

Bridgeton Landfill, LLC

Monthly Data Submittals

October 2020

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

November 20, 2020

Commentary on Data

November 20, 2020

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 a total site flow of 1,061 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.
- On October 8, 2019 all landfill gas from the North Quarry was directed to the FL-120 Flare (combined with the South Quarry Landfill Gas). Therefore, as of this date, there was no flare testing nor data from the Auxiliary Flare. For the October 2020 Monthly Report, this affected the Appendix A – Flare Data and Flare Graphs.

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 at or greater than 5% during one (1) or more weekly monitoring events during this reporting period. These consisted of 24 GEW wells that are experiencing low or restricted flows, and one (1) GIW well that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 13 of the GEW Wells and none of 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. One (1) vertical well (excluding GIW wells) increased by 30°F or more and seven (7) decreased by 30°F or more during this reporting period. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (145.1°F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (62 ppm), consistent with past events.
- Site personnel are performing a comprehensive wellfield investigation to optimize the landfill gas collection and control system (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 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. Wells with poor gas quality are planned to be decommissioned in the latter half of 2020. This investigation continued through the Third Quarter 2020. Wellfield expansion and abandonment activities were reported in the quarterly Landfill Gas Corrective Action Update.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.19 feet over 28 days during this reporting period (see Attachment E).
- The North Quarry exhibited quarterly maximum settlement up to 0.26 feet over 90 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.

Slip Failure or Separation Assessment

- On September 23, 2020, an inspection of the Bridgeton Landfill was performed by P.J. Carey of Feezor Engineering, Inc, to identify visual evidence of instability or incipient failure. This inspection included the north and south quarry fill areas. The findings of this inspection were discussed in a separate report which was submitted on October 30, 2020. A copy of the Slip Failure or Separation Assessment is included in Attachment H.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

Daily Flare Monitoring Data - Bridgeton Landfill
October 2020

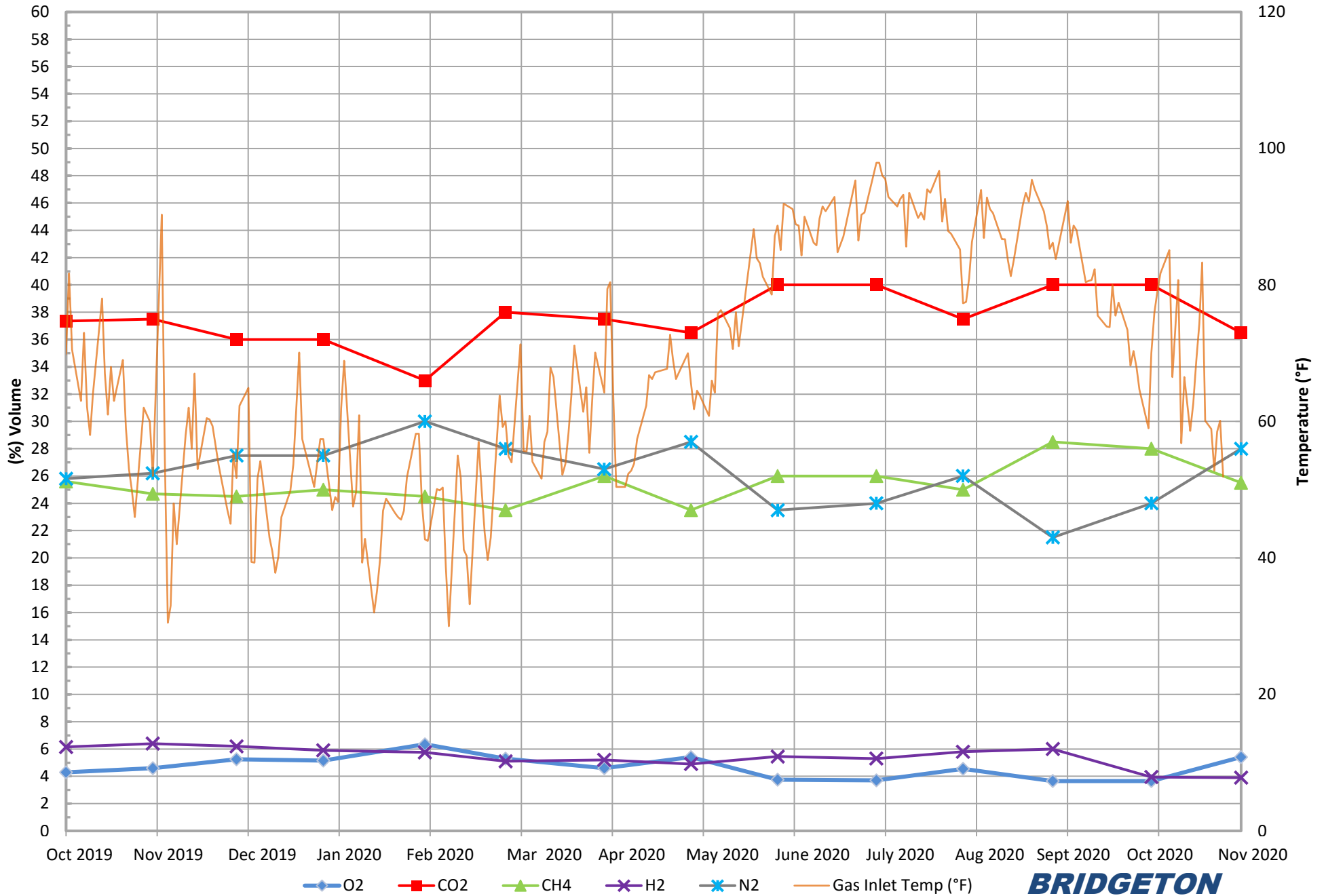
Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
10/1/2020	1,062	0	0	1,062
10/2/2020	1,063	0	0	1,063
10/3/2020	1,048	0	0	1,048
10/4/2020	1,042	0	0	1,042
10/5/2020	1,069	0	0	1,069
10/6/2020	1,080	0	0	1,080
10/7/2020	1,088	0	0	1,089
10/8/2020	1,100	0	0	1,100
10/9/2020	1,093	0	0	1,093
10/10/2020	1,083	0	0	1,083
10/11/2020	1,095	0	0	1,095
10/12/2020	1,066	0	0	1,066
10/13/2020	1,102	0	0	1,102
10/14/2020	1,130	0	0	1,130
10/15/2020	1,081	0	0	1,082
10/16/2020	1,097	0	0	1,097
10/17/2020	1,078	0	0	1,078
10/18/2020	1,049	0	0	1,049
10/19/2020	1,019	1	0	1,020
10/20/2020	1,048	0	0	1,049
10/21/2020	1,033	0	0	1,033
10/22/2020	1,093	0	0	1,093
10/23/2020	1,049	0	0	1,050
10/24/2020	1,055	0	0	1,056
10/25/2020	1,039	0	0	1,039
10/26/2020	1,022	0	0	1,023
10/27/2020	1,018	0	0	1,019
10/28/2020	1,025	0	0	1,025
10/29/2020	1,005	0	0	1,005
10/30/2020	1,029	0	0	1,029
10/31/2020	1,044	0	0	1,044
AVERAGE	1,061	0	0	1,061

* 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.
 On 10/8/19, the Bridgeton Landfill combined the North Quarry gas and the South Quarry Gas to the Main Flare

ATTACHMENT A-2

FLOW DATA GRAPHS

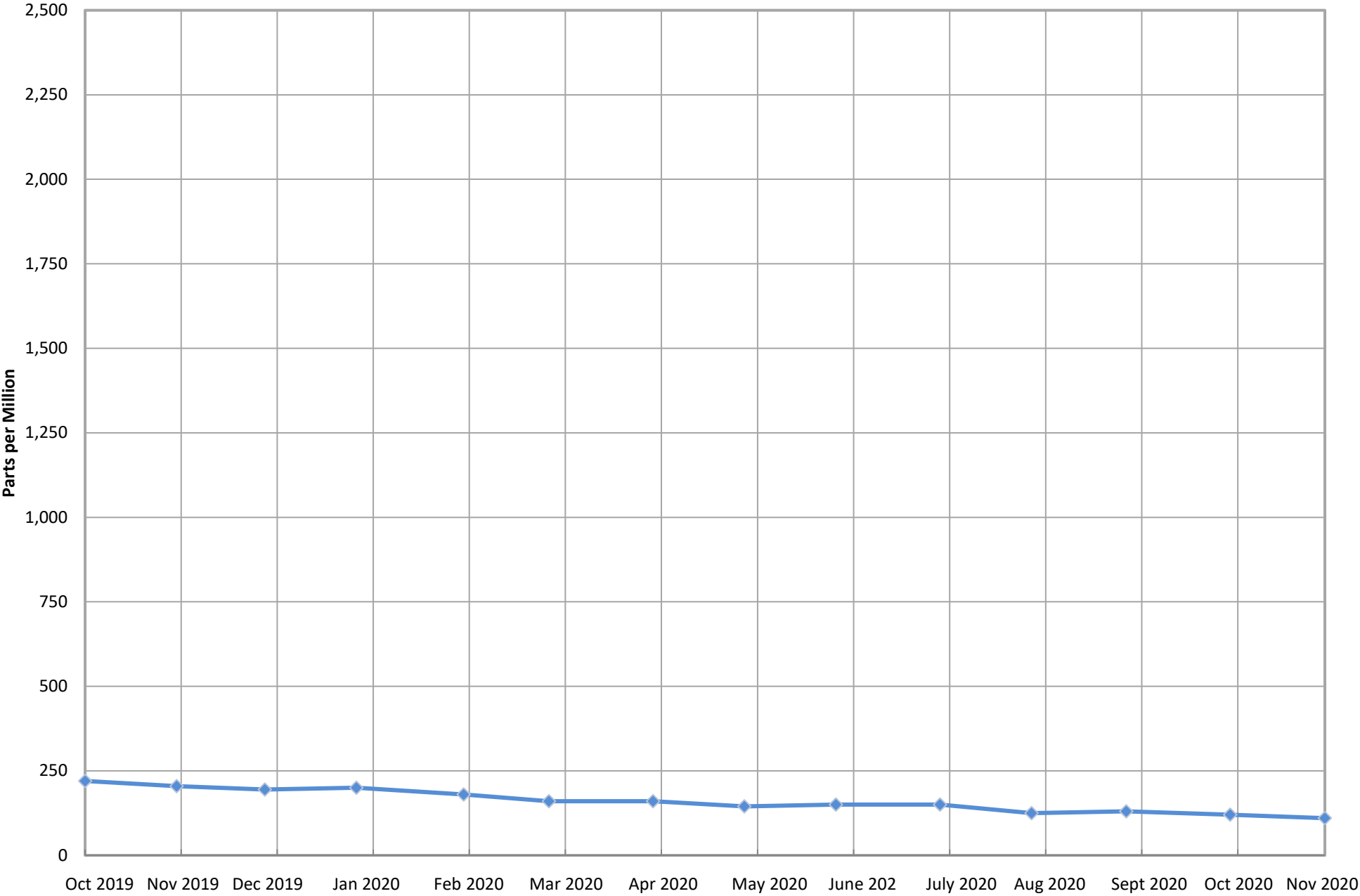
Combined Inlet Gas and Temperature*



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

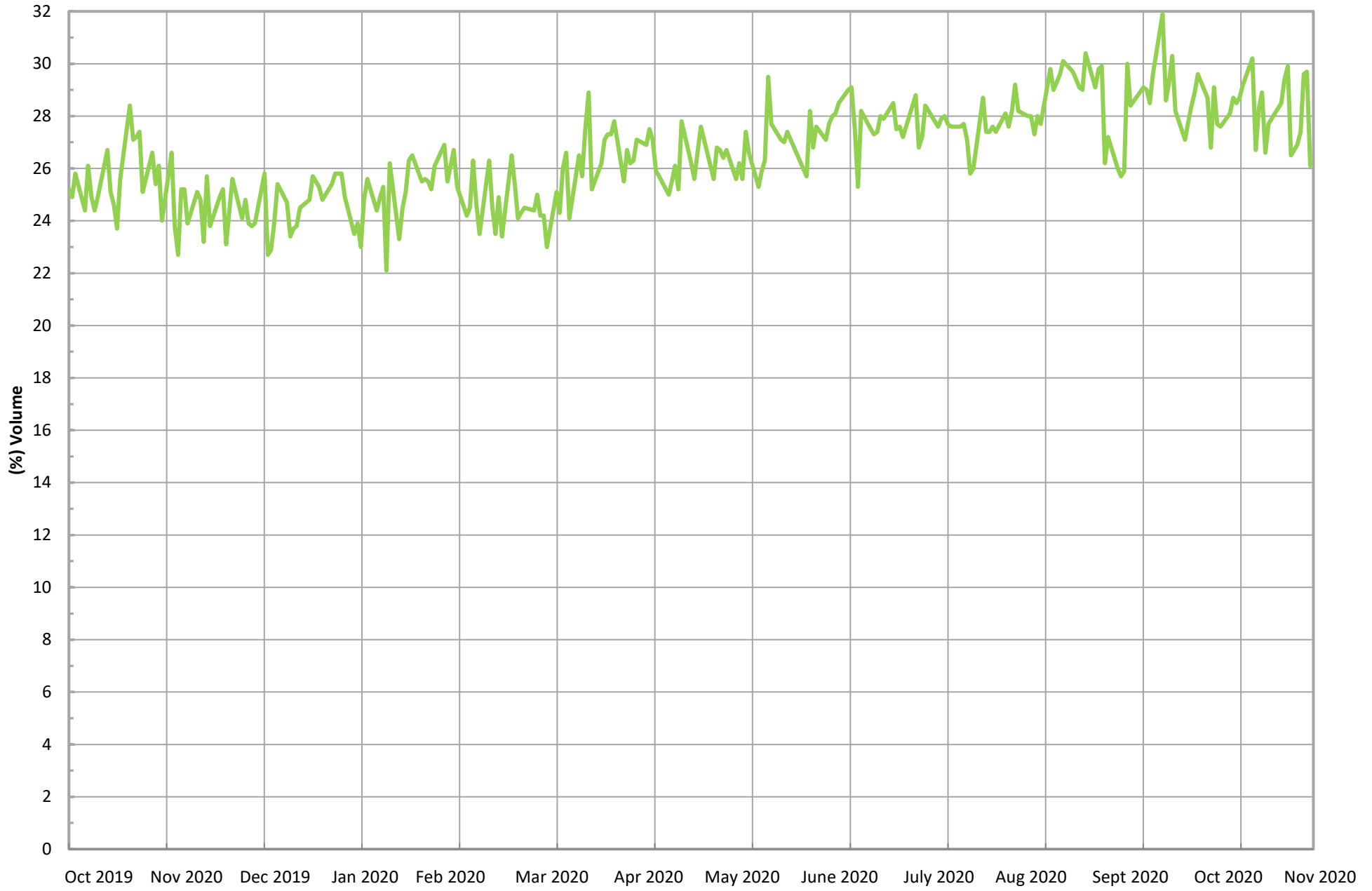
Combined Inlet Carbon Monoxide*



*Data collected from Laboratory Reports.

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Combined Inlet Methane (Field Data)*

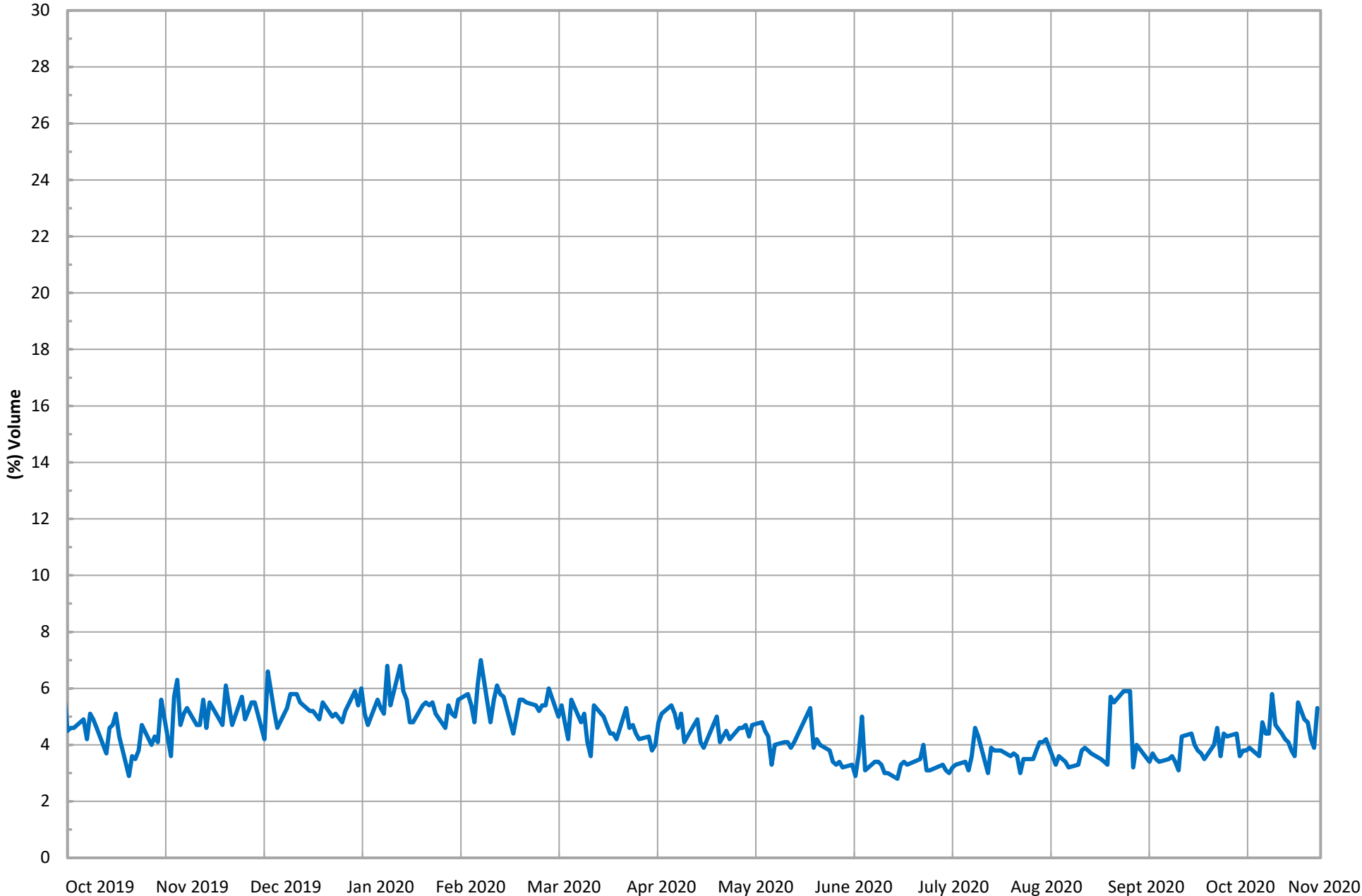


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

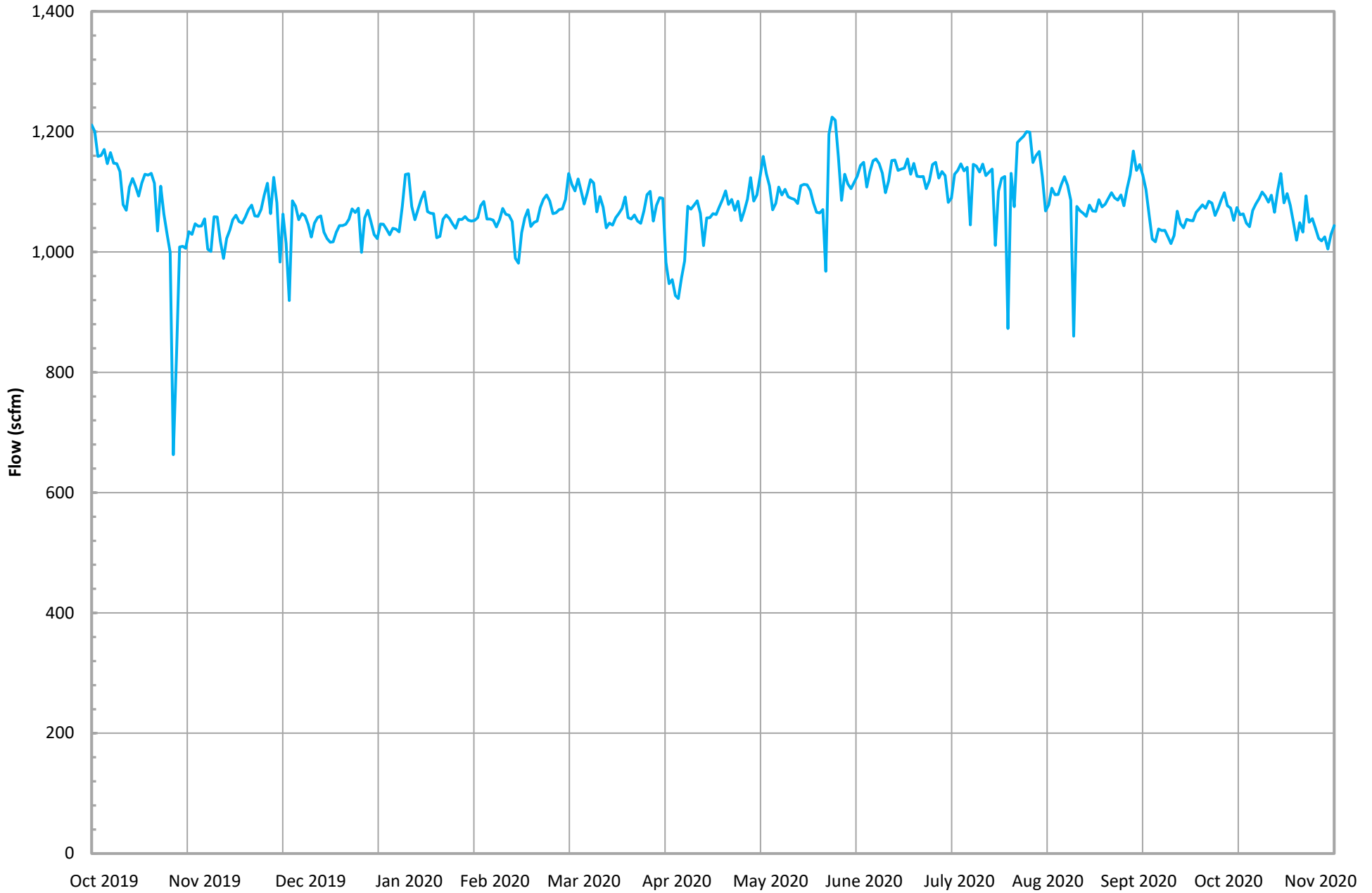


*Gas data collected from field monitoring data

— 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 Auxillary Candlestick Flare. On 10/8/19, the Auxillary Candelstick Flare was redirected to the Main Flare.

— Total Combined Flow (scfm)*

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ATTACHMENT B

WELL CONDITON/STATUS REPORT

October 2020		
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-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-58A	Operational	
GEW-59R	Operational	
GEW-67A	Operational	
GEW-68A	Operational	
GEW-78R	Operational	
GEW-82R	Operational	
GEW-86	Operational	
GEW-87	Operational	
GEW-88	Operational	
GEW-90	Operational	

October 2020		
ID	Well Condition	Comments
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	Non-Operational	Decommissioned
GEW-129	Operational	
GEW-130	Operational	
GEW-131	Operational	
GEW-132	Operational	
GEW-133	Operational	
GEW-134	Operational	
GEW-135	Operational	
GEW-137	Operational	
GEW-138	Non-Operational	Decommissioned
GEW-139	Operational	
GEW-140	Operational	
GEW-144	Operational	
GEW-145	Operational	
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	

October 2020

ID	Well Condition	Comments
GEW-154	Non-Operational	Decommissioned
GEW-155	Non-Operational	Decommissioned
GEW-156	Operational	
GEW-157	Operational	
GEW-158	Operational	
GEW-159	Non-Operational	Decommissioned
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	Non-Operational	Decommissioned
GEW-174	Operational	
GEW-175	Operational	
GEW-176	Non-Operational	Decommissioned
GEW-177	Operational	
GEW-178	Operational	
GEW-179	Operational	
GEW-180	Operational	
GEW-181	Operational	
GEW-182	Non-Operational	Decommissioned
GEW-184	Non-Operational	Decommissioned
GEW-185	Operational	
GEW-186	Operational	
GEW-187	Operational	
GEW-188	Non-Operational	Decommissioned
GEW-217	Operational	
GEW-218	Operational	
GEW-219	Non-Operational	Decommissioned
GEW-220	Operational	
GEW-221	Operational	
GEW-222	Operational	
GEW-223	Operational	
GEW-224	Operational	
GEW-225	Operational	
GEW-226	Operational	

October 2020		
ID	Well Condition	Comments
GEW-227	Operational	
GEW-228	Operational	
GEW-229	Operational	
GEW-230	Operational	
GEW-231	Non-Operational	Decommissioned
GEW-232	Operational	
GEW-233	Operational	
GEW-234	Operational	
GEW-235	Operational	
GEW-236	Operational	
GEW-237	Operational	
GEW-238	Operational	
GEW-239	Operational	
GEW-240	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 (ppm)	Comments
GEW-002	6/10/2020	44	34	4.0	17	ND	ND	
GEW-002	6/24/2020	52	40	ND	7.3	ND	ND	See Note 3
GEW-002	7/8/2020	53	43	ND	4.0	ND	ND	
GEW-002	8/12/2020	53	43	ND	3.7	ND	ND	
GEