	0.0029

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-25	J111904-26	J111904-27	J111904-28				
Client Sample I.D.:	GEW 109	GEW 39	GEW 50	GEW 52				
Date/Time Sampled:	11/13/18 15:04	11/13/18 15:18	11/14/18 9:14	11/14/18 9:25				
Date/Time Analyzed:	11/21/18 15:24	11/21/18 15:38	11/21/18 15:53	11/21/18 16:07				
QC Batch No.:	181121GC8A1	181121GC8A1	181121GC8A1	181121GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.0	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	7.4	3.4	ND d	0.030	ND d	0.028	ND d	0.028
Carbon Dioxide	38	0.034	34	0.030	36	0.028	37	0.028
Oxygen/Argon	ND	1.7	2.6	1.5	ND	1.4	ND	1.4
Nitrogen	22	3.4	30	3.0	5.3	2.8	8.6	2.8
Methane	32	0.0034	34	0.0030	58	0.0028	54	0.0028
Carbon Monoxide	0.021	0.0034	ND	0.0030	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date 11-27-18

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-29		J111904-30		J111904-31		J111904-32	
Client Sample I.D.:	GEW 7		GEW 8		GEW 9		GEW 51	
Date/Time Sampled:	11/14/18 9:38		11/14/18 9:49		11/14/18 9:59		11/14/18 10:23	
Date/Time Analyzed:	11/21/18 16:22		11/21/18 16:37		11/21/18 16:51		11/21/18 17:06	
QC Batch No.:	181121GC8A1		181121GC8A1		181121GC8A1		181121GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
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	1.0 d	0.028	0.77 d	0.028	0.99 d	0.028
Carbon Dioxide	38	0.028	41	0.028	39	0.028	38	0.028
Oxygen/Argon	ND	1.4	ND	1.4	ND	1.4	ND	1.4
Nitrogen	ND	2.8	ND	2.8	5.2	2.8	4.0	2.8
Methane	60	0.0028	56	0.0028	54	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

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Reviewed/Approved By:



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Operations Manager

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

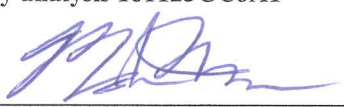
Lab No.:	J111904-33		J111904-34		J111904-35		J111904-36	
Client Sample I.D.:	GEW 53		GEW 54		GEW 55		GEW 40	
Date/Time Sampled:	11/14/18 10:39		11/14/18 10:52		11/14/18 11:19		11/14/18 11:34	
Date/Time Analyzed:	11/21/18 17:20		11/21/18 17:35		11/21/18 17:49		11/21/18 20:01	
QC Batch No.:	181121GC8A1		181121GC8A1		181121GC8A1		181121GC8A2	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	2.9		2.9		2.8		2.5	
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	3.6 d	0.029	2.1 d	0.029	2.6 d	0.028	ND d	0.025
Carbon Dioxide	38	0.029	39	0.029	41	0.028	30	0.025
Oxygen/Argon	ND	1.4	ND	1.4	ND	1.4	3.4	1.3
Nitrogen	4.5	2.9	3.5	2.9	ND	2.8	15	2.5
Methane	52	0.0029	54	0.0029	54	0.0028	52	0.0025
Carbon Monoxide	0.0070	0.0029	ND	0.0029	0.0033	0.0028	ND	0.0025

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-37		J111904-38		J111904-39		J111904-40	
Client Sample I.D.:	GEW 42R		GEW 41R		GEW 43R		GEW 44	
Date/Time Sampled:	11/15/18 8:26		11/15/18 8:38		11/15/18 8:52		11/15/18 9:03	
Date/Time Analyzed:	11/21/18 20:15		11/21/18 20:30		11/21/18 20:44		11/21/18 20:59	
QC Batch No.:	181121GC8A2		181121GC8A2		181121GC8A2		181121GC8A2	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		3.0		3.0	
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	0.030	ND d	0.030	0.23 d	0.030	ND d	0.030
Carbon Dioxide	37	0.030	36	0.030	40	0.030	39	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	3.6	3.0	6.3	3.0	ND	3.0	3.2	3.0
Methane	58	0.0030	57	0.0030	57	0.0030	56	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 

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Operations Manager

Date 11-27-18

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Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-41		J111904-42		J111904-43		J111904-44	
Client Sample I.D.:	GEW 45R		GEW 46R		GEW 2		GEW 3	
Date/Time Sampled:	11/15/18 9:19		11/15/18 9:30		11/15/18 9:48		11/15/18 9:59	
Date/Time Analyzed:	11/21/18 21:13		11/21/18 21:28		11/21/18 21:43		11/21/18 21:57	
QC Batch No.:	181121GC8A2		181121GC8A2		181121GC8A2		181121GC8A2	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		3.0		3.0	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	0.040 d	0.030	ND d	0.030	ND d	0.030	ND d	0.030
Carbon Dioxide	36	0.030	41	0.030	38	0.030	38	0.030
Oxygen/Argon	1.5	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	5.9	3.0	ND	3.0	ND	3.0	ND	3.0
Methane	56	0.0030	57	0.0030	59	0.0030	58	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

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Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-45		J111904-46		J111904-47		J111904-48	
Client Sample I.D.:	GEW 4		GEW 47R		GEW 49		GEW 5	
Date/Time Sampled:	11/15/18 10:11		11/15/18 14:02		11/15/18 14:13		11/15/18 14:25	
Date/Time Analyzed:	11/21/18 22:12		11/21/18 22:26		11/21/18 22:41		11/21/18 22:55	
QC Batch No.:	181121GC8A2		181121GC8A2		181121GC8A2		181121GC8A2	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		3.0		3.2	
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	0.077 d	0.030	0.061 d	0.030	ND d	0.030	ND d	0.032
Carbon Dioxide	38	0.030	39	0.030	41	0.030	37	0.032
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.6
Nitrogen	5.1	3.0	4.9	3.0	ND	3.0	3.8	3.2
Methane	56	0.0030	56	0.0030	56	0.0030	59	0.0032
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0032

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

D = Result from secondary analysis 181123GC8A1

Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 11/19/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J111904-49	J111904-50						
Client Sample I.D.:	GEW 48	GEW 6						
Date/Time Sampled:	11/15/18 14:35	11/15/18 14:48						
Date/Time Analyzed:	11/21/18 23:10	11/21/18 23:24						
QC Batch No.:	181121GC8A2	181121GC8A2						
Analyst Initials:	MJ	MJ						
Dilution Factor:	3.2	3.2						
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	ND d	0.032	ND d	0.032				
Carbon Dioxide	39	0.032	35	0.032				
Oxygen/Argon	ND	1.6	ND	1.6				
Nitrogen	ND	3.2	9.3	3.2				
Methane	59	0.0032	54	0.0032				
Carbon Monoxide	ND	0.0032	ND	0.0032				

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

D = Result from secondary analysis 181123GC8A1

Reviewed/Approved By: 

Mark Johnson
Operations Manager

Date 11-27-18

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QC Batch No: 181120GC8A1
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	11/20/18 17:06			11/20/18 16:37		11/20/18 16:51					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Limits		
									Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	6.12	122	6.08	122	0.6	70	130	30
Carbon Dioxide	ND	0.010	10	9.77	97	9.70	97	0.7	70	130	30
Oxygen/Argon	ND	0.50	15	16.3	110	16.3	110	0.2	70	130	30
Nitrogen	ND	1.0	70	73.9	106	73.8	106	0.1	70	130	30
Methane	ND	0.0010	0.10	0.112	112	0.110	110	1.8	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.110	110	0.108	108	1.8	70	130	30

ND = Not Detected (below RL)

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Mark Johnson
 Operations Manager

Date

11-27-18

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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: 181121GC8A1
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	11/21/18 10:57			11/21/18 10:28		11/21/18 10:43					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Limits		
									Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.87	117	5.87	117	0.1	70	130	30
Carbon Dioxide	ND	0.010	10	9.53	95	9.51	95	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	16.2	109	0.1	70	130	30
Nitrogen	ND	1.0	70	72.9	104	73.2	105	0.4	70	130	30
Methane	ND	0.0010	0.10	0.113	113	0.112	112	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.112	112	0.112	112	0.7	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date

11-27-18

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: 181121GC8A2
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	11/21/18 19:17			11/21/18 18:48		11/21/18 19:02					
Analyst Initials:	CM/MJ			CM/MJ		CM/MJ					
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	6.05	121	6.05	121	0.1	70	130	30
Carbon Dioxide	ND	0.010	10	9.68	97	9.68	97	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	16.2	109	0.1	70	130	30
Nitrogen	ND	1.0	70	73.3	105	73.2	105	0.1	70	130	30
Methane	ND	0.0010	0.10	0.116	116	0.116	116	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.113	113	0.113	113	0.2	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date _____

11-27-18

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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: 181123GC8A1
Matrix: Air
Reporting Units: % v/v

**ASTM D1946 Low Level Hydrogen
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	11/23/18 7:20			11/23/18 8:04		11/23/18 8:09					
Analyst Initials:	MJ			MJ		MJ					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result	RL	SPIKE	Result		Result		RPD	Limits		
	% v/v	% v/v	AMT. % v/v	% v/v	% Rec.	% v/v	% Rec.	%	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	1.08	108	1.10	110	1.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date 11-27-18

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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: 181123GC8A2
Matrix: Air
Reporting Units: % v/v

ASTM D1946 Low Level Hydrogen
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	11/23/18 9:17			11/23/18 9:07		11/23/18 9:12					
Analyst Initials:	MJ			MJ		MJ					
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	0.010	1.0	1.24	124	1.24	124	0.6	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date

11-27-18

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AirTECHNOLOGY Laboratories, Inc.

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

ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

November 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 ₂ O		
GEW-002	11/7/2018 13:21	54.0	38.4	0.0	7.6	113.1	113.1	16.8	16.8	-0.76	-0.76	-13.1
GEW-002	11/7/2018 13:22	53.6	38.8	0.0	7.6	112.2	112.0	14.5	12.9	-0.4	-0.4	-13.0
GEW-002	11/15/2018 9:44	58.1	39.4	0.0	2.5	110.0	110.0	13.3	14.1	0.2	0.2	-14.4
GEW-002	11/15/2018 9:52	56.9	40.2	0.0	2.9	110.5	110.5	15.1	14.1	0.1	0.1	-14.1
GEW-002	11/16/2018 8:10	57.9	40.5	0.0	1.6	112.2	112.2	14.0	17.3	-0.2	-0.2	-13.8
GEW-002	11/21/2018 10:08	56.9	40.3	0.0	2.8	113.0	113.3	41.7	43.9	-0.8	-0.8	-14.1
GEW-002	11/21/2018 10:10	56.2	41.8	0.0	2.0	113.5	113.5	36.0	38.3	-0.7	-0.7	-13.1
GEW-002	11/26/2018 14:22	58.8	39.5	0.0	1.7	109.2	109.2	20.8	23.0	-0.5	-0.5	-13.5
GEW-003	11/7/2018 13:26	55.5	41.7	0.0	2.8	89.3	89.1	2.8	3.9	0.2	0.2	-12.9
GEW-003	11/7/2018 13:27	55.1	42.3	0.0	2.6	93.6	93.8	3.9	3.9	0.2	0.2	-12.9
GEW-003	11/8/2018 8:06	55.4	44.3	0.0	0.3	97.8	97.7	8.7	8.7	-0.2	-0.2	-13.1
GEW-003	11/8/2018 8:07	55.5	43.7	0.0	0.8	97.0	97.0	7.2	8.7	-0.2	-0.2	-13.0
GEW-003	11/15/2018 9:56	56.2	41.1	0.0	2.7	92.4	92.4	22.9	22.2	0.2	0.2	-13.1
GEW-003	11/15/2018 10:04	55.7	41.7	0.0	2.6	98.0	98.1	10.2	9.9	0.2	0.2	-13.5
GEW-003	11/16/2018 8:13	54.6	41.9	0.0	3.5	106.0	105.7	18.6	18.6	-0.3	-0.3	-13.2
GEW-003	11/16/2018 8:14	54.3	43.3	0.0	2.4	105.7	105.5	15.8	16.1	-0.3	-0.3	-13.3
GEW-003	11/21/2018 10:13	53.1	40.4	0.0	6.5	107.7	108.0	3.9	3.9	-0.1	-0.1	-13.5
GEW-003	11/26/2018 14:25	54.3	39.8	0.0	5.9	97.8	97.9	10.2	6.7	-0.1	-0.1	-13.2
GEW-004	11/7/2018 13:31	53.4	40.3	0.0	6.3	109.2	109.2	3.0	2.7	0.03	0.1	-13.3
GEW-004	11/7/2018 13:32	53.5	40.3	0.0	6.2	109.2	109.0	9.0	9.0	0.03	0.03	-13.0
GEW-004	11/8/2018 8:10	54.2	41.1	0.0	4.7	103.5	104.0	10.2	8.6	-0.3	-0.3	-13.0
GEW-004	11/8/2018 8:12	54.6	40.4	0.0	5.0	102.3	101.4	14.1	14.1	-0.2	-0.2	-13.4
GEW-004	11/15/2018 10:08	54.2	40.9	0.0	4.9	99.3	99.6	25.2	24.8	0.1	0.1	-13.5
GEW-004	11/15/2018 10:17	55.2	38.9	0.0	5.9	99.1	99.7	7.1	13.7	-0.03	-0.01	-13.8
GEW-004	11/21/2018 10:18	55.1	39.6	0.0	5.3	106.5	106.2	10.7	8.8	-0.2	-0.2	-13.1
GEW-004	11/26/2018 14:28	56.0	39.4	0.0	4.6	97.7	97.4	24.2	24.2	-0.2	-0.2	-13.1
GEW-005	11/7/2018 13:46	54.0	36.0	0.0	10.0	87.2	87.1	10.7	11.7	-0.1	-0.1	-13.5
GEW-005	11/15/2018 14:22	54.8	37.8	0.0	7.4	84.7	84.9	7.3	6.8	-0.01	-0.01	-12.6
GEW-005	11/15/2018 14:27	54.5	37.3	0.0	8.2	85.5	85.4	14.0	13.2	-0.02	-0.03	-12.9
GEW-005	11/21/2018 10:42	51.6	37.4	0.0	11.0	86.1	86.1	17.6	18.7	-0.2	-0.2	-13.3
GEW-005	11/21/2018 10:46	52.3	37.0	0.0	10.7	85.6	85.6	15.7	15.7	-0.2	-0.2	-13.0
GEW-005	11/26/2018 14:44	51.7	38.4	0.0	9.9	77.2	77.1	11.2	7.9	-0.2	-0.2	-14.1
GEW-005	11/26/2018 14:45	51.6	37.8	0.0	10.6	76.6	76.8	10.8	8.4	-0.2	-0.1	-13.2
GEW-006	11/7/2018 14:11	56.0	39.3	0.0	4.7	86.8	87.0	9.6	11.4	-0.1	-0.1	-12.9
GEW-006	11/15/2018 14:44	58.1	38.9	0.0	3.0	86.1	86.1	21.1	22.2	-0.1	-0.1	-12.7
GEW-006	11/15/2018 14:50	58.1	38.5	0.0	3.4	85.9	85.8	26.7	26.8	-0.1	-0.1	-12.8
GEW-006	11/21/2018 10:52	55.5	36.9	0.0	7.6	83.7	83.7	28.6	29.4	-0.2	-0.2	-13.3
GEW-006	11/21/2018 10:54	55.2	37.4	0.0	7.4	83.5	83.5	28.2	28.6	-0.2	-0.2	-13.3
GEW-006	11/26/2018 14:51	54.5	38.2	0.0	7.3	76.6	76.8	28.8	28.4	-0.3	-0.3	-13.3
GEW-006	11/26/2018 14:52	54.0	38.3	0.0	7.7	76.6	76.4	29.0	28.3	-0.2	-0.2	-13.1
GEW-007	11/7/2018 10:02	58.3	40.2	0.0	1.5	84.9	84.9	5.9	5.2	-1.3	-1.3	-13.2
GEW-007	11/14/2018 9:34	59.1	39.5	0.0	1.4	74.1	74.1	8.4	8.8	-0.6	-0.6	-13.3

November 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 ₂ O		
GEW-007	11/14/2018 9:41	59.4	39.1	0.0	1.5	74.9	74.6	8.4	8.4	-0.6	-0.6	-13.0
GEW-007	11/21/2018 8:45	58.5	40.1	0.0	1.4	78.7	78.6	10.6	8.5	-0.9	-0.9	-13.5
GEW-007	11/26/2018 9:30	58.7	38.9	0.0	2.4	70.5	70.9	8.4	10.5	-1.6	-1.6	-13.2
GEW-007	11/26/2018 9:31	58.6	40.7	0.0	0.7	71.8	71.8	9.7	9.3	-1.4	-1.4	-13.6
GEW-008	11/9/2018 8:43	56.2	43.3	0.0	0.5	111.2	111.0	27.0	25.6	-0.8	-0.8	-13.1
GEW-008	11/14/2018 9:45	55.1	41.9	0.0	3.0	108.7	108.7	34.9	33.9	-0.6	-0.5	-13.6
GEW-008	11/14/2018 9:51	55.5	41.6	0.0	2.9	108.7	108.5	36.3	35.8	-0.4	-0.5	-13.8
GEW-008	11/21/2018 8:49	54.9	41.0	0.0	4.1	110.2	110.2	19.1	18.9	-0.7	-0.7	-13.6
GEW-008	11/26/2018 9:35	55.1	40.8	0.0	4.1	107.2	107.7	35.5	35.5	-1.0	-1.0	-13.8
GEW-009	11/7/2018 10:07	53.8	41.0	0.0	5.2	124.2	123.8	8.7	7.8	-0.1	-0.1	-13.7
GEW-009	11/14/2018 9:55	53.0	41.3	0.0	5.7	118.1	118.4	10.4	8.9	-0.1	-0.1	-13.6
GEW-009	11/14/2018 10:03	54.1	40.1	0.0	5.8	118.4	118.6	23.4	23.7	-0.1	-0.1	-13.7
GEW-009	11/21/2018 8:53	52.8	40.9	0.0	6.3	119.2	119.5	28.2	26.9	-0.2	-0.2	-13.3
GEW-009	11/21/2018 8:54	53.2	40.3	0.0	6.5	118.6	118.4	9.1	7.3	-0.2	-0.2	-13.7
GEW-009	11/26/2018 9:39	52.6	41.0	0.0	6.4	114.8	114.7	8.5	8.5	-0.3	-0.2	-13.7
GEW-009	11/26/2018 9:40	52.9	40.9	0.0	6.2	115.0	115.5	29.6	30.3	-0.2	-0.2	-13.7
GEW-010	11/7/2018 14:27	56.2	41.4	0.0	2.4	66.8	66.8	3.6	3.6	-0.6	-0.5	-19.3
GEW-010	11/12/2018 8:57	57.0	41.1	0.0	1.9	42.7	42.8	5.2	4.7	-0.7	-0.7	-20.1
GEW-010	11/12/2018 9:05	57.1	40.2	0.0	2.7	42.7	42.8	4.4	4.0	-0.7	-0.7	-19.5
GEW-010	11/20/2018 9:53	57.5	41.7	0.0	0.8	37.5	37.4	6.2	6.2	-0.6	-0.6	-19.8
GEW-010	11/27/2018 9:02	57.7	42.0	0.0	0.3	25.1	25.1	6.7	7.0	-0.7	-0.7	-20.4
GEW-013A	11/6/2018 14:06	9.5	60.4	0.3	29.8	189.6	188.9	18.4	11.0	-10.3	-10.1	-18.8
GEW-013A	11/6/2018 14:08	8.4	62.2	0.3	29.1	189.6	189.6	11.6	8.5	-10.2	-10.7	-18.3
GEW-013A	11/19/2018 14:30	9.3	63.7	0.3	26.7	185.1	184.5	10.3	7.1	-10.9	-10.0	-19.0
GEW-013A	11/19/2018 14:32	9.6	64.1	0.4	25.9	185.1	185.1	8.4	12.6	-10.5	-10.9	-19.0
GEW-015	11/7/2018 8:15	15.4	49.3	0.0	35.3	123.3	123.1	2.8	2.2	-3.2	-3.2	-20.4
GEW-016R	11/7/2018 8:19	1.7	52.3	0.0	46.0	183.2	183.3	7.7	7.1	-1.3	-1.3	-20.0
GEW-016R	11/7/2018 8:20	1.6	52.9	0.0	45.5	183.4	183.9	7.9	7.0	-1.3	-1.3	-19.9
GEW-016R	11/21/2018 10:28	2.0	52.3	0.0	45.7	173.3	173.2	4.6	5.7	-1.6	-1.6	-18.6
GEW-016R	11/21/2018 10:30	1.8	53.8	0.0	44.4	173.1	173.1	5.6	5.4	-1.6	-1.6	-18.6
GEW-018B	11/3/2018 11:32	0.9	33.6	6.9	58.6	154.5	154.0	3.6	4.3	-1.2	-1.2	-19.2
GEW-018B	11/3/2018 11:35	0.5	36.4	6.8	56.3	145.6	144.9	2.1	2.1	-0.6	-0.6	-19.2
GEW-018B	11/5/2018 10:20	1.4	39.3	5.5	53.8	140.4	140.0	12.3	2.5	-0.5	-0.5	-19.9
GEW-018B	11/5/2018 10:21	1.0	41.8	4.5	52.7	140.6	140.6	5.4	11.3	-0.5	-0.4	-19.7
GEW-018B	11/14/2018 13:25	1.4	33.4	8.7	56.5	123.9	122.1	2.9	3.1	-0.9	-0.9	-19.5
GEW-018B	11/16/2018 11:02	0.8	28.6	10.0	60.6	124.4	124.7	10.1	10.4	-1.2	-1.2	-18.9
GEW-018B	11/16/2018 11:05	0.5	28.2	11.0	60.3	105.7	105.2	2.5	1.6	-0.1	-0.1	-19.3
GEW-019A	11/27/2018 14:32	1.8	65.2	0.0	33.0	39.5	39.3	14.0	18.5	32.0	32.5	-15.6
GEW-019A	11/27/2018 14:35	1.2	68.1	0.0	30.7	41.8	41.6	5.8	12.3	-1.6	-1.6	-16.5
GEW-019A	11/29/2018 8:58	1.9	61.6	0.3	36.2	47.3	47.3	9.3	6.7	-16.1	-16.1	-17.3
GEW-039	11/8/2018 13:54	32.9	38.3	0.4	28.4	109.0	109.0	17.0	17.7	-1.0	-1.0	-19.8
GEW-039	11/13/2018 15:14	33.6	38.1	0.9	27.4	104.1	104.1	20.4	15.3	-0.9	-1.0	-18.1

November 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 ₂ O		
GEW-039	11/13/2018 15:21	33.8	35.1	1.0	30.1	104.0	103.8	20.7	22.8	-0.9	-1.0	-18.0
GEW-039	11/21/2018 14:31	33.8	32.4	1.1	32.7	112.2	112.3	20.2	18.5	-1.1	-1.0	-20.9
GEW-039	11/27/2018 14:41	33.5	39.1	1.2	26.2	103.5	103.5	20.5	17.9	-1.0	-1.0	-18.7
GEW-040	11/7/2018 10:30	55.4	38.1	0.0	6.5	58.2	58.2	4.4	4.6	-0.6	-0.6	-13.2
GEW-040	11/7/2018 10:32	55.4	38.6	0.0	6.0	58.2	58.2	3.5	2.5	-0.6	-0.6	-13.1
GEW-040	11/14/2018 11:30	57.9	37.8	0.0	4.3	36.4	36.4	7.7	8.7	-0.5	-0.5	-11.9
GEW-040	11/14/2018 11:38	58.7	36.2	0.0	5.1	36.9	36.9	10.4	10.0	-0.4	-0.4	-12.9
GEW-040	11/21/2018 9:26	57.4	38.2	0.0	4.4	45.0	45.0	13.0	13.0	-0.5	-0.5	-10.5
GEW-040	11/26/2018 10:14	57.0	39.8	0.0	3.2	32.7	32.7	6.5	6.5	-0.4	-0.4	-11.1
GEW-041R	11/7/2018 10:36	58.5	37.7	0.0	3.8	95.8	95.8	12.7	12.4	-0.2	-0.2	-13.2
GEW-041R	11/15/2018 8:35	56.9	37.1	0.0	6.0	87.0	86.8	6.2	11.2	-0.2	-0.1	-10.8
GEW-041R	11/15/2018 8:42	57.5	36.7	0.0	5.8	86.6	86.3	4.8	10.3	-0.2	-0.2	-10.8
GEW-041R	11/21/2018 9:29	59.2	37.0	0.0	3.8	91.7	91.8	10.9	11.2	-0.2	-0.2	-10.2
GEW-041R	11/26/2018 10:19	60.1	37.2	0.0	2.7	81.9	81.9	17.1	17.6	-0.2	-0.2	-11.1
GEW-042R	11/7/2018 10:39	58.6	39.6	0.0	1.8	102.1	102.3	31.8	32.3	-1.2	-1.2	-13.2
GEW-042R	11/15/2018 8:22	58.0	40.3	0.0	1.7	95.1	95.0	10.2	10.7	-1.0	-1.0	-11.3
GEW-042R	11/15/2018 8:30	58.0	37.6	0.0	4.4	95.7	95.5	40.4	40.2	-1.1	-1.1	-11.4
GEW-042R	11/21/2018 9:33	58.3	39.0	0.0	2.7	99.6	99.6	15.0	14.5	-1.1	-1.0	-10.7
GEW-042R	11/26/2018 11:15	58.6	41.1	0.0	0.3	94.1	93.6	31.5	31.8	-1.1	-1.1	-11.3
GEW-043R	11/7/2018 10:43	55.9	40.8	0.0	3.3	117.3	117.4	33.3	31.4	-0.6	-0.6	-12.9
GEW-043R	11/15/2018 8:48	57.2	40.0	0.0	2.8	114.5	114.5	28.3	27.2	-0.3	-0.3	-11.6
GEW-043R	11/15/2018 8:55	56.4	40.6	0.0	3.0	114.6	114.8	28.4	27.2	-0.2	-0.2	-11.1
GEW-043R	11/21/2018 9:36	55.5	40.4	0.0	4.1	122.2	122.3	25.8	27.2	-0.5	-0.5	-10.7
GEW-043R	11/26/2018 11:18	58.5	38.7	0.0	2.8	113.3	112.9	28.7	29.2	-0.7	-0.7	-10.2
GEW-044	11/7/2018 10:46	52.1	38.7	0.0	9.2	84.4	84.2	2.0	4.4	-0.4	-0.4	-13.2
GEW-044	11/7/2018 10:48	52.3	38.3	0.0	9.4	80.0	79.4	6.5	6.5	-0.1	-0.1	-13.1
GEW-044	11/15/2018 9:00	57.5	40.9	0.0	1.6	33.4	33.4	7.7	5.8	0.03	0.03	-11.3
GEW-044	11/15/2018 9:08	58.2	38.9	0.0	2.9	39.2	39.2	7.7	7.1	-0.1	-0.1	-10.8
GEW-044	11/21/2018 9:40	58.7	40.0	0.0	1.3	73.9	73.9	16.3	18.0	-0.4	-0.4	-10.1
GEW-044	11/26/2018 11:22	58.1	38.9	0.0	3.0	33.6	33.5	25.0	25.0	-0.3	-0.3	-10.7
GEW-045R	11/7/2018 10:59	56.4	41.3	0.0	2.3	83.7	83.7	9.8	9.4	-0.3	-0.3	-13.2
GEW-045R	11/15/2018 9:16	56.8	40.9	0.0	2.3	68.4	68.4	8.4	8.0	-0.03	-0.02	-13.0
GEW-045R	11/15/2018 9:23	57.1	40.5	0.0	2.4	70.9	70.8	9.7	8.4	-0.3	-0.3	-12.7
GEW-045R	11/21/2018 9:57	57.2	40.6	0.0	2.2	83.6	83.6	10.9	10.6	-0.7	-0.7	-13.1
GEW-045R	11/26/2018 11:27	58.7	38.9	0.0	2.4	62.6	62.8	2.8	5.7	-0.4	-0.4	-12.9
GEW-046R	11/7/2018 11:03	56.3	41.1	0.0	2.6	93.3	93.6	4.6	4.2	-0.1	-0.1	-13.1
GEW-046R	11/15/2018 9:27	57.7	39.8	0.0	2.5	86.3	86.7	6.8	6.2	0.0	0.01	-12.9
GEW-046R	11/15/2018 9:34	58.4	39.0	0.0	2.6	88.3	88.4	8.7	7.3	0.0	0.0	-12.7
GEW-046R	11/16/2018 8:06	57.6	42.1	0.0	0.3	90.5	90.8	17.4	15.8	-0.4	-0.4	-13.0
GEW-046R	11/21/2018 10:01	56.7	39.4	0.0	3.9	95.2	95.1	3.9	3.9	-0.2	-0.2	-13.0
GEW-046R	11/26/2018 11:30	57.0	39.8	0.0	3.2	86.1	86.8	25.9	25.9	-0.2	-0.2	-13.0
GEW-047R	11/7/2018 13:36	54.2	40.2	0.0	5.6	108.0	108.0	2.6	2.8	-0.02	-0.02	-13.2

November 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 ₂ O		
GEW-047R	11/15/2018 13:58	55.5	39.8	0.0	4.7	110.7	110.7	23.3	22.0	-0.1	-0.1	-13.4
GEW-047R	11/15/2018 14:05	55.2	39.1	0.0	5.7	111.5	111.5	19.2	18.8	-0.1	-0.1	-13.5
GEW-047R	11/21/2018 10:36	52.1	38.7	0.0	9.2	109.0	109.0	37.5	37.3	-0.4	-0.4	-13.7
GEW-047R	11/21/2018 10:38	52.2	39.4	0.0	8.4	108.2	108.2	34.3	33.4	-0.4	-0.4	-13.3
GEW-047R	11/26/2018 14:38	53.1	39.7	0.0	7.2	102.5	102.5	34.1	34.2	-0.3	-0.4	-13.6
GEW-047R	11/26/2018 14:39	52.6	39.6	0.0	7.8	101.1	101.3	37.7	36.9	-0.3	-0.3	-14.0
GEW-048	11/7/2018 14:07	56.3	43.0	0.0	0.7	97.2	97.3	5.5	5.3	-0.1	-0.1	-12.9
GEW-048	11/15/2018 14:32	58.0	40.2	0.0	1.8	96.5	96.5	20.2	20.8	-0.1	-0.04	-13.4
GEW-048	11/15/2018 14:39	57.9	40.2	0.0	1.9	96.5	96.5	5.6	6.2	-0.01	-0.02	-12.9
GEW-048	11/21/2018 10:49	58.8	38.3	0.0	2.9	96.8	96.9	15.6	16.8	-0.4	-0.4	-13.6
GEW-048	11/26/2018 14:48	58.6	39.3	0.0	2.1	89.8	89.8	30.7	30.5	-0.4	-0.4	-12.9
GEW-049	11/7/2018 10:52	55.9	38.6	0.0	5.5	102.5	102.5	11.1	11.1	-0.3	-0.3	-13.1
GEW-049	11/15/2018 14:08	57.3	39.9	0.0	2.8	101.4	101.6	19.6	19.2	-0.1	-0.1	-13.7
GEW-049	11/15/2018 14:15	57.1	39.4	0.0	3.5	101.8	101.9	23.2	22.2	-0.1	-0.1	-12.8
GEW-049	11/21/2018 9:44	55.1	37.6	0.0	7.3	101.7	101.6	11.8	9.6	-0.5	-0.5	-13.1
GEW-049	11/21/2018 9:46	54.9	38.4	0.0	6.7	101.0	100.9	14.5	12.1	-0.5	-0.5	-13.3
GEW-049	11/26/2018 14:59	55.2	38.9	0.0	5.9	92.5	92.4	32.4	32.4	-0.4	-0.4	-13.5
GEW-049	11/26/2018 15:00	55.3	39.0	0.0	5.7	92.5	92.4	33.3	33.6	-0.2	-0.3	-12.8
GEW-050	11/7/2018 9:52	57.3	38.8	0.0	3.9	102.1	102.3	14.3	9.0	-0.6	-0.6	-8.5
GEW-050	11/14/2018 9:09	58.5	38.4	0.0	3.1	98.7	98.7	24.1	24.0	-0.3	-0.3	-8.5
GEW-050	11/14/2018 9:17	58.3	37.6	0.0	4.1	98.7	98.5	30.3	29.3	-0.3	-0.3	-9.1
GEW-050	11/21/2018 8:37	56.7	38.5	0.0	4.8	99.9	100.1	23.1	21.8	-0.5	-0.5	-10.8
GEW-050	11/26/2018 9:21	56.4	39.1	0.0	4.5	96.4	96.3	32.3	32.4	-0.7	-0.6	-7.3
GEW-051	11/7/2018 10:12	56.9	41.4	0.0	1.7	119.9	120.4	13.3	15.0	-1.0	-1.0	-13.8
GEW-051	11/14/2018 10:19	57.5	39.5	0.0	3.0	116.3	116.3	15.2	14.2	-0.5	-0.5	-12.8
GEW-051	11/14/2018 10:27	57.2	39.9	0.0	2.9	116.3	116.2	12.3	14.5	-0.6	-0.6	-13.0
GEW-051	11/21/2018 8:59	55.2	41.4	0.0	3.4	118.4	118.1	11.0	11.6	-0.9	-0.9	-11.9
GEW-051	11/26/2018 9:45	56.4	40.5	0.0	3.1	113.5	113.5	11.4	12.0	-1.2	-1.3	-12.4
GEW-052	11/7/2018 9:56	52.8	37.2	0.0	10.0	107.5	107.4	22.9	23.1	-0.2	-0.2	-13.5
GEW-052	11/7/2018 9:58	52.8	38.6	0.0	8.6	106.9	106.6	8.2	7.9	-0.2	-0.2	-13.6
GEW-052	11/14/2018 9:21	54.1	37.7	0.0	8.2	102.5	102.8	9.8	8.6	-0.1	-0.1	-13.3
GEW-052	11/14/2018 9:29	53.4	37.9	0.0	8.7	101.6	101.6	9.8	9.8	-0.02	-0.02	-12.9
GEW-052	11/21/2018 8:40	53.1	36.5	0.0	10.4	104.3	104.7	27.9	26.4	-0.1	-0.1	-13.5
GEW-052	11/21/2018 8:42	52.4	37.2	0.0	10.4	104.5	104.3	7.9	11.1	-0.1	-0.1	-13.9
GEW-052	11/26/2018 9:25	50.6	35.4	0.0	14.0	95.3	95.3	27.7	27.3	-0.3	-0.4	-13.8
GEW-052	11/26/2018 9:26	49.9	37.1	0.0	13.0	90.5	90.5	27.9	27.8	-0.3	-0.3	-13.2
GEW-053	11/7/2018 10:16	52.5	40.8	0.0	6.7	141.9	141.9	10.7	13.0	-0.6	-0.6	-13.2
GEW-053	11/7/2018 10:17	52.2	42.2	0.0	5.6	141.9	141.9	7.7	10.0	-0.6	-0.6	-13.0
GEW-053	11/14/2018 10:35	53.5	39.6	0.0	6.9	140.6	140.0	9.9	9.9	-0.2	-0.2	-12.7
GEW-053	11/14/2018 10:42	53.6	40.2	0.0	6.2	140.9	140.6	13.2	11.2	-0.2	-0.2	-12.9
GEW-053	11/21/2018 9:07	52.2	40.4	0.0	7.4	140.6	139.8	8.9	7.6	-0.5	-0.6	-10.7
GEW-053	11/21/2018 9:08	51.9	41.3	0.0	6.8	140.4	139.9	12.9	10.1	-0.6	-0.5	-11.1

November 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 ₂ O		
GEW-053	11/26/2018 9:52	53.4	40.7	0.0	5.9	138.7	138.7	11.5	11.5	-0.9	-0.9	-10.9
GEW-053	11/26/2018 9:53	52.7	41.4	0.0	5.9	138.7	138.7	10.9	9.9	-0.9	-0.9	-11.6
GEW-054	11/7/2018 10:21	52.8	42.2	0.0	5.0	145.9	145.7	45.3	49.7	-4.2	-4.2	-14.2
GEW-054	11/7/2018 10:22	53.2	42.2	0.0	4.6	145.9	145.9	44.3	46.5	-4.1	-4.1	-12.9
GEW-054	11/14/2018 10:48	53.0	42.2	0.0	4.8	142.9	142.9	44.2	38.2	-4.5	-4.5	-13.1
GEW-054	11/14/2018 10:56	54.1	40.7	0.0	5.2	142.9	142.9	46.9	36.4	-4.2	-4.2	-11.5
GEW-054	11/21/2018 9:11	53.2	41.3	0.0	5.5	145.6	145.6	35.0	40.9	-3.4	-3.5	-11.8
GEW-054	11/21/2018 9:13	53.3	41.9	0.0	4.8	145.5	145.2	49.2	53.4	-3.7	-3.7	-11.1
GEW-054	11/26/2018 10:03	53.4	40.9	0.0	5.7	142.9	142.9	41.7	43.6	-4.4	-4.5	-11.7
GEW-054	11/26/2018 10:04	53.2	41.0	0.0	5.8	142.9	142.9	35.0	38.8	-4.3	-4.2	-11.3
GEW-055	11/7/2018 10:26	53.1	42.1	0.0	4.8	123.0	122.9	5.6	9.5	-0.4	-0.4	-12.9
GEW-055	11/14/2018 11:16	52.1	44.9	0.0	3.0	115.3	115.5	8.6	4.6	-0.1	-0.1	-10.8
GEW-055	11/14/2018 11:24	53.5	41.9	0.0	4.6	115.8	115.8	3.8	1.1	-0.1	-0.1	-9.7
GEW-055	11/21/2018 9:22	53.2	41.1	0.0	5.7	121.5	121.5	5.6	5.6	-0.4	-0.4	-10.5
GEW-055	11/26/2018 10:11	53.7	41.1	0.0	5.2	103.5	103.7	5.6	4.8	-0.6	-0.7	-11.1
GEW-056R	11/7/2018 14:39	41.3	44.2	0.0	14.5	92.7	92.5	2.3	2.3	-0.4	-0.4	-19.3
GEW-056R	11/12/2018 9:50	42.6	46.8	0.0	10.6	70.2	70.0	2.1	2.4	-0.4	-0.4	-19.7
GEW-056R	11/12/2018 9:57	44.2	41.7	0.0	14.1	69.3	69.1	4.1	2.7	-0.5	-0.5	-20.1
GEW-056R	11/20/2018 10:10	42.7	44.4	0.0	12.9	64.2	64.3	3.3	3.5	-0.5	-0.5	-19.7
GEW-056R	11/27/2018 9:16	41.0	43.5	0.0	15.5	49.9	50.0	2.8	4.5	-0.4	-0.4	-20.2
GEW-057B	11/6/2018 9:44	1.2	55.8	0.0	43.0	180.8	180.9	6.3	5.6	-10.1	-10.1	-19.6
GEW-057B	11/6/2018 9:46	1.1	58.8	0.0	40.1	179.7	179.7	7.5	5.0	-8.9	-9.0	-19.5
GEW-057B	11/19/2018 10:57	2.2	53.8	0.0	44.0	173.1	173.1	6.0	5.0	-10.9	-10.9	-19.6
GEW-057B	11/19/2018 10:59	1.9	56.3	0.0	41.8	173.1	173.1	6.6	6.4	-10.6	-10.7	-19.6
GEW-058A	11/6/2018 9:01	0.6	38.1	3.5	57.8	59.4	59.4	2.7	2.7	-0.9	-0.9	-19.5
GEW-059R	11/5/2018 14:19	33.4	37.7	0.0	28.9	159.4	159.4	14.9	13.9	-19.2	-19.2	-20.3
GEW-059R	11/5/2018 14:21	30.0	42.0	0.0	28.0	159.4	159.0	14.0	14.2	-18.6	-18.6	-20.1
GEW-059R	11/19/2018 8:25	34.0	37.0	0.2	28.8	155.6	155.3	10.9	10.0	-17.8	-17.8	-19.7
GEW-059R	11/19/2018 8:26	30.7	38.4	0.1	30.8	155.6	155.6	10.9	10.4	-17.8	-17.8	-19.7
GEW-067A	11/6/2018 13:51	8.9	49.6	1.2	40.3	66.8	66.8	17.6	15.8	-0.3	-0.3	-17.0
GEW-068A	11/6/2018 10:46	4.5	56.8	0.0	38.7	198.6	198.6	19.9	24.4	-8.7	-8.5	-19.5
GEW-068A	11/6/2018 10:47	4.2	59.9	0.0	35.9	198.6	198.6	12.9	17.4	-8.7	-8.5	-19.1
GEW-068A	11/19/2018 11:12	11.2	52.9	0.1	35.8	186.1	186.1	34.5	34.1	-12.9	-12.8	-19.3
GEW-068A	11/19/2018 11:14	11.2	53.7	0.1	35.0	186.4	186.4	34.1	34.2	-12.9	-12.8	-19.1
GEW-078R	11/7/2018 9:28	9.8	33.5	0.0	56.7	154.0	154.0	16.2	12.1	-16.7	-17.6	-19.1
GEW-078R	11/7/2018 9:29	9.9	34.1	0.0	56.0	153.9	154.0	8.9	25.0	-17.5	-17.2	-19.1
GEW-078R	11/21/2018 10:44	5.4	29.2	0.0	65.4	151.3	151.3	15.9	23.1	-16.9	-15.4	-20.7
GEW-078R	11/21/2018 10:45	5.4	30.4	0.0	64.2	151.7	151.7	28.8	18.4	-16.4	-16.9	-19.1
GEW-082R	11/6/2018 14:23	12.2	38.7	0.0	49.1	174.1	173.6	2.8	1.0	-11.4	-11.4	-20.4
GEW-082R	11/6/2018 14:25	11.7	39.4	0.0	48.9	174.1	173.6	23.4	24.1	-12.3	-12.3	-21.0
GEW-082R	11/19/2018 13:51	9.0	41.5	0.0	49.5	167.1	167.1	0.0	4.7	-11.5	-11.4	-19.0
GEW-082R	11/19/2018 13:53	9.8	39.0	0.0	51.2	167.1	167.1	4.0	2.2	-11.5	-11.4	-18.7

November 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 ₂ O		
GEW-086	11/6/2018 14:02	18.5	38.2	1.8	41.5	81.9	81.9	14.3	15.2	-0.5	-0.5	-18.7
GEW-087	11/5/2018 14:38	6.3	30.1	5.7	57.9	80.7	80.5	4.4	4.8	-0.4	-0.4	-19.8
GEW-087	11/5/2018 14:39	6.1	29.7	5.7	58.5	73.9	73.8	2.4	3.2	-0.1	-0.1	-20.0
GEW-087	11/19/2018 8:55	4.9	28.4	7.4	59.3	60.0	60.0	2.1	2.1	-0.1	-0.1	-19.2
GEW-087	11/19/2018 8:56	4.8	28.0	7.5	59.7	60.2	60.2	3.6	1.7	-0.1	-0.1	-19.7
GEW-088	11/6/2018 13:58	2.2	49.1	0.0	48.7	194.5	194.4	1.7	1.4	-0.1	-0.1	-19.0
GEW-088	11/6/2018 14:01	1.9	51.1	0.0	47.0	194.8	195.0	4.3	3.5	-0.1	-0.1	-18.9
GEW-088	11/19/2018 14:20	2.0	51.2	0.0	46.8	190.9	190.9	14.2	13.8	-1.0	-1.0	-19.0
GEW-088	11/19/2018 14:22	1.9	51.5	0.0	46.6	190.9	190.9	13.6	15.5	-0.9	-1.0	-19.0
GEW-090	11/6/2018 13:43	27.6	46.5	0.2	25.7	173.1	173.1	6.2	6.1	-9.3	-9.2	-19.1
GEW-090	11/6/2018 13:45	27.5	46.6	0.1	25.8	172.6	172.6	6.6	7.4	-9.3	-9.3	-19.1
GEW-090	11/19/2018 14:15	25.9	46.5	0.1	27.5	169.0	169.0	7.5	6.2	-9.1	-9.1	-19.6
GEW-090	11/19/2018 14:16	25.8	46.9	0.1	27.2	169.0	169.5	7.3	6.8	-9.1	-9.1	-19.5
GEW-091	11/9/2018 10:54	2.3	36.1	8.9	52.7	167.6	168.1	11.0	11.6	-19.0	-18.9	-19.9
GEW-091	11/9/2018 11:04	2.7	41.8	4.8	50.7	162.9	163.6	10.7	11.0	-11.2	-11.2	-20.0
GEW-091	11/12/2018 11:01	2.4	51.5	0.0	46.1	192.9	192.5	44.2	43.9	1.8	1.8	-19.5
GEW-091	11/12/2018 11:04	2.1	55.4	0.0	42.5	193.6	194.3	47.4	48.1	-0.4	-0.5	-19.0
GEW-091	11/16/2018 11:25	3.4	51.7	1.3	43.6	191.5	191.6	10.1	10.9	-8.7	-8.7	-19.6
GEW-091	11/23/2018 8:25	3.6	48.4	0.4	47.6	184.5	184.5	21.7	22.0	-15.4	-15.4	-20.1
GEW-091	11/23/2018 8:26	3.3	51.5	0.4	44.8	183.9	183.9	20.1	20.1	-15.0	-15.0	-20.1
GEW-100	11/6/2018 10:59	1.0	61.0	0.0	38.0	63.1	63.1	8.7	9.4	1.4	1.4	-19.2
GEW-100	11/6/2018 11:02	0.9	62.0	0.8	36.3	62.4	62.3	5.0	5.0	-10.7	-10.7	-19.5
GEW-101	11/6/2018 10:38	20.8	61.0	0.7	17.5	79.6	79.6	2.1	2.4	-0.01	-0.02	-16.7
GEW-101	11/6/2018 10:39	21.1	62.4	0.9	15.6	84.9	84.9	5.7	5.1	-0.1	-0.1	-15.7
GEW-102	11/6/2018 9:59	11.1	48.7	3.4	36.8	67.5	67.7	3.6	2.8	-19.5	-19.5	-19.5
GEW-102	11/6/2018 10:01	11.8	47.1	3.9	37.2	69.3	69.3	2.0	3.8	-17.0	-17.0	-19.5
GEW-104	11/6/2018 9:37	30.6	38.0	0.1	31.3	116.8	117.1	2.2	4.3	-10.1	-10.1	-16.2
GEW-105	11/6/2018 9:14	18.8	55.9	0.0	25.3	95.3	95.7	2.7	2.5	-8.2	-8.2	-19.6
GEW-105	11/16/2018 9:57	15.9	51.8	0.7	31.6	91.9	93.9	8.9	8.8	-4.7	-4.7	-19.6
GEW-106	11/6/2018 9:06	14.3	44.1	2.5	39.1	70.3	70.3	9.8	10.7	-10.1	-10.1	-20.0
GEW-106	11/6/2018 9:08	14.9	43.2	2.3	39.6	67.7	67.6	3.8	1.7	-2.6	-2.6	-19.8
GEW-107	11/5/2018 14:24	11.8	53.9	0.0	34.3	136.4	135.6	5.6	5.6	-5.4	-5.4	-20.0
GEW-107	11/5/2018 14:25	11.5	56.0	0.0	32.5	136.4	136.0	2.5	5.6	-5.4	-5.4	-20.1
GEW-107	11/19/2018 8:34	14.0	53.2	0.1	32.7	140.2	140.6	10.2	11.0	-4.9	-4.9	-20.0
GEW-107	11/19/2018 8:35	13.2	53.3	0.1	33.4	140.2	139.9	5.5	7.8	-4.8	-4.8	-19.7
GEW-108	11/9/2018 9:13	32.4	45.0	1.5	21.1	126.3	126.1	2.8	1.1	-7.7	-7.6	-19.2
GEW-108	11/9/2018 9:20	34.0	40.5	1.7	23.8	127.7	127.5	2.8	1.8	-7.7	-7.7	-19.4
GEW-108	11/16/2018 11:42	35.6	41.8	0.4	22.2	123.4	123.5	23.5	23.8	-7.7	-7.7	-19.6
GEW-109	11/8/2018 13:51	32.4	40.2	0.0	27.4	82.6	82.8	1.6	2.0	-6.7	-6.6	-20.2
GEW-109	11/13/2018 15:00	33.1	39.7	0.0	27.2	72.8	72.7	2.6	2.0	-6.0	-6.0	-18.9
GEW-109	11/13/2018 15:08	32.7	39.3	0.0	28.0	73.2	73.2	2.0	1.7	-6.0	-6.0	-19.0
GEW-109	11/23/2018 8:21	31.9	39.4	0.0	28.7	78.0	77.8	1.6	1.2	-6.7	-6.7	-20.6

November 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 ₂ O		
GEW-109	11/27/2018 14:38	32.7	41.2	0.0	26.1	74.5	74.5	5.1	3.7	-6.7	-6.7	-20.1
GEW-110	11/7/2018 14:30	9.9	19.8	13.2	57.1	72.4	72.5	3.4	5.5	-0.04	-0.1	-19.3
GEW-110	11/7/2018 14:31	9.9	18.1	13.6	58.4	72.5	72.5	6.1	3.8	-0.1	-0.04	-19.7
GEW-110	11/12/2018 9:10	7.6	13.4	16.7	62.3	42.5	42.5	4.9	4.3	-0.03	-0.04	-19.7
GEW-110	11/12/2018 9:20	7.1	9.4	17.7	65.8	42.4	42.3	2.5	3.4	-0.1	-0.1	-19.2
GEW-110	11/20/2018 9:59	15.4	18.1	13.3	53.2	37.1	37.0	1.0	2.1	-0.3	-0.3	-19.7
GEW-110	11/20/2018 10:01	14.8	17.3	13.8	54.1	36.7	36.7	2.7	0.8	-0.1	-0.1	-19.6
GEW-110	11/27/2018 9:05	23.3	26.9	8.4	41.4	23.3	23.3	5.1	9.7	-0.1	-0.1	-20.0
GEW-110	11/27/2018 9:06	23.2	27.0	8.4	41.4	23.6	23.6	2.9	3.2	-0.1	-0.1	-20.0
GEW-113	11/7/2018 8:10	7.9	36.5	7.1	48.5	136.6	136.8	13.9	11.6	-2.2	-2.2	-19.6
GEW-113	11/7/2018 8:12	7.4	36.7	7.2	48.7	135.9	135.9	8.9	3.0	-2.0	-2.0	-19.6
GEW-113	11/19/2018 14:11	8.0	44.8	5.7	41.5	132.3	132.6	3.5	5.3	-1.8	-1.8	-19.0
GEW-113	11/21/2018 10:24	9.9	37.0	6.1	47.0	111.8	111.8	9.9	13.9	-0.9	-0.9	-19.1
GEW-113	11/21/2018 10:25	9.7	37.9	6.1	46.3	112.0	112.0	8.9	12.1	-0.9	-0.9	-19.1
GEW-116	11/3/2018 11:23	5.0	59.4	0.0	35.6	125.1	124.7	19.9	20.0	-0.7	-0.7	-19.2
GEW-116	11/5/2018 10:30	6.8	62.7	0.1	30.4	99.1	99.1	27.6	25.8	-14.0	-13.5	-19.9
GEW-117	11/3/2018 15:43	44.5	50.7	0.0	4.8	59.2	59.4	2.8	2.6	-15.7	-15.5	-19.2
GEW-117	11/5/2018 10:57	42.9	50.3	0.0	6.8	72.7	73.0	7.4	14.5	-15.4	-15.4	-19.9
GEW-118	11/3/2018 15:59	1.7	59.7	0.0	38.6	198.6	198.6	9.2	8.6	-0.8	-0.8	-19.6
GEW-118	11/3/2018 16:01	1.9	60.3	0.0	37.8	200.6	200.5	20.8	20.7	-2.7	-2.7	-20.0
GEW-118	11/5/2018 10:52	3.9	53.3	0.3	42.5	190.2	190.1	14.2	17.2	-8.5	-8.5	-20.1
GEW-118	11/5/2018 10:53	3.1	53.3	0.2	43.4	190.2	190.2	14.7	16.5	-8.5	-8.5	-19.9
GEW-118	11/16/2018 11:09	6.2	47.9	0.5	45.4	185.1	185.1	17.6	17.2	-16.1	-16.1	-18.7
GEW-118	11/16/2018 11:10	5.9	50.9	0.4	42.8	185.1	185.1	16.4	15.9	-15.5	-15.5	-18.9
GEW-120	11/3/2018 16:08	35.9	51.8	0.0	12.3	121.2	120.5	35.9	34.3	-1.6	-1.5	-19.7
GEW-120	11/5/2018 11:04	26.0	54.0	0.3	19.7	126.7	125.6	24.1	24.0	-0.8	-0.8	-19.6
GEW-121	11/3/2018 11:48	3.1	44.0	4.9	48.0	145.2	145.6	8.5	13.0	-0.4	-0.4	-17.3
GEW-121	11/3/2018 11:51	3.2	44.8	4.9	47.1	145.6	145.2	10.3	4.6	-0.4	-0.4	-18.1
GEW-121	11/5/2018 11:12	5.3	45.4	5.6	43.7	144.9	144.5	16.3	4.1	-0.8	-0.9	-18.6
GEW-121	11/5/2018 11:14	4.9	44.5	6.2	44.4	144.5	144.2	8.7	12.9	-0.9	-0.9	-19.0
GEW-121	11/16/2018 11:13	7.0	36.6	5.1	51.3	155.2	155.6	13.3	18.5	-8.2	-8.1	-19.2
GEW-121	11/16/2018 11:18	0.1	3.0	21.4	75.5	110.5	110.0	3.3	3.1	-0.7	-0.7	-19.0
GEW-121	11/19/2018 9:00	1.3	28.8	11.0	58.9	40.8	40.8	3.4	3.6	-0.4	-0.4	-18.9
GEW-122	11/6/2018 14:09	32.6	48.5	0.0	18.9	115.5	115.8	25.9	21.4	-16.3	-15.4	-18.7
GEW-123	11/3/2018 12:01	9.9	36.6	0.7	52.8	112.7	112.7	14.6	10.0	-10.5	-10.6	-19.3
GEW-123	11/5/2018 11:23	9.6	35.7	2.1	52.6	108.0	107.7	10.4	10.4	-8.9	-8.6	-14.6
GEW-124	11/3/2018 12:12	48.8	32.5	3.2	15.5	52.5	52.5	11.7	11.4	-19.3	-19.3	-18.7
GEW-124	11/5/2018 11:29	39.1	37.3	4.6	19.0	57.2	57.0	4.3	7.7	-14.4	-14.4	-14.6
GEW-125	11/6/2018 14:04	4.4	51.1	0.7	43.8	145.6	145.2	18.5	13.4	-4.1	-4.1	-18.9
GEW-125	11/6/2018 14:05	4.3	52.3	0.8	42.6	145.6	145.6	11.7	14.5	-4.1	-4.1	-18.6
GEW-125	11/14/2018 10:50	6.8	51.0	0.8	41.4	148.5	148.8	13.5	6.8	-2.4	-2.3	-19.3
GEW-125	11/19/2018 13:45	10.5	52.1	0.0	37.4	151.7	151.7	10.1	11.6	-2.3	-2.4	-18.8

November 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 ₂ O		
GEW-125	11/19/2018 13:47	7.9	54.0	0.0	38.1	151.0	151.0	16.7	13.1	-2.8	-2.7	-19.2
GEW-126	11/6/2018 13:49	18.7	46.3	0.8	34.2	85.8	85.8	5.1	4.6	-14.8	-14.8	-18.8
GEW-127	11/6/2018 13:41	16.9	49.2	1.4	32.5	159.5	159.8	15.4	16.3	-3.0	-3.1	-18.6
GEW-127	11/6/2018 13:42	16.9	49.5	1.3	32.3	159.4	159.4	14.5	12.3	-3.2	-3.2	-18.7
GEW-127	11/19/2018 11:54	18.0	52.2	1.3	28.5	152.4	152.4	17.2	17.2	-3.1	-3.1	-18.8
GEW-127	11/19/2018 11:55	17.9	53.6	1.3	27.2	152.6	152.6	12.4	7.9	-3.3	-3.3	-18.7
GEW-128	11/6/2018 11:40	16.7	53.4	3.4	26.5	154.0	154.0	6.8	7.7	-0.5	-0.5	-19.7
GEW-128	11/6/2018 11:41	17.1	51.9	3.4	27.6	152.9	152.9	10.0	4.7	-0.4	-0.4	-19.8
GEW-128	11/13/2018 14:05	17.4	47.6	4.5	30.5	151.3	151.3	8.0	6.9	-0.4	-0.4	-19.9
GEW-128	11/13/2018 14:18	17.1	48.6	4.5	29.8	151.3	151.8	6.8	7.0	-0.3	-0.3	-19.5
GEW-128	11/19/2018 11:46	15.2	51.4	4.4	29.0	139.0	139.0	1.5	6.1	-0.3	-0.3	-19.9
GEW-128	11/19/2018 11:48	16.1	50.0	4.4	29.5	139.0	139.0	4.9	4.8	-0.3	-0.3	-19.6
GEW-129	11/6/2018 11:35	15.4	61.4	0.0	23.2	141.5	141.2	6.3	6.7	-3.2	-3.2	-19.3
GEW-129	11/6/2018 11:36	15.4	61.9	0.0	22.7	141.5	141.5	5.9	5.4	-3.2	-3.2	-19.3
GEW-129	11/19/2018 11:42	14.5	60.4	0.0	25.1	137.1	137.1	4.6	5.9	-3.1	-3.1	-19.5
GEW-129	11/19/2018 11:44	14.7	61.3	0.0	24.0	137.8	138.0	5.7	5.4	-3.1	-3.1	-19.7
GEW-130	11/6/2018 13:45	17.7	48.4	0.6	33.3	180.8	179.8	15.3	18.7	-2.8	-2.8	-18.5
GEW-130	11/6/2018 13:46	17.9	48.8	0.6	32.7	180.1	179.7	16.0	15.4	-2.8	-2.9	-18.9
GEW-130	11/14/2018 8:07	16.6	48.3	1.4	33.7	180.3	180.3	10.6	5.3	-3.8	-3.8	-19.5
GEW-130	11/19/2018 11:31	15.1	49.6	1.2	34.1	174.7	174.2	7.4	6.6	-3.4	-3.3	-11.8
GEW-130	11/19/2018 11:33	16.0	50.2	1.2	32.6	174.7	174.7	12.8	11.7	-3.5	-3.5	-17.4
GEW-131	11/6/2018 13:57	4.9	51.0	0.0	44.1	74.7	74.8	4.0	8.4	1.8	1.8	-18.9
GEW-131	11/6/2018 14:00	13.6	52.7	0.0	33.7	144.3	145.6	5.1	3.0	-0.8	-0.8	-19.0
GEW-131	11/19/2018 13:40	37.2	44.5	0.0	18.3	137.1	137.0	3.2	7.1	-3.2	-3.2	-19.4
GEW-131	11/19/2018 13:41	37.0	44.4	0.0	18.6	137.4	138.0	7.6	8.0	-3.2	-3.2	-19.1
GEW-132	11/3/2018 15:51	1.8	51.0	0.0	47.2	146.5	147.0	21.5	15.2	-2.3	-2.0	-19.2
GEW-132	11/3/2018 15:52	1.6	52.5	0.0	45.9	150.6	151.0	21.4	22.4	-2.2	-2.3	-19.6
GEW-132	11/5/2018 10:44	10.4	37.0	3.8	48.8	154.8	154.5	4.8	2.6	-1.3	-1.2	-19.6
GEW-132	11/5/2018 10:46	12.0	34.7	3.9	49.4	154.0	154.0	8.8	8.8	-1.3	-1.3	-19.7
GEW-132	11/16/2018 11:21	4.1	17.6	6.3	72.0	148.0	147.7	16.9	16.3	-6.0	-5.7	-19.5
GEW-132	11/16/2018 11:24	3.8	18.6	6.5	71.1	143.2	143.2	9.2	8.7	-3.7	-3.7	-19.3
GEW-133	11/3/2018 11:26	23.5	56.2	0.0	20.3	54.7	54.7	10.2	13.4	-0.2	-0.3	-17.9
GEW-133	11/5/2018 10:33	5.5	58.2	0.0	36.3	66.8	66.8	9.8	10.0	-0.04	-0.1	-19.6
GEW-134	11/3/2018 11:05	16.5	39.2	1.5	42.8	135.6	135.6	34.9	33.4	-3.6	-3.6	-20.0
GEW-134	11/3/2018 11:06	16.7	38.6	1.5	43.2	135.3	135.4	33.5	33.4	-3.6	-3.6	-19.8
GEW-134	11/5/2018 8:51	13.8	35.9	2.3	48.0	130.7	130.7	37.2	35.7	-3.6	-3.7	-20.6
GEW-134	11/5/2018 8:53	14.3	35.1	2.2	48.4	130.6	130.8	37.5	35.1	-3.7	-3.6	-20.1
GEW-134	11/16/2018 10:58	12.1	32.6	3.3	52.0	123.4	123.7	36.6	35.5	-3.8	-3.8	-19.7
GEW-134	11/16/2018 11:00	12.2	34.0	3.3	50.5	114.3	114.5	13.7	14.5	-1.5	-1.6	-19.3
GEW-134	11/19/2018 12:14	13.1	41.0	1.7	44.2	108.7	108.9	15.7	16.5	-1.1	-1.2	-18.9
GEW-135	11/3/2018 11:00	8.5	39.3	1.4	50.8	152.9	152.9	19.9	10.1	-6.7	-6.4	-19.7
GEW-135	11/3/2018 11:02	8.3	41.3	1.3	49.1	152.9	152.9	22.2	22.6	-6.8	-6.8	-19.3

November 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 ₂ O		
GEW-135	11/5/2018 8:46	10.1	40.8	2.1	47.0	152.9	152.9	19.8	15.1	-6.6	-5.6	-19.9
GEW-135	11/5/2018 8:48	10.1	42.2	2.0	45.7	152.9	152.9	10.5	16.9	-6.1	-6.4	-20.1
GEW-135	11/16/2018 10:49	7.5	39.7	2.8	50.0	151.0	151.3	30.0	30.1	-7.3	-7.6	-19.2
GEW-135	11/16/2018 10:53	7.5	38.9	2.9	50.7	137.8	136.5	34.4	33.9	-3.0	-2.9	-19.2
GEW-135	11/19/2018 12:03	5.9	51.3	0.3	42.5	135.9	137.4	29.0	27.0	-1.6	-1.4	-19.4
GEW-137	11/7/2018 8:29	22.9	36.5	1.2	39.4	90.8	91.0	3.8	4.8	-18.6	-18.6	-19.6
GEW-138	11/7/2018 9:25	4.7	21.2	3.7	70.4	102.8	102.8	1.6	2.2	-0.1	-0.1	-17.7
GEW-139	11/6/2018 11:24	6.8	48.3	1.5	43.4	176.4	176.9	6.9	10.3	-4.2	-4.1	-18.7
GEW-139	11/6/2018 11:25	6.8	50.4	1.4	41.4	176.9	176.9	5.2	5.1	-4.1	-4.1	-18.9
GEW-139	11/19/2018 11:27	9.0	48.1	1.5	41.4	155.6	155.6	6.0	9.4	-7.5	-7.5	-19.1
GEW-139	11/19/2018 11:29	9.5	47.6	1.6	41.3	155.6	155.6	6.0	8.1	-7.5	-7.5	-20.1
GEW-140	11/6/2018 11:14	5.0	58.2	0.0	36.8	195.6	195.5	25.4	26.0	-1.4	-1.4	-19.5
GEW-140	11/6/2018 11:15	5.0	58.3	0.0	36.7	195.7	195.7	26.4	26.2	-1.4	-1.4	-19.7
GEW-140	11/19/2018 11:22	6.2	51.4	0.0	42.4	192.3	191.8	22.9	23.7	-2.5	-2.5	-20.2
GEW-140	11/19/2018 11:24	6.1	53.8	0.0	40.1	192.3	192.3	21.2	23.4	-2.6	-2.5	-20.2
GEW-144	11/6/2018 10:43	38.7	42.4	2.7	16.2	60.0	59.9	2.0	1.7	-18.9	-19.0	-18.8
GEW-145	11/6/2018 9:56	7.6	52.7	0.0	39.7	67.9	68.2	1.6	2.3	-17.0	-17.0	-19.5
GEW-147	11/7/2018 8:24	16.3	48.0	0.0	35.7	175.3	175.3	33.7	32.8	-16.6	-16.6	-20.4
GEW-147	11/7/2018 8:25	16.4	46.4	0.0	37.2	175.3	175.3	33.0	33.2	-16.6	-16.6	-20.4
GEW-147	11/21/2018 10:34	15.3	48.7	0.0	36.0	171.2	171.3	30.7	30.2	-14.4	-14.4	-16.8
GEW-147	11/21/2018 10:35	16.5	47.5	0.0	36.0	172.1	171.8	36.0	35.6	-14.6	-14.5	-18.0
GEW-148	11/7/2018 8:06	41.5	41.0	2.8	14.7	52.3	52.3	3.9	4.2	-20.0	-20.0	-20.1
GEW-149	11/6/2018 13:48	13.8	44.1	0.7	41.4	84.1	84.0	3.1	4.0	-0.02	-0.02	-18.0
GEW-150	11/6/2018 9:31	14.5	33.6	7.9	44.0	168.5	168.4	10.1	5.6	-1.5	-1.4	-16.2
GEW-150	11/6/2018 9:34	15.0	32.2	8.0	44.8	143.5	142.9	4.3	5.2	-0.1	-0.1	-17.6
GEW-150	11/16/2018 9:08	34.2	49.0	0.0	16.8	167.6	169.0	1.7	4.8	-0.8	-0.8	-19.7
GEW-150	11/19/2018 10:26	35.8	48.0	0.0	16.2	159.8	160.2	4.8	5.0	-0.1	-0.1	-16.3
GEW-150	11/19/2018 10:27	35.2	48.8	0.0	16.0	165.2	166.1	6.3	6.1	-0.1	-0.1	-16.3
GEW-151	11/6/2018 13:54	15.2	45.7	2.4	36.7	110.5	110.5	4.1	8.0	-1.5	-1.6	-18.7
GEW-152	11/5/2018 14:28	33.3	50.0	0.0	16.7	102.3	102.5	3.0	1.1	-5.4	-5.3	-20.1
GEW-153	11/5/2018 14:15	19.3	22.1	12.0	46.6	49.6	49.6	4.8	4.7	-1.3	-1.3	-19.7
GEW-153	11/5/2018 14:17	19.9	17.7	12.8	49.6	49.6	49.6	3.3	3.3	-1.3	-1.3	-19.2
GEW-153	11/19/2018 8:29	3.4	9.6	19.3	67.7	42.8	42.7	5.0	4.8	-2.2	-2.2	-19.6
GEW-153	11/19/2018 8:30	2.9	7.9	19.3	69.9	42.1	41.9	3.5	3.8	-2.2	-2.2	-19.4
GEW-155	11/7/2018 8:32	1.3	17.2	7.6	73.9	54.4	54.4	0.0	2.7	-0.03	-0.02	-20.1
GEW-155	11/7/2018 8:33	0.5	15.4	7.7	76.4	54.2	54.3	1.2	1.2	-0.04	-0.04	-19.8
GEW-155	11/21/2018 10:40	0.4	17.0	9.8	72.8	68.6	68.6	1.7	1.7	-0.02	-0.03	-16.4
GEW-155	11/21/2018 10:41	0.2	15.6	9.8	74.4	68.7	68.7	0.0	1.2	-0.02	-0.02	-17.6
GEW-156	11/6/2018 9:51	29.7	48.8	0.0	21.5	100.8	100.7	5.3	4.5	-13.2	-13.2	-19.5
GEW-157	11/6/2018 9:41	22.9	49.8	0.1	27.2	127.9	127.4	3.2	2.8	-9.2	-9.2	-19.4
GEW-158	11/6/2018 9:11	21.6	46.7	0.0	31.7	71.8	71.8	23.4	25.2	-9.7	-9.6	-20.3
GEW-159	11/9/2018 9:25	43.5	40.9	0.9	14.7	40.3	40.2	3.1	3.6	-2.1	-2.1	-17.9

November 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 ₂ O		
GEW-159	11/9/2018 9:33	44.8	39.1	0.9	15.2	40.5	40.4	4.0	3.6	-2.1	-2.1	-18.8
GEW-160	11/9/2018 10:28	8.7	45.7	0.0	45.6	41.7	41.8	11.1	13.3	-5.8	-5.8	-20.1
GEW-160	11/9/2018 10:37	7.7	51.1	0.0	41.2	40.9	40.8	7.9	10.3	-6.0	-5.9	-19.9
GEW-161	11/9/2018 10:41	9.2	49.8	0.0	41.0	40.8	40.8	4.6	3.5	-12.3	-12.5	-19.9
GEW-161	11/9/2018 10:49	9.8	44.8	0.0	45.4	40.8	40.8	2.5	5.0	-10.7	-10.7	-20.1
GEW-162	11/9/2018 11:09	11.1	54.8	2.4	31.7	54.9	54.9	3.5	5.2	-6.3	-6.3	-19.9
GEW-162	11/9/2018 11:17	10.6	52.8	3.1	33.5	46.8	46.7	1.3	4.3	-2.9	-3.0	-18.7
GEW-163	11/3/2018 11:54	3.9	35.5	7.5	53.1	165.7	165.2	4.8	12.1	-0.1	-0.1	-19.3
GEW-163	11/3/2018 11:56	4.0	34.8	7.5	53.7	165.9	165.7	12.0	8.3	-0.1	-0.1	-19.2
GEW-163	11/5/2018 11:17	2.6	29.3	10.3	57.8	165.2	164.7	16.5	10.6	-0.1	-0.1	-14.6
GEW-163	11/5/2018 11:18	2.6	28.6	10.4	58.4	164.7	164.7	3.8	9.1	-0.1	-0.1	-14.5
GEW-163	11/15/2018 9:45	5.1	25.8	10.7	58.4	159.8	159.7	13.7	22.0	-0.2	-0.2	-20.8
GEW-163	11/15/2018 9:47	4.7	26.3	10.8	58.2	159.8	159.8	11.3	11.6	-0.2	-0.2	-19.4
GEW-163	11/19/2018 8:32	4.1	31.8	9.5	54.6	162.0	161.8	4.2	8.7	-0.1	-0.1	-19.3
GEW-163	11/20/2018 9:29	4.4	23.9	11.1	60.6	155.2	155.6	11.1	9.0	-0.2	-0.2	-16.4
GEW-163	11/20/2018 9:30	3.9	25.3	11.1	59.7	154.8	155.2	9.4	8.4	-0.2	-0.2	-16.8
GEW-163	11/27/2018 10:08	5.2	27.6	9.2	58.0	160.7	160.2	9.3	3.5	-0.2	-0.2	-19.1
GEW-163	11/27/2018 10:10	4.7	28.3	9.3	57.7	160.2	160.2	8.1	8.4	-0.2	-0.2	-19.0
GEW-164	11/3/2018 12:08	27.9	52.5	0.9	18.7	126.7	126.7	18.5	13.3	-1.7	-1.7	-19.2
GEW-164	11/5/2018 11:26	30.0	52.7	0.6	16.7	129.4	129.2	12.3	10.9	-0.9	-0.9	-15.0
GEW-164	11/15/2018 9:50	32.1	56.1	0.1	11.7	146.5	146.2	7.0	12.1	-0.4	-0.4	-20.0
GEW-164	11/15/2018 9:51	31.8	57.1	0.0	11.1	146.3	146.0	15.4	16.2	-0.4	-0.4	-20.1
GEW-164	11/19/2018 8:18	32.9	63.0	0.0	4.1	148.0	148.0	9.9	7.4	-0.6	-0.6	-19.6
GEW-164	11/20/2018 9:33	31.4	54.1	0.0	14.5	144.2	144.2	9.0	2.2	-0.6	-0.6	-16.7
GEW-164	11/20/2018 9:34	33.2	55.8	0.0	11.0	144.1	143.9	6.9	15.0	-0.7	-0.6	-15.9
GEW-164	11/27/2018 10:13	34.2	54.7	0.0	11.1	143.5	144.2	13.8	15.5	-0.7	-0.7	-19.3
GEW-164	11/27/2018 10:15	34.3	55.5	0.0	10.2	143.9	143.9	0.8	15.7	-0.7	-0.7	-19.3
GEW-165	11/6/2018 8:41	17.5	58.1	0.7	23.7	173.1	173.3	23.8	26.5	-0.4	-0.4	-19.1
GEW-165	11/6/2018 8:43	17.4	59.0	0.7	22.9	173.1	173.5	20.9	13.0	-0.3	-0.3	-19.2
GEW-165	11/15/2018 9:55	15.8	52.1	2.4	29.7	169.5	169.5	5.8	19.9	-0.4	-0.4	-19.7
GEW-165	11/15/2018 9:57	14.6	54.5	2.4	28.5	169.4	169.5	23.3	19.9	-0.4	-0.4	-19.8
GEW-165	11/16/2018 13:19	15.7	54.0	1.4	28.9	171.5	171.6	12.3	13.8	-0.3	-0.3	-18.7
GEW-165	11/20/2018 9:37	15.2	50.3	3.3	31.2	165.2	165.2	18.1	16.4	-0.4	-0.4	-16.3
GEW-165	11/20/2018 9:39	14.1	51.3	3.5	31.1	165.2	165.2	10.7	11.2	-0.4	-0.4	-16.5
GEW-165	11/27/2018 10:19	14.4	51.9	3.2	30.5	165.2	165.2	11.8	12.2	-0.5	-0.5	-19.3
GEW-165	11/27/2018 10:21	14.0	52.2	3.2	30.6	165.2	165.7	16.3	11.8	-0.5	-0.5	-19.2
GEW-166	11/6/2018 8:46	5.3	54.6	0.0	40.1	166.1	166.1	6.0	5.2	-18.7	-18.9	-19.6
GEW-166	11/6/2018 8:48	4.6	55.2	0.0	40.2	166.1	166.1	9.1	8.1	-18.7	-18.8	-19.1
GEW-166	11/14/2018 11:25	2.6	53.6	0.0	43.8	174.2	173.6	8.2	5.0	-18.6	-18.3	-19.6
GEW-166	11/20/2018 9:42	3.5	51.2	0.3	45.0	157.7	157.7	9.3	1.5	-19.7	-20.0	-17.3
GEW-166	11/20/2018 9:43	2.9	51.9	0.2	45.0	158.1	157.7	6.4	7.4	-19.6	-19.6	-16.7
GEW-166	11/27/2018 10:24	3.3	52.8	0.0	43.9	137.1	137.1	8.7	8.8	-19.0	-19.1	-19.0

November 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 ₂ O		
GEW-166	11/27/2018 10:25	2.6	53.4	0.0	44.0	137.2	137.1	5.9	4.5	-19.1	-19.1	-19.0
GEW-167	11/6/2018 9:23	0.5	53.2	0.1	46.2	192.9	192.9	19.1	25.6	-2.2	-2.2	-19.7
GEW-167	11/6/2018 9:24	0.4	53.9	0.0	45.7	192.3	192.4	40.7	44.0	-2.7	-2.8	-19.7
GEW-167	11/14/2018 12:59	11.6	37.5	4.0	46.9	172.6	173.1	22.1	24.5	-8.6	-8.5	-19.7
GEW-167	11/20/2018 9:47	7.2	34.8	5.8	52.2	158.5	158.5	23.1	26.9	-6.6	-6.6	-17.1
GEW-167	11/20/2018 9:48	8.1	33.6	5.9	52.4	158.6	158.5	22.1	25.7	-6.6	-6.6	-17.1
GEW-167	11/27/2018 10:29	7.4	32.5	6.7	53.4	151.3	151.4	27.9	25.4	-5.1	-5.0	-19.8
GEW-167	11/27/2018 10:31	8.2	31.0	6.7	54.1	152.2	152.1	22.8	25.8	-5.1	-5.0	-19.8
GEW-168	11/6/2018 8:36	16.6	51.3	1.4	30.7	148.0	148.0	10.1	15.3	-2.0	-2.0	-19.1
GEW-168	11/6/2018 8:37	16.7	51.0	1.4	30.9	148.4	148.4	7.8	9.8	-2.0	-2.0	-19.0
GEW-168	11/14/2018 10:03	13.8	39.9	5.5	40.8	142.5	142.5	39.7	35.8	-0.7	-0.8	-19.6
GEW-168	11/20/2018 9:54	11.3	34.7	7.5	46.5	138.7	138.7	7.6	10.4	-0.3	-0.3	-16.4
GEW-168	11/20/2018 9:55	11.5	34.7	7.5	46.3	139.0	139.0	11.3	2.2	-0.3	-0.3	-16.6
GEW-168	11/27/2018 10:35	12.2	35.0	7.1	45.7	133.0	132.8	16.2	12.1	-0.3	-0.3	-19.3
GEW-168	11/27/2018 10:37	12.3	35.5	7.0	45.2	131.7	131.7	6.2	19.1	-0.3	-0.3	-19.1
GEW-169	11/6/2018 8:30	11.1	51.4	2.4	35.1	170.5	170.5	23.9	28.3	-0.8	-0.9	-19.1
GEW-169	11/6/2018 8:32	11.0	52.1	2.2	34.7	170.5	170.5	37.2	31.5	-0.8	-0.8	-19.6
GEW-169	11/14/2018 8:35	11.2	50.8	2.2	35.8	168.1	168.1	12.2	10.4	-0.7	-0.8	-19.9
GEW-169	11/20/2018 9:58	12.2	49.8	1.9	36.1	156.5	156.5	7.6	4.4	-0.8	-0.8	-17.5
GEW-169	11/20/2018 10:00	11.7	51.3	1.9	35.1	156.5	156.5	9.2	2.1	-0.9	-0.8	-17.2
GEW-169	11/27/2018 10:41	11.0	50.2	1.6	37.2	159.8	159.8	10.2	13.2	-0.7	-0.7	-20.1
GEW-169	11/27/2018 10:42	10.7	51.7	1.5	36.1	160.6	160.7	12.0	11.8	-0.8	-0.8	-20.4
GEW-170	11/6/2018 13:37	15.7	42.8	3.6	37.9	160.7	160.2	20.3	21.4	-3.7	-3.8	-17.7
GEW-170	11/6/2018 13:38	15.2	45.3	3.4	36.1	160.2	159.8	24.4	21.4	-3.2	-3.3	-18.1
GEW-170	11/16/2018 14:20	15.5	47.4	4.2	32.9	159.0	159.4	16.1	16.6	-3.2	-3.2	-15.0
GEW-170	11/19/2018 11:50	15.8	48.7	4.0	31.5	151.3	151.3	23.4	19.3	-3.2	-3.2	-19.4
GEW-170	11/19/2018 11:52	15.7	48.6	4.0	31.7	151.0	151.0	9.4	18.1	-3.0	-3.0	-14.8
GEW-171	11/6/2018 11:05	19.5	63.1	0.0	17.4	56.8	56.8	3.6	2.9	-11.1	-11.0	-12.6
GEW-172	11/6/2018 11:09	11.4	58.4	0.0	30.2	188.3	188.3	18.2	9.9	-2.5	-2.5	-15.7
GEW-172	11/6/2018 11:11	11.3	58.2	0.0	30.5	188.3	188.3	11.8	13.7	-2.5	-2.5	-15.7
GEW-172	11/19/2018 11:17	7.4	59.1	0.0	33.5	187.6	187.6	6.9	6.5	-4.2	-4.2	-15.7
GEW-172	11/19/2018 11:19	6.8	59.1	0.0	34.1	187.6	187.8	13.9	9.2	-4.2	-4.2	-15.7
GEW-173	11/6/2018 11:18	0.6	12.0	12.4	75.0	98.4	99.1	2.7	3.8	-0.1	-0.1	-19.5
GEW-173	11/6/2018 11:19	0.6	10.4	12.6	76.4	98.7	98.6	2.7	4.7	-0.1	-0.1	-19.6
GEW-173	11/19/2018 13:28	0.9	3.1	14.5	81.5	71.3	71.1	8.0	9.8	-0.1	-0.1	-19.1
GEW-173	11/19/2018 13:30	0.8	3.7	14.4	81.1	71.3	71.4	24.4	6.3	-0.1	-0.1	-19.1
GEW-174	11/6/2018 10:50	13.7	42.0	0.0	44.3	141.9	141.5	36.2	32.4	-4.4	-4.4	-19.0
GEW-174	11/6/2018 10:52	13.7	39.9	0.0	46.4	141.9	141.5	32.8	32.8	-4.4	-4.4	-19.1
GEW-174	11/19/2018 13:34	13.5	34.8	0.3	51.4	148.1	148.4	26.1	26.5	-5.0	-5.0	-18.8
GEW-174	11/19/2018 13:35	13.0	35.3	0.2	51.5	148.4	148.3	29.3	22.1	-4.9	-4.9	-18.5
GEW-175	11/6/2018 9:26	18.7	41.8	3.3	36.2	160.7	161.1	10.0	7.9	-0.1	-0.1	-19.2
GEW-175	11/6/2018 9:28	18.7	42.3	3.4	35.6	161.1	160.7	7.3	6.1	-0.1	-0.1	-19.4

November 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 ₂ O		
GEW-175	11/14/2018 14:14	18.1	40.9	4.6	36.4	160.2	160.2	17.6	19.1	-0.2	-0.1	-20.1
GEW-175	11/19/2018 10:31	20.5	42.6	3.6	33.3	161.1	161.2	5.9	6.4	-0.1	-0.1	-19.6
GEW-175	11/19/2018 10:33	20.4	43.3	3.7	32.6	160.7	160.7	13.7	13.9	-0.04	-0.04	-19.7
GEW-176	11/6/2018 9:17	23.7	35.0	5.4	35.9	64.4	64.4	9.9	9.2	-0.2	-0.2	-20.1
GEW-176	11/6/2018 9:19	24.4	33.8	5.4	36.4	63.4	63.3	8.4	7.9	-0.1	-0.1	-20.1
GEW-176	11/19/2018 10:36	28.7	39.1	4.6	27.6	49.0	49.0	10.7	10.5	-0.2	-0.2	-19.8
GEW-177	11/6/2018 11:31	9.3	56.8	2.7	31.2	188.3	188.3	14.4	22.2	-18.4	-18.5	-19.6
GEW-177	11/6/2018 11:32	9.5	56.3	2.4	31.8	188.3	188.3	11.8	10.2	-17.0	-17.0	-19.5
GEW-177	11/19/2018 11:36	9.9	57.1	1.7	31.3	188.2	188.3	18.3	14.4	-11.8	-11.8	-17.7
GEW-177	11/19/2018 11:38	9.0	57.4	1.2	32.4	188.3	188.3	2.3	13.5	-11.8	-11.7	-16.1
GEW-178	11/6/2018 9:56	16.5	42.9	6.6	34.0	93.9	94.1	14.2	12.7	-0.2	-0.2	-20.3
GEW-178	11/6/2018 9:58	17.7	42.6	6.6	33.1	94.0	94.1	5.1	14.2	-0.2	-0.2	-19.4
GEW-178	11/15/2018 11:26	14.8	38.6	8.6	38.0	81.8	82.1	12.9	18.3	-0.2	-0.2	-20.4
GEW-178	11/15/2018 11:27	15.3	37.7	8.7	38.3	82.8	82.8	12.5	15.6	-0.2	-0.2	-21.2
GEW-178	11/20/2018 11:34	12.5	37.7	9.2	40.6	75.0	75.0	10.7	11.6	-0.2	-0.2	-17.6
GEW-178	11/20/2018 11:35	12.9	36.7	9.4	41.0	75.0	75.2	11.3	11.8	-0.2	-0.2	-17.6
GEW-178	11/27/2018 13:47	18.8	39.2	7.3	34.7	76.0	76.4	10.1	13.5	-0.1	-0.1	-19.9
GEW-178	11/27/2018 13:48	18.7	38.7	7.3	35.3	76.3	76.6	10.8	10.5	-0.2	-0.2	-17.6
GEW-179	11/6/2018 10:02	23.3	66.7	0.0	10.0	111.0	110.8	4.3	4.6	-0.6	-0.6	-19.4
GEW-179	11/15/2018 11:22	21.8	62.7	0.5	15.0	104.5	104.3	5.8	7.7	-0.8	-0.8	-20.1
GEW-179	11/20/2018 11:30	20.5	61.3	1.2	17.0	92.9	92.9	5.6	6.9	-0.6	-0.6	-16.2
GEW-179	11/27/2018 13:52	23.1	58.1	1.5	17.3	96.4	96.5	6.3	5.8	-0.5	-0.5	-19.0
GEW-180	11/6/2018 10:06	17.3	67.5	0.1	15.1	128.0	128.0	3.0	4.6	-3.7	-3.7	-19.5
GEW-180	11/15/2018 11:18	14.3	53.9	2.7	29.1	117.2	117.6	4.8	2.9	-6.1	-6.1	-19.9
GEW-180	11/20/2018 11:27	15.5	60.7	1.4	22.4	112.2	112.2	7.2	9.2	-5.7	-5.6	-17.1
GEW-180	11/27/2018 13:55	16.9	58.9	1.4	22.8	113.5	113.2	11.2	10.4	-7.0	-6.8	-17.2
GEW-181	11/6/2018 10:09	17.7	66.1	0.1	16.1	162.1	162.0	16.7	15.9	-1.8	-1.9	-20.8
GEW-181	11/6/2018 10:10	17.8	66.9	0.1	15.2	162.4	162.1	14.6	20.0	-1.8	-1.8	-19.8
GEW-181	11/15/2018 11:12	18.3	63.6	0.2	17.9	158.2	158.1	14.5	10.5	-1.8	-1.7	-21.5
GEW-181	11/15/2018 11:13	17.9	66.2	0.1	15.8	158.4	158.1	19.5	18.5	-1.7	-1.8	-21.3
GEW-181	11/20/2018 11:22	17.8	63.9	0.0	18.3	135.3	135.3	16.8	18.8	-1.7	-1.7	-18.0
GEW-181	11/20/2018 11:24	17.2	66.7	0.0	16.1	135.6	135.9	12.0	15.5	-1.7	-1.7	-11.2
GEW-181	11/27/2018 13:59	17.3	66.2	0.0	16.5	156.0	156.0	15.8	16.6	-1.8	-1.8	-18.3
GEW-181	11/27/2018 14:01	17.3	67.1	0.0	15.6	156.5	156.5	16.7	20.1	-1.8	-1.8	-17.2
GEW-182	11/3/2018 11:18	8.3	31.1	10.5	50.1	97.0	96.7	5.5	9.7	-0.2	-0.2	-15.5
GEW-182	11/3/2018 11:20	8.0	30.2	10.6	51.2	97.2	97.0	8.8	12.0	-0.2	-0.2	-16.8
GEW-182	11/5/2018 10:25	7.6	32.9	10.6	48.9	104.0	103.5	3.1	7.2	-0.2	-0.2	-17.8
GEW-182	11/5/2018 10:27	8.4	31.7	10.8	49.1	103.9	103.7	15.4	6.5	-0.3	-0.3	-18.3
GEW-182	11/15/2018 10:20	12.1	33.8	9.4	44.7	106.3	106.1	8.7	7.8	-0.2	-0.2	-18.4
GEW-182	11/15/2018 10:22	11.6	34.9	9.3	44.2	106.2	106.5	10.4	14.4	-0.1	-0.1	-17.4
GEW-182	11/20/2018 10:28	14.8	36.4	7.4	41.4	111.5	111.2	17.4	20.0	-0.5	-0.5	-16.4
GEW-182	11/20/2018 10:30	14.6	37.3	7.3	40.8	111.5	111.6	1.8	6.0	-0.4	-0.4	-17.1

November 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 ₂ O		
GEW-182	11/27/2018 11:37	14.6	37.5	6.3	41.6	120.2	120.2	7.9	18.0	-0.4	-0.4	-21.3
GEW-182	11/27/2018 11:38	14.0	38.6	6.3	41.1	120.2	120.5	12.7	22.8	-0.4	-0.4	-23.7
GEW-184	11/1/2018 8:08	7.4	18.0	15.3	59.3	93.9	94.0	29.0	26.9	-0.7	-0.7	-20.8
GEW-184	11/1/2018 8:09	7.4	16.9	15.4	60.3	94.4	94.3	31.2	29.4	-0.7	-0.7	-20.9
GEW-184	11/3/2018 15:39	34.6	58.4	0.0	7.0	75.8	75.5	2.1	11.7	-0.2	-0.2	-17.2
GEW-184	11/5/2018 11:00	9.4	20.3	15.1	55.2	81.9	82.1	10.5	8.4	-0.02	-0.02	-19.6
GEW-184	11/5/2018 11:01	9.5	19.4	15.4	55.7	82.6	82.8	9.5	3.8	-0.04	-0.04	-19.6
GEW-184	11/15/2018 10:08	6.4	14.2	17.6	61.8	78.7	78.4	11.4	11.5	-0.2	-0.2	-20.1
GEW-184	11/15/2018 10:09	6.9	12.9	17.7	62.5	78.5	78.2	12.2	16.0	-0.2	-0.2	-20.7
GEW-184	11/20/2018 10:18	5.4	14.9	17.6	62.1	73.9	73.7	13.8	16.0	-0.1	-0.1	-16.4
GEW-184	11/20/2018 10:19	5.6	13.7	17.7	63.0	73.7	73.9	14.1	12.6	-0.1	-0.1	-15.8
GEW-184	11/27/2018 11:42	7.6	15.8	16.8	59.8	68.0	67.9	12.6	15.9	-0.2	-0.2	-24.9
GEW-184	11/27/2018 11:44	7.9	14.5	16.9	60.7	68.2	68.1	3.4	8.3	-0.1	-0.1	-22.4
GEW-185	11/3/2018 15:32	16.7	52.0	1.6	29.7	114.3	115.0	0.0	4.8	-0.8	-0.8	-17.8
GEW-185	11/5/2018 11:07	17.4	56.2	0.8	25.6	152.9	152.9	1.9	5.9	-0.3	-0.3	-19.8
GEW-185	11/5/2018 11:09	17.1	58.0	0.8	24.1	153.7	153.7	0.7	3.9	-0.3	-0.3	-19.7
GEW-185	11/15/2018 10:02	13.3	40.3	8.3	38.1	135.9	136.2	3.8	3.0	-0.3	-0.3	-20.1
GEW-185	11/15/2018 10:03	13.5	39.4	8.4	38.7	136.2	136.2	1.8	0.0	-0.4	-0.4	-20.1
GEW-185	11/20/2018 10:13	16.2	45.2	5.3	33.3	135.3	135.4	1.9	1.9	-0.4	-0.4	-17.2
GEW-185	11/20/2018 10:14	15.7	46.6	5.3	32.4	136.2	136.2	3.0	6.9	-0.3	-0.4	-17.2
GEW-185	11/27/2018 11:48	19.7	51.1	2.4	26.8	132.3	132.6	8.0	2.8	-0.4	-0.4	-23.7
GEW-185	11/27/2018 11:49	19.3	52.5	2.3	25.9	132.3	132.1	6.0	10.7	-0.3	-0.3	-23.4
GEW-186	11/6/2018 8:26	22.3	48.2	3.2	26.3	110.2	110.5	15.2	15.5	-0.4	-0.4	-20.9
GEW-186	11/13/2018 13:01	25.5	50.2	2.2	22.1	106.0	106.5	13.8	12.6	-0.4	-0.4	-21.5
GEW-186	11/20/2018 10:06	28.7	55.6	0.0	15.7	39.7	39.9	3.8	4.1	-0.1	-0.1	-16.6
GEW-186	11/27/2018 10:46	26.8	56.3	0.0	16.9	35.3	35.4	4.4	4.2	-0.02	-0.03	-21.4
GEW-187	11/1/2018 7:55	23.8	57.3	0.0	18.9	162.9	162.9	3.0	0.0	-1.0	-1.0	-19.9
GEW-187	11/1/2018 7:57	23.5	58.1	0.0	18.4	163.3	163.3	4.2	6.0	-1.0	-1.0	-19.7
GEW-187	11/9/2018 9:01	26.2	56.4	0.0	17.4	141.2	141.2	4.7	5.7	-1.9	-1.9	-19.8
GEW-187	11/9/2018 9:08	25.9	55.0	0.0	19.1	139.3	139.6	5.4	4.6	-1.9	-1.9	-19.7
GEW-187	11/15/2018 11:34	24.7	54.7	0.1	20.5	149.5	149.9	3.3	8.6	-1.3	-1.3	-20.8
GEW-187	11/15/2018 11:35	24.5	56.1	0.1	19.3	150.2	150.6	3.9	2.9	-1.2	-1.2	-20.5
GEW-187	11/20/2018 11:53	26.3	52.4	0.0	21.3	138.5	138.1	5.6	0.9	-1.3	-1.3	-16.7
GEW-187	11/20/2018 11:55	25.8	55.3	0.0	18.9	138.7	139.0	11.3	3.4	-1.3	-1.3	-16.9
GEW-187	11/27/2018 14:20	25.0	53.8	0.3	20.9	141.2	141.5	5.1	15.4	-1.3	-1.3	-15.8
GEW-187	11/27/2018 14:21	25.4	55.1	0.2	19.3	141.5	141.0	2.3	8.7	-1.3	-1.3	-14.7
GEW-188	11/3/2018 15:56	1.0	53.3	0.1	45.6	104.5	104.8	27.8	20.6	-1.5	-1.1	-20.0
GEW-188	11/5/2018 10:48	5.2	19.5	11.1	64.2	74.1	74.1	8.6	8.1	-0.6	-0.6	-19.6
GEW-188	11/5/2018 10:50	5.1	17.9	11.4	65.6	73.9	73.9	8.1	9.3	-0.5	-0.5	-19.7
GEW-188	11/15/2018 10:14	6.1	12.4	11.8	69.7	84.2	84.7	20.0	21.0	-3.7	-3.8	-20.4
GEW-188	11/15/2018 10:15	5.8	12.7	11.7	69.8	84.7	84.7	21.3	21.2	-3.5	-3.5	-20.5
GEW-188	11/20/2018 10:23	6.0	13.7	11.4	68.9	81.7	81.8	15.8	18.4	-3.3	-3.3	-16.9

November 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 ₂ O		
GEW-188	11/20/2018 10:24	5.9	14.2	11.4	68.5	81.0	81.0	17.7	14.3	-2.8	-2.8	-17.1
GEW-188	11/27/2018 11:54	5.8	20.8	10.9	62.5	71.4	71.2	19.6	18.1	-2.5	-2.5	-25.6
GEW-188	11/27/2018 11:56	6.3	18.0	11.2	64.5	70.7	70.7	14.1	14.3	-2.3	-2.3	-25.4
GEW-217	11/6/2018 10:15	7.2	18.5	16.4	57.9	58.0	58.0	6.7	4.9	-17.9	-18.0	-19.1
GEW-217	11/6/2018 10:17	5.5	11.4	18.3	64.8	58.1	58.1	2.2	1.8	-16.5	-16.5	-19.3
GEW-217	11/7/2018 13:57	6.3	55.7	0.3	37.7	153.3	155.6	5.3	5.6	-1.5	-1.6	-19.2
GEW-217	11/7/2018 13:58	6.3	60.5	0.0	33.2	158.1	158.2	5.9	6.3	-2.0	-2.0	-17.6
GEW-217	11/15/2018 11:41	8.6	60.0	1.0	30.4	178.0	178.6	7.1	2.7	-12.6	-12.6	-19.4
GEW-217	11/15/2018 11:42	8.1	59.7	0.9	31.3	178.6	178.6	7.1	5.8	-12.6	-12.6	-20.7
GEW-217	11/20/2018 13:40	12.9	48.2	1.6	37.3	73.6	73.9	3.6	6.4	-16.8	-16.8	-20.5
GEW-217	11/28/2018 8:40	24.6	40.7	4.7	30.0	28.0	27.9	6.2	4.7	-18.9	-18.9	-19.2
GEW-218	11/1/2018 8:07	22.6	47.8	0.0	29.6	140.5	140.6	9.8	17.0	-0.2	-0.3	-19.7
GEW-218	11/1/2018 8:08	22.9	49.2	0.0	27.9	146.6	146.6	18.4	12.6	-0.8	-0.9	-19.7
GEW-218	11/6/2018 10:21	20.0	44.5	0.7	34.8	147.0	146.6	9.2	9.7	-1.4	-1.4	-19.9
GEW-218	11/6/2018 10:23	19.7	45.7	0.6	34.0	147.0	146.7	11.6	12.9	-1.4	-1.4	-19.9
GEW-218	11/15/2018 11:46	20.8	47.6	0.4	31.2	149.9	149.9	14.6	4.3	-1.1	-1.1	-20.8
GEW-218	11/15/2018 11:47	21.7	47.0	0.4	30.9	150.2	150.2	11.3	12.7	-1.1	-1.1	-21.0
GEW-218	11/20/2018 13:43	18.1	42.0	1.6	38.3	129.2	128.9	9.7	14.3	-1.7	-1.7	-20.1
GEW-218	11/28/2018 8:45	19.0	38.4	2.5	40.1	106.5	106.5	8.8	16.7	-2.1	-2.2	-20.1
GEW-219	11/6/2018 10:27	9.2	32.6	2.1	56.1	169.7	169.5	3.0	4.8	-0.3	-0.3	-19.4
GEW-219	11/6/2018 10:29	9.0	31.8	2.1	57.1	169.5	169.6	5.8	8.0	-0.3	-0.3	-20.0
GEW-219	11/15/2018 11:51	12.5	33.4	1.9	52.2	168.1	168.1	5.4	3.2	-0.3	-0.3	-20.8
GEW-219	11/15/2018 11:52	12.1	32.8	1.9	53.2	168.1	167.6	4.3	3.2	-0.3	-0.3	-19.9
GEW-219	11/16/2018 10:30	9.9	30.9	2.9	56.3	166.6	166.6	3.3	2.7	-0.3	-0.3	-19.3
GEW-219	11/20/2018 13:46	7.7	28.0	3.6	60.7	161.1	160.7	6.5	3.9	-0.3	-0.3	-20.1
GEW-219	11/20/2018 13:48	7.1	27.5	3.7	61.7	160.7	160.7	4.4	8.2	-0.3	-0.3	-20.1
GEW-219	11/28/2018 8:48	7.8	27.8	5.3	59.1	157.7	157.7	2.8	9.3	-0.3	-0.3	-19.7
GEW-219	11/28/2018 8:51	7.2	27.2	5.3	60.3	157.2	157.7	6.4	3.3	-0.3	-0.3	-20.0
GEW-220	11/6/2018 10:32	9.3	54.3	0.0	36.4	129.4	129.4	1.5	0.0	-0.2	-0.2	-19.3
GEW-220	11/14/2018 11:45	2.3	55.9	0.0	41.8	203.1	203.1	12.5	14.0	1.5	1.8	-19.8
GEW-220	11/14/2018 11:49	3.8	62.2	0.0	34.0	203.9	203.9	15.6	10.6	-0.9	-0.9	-20.8
GEW-220	11/16/2018 10:10	5.3	46.1	0.5	48.1	197.9	197.9	9.5	13.0	-3.0	-3.0	-20.1
GEW-220	11/20/2018 13:51	2.6	31.6	5.5	60.3	189.6	189.6	13.2	9.9	-2.2	-2.2	-20.1
GEW-220	11/20/2018 13:53	2.4	31.8	5.5	60.3	189.8	190.2	11.1	11.0	-1.5	-1.5	-20.2
GEW-220	11/28/2018 8:54	2.5	34.4	6.2	56.9	192.3	192.9	15.7	19.5	-1.7	-1.9	-20.1
GEW-220	11/28/2018 8:56	2.3	35.0	6.2	56.5	192.3	192.3	20.1	19.4	-1.6	-1.6	-17.4
GEW-221	11/6/2018 10:35	10.9	40.4	0.1	48.6	147.7	147.4	11.8	13.4	-9.5	-9.5	-18.8
GEW-221	11/6/2018 10:37	11.1	40.0	0.1	48.8	147.6	147.3	13.4	11.6	-9.4	-9.5	-18.3
GEW-221	11/15/2018 11:56	11.5	38.5	0.1	49.9	149.1	149.1	11.6	12.6	-9.6	-9.7	-19.7
GEW-221	11/15/2018 11:57	11.1	38.9	0.1	49.9	149.1	149.1	13.4	12.6	-9.6	-9.6	-19.8
GEW-221	11/20/2018 13:57	10.0	35.8	0.1	54.1	125.8	126.0	14.5	12.4	-11.0	-11.0	-18.7
GEW-221	11/28/2018 9:00	9.1	38.5	0.2	52.2	143.6	143.5	14.9	13.3	-10.2	-10.2	-18.8

November 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 ₂ O		
GEW-221	11/28/2018 9:02	9.3	38.2	0.1	52.4	151.0	151.2	19.9	24.3	-11.5	-11.5	-16.6
GEW-222	11/1/2018 8:00	17.8	57.3	0.0	24.9	200.2	200.1	23.5	24.4	-4.6	-4.6	-16.7
GEW-222	11/1/2018 8:02	17.7	57.6	0.0	24.7	200.8	200.8	25.1	28.5	-4.5	-4.4	-17.1
GEW-222	11/6/2018 11:02	22.0	54.3	0.0	23.7	191.6	191.6	27.7	25.7	-7.0	-7.0	-19.3
GEW-222	11/6/2018 11:04	22.4	55.2	0.0	22.4	191.6	191.6	22.1	16.7	-7.5	-7.5	-19.9
GEW-222	11/16/2018 10:11	18.9	51.1	0.0	30.0	195.7	195.7	23.5	21.6	-6.7	-6.7	-16.2
GEW-222	11/16/2018 10:12	18.1	53.3	0.0	28.6	195.7	195.7	21.8	21.8	-6.7	-6.7	-16.9
GEW-222	11/20/2018 14:01	25.2	45.3	0.0	29.5	142.2	141.9	14.6	17.0	-15.4	-15.3	-19.6
GEW-222	11/20/2018 14:02	25.3	45.9	0.0	28.8	142.2	142.2	13.1	19.2	-15.3	-15.3	-20.1
GEW-222	11/28/2018 9:24	23.3	42.0	0.0	34.7	127.2	127.2	14.5	15.8	-16.8	-16.8	-19.4
GEW-223	11/6/2018 11:07	3.7	27.5	12.9	55.9	147.7	147.7	10.6	8.9	-0.4	-0.4	-12.7
GEW-223	11/6/2018 11:09	3.6	26.1	13.1	57.2	147.7	147.7	8.6	7.1	-0.5	-0.5	-10.6
GEW-223	11/16/2018 10:17	1.9	67.3	0.0	30.8	196.5	196.6	1.7	4.2	0.4	0.4	-16.2
GEW-223	11/16/2018 10:21	2.0	67.5	0.0	30.5	199.3	199.3	12.9	12.2	-0.7	-0.7	-17.9
GEW-223	11/20/2018 14:06	4.4	27.1	12.8	55.7	176.9	176.9	22.5	21.5	-2.9	-2.9	-14.2
GEW-223	11/20/2018 14:08	3.9	26.2	13.0	56.9	177.0	177.0	23.7	23.9	-2.5	-2.4	-15.6
GEW-223	11/28/2018 9:28	4.1	26.7	14.0	55.2	175.5	175.3	31.2	23.4	-2.8	-2.8	-12.8
GEW-223	11/28/2018 9:30	3.7	25.9	14.4	56.0	175.4	175.3	21.7	22.3	-1.9	-1.9	-13.4
GEW-224	11/6/2018 11:13	11.5	62.3	0.0	26.2	188.3	188.3	11.6	13.7	-13.1	-13.4	-15.7
GEW-224	11/6/2018 11:14	11.6	62.8	0.0	25.6	188.3	188.0	14.6	16.1	-13.4	-13.4	-15.7
GEW-224	11/16/2018 11:50	7.8	59.3	0.0	32.9	188.3	187.6	8.2	11.6	-11.1	-11.1	-15.4
GEW-224	11/16/2018 11:51	7.7	62.7	0.0	29.6	186.4	186.6	10.0	12.1	-8.2	-8.4	-15.5
GEW-224	11/20/2018 14:13	5.5	61.8	0.1	32.6	196.6	196.6	11.7	8.4	-1.3	-1.3	-15.5
GEW-224	11/20/2018 14:14	5.2	63.6	0.0	31.2	197.2	197.2	17.5	18.1	-1.7	-1.7	-15.5
GEW-224	11/28/2018 9:33	10.0	60.7	0.1	29.2	189.6	189.5	9.0	10.3	-5.5	-5.4	-14.7
GEW-224	11/28/2018 9:35	10.0	61.0	0.1	28.9	191.0	191.0	3.0	10.0	-7.7	-7.8	-14.0
GEW-225	11/2/2018 13:47	13.9	50.4	0.6	35.1	158.7	159.0	12.7	8.7	-10.9	-11.0	-15.4
GEW-225	11/2/2018 13:48	13.2	53.9	0.3	32.6	159.0	159.0	10.6	14.0	-11.0	-10.9	-16.1
GEW-225	11/6/2018 11:24	11.8	58.5	0.0	29.7	191.6	191.6	17.7	15.8	-4.1	-4.0	-17.9
GEW-225	11/6/2018 11:25	11.4	59.5	0.0	29.1	192.2	192.3	14.2	15.6	-4.1	-4.1	-16.9
GEW-225	11/16/2018 10:27	19.0	53.0	0.0	28.0	130.0	130.7	11.8	13.6	-13.2	-13.4	-14.9
GEW-225	11/20/2018 14:17	20.8	49.5	0.7	29.0	111.0	110.7	10.1	8.8	-13.9	-13.8	-16.1
GEW-225	11/28/2018 9:39	22.3	50.0	0.8	26.9	96.2	95.9	8.0	9.4	-14.6	-14.6	-13.9
GEW-226	11/2/2018 13:51	7.4	24.2	6.1	62.3	109.5	109.2	15.4	8.6	-0.3	-0.3	-14.9
GEW-226	11/2/2018 13:53	8.0	20.3	6.3	65.4	102.5	102.5	4.1	6.9	-0.1	-0.1	-14.8
GEW-226	11/6/2018 11:29	6.9	20.2	7.6	65.3	68.3	68.4	24.0	18.9	-0.7	-0.6	-19.5
GEW-226	11/6/2018 11:31	7.1	19.0	7.6	66.3	68.4	68.4	24.0	24.4	-0.7	-0.7	-19.6
GEW-226	11/14/2018 11:08	1.0	53.2	0.0	45.8	103.8	104.5	9.1	5.7	-0.2	-0.2	-13.9
GEW-226	11/21/2018 8:36	0.9	61.0	0.0	38.1	194.3	194.3	14.8	5.2	-0.5	-0.5	-16.3
GEW-226	11/21/2018 8:37	0.6	61.1	0.0	38.3	195.0	195.0	11.9	7.9	-0.4	-0.4	-13.4
GEW-226	11/29/2018 9:11	1.1	55.8	1.2	41.9	198.7	199.1	21.3	16.7	-0.9	-0.5	-14.6
GEW-226	11/29/2018 9:13	0.9	57.3	1.2	40.6	199.3	199.3	13.6	13.7	-0.6	-0.8	-14.7

November 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 ₂ O		
GEW-227	11/2/2018 14:19	2.5	19.2	9.8	68.5	186.4	186.4	18.8	16.2	-1.0	-1.0	-20.6
GEW-227	11/2/2018 14:21	2.4	19.9	9.7	68.0	187.0	186.4	11.6	14.0	-0.6	-0.6	-21.1
GEW-227	11/3/2018 10:55	2.0	20.7	9.8	67.5	170.5	170.5	6.8	6.0	-0.5	-0.4	-19.5
GEW-227	11/3/2018 10:57	2.1	19.6	9.9	68.4	170.5	170.5	7.0	1.7	-0.4	-0.4	-19.7
GEW-227	11/5/2018 8:41	0.6	18.9	11.7	68.8	148.8	149.1	4.0	5.2	-0.1	-0.1	-4.4
GEW-227	11/5/2018 8:43	0.5	18.7	11.8	69.0	149.7	149.5	5.4	3.4	-0.1	-0.1	-4.5
GEW-227	11/16/2018 10:41	0.9	40.8	4.8	53.5	192.9	192.9	20.1	21.3	-0.8	-0.7	-19.0
GEW-227	11/16/2018 10:43	1.0	41.5	4.9	52.6	187.6	187.0	22.2	22.3	-0.7	-0.7	-19.0
GEW-227	11/21/2018 8:43	0.8	31.5	8.2	59.5	171.0	171.0	9.0	9.2	-0.2	-0.3	-18.8
GEW-227	11/21/2018 8:44	0.8	30.8	8.2	60.2	171.0	171.4	5.4	6.0	-0.1	-0.1	-19.1
GEW-227	11/29/2018 10:34	0.8	46.1	4.5	48.6	180.3	180.0	5.2	5.5	0.04	0.1	-19.6
GEW-227	11/29/2018 10:36	0.8	46.3	4.4	48.5	182.7	183.3	8.6	8.5	-0.1	-0.1	-19.9
GEW-228	11/1/2018 13:17	1.6	5.3	10.7	82.4	143.2	143.2	14.0	12.5	-0.4	-0.4	-20.6
GEW-228	11/1/2018 13:18	1.4	9.3	10.3	79.0	136.8	137.4	7.1	5.7	-0.1	-0.2	-19.8
GEW-228	11/6/2018 13:25	2.6	17.4	6.9	73.1	149.5	149.5	5.7	7.0	-0.1	-0.1	-18.0
GEW-228	11/6/2018 13:27	2.5	18.2	6.8	72.5	149.5	149.5	7.8	6.9	-0.1	-0.1	-19.3
GEW-228	11/16/2018 11:30	2.2	18.0	7.0	72.8	141.9	142.1	9.4	9.7	-0.1	-0.1	-17.9
GEW-228	11/16/2018 11:32	2.1	19.8	6.9	71.2	141.9	142.2	4.8	1.5	-0.1	-0.1	-18.1
GEW-228	11/21/2018 8:49	1.5	16.2	12.5	69.8	135.9	135.9	1.8	11.2	-0.1	-0.1	-18.4
GEW-228	11/21/2018 8:50	1.7	15.0	12.6	70.7	135.9	135.9	9.0	7.9	-0.1	-0.1	-17.5
GEW-228	11/29/2018 9:18	2.2	19.8	10.3	67.7	141.2	140.9	9.0	6.5	-0.1	-0.1	-17.8
GEW-228	11/29/2018 9:21	2.3	18.7	10.4	68.6	140.9	140.9	7.4	9.0	-0.1	-0.1	-16.2
GEW-229	11/1/2018 13:24	1.4	9.0	10.3	79.3	101.6	101.8	16.7	16.3	-0.2	-0.1	-20.4
GEW-229	11/1/2018 13:26	1.4	9.4	10.3	78.9	97.9	97.7	9.5	5.2	-0.1	-0.1	-20.5
GEW-229	11/6/2018 13:30	2.6	12.4	9.9	75.1	108.0	108.0	13.9	6.2	-0.1	-0.1	-18.5
GEW-229	11/6/2018 13:32	2.8	11.4	10.0	75.8	108.2	108.2	9.6	10.7	-0.1	-0.1	-18.8
GEW-229	11/16/2018 11:36	2.2	18.9	6.8	72.1	144.2	144.2	9.3	10.8	-0.03	-0.02	-19.3
GEW-229	11/16/2018 11:38	2.3	17.8	6.9	73.0	144.6	144.2	7.1	8.0	-0.03	-0.03	-18.8
GEW-229	11/21/2018 8:53	1.9	15.3	11.0	71.8	140.6	140.3	11.0	5.3	-0.01	-0.02	-18.1
GEW-229	11/21/2018 8:55	1.9	15.5	11.0	71.6	140.6	140.6	6.8	7.1	-0.02	-0.02	-19.5
GEW-229	11/29/2018 10:41	1.4	18.8	11.2	68.6	116.3	116.0	15.4	18.3	-0.1	-0.1	-19.7
GEW-229	11/29/2018 10:48	1.3	10.8	11.6	76.3	112.9	112.8	10.9	12.8	-0.03	-0.1	-19.0
GEW-230	11/1/2018 13:32	5.0	27.5	7.9	59.6	179.8	180.3	18.6	13.7	-0.8	-0.5	-20.8
GEW-230	11/1/2018 13:39	5.2	28.6	7.3	58.9	165.7	167.0	5.5	3.2	-0.1	-0.04	-20.1
GEW-230	11/6/2018 13:37	6.1	24.7	7.8	61.4	164.3	164.3	10.7	11.0	-0.5	-0.4	-19.2
GEW-230	11/6/2018 13:39	6.2	26.1	7.7	60.0	164.3	164.7	13.1	11.7	-0.4	-0.5	-19.6
GEW-230	11/16/2018 11:03	4.8	19.8	13.6	61.8	156.5	156.0	13.1	14.9	-0.5	-0.6	-20.3
GEW-230	11/16/2018 11:43	4.3	19.7	11.9	64.1	157.7	157.3	8.6	8.5	-0.2	-0.2	-20.0
GEW-230	11/16/2018 11:45	4.2	20.8	12.0	63.0	155.6	155.6	6.2	6.2	-0.1	-0.1	-19.7
GEW-230	11/21/2018 8:59	5.9	24.6	10.4	59.1	161.6	162.0	17.2	13.2	-0.4	-0.4	-19.0
GEW-230	11/21/2018 9:01	5.9	24.9	10.3	58.9	161.6	162.0	16.7	14.6	-0.5	-0.4	-19.1
GEW-230	11/29/2018 10:18	4.9	58.0	0.8	36.3	196.4	196.5	7.6	8.2	0.03	0.03	-19.7

November 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 ₂ O		
GEW-230	11/29/2018 10:20	4.7	61.8	1.0	32.5	197.9	197.9	13.4	13.5	-0.1	-0.1	-19.6
GEW-231	11/6/2018 11:18	21.0	59.2	0.9	18.9	148.4	148.0	7.5	8.4	-0.3	-0.4	-19.9
GEW-231	11/6/2018 11:20	21.6	58.6	0.9	18.9	148.0	148.4	3.7	7.0	-0.3	-0.2	-20.1
GEW-231	11/16/2018 10:31	18.9	56.1	0.8	24.2	144.9	145.5	11.6	6.5	-0.1	-0.1	-19.6
GEW-231	11/16/2018 10:32	18.7	57.9	0.8	22.6	145.2	145.2	12.1	6.1	-0.1	-0.1	-19.5
GEW-231	11/16/2018 14:34	19.4	58.3	0.7	21.6	148.0	147.7	8.8	9.8	-0.1	-0.1	-19.9
GEW-231	11/21/2018 8:29	19.7	54.8	1.2	24.3	143.1	142.9	8.1	3.6	-0.1	-0.1	-19.0
GEW-231	11/21/2018 8:30	18.7	56.0	1.1	24.2	143.2	143.2	10.2	5.4	-0.1	-0.1	-19.1
GEW-231	11/29/2018 9:04	21.1	59.8	0.4	18.7	147.3	147.5	10.7	12.3	-0.1	-0.1	-18.3
GEW-231	11/29/2018 9:07	21.6	59.0	0.3	19.1	149.8	149.8	12.5	11.0	-0.2	-0.2	-17.0
GEW-2S	11/7/2018 11:07	60.1	38.3	0.0	1.6	73.4	73.6	34.5	20.4	-4.7	-4.3	-13.2
GEW-2S	11/13/2018 11:34	57.3	41.6	0.2	0.9	52.6	52.6	12.0	13.9	-11.7	-11.2	-12.7
GEW-2S	11/13/2018 11:42	59.5	38.2	0.2	2.1	48.3	48.4	11.0	14.8	-11.5	-11.7	-12.7
GEW-2S	11/21/2018 10:05	59.7	36.7	0.3	3.3	71.8	72.0	6.9	6.3	-8.5	-8.5	-13.0
GEW-2S	11/26/2018 11:34	59.8	38.3	0.0	1.9	44.9	45.2	6.9	2.8	-7.4	-7.3	-13.2
GIW-01	11/7/2018 14:52	11.5	55.1	0.6	32.8	156.5	156.5	2.5	1.4	-6.5	-6.6	-19.2
GIW-01	11/7/2018 14:53	10.8	57.1	0.3	31.8	156.1	156.5	4.2	4.3	-6.7	-6.5	-19.1
GIW-01	11/12/2018 11:10	12.1	57.9	0.8	29.2	143.6	143.5	5.9	3.9	-7.0	-7.0	-19.8
GIW-01	11/12/2018 11:16	12.3	54.7	0.9	32.1	143.2	143.2	5.5	5.6	-7.0	-7.0	-19.8
GIW-01	11/21/2018 11:33	11.1	51.3	1.4	36.2	146.6	146.6	6.1	3.4	-8.9	-8.7	-19.3
GIW-01	11/21/2018 11:34	10.6	53.2	1.3	34.9	147.2	147.0	4.3	1.8	-9.1	-9.1	-20.4
GIW-01	11/27/2018 9:25	13.1	49.3	1.7	35.9	119.9	119.9	1.5	4.1	-12.1	-12.1	-20.3
GIW-02	11/7/2018 14:56	1.2	18.1	13.9	66.8	62.8	62.8	3.0	2.4	-0.2	-0.2	-19.2
GIW-02	11/7/2018 14:57	1.2	15.5	14.3	69.0	62.1	62.1	2.1	2.7	-0.2	-0.2	-19.2
GIW-02	11/12/2018 11:20	0.8	19.9	15.3	64.0	40.9	40.9	3.1	4.0	-0.1	-0.1	-19.3
GIW-02	11/12/2018 11:27	0.8	14.1	16.3	68.8	39.4	39.3	2.2	1.2	-0.1	-0.1	-19.8
GIW-02	11/21/2018 11:37	1.1	22.8	13.1	63.0	65.9	65.8	3.6	3.6	-0.1	-0.1	-20.4
GIW-02	11/21/2018 11:38	1.2	16.0	14.0	68.8	64.7	64.7	1.7	1.7	-0.1	-0.1	-20.9
GIW-02	11/27/2018 9:28	0.8	23.8	15.2	60.2	30.3	30.3	5.8	5.5	-0.1	-0.1	-20.2
GIW-02	11/27/2018 9:29	0.7	16.1	16.5	66.7	30.3	30.3	3.7	4.3	-0.1	-0.1	-20.1
GIW-03	11/8/2018 13:24	8.5	51.2	0.7	39.6	53.4	53.4	3.7	3.2	-3.4	-3.4	-19.8
GIW-03	11/12/2018 11:32	2.4	57.6	0.8	39.2	38.9	38.8	5.1	4.7	-1.7	-1.7	-19.0
GIW-03	11/12/2018 11:38	2.2	56.7	0.6	40.5	37.8	37.8	4.4	4.4	-1.7	-1.7	-19.2
GIW-03	11/21/2018 11:40	3.4	52.8	1.3	42.5	64.7	64.8	5.1	4.8	-3.0	-3.0	-20.4
GIW-03	11/27/2018 9:32	3.4	45.5	4.0	47.1	26.4	26.4	5.9	5.9	-2.5	-2.5	-20.0
GIW-04	11/8/2018 13:27	1.8	49.1	1.7	47.4	51.5	51.5	3.3	3.3	-2.6	-2.6	-19.8
GIW-04	11/13/2018 13:21	1.8	51.2	0.2	46.8	44.1	44.2	4.7	4.7	-1.7	-1.7	-19.2
GIW-04	11/13/2018 13:28	1.6	55.4	0.0	43.0	46.8	46.8	3.3	3.3	-1.8	-1.8	-19.0
GIW-04	11/21/2018 11:42	2.5	50.4	2.1	45.0	68.1	68.4	3.2	3.2	-2.8	-2.8	-20.4
GIW-04	11/27/2018 9:35	4.3	51.3	0.1	44.3	27.7	27.7	4.8	4.7	-3.4	-3.4	-20.3
GIW-05	11/8/2018 13:33	0.3	21.7	13.4	64.6	49.3	49.3	0.6	0.9	-0.5	-0.6	-20.1
GIW-05	11/8/2018 13:35	0.3	15.9	14.5	69.3	49.3	49.2	4.0	4.4	-0.6	-0.6	-19.9

November 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 ₂ O		
GIW-05	11/13/2018 13:35	0.3	22.5	13.8	63.4	37.7	38.8	2.0	2.1	-0.9	-0.9	-19.0
GIW-05	11/13/2018 13:42	0.1	12.4	16.9	70.6	40.5	40.5	2.9	5.1	-1.0	-1.0	-19.0
GIW-05	11/21/2018 11:46	0.5	26.0	12.2	61.3	61.4	63.0	4.1	2.9	-0.7	-0.7	-20.3
GIW-05	11/21/2018 11:47	0.5	23.8	12.6	63.1	64.3	64.4	7.1	7.1	-0.8	-0.8	-20.2
GIW-05	11/27/2018 9:39	0.4	19.0	15.2	65.4	24.3	24.3	2.9	2.9	-1.3	-1.3	-20.1
GIW-05	11/27/2018 9:40	0.4	19.5	14.8	65.3	24.7	24.7	5.7	5.7	-1.2	-1.2	-20.1
GIW-06	11/8/2018 13:39	28.6	40.4	0.0	31.0	51.0	51.1	4.7	4.7	-11.4	-11.4	-20.3
GIW-06	11/13/2018 13:46	31.2	41.5	0.1	27.2	45.5	45.5	4.6	4.4	-8.3	-8.3	-19.0
GIW-06	11/13/2018 13:54	31.6	40.6	0.0	27.8	46.4	46.4	3.5	4.1	-7.9	-7.9	-19.0
GIW-06	11/21/2018 13:36	30.3	38.6	0.0	31.1	74.9	75.1	2.6	4.9	-11.4	-11.4	-19.3
GIW-06	11/27/2018 14:27	31.0	39.1	0.1	29.8	39.8	39.9	5.7	6.6	-7.6	-7.6	-20.0
GIW-07	11/8/2018 13:42	42.5	48.1	0.0	9.4	49.9	49.9	4.8	4.8	-2.2	-2.2	-20.2
GIW-07	11/13/2018 14:00	43.2	49.5	0.0	7.3	43.9	44.1	4.9	4.9	-2.5	-2.5	-19.2
GIW-07	11/13/2018 14:07	43.1	48.7	0.1	8.1	47.8	47.7	4.1	4.5	-2.4	-2.4	-19.0
GIW-07	11/21/2018 13:38	42.7	48.4	0.0	8.9	72.3	72.3	5.0	4.9	-2.7	-2.7	-20.8
GIW-07	11/27/2018 14:30	42.7	48.3	0.0	9.0	39.5	39.7	5.2	4.9	-2.8	-2.8	-20.1
GIW-08	11/8/2018 13:45	42.6	46.7	0.0	10.7	50.7	50.7	3.3	3.9	-2.7	-2.7	-20.4
GIW-08	11/13/2018 14:12	45.2	48.2	0.0	6.6	42.7	42.8	3.1	4.5	-2.4	-2.4	-19.0
GIW-08	11/13/2018 14:20	46.3	46.5	0.0	7.2	42.3	42.3	4.5	4.2	-2.4	-2.4	-19.0
GIW-08	11/21/2018 13:41	44.2	48.0	0.0	7.8	67.7	67.8	5.1	4.2	-2.2	-2.2	-20.4
GIW-08	11/27/2018 14:32	44.7	48.4	0.0	6.9	36.8	36.9	6.0	5.4	-2.6	-2.6	-20.4
GIW-09	11/8/2018 13:48	10.8	31.0	1.9	56.3	49.5	49.6	1.2	1.2	-1.0	-1.0	-19.9
GIW-09	11/13/2018 14:23	12.9	32.0	1.8	53.3	44.0	44.2	3.1	2.8	-1.1	-1.1	-18.9
GIW-09	11/13/2018 14:29	11.9	31.0	1.9	55.2	44.7	44.7	2.5	2.8	-1.0	-1.0	-19.0
GIW-09	11/21/2018 14:27	14.2	27.8	0.9	57.1	67.1	67.2	3.8	3.6	-1.0	-1.0	-20.2
GIW-09	11/27/2018 14:35	12.0	31.7	1.1	55.2	38.5	38.5	3.1	1.8	-1.2	-1.2	-20.1
GIW-10	11/7/2018 14:44	13.1	37.4	0.0	49.5	66.8	66.8	4.8	2.9	-4.0	-4.0	-19.0
GIW-10	11/12/2018 10:49	12.2	33.3	0.0	54.5	41.2	41.2	1.8	2.2	-4.0	-4.0	-19.3
GIW-10	11/12/2018 10:57	11.6	35.2	0.0	53.2	40.8	40.8	2.2	2.8	-4.0	-4.0	-19.5
GIW-10	11/21/2018 11:23	11.8	34.2	0.0	54.0	64.9	64.9	2.9	2.9	-4.0	-4.0	-20.4
GIW-10	11/27/2018 9:22	11.8	35.2	0.0	53.0	29.4	29.4	2.9	1.3	-4.3	-4.3	-19.8
GIW-11	11/7/2018 14:42	18.9	38.1	0.3	42.7	64.9	64.9	5.0	4.2	-2.5	-2.5	-16.9
GIW-11	11/12/2018 10:01	19.3	37.2	0.1	43.4	42.1	42.1	4.2	6.0	-2.5	-2.5	-15.7
GIW-11	11/12/2018 10:07	18.9	37.6	0.1	43.4	41.6	41.6	2.8	4.4	-2.4	-2.4	-15.5
GIW-11	11/20/2018 10:12	20.1	36.8	0.4	42.7	36.0	36.0	2.7	4.1	-2.5	-2.5	-15.3
GIW-11	11/27/2018 9:19	20.2	35.9	0.5	43.4	27.4	27.3	4.3	2.6	-2.3	-2.4	-14.3
GIW-12	11/7/2018 14:37	12.8	43.8	2.8	40.6	66.5	66.6	3.2	2.1	-0.2	-0.2	-17.9
GIW-12	11/12/2018 9:37	11.7	45.3	2.1	40.9	41.9	41.9	1.8	2.5	-0.1	-0.1	-18.8
GIW-12	11/12/2018 9:44	11.6	43.9	2.2	42.3	42.5	42.5	2.8	4.6	-0.2	-0.2	-18.7
GIW-12	11/20/2018 10:07	14.1	36.9	4.8	44.2	34.3	34.4	3.5	3.5	-0.2	-0.2	-18.7
GIW-12	11/27/2018 9:12	15.2	35.0	5.8	44.0	22.1	22.2	3.5	4.4	-0.1	-0.1	-18.2
GIW-12	11/27/2018 9:13	14.8	35.0	5.8	44.4	22.6	22.7	3.2	1.3	-0.1	-0.1	-18.3

November 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 ₂ O		
GIW-13	11/7/2018 14:34	37.2	45.7	0.0	17.1	64.7	64.8	1.7	2.4	-1.5	-1.5	-11.9
GIW-13	11/12/2018 9:24	39.5	43.7	0.0	16.8	40.5	40.5	5.6	6.1	-1.5	-1.5	-12.6
GIW-13	11/12/2018 9:31	36.7	45.1	0.0	18.2	41.1	41.1	3.3	3.3	-1.4	-1.4	-12.9
GIW-13	11/20/2018 10:04	35.8	45.0	0.0	19.2	35.6	35.6	4.8	4.8	-1.6	-1.6	-12.5
GIW-13	11/27/2018 9:09	38.7	44.4	0.0	16.9	23.5	23.5	5.4	5.4	-1.5	-1.5	-10.7
LCS-1D	11/8/2018 8:45	30.5	30.3	8.9	30.3	51.6	51.6	6.0	9.4	-18.1	-18.6	-19.0
LCS-1D	11/8/2018 8:47	34.4	27.3	8.8	29.5	51.8	51.8	2.4	4.9	-18.1	-18.1	-19.1
LCS-2D	11/8/2018 7:59	57.7	41.1	0.0	1.2	40.9	40.9	2.7	11.0	-20.0	-20.1	-19.7
LCS-3D	11/8/2018 8:25	2.9	55.5	2.4	39.2	41.5	41.5	3.4	4.2	-15.6	-15.6	-18.5
LCS-5A	11/5/2018 13:55	59.3	37.5	0.0	3.2	64.0	63.8	15.5	15.5	-12.3	-12.3	-13.3
LCS-5A	11/14/2018 10:32	56.9	39.2	0.2	3.7	57.4	57.8	9.8	8.0	-11.8	-11.7	-12.0
LCS-5A	11/21/2018 9:03	56.3	39.9	0.1	3.7	74.3	74.8	6.2	9.5	-10.0	-10.0	-10.6
LCS-5A	11/26/2018 9:49	56.6	39.8	0.1	3.5	55.9	56.0	14.5	14.5	-9.8	-9.8	-11.6
LCS-5B	11/5/2018 13:58	56.3	39.9	0.0	3.8	131.2	131.3	21.0	19.0	-9.1	-9.1	-13.3
LCS-5B	11/5/2018 13:59	55.0	41.2	0.0	3.8	132.5	132.9	25.9	18.3	-9.2	-9.0	-13.3
LCS-5B	11/14/2018 10:59	54.5	40.9	0.0	4.6	136.2	136.5	13.4	20.6	-8.0	-8.0	-11.4
LCS-5B	11/14/2018 11:00	54.6	41.3	0.0	4.1	136.9	136.0	8.6	11.9	-8.4	-8.4	-11.0
LCS-5B	11/21/2018 9:16	54.4	41.0	0.0	4.6	140.6	140.6	19.0	18.7	-6.2	-6.2	-10.3
LCS-5B	11/21/2018 9:18	54.5	41.7	0.0	3.8	139.6	140.3	17.5	17.6	-7.4	-7.4	-11.1
LCS-5B	11/26/2018 10:07	54.4	40.9	0.0	4.7	131.8	132.4	22.3	22.3	-4.6	-4.6	-12.0
LCS-5B	11/26/2018 10:08	54.5	41.0	0.0	4.5	131.2	130.8	14.2	17.9	-7.0	-6.9	-11.1
LCS-6B	11/5/2018 14:06	57.0	40.7	0.0	2.3	53.4	53.4	8.3	8.3	0.3	0.3	-12.9
LCS-6B	11/5/2018 14:08	55.8	42.5	0.0	1.7	56.7	56.6	5.8	6.5	-0.3	-0.3	-13.0
LCS-6B	11/15/2018 10:21	50.2	37.7	1.8	10.3	54.8	54.9	5.9	6.5	-0.6	-0.6	-13.4
LCS-6B	11/15/2018 10:23	49.9	38.1	1.8	10.2	53.2	53.1	5.9	7.8	-0.4	-0.5	-13.2
LCS-6B	11/21/2018 10:32	48.9	37.6	1.9	11.6	62.1	62.1	7.6	7.6	-0.1	-0.1	-13.5
LCS-6B	11/29/2018 8:18	53.8	46.0	0.2	0.0	42.1	42.1	16.2	16.2	0.03	0.03	-12.8
LCS-6B	11/29/2018 8:19	54.0	45.6	0.2	0.2	44.1	44.1	16.1	16.1	-0.1	-0.1	-12.6
SEW-002	11/9/2018 10:43	15.9	54.7	0.5	28.9	40.2	40.2	8.5	9.0	-0.1	-0.1	-14.2
SEW-003	11/9/2018 10:25	3.8	35.2	9.9	51.1	63.3	63.4	13.8	13.9	-0.2	-0.2	-21.5
SEW-003	11/9/2018 10:26	3.8	35.6	9.9	50.7	63.3	63.4	13.5	13.8	-0.2	-0.2	-21.4
SEW-003	11/23/2018 8:41	2.9	42.4	5.3	49.4	67.1	67.2	6.8	7.0	-0.2	-0.1	-19.9
SEW-003	11/23/2018 8:43	2.8	44.4	5.3	47.5	67.0	67.2	10.8	10.8	-0.1	-0.1	-20.5
T-56	11/7/2018 14:13	46.2	34.6	0.0	19.2	63.3	63.5	13.8	14.1	-0.02	-0.03	-13.1
T-56	11/15/2018 14:52	56.2	37.0	0.0	6.8	56.1	56.2	14.2	16.3	-0.02	-0.03	-13.0
T-56	11/21/2018 10:56	43.5	33.2	0.0	23.3	56.1	56.2	16.4	16.3	-0.02	-0.04	-13.2
T-56	11/26/2018 14:55	33.2	31.0	0.0	35.8	46.5	46.7	11.8	17.2	-0.02	-0.03	-13.4

ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	August 2018	September 2018	October 2018	November 2018	><30°F	
GEW-002	116.9	116.3	115.5	113.5		
GEW-003	115.1	116.0	119.9	107.7		
GEW-004	115.8	115.3	115.3	109.2		
GEW-005	95.5	91.7	92.9	87.2		
GEW-006	92.0	89.4	89.8	86.8		
GEW-007	100.6	100.1	97.2	84.9		
GEW-008	115.8	116.3	114.4	111.2		
GEW-009	126.1	126.4	125.0	124.2		
GEW-010	98.7	104.3	98.2	66.8		
GEW-013A	195.0	190.7	190.9	189.6		
GEW-015	96.2	87.5	56.5	123.3		
GEW-016R	178.6	177.5	175.3	183.4		
GEW-018B	181.5	170.2	153.3	154.5		
GEW-019A	--	--	--	47.3		
GEW-022R	92.2	100.1	53.9	--		
GEW-038	111.5	98.2	70.9	--		
GEW-039	118.1	117.9	114.0	112.2		
GEW-040	92.4	104.5	84.4	58.2		
GEW-041R	104.8	103.4	102.1	95.8		
GEW-042R	110.0	110.7	108.7	102.1		
GEW-043R	124.4	124.7	123.7	122.2		
GEW-044	103.8	104.3	101.8	84.4		
GEW-045R	100.8	101.3	97.4	83.7		
GEW-046R	101.5	101.1	100.8	95.2		
GEW-047R	113.5	111.4	113.0	111.5		
GEW-048	103.6	102.1	101.4	97.2		
GEW-049	108.6	110.2	106.0	102.5		
GEW-050	108.2	108.7	107.0	102.3		
GEW-051	126.9	125.3	123.1	119.9		
GEW-052	116.3	115.8	115.0	107.5		
GEW-053	144.2	143.2	143.5	141.9		
GEW-054	142.9	142.7	145.9	145.9		
GEW-055	132.6	133.2	130.3	123.0		
GEW-056R	125.8	127.5	115.5	92.7		
GEW-057B	188.9	90.5	187.7	180.8		
GEW-057R	102.2	103.0	--	--		
GEW-058	99.9	101.6	--	--		
GEW-058A	100.4	99.2	90.1	59.4		
GEW-059R	165.8	165.3	173.1	159.4		

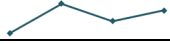
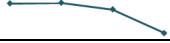
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	August 2018	September 2018	October 2018	November 2018	><30°F	
GEW-067A	114.1	81.2	100.4	66.8		
GEW-068A	200.0	199.3	198.7	198.6		
GEW-077	108.6	--	--	--		
GEW-078R	157.7	159.8	154.0	154.0		
GEW-081	92.8	97.9	--	--		
GEW-082R	176.4	177.7	174.7	174.1		
GEW-086	108.7	97.4	111.5	81.9		
GEW-087	126.9	131.4	127.5	80.7		
GEW-088	195.0	193.6	195.7	194.8		
GEW-090	181.5	197.9	179.2	173.1		
GEW-091	194.3	196.4	194.3	193.6		
GEW-100	86.1	91.2	83.7	63.1		
GEW-101	117.1	119.4	97.9	84.9		
GEW-102	84.0	99.1	73.4	69.3		
GEW-104	202.3	194.3	149.1	116.8		
GEW-105	140.2	147.7	157.3	95.3		
GEW-106	179.7	186.2	102.6	70.3		
GEW-107	173.1	162.3	170.5	140.2		
GEW-108	143.9	147.0	148.3	127.7		
GEW-109	135.3	125.8	109.2	82.6		
GEW-110	108.0	118.4	109.4	72.5		
GEW-113	150.2	150.2	137.1	136.6		
GEW-116	191.0	188.3	184.3	125.1		
GEW-117	125.6	118.6	90.8	72.7		
GEW-118	197.3	196.4	196.4	200.6		
GEW-120	161.6	159.8	159.4	126.7		
GEW-121	174.9	175.3	170.0	155.2		
GEW-122	148.0	148.4	126.7	115.5		
GEW-123	140.9	152.5	148.8	112.7		
GEW-124	88.2	92.9	78.1	57.2		
GEW-125	176.4	174.7	162.4	151.7		
GEW-126	119.7	124.8	75.7	85.8		
GEW-127	178.0	173.6	160.7	159.5		
GEW-128	178.0	167.6	156.5	154.0		
GEW-129	170.5	180.3	130.0	141.5		
GEW-130	185.1	182.7	185.7	180.8		
GEW-131	154.7	152.5	143.5	144.3		
GEW-132	167.6	159.0	77.3	154.8		
GEW-133	166.6	174.2	164.8	66.8		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	August 2018	September 2018	October 2018	November 2018	><30°F	
GEW-134	162.4	150.8	130.3	135.6		
GEW-135	152.9	158.5	154.8	152.9		
GEW-136	129.4	123.7	--	--		
GEW-137	113.7	108.3	94.8	90.8		
GEW-138	135.9	126.4	103.3	102.8		
GEW-139	192.9	188.9	188.3	176.9		
GEW-140	198.8	198.6	197.1	195.7		
GEW-141	101.1	97.4	--	--		
GEW-142	100.6	90.8	--	--		
GEW-143	97.2	96.7	--	--		
GEW-144	88.4	93.4	73.4	60.0		
GEW-145	113.2	105	78.7	67.9		
GEW-146	105.5	108.2	--	--		
GEW-147	157.7	179.2	159.5	175.3		
GEW-148	138.7	83.3	141.6	52.3		
GEW-149	133.4	126.9	122.1	84.1		
GEW-150	187.0	182.1	174.8	168.5		
GEW-151	130.3	112.7	119.9	110.5		
GEW-152	121.8	123.5	122.6	102.3		
GEW-153	107.7	89.8	99.4	49.6		
GEW-154	94.1	78.2	--	--		
GEW-155	115.5	117.9	86.8	68.7		
GEW-156	113.7	116.8	111.7	100.8		
GEW-157	119.0	146.5	135.9	127.9		
GEW-158	156.6	100.8	98.1	71.8		
GEW-159	97.9	88.4	83.5	40.5		
GEW-160	102.8	87.7	91.4	41.7		
GEW-161	130.1	103.2	131.7	40.8		
GEW-162	122.8	126.4	101.3	54.9		
GEW-163	167.1	169.0	171.6	165.9		
GEW-164	155.6	151.0	150.6	148.0		
GEW-165	175.8	174.7	172.5	173.1		
GEW-166	194.4	194.6	194.3	174.2		
GEW-167	190.9	187.6	188.3	192.9		
GEW-168	157.7	142.9	136.8	148.4		
GEW-169	185.7	183.9	179.7	170.5		
GEW-170	178.6	171.0	166.1	160.7		
GEW-171	137.7	89.8	95.3	56.8		
GEW-172	169.0	182.7	181.5	188.3		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	August 2018	September 2018	October 2018	November 2018	><30°F	
GEW-173	131.7	121.0	96.5	98.7		
GEW-174	156.6	153.3	150.1	148.4		
GEW-175	146.7	162.4	163.3	161.1		
GEW-176	105.7	101.8	104.8	64.4		
GEW-177	195.7	186.4	192.3	188.3		
GEW-178	115.2	121.2	118.1	94.0		
GEW-179	137.4	141.9	133.5	111.0		
GEW-180	143.9	146.7	144.2	128.0		
GEW-181	159.8	166.1	167.1	162.4		
GEW-182	122.0	120.2	109.2	120.2		
GEW-184	115.3	116.6	113.5	94.4		
GEW-185	175.5	171.0	166.5	153.7		
GEW-186	137.6	133.2	127.4	110.2		
GEW-187	167.6	171.6	165.7	163.3		
GEW-188	114.0	117.3	128.0	104.5		
GEW-217	104.5	200.8	143.2	178.6		
GEW-218	124.5	120.5	157.3	150.2		
GEW-219	193.6	183.1	183.3	169.7		
GEW-220	110.2	204.7	203.1	203.9		
GEW-221	104.5	144.0	163.4	151.0		
GEW-222	192.3	175.3	205.4	200.8		
GEW-223	200.1	200.7	193.6	199.3		
GEW-224	113.2	175.3	203.1	197.2		
GEW-225	106.0	135.3	193.6	192.2		
GEW-226	143.5	200.8	151.7	199.3		
GEW-227	205.4	203.0	203.1	192.9		
GEW-228	200.8	202.3	190.2	149.5		
GEW-229	121.1	152.9	173.5	144.6		
GEW-230	174.7	174.8	181.5	197.9		
GEW-231	190.9	171.6	163.5	149.8		
GEW-1A	--	--	--	--		
GEW-2S	87.5	96.9	95.5	73.4		
GIW-01	172.1	171.0	165.7	156.5		
GIW-02	104.3	103.8	89.6	65.9		
GIW-03	98.4	98.9	86.3	64.7		
GIW-04	99.9	103.8	87.4	68.1		
GIW-05	97.2	98.2	85.6	64.3		
GIW-06	99.9	100.7	71.9	74.9		
GIW-07	99.6	101.1	71.4	72.3		

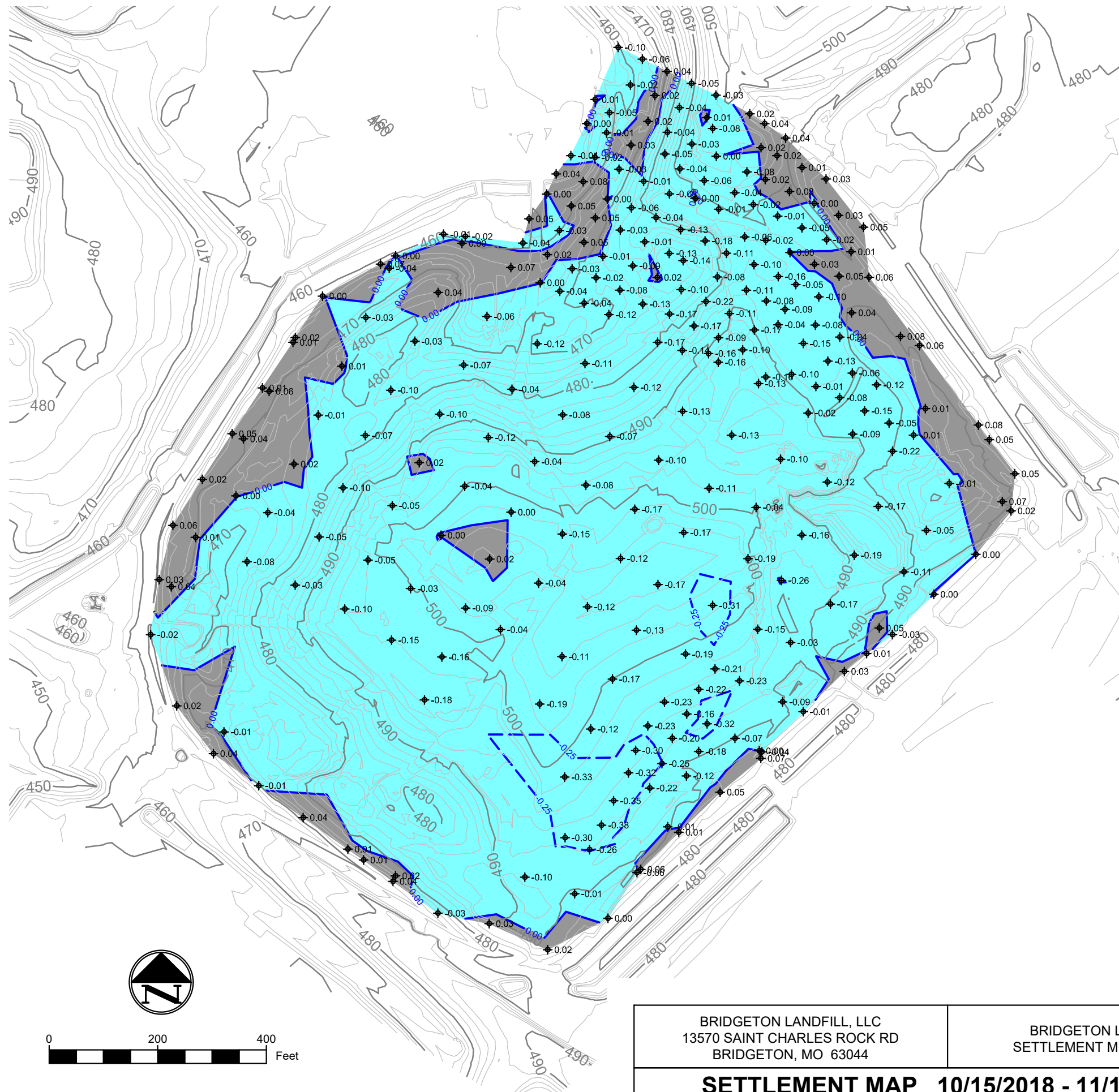
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	August 2018	September 2018	October 2018	November 2018	><30°F	
GIW-08	110.8	104.0	71.9	67.7		
GIW-09	106.8	99.9	73.4	67.1		
GIW-10	105.7	102.5	84.0	66.8		
GIW-11	101.6	102.1	87.5	64.9		
GIW-12	96.7	96.7	95.0	66.5		
GIW-13	99.6	99.2	95.3	64.7		
LCS-1D	86.1	114.8	61.4	51.8		
LCS-2D	81.4	94.8	47.0	40.9		
LCS-3D	82.3	101.4	47.3	41.5		
LCS-4B	--	--	--	--		
LCS-5A	102.1	104.8	92.9	74.3		
LCS-5B	150.9	149.2	144.5	140.6		
LCS-6B	118.9	115.0	95.6	62.1		
SEW-002	101.6	95.8	49.7	40.2		
SEW-003	122.9	116.6	81.2	67.1		
T-56	86.8	80.5	78.3	63.3		

-- = Indicates no data available.

ATTACHMENT E

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	0.00	
5	-1.00	0.00	1,308,151.16	
6	0.00	1.00	226,515.73	

LEGEND

- 12-1-2017 TOPOGRAPHY (2' CONTOUR)
- 500

12-1-2017 TOPOGRAPHY (10' CONTOUR)
- .25 --

MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
- .50 --

MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
- ⊕ -.03

SPOT ELEVATION DIFFERENCE (10-15-2018 to 11-15-2018)
- 11-2018 --

*SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.40' PER 31 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR NOVEMBER 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 10-15-18 FROM SPOT ELEVATIONS SURVEYED ON 11-15-18.
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.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044		BRIDGETON LANDFILL SETTLEMENT MONITORING			
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ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant

November 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
11/1/2018				0
11/2/2018				0
11/3/2018				0
11/4/2018				0
11/5/2018				0
11/6/2018				0
11/7/2018				0
11/8/2018				0
11/9/2018				0
11/10/2018				0
11/11/2018				0
11/12/2018				0
11/13/2018				0
11/14/2018				0
11/15/2018	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
11/16/2018				0
11/17/2018				0
11/18/2018				0
11/19/2018				0
11/20/2018				0
11/21/2018				0
11/22/2018				0
11/23/2018				0
11/24/2018				0
11/25/2018				0
11/26/2018				0
11/27/2018				0
11/28/2018				0
11/29/2018				0
11/30/2018				0
Total				0

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
11/1/2018			33,200
11/2/2018			110,624
11/3/2018			156,616
11/4/2018			104,440
11/5/2018			52,552
11/6/2018			151,112
11/7/2018			132,552
11/8/2018			98,856
11/9/2018			334,560
11/10/2018			154,640
11/11/2018			220,208
11/12/2018			56,640
11/13/2018			81,648
11/14/2018			89,776
11/15/2018	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	80,432
11/16/2018			162,384
11/17/2018			189,592
11/18/2018			154,872
11/19/2018			189,456
11/20/2018			155,528
11/21/2018			80,592
11/22/2018			243,952
11/23/2018			157,584
11/24/2018			162,432
11/25/2018			158,376
11/26/2018			132,400
11/27/2018			76,288
11/28/2018			72,360
11/29/2018			84,104
11/30/2018			192,608
Total			4,070,384

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes
November 2018

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 1,404,302 gallons. Therefore, the total leachate collected was 1,944,196 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	153,284
LCS-4B	0
LCS-5A	323,072
LCS-5B	62,592
LCS-6B	946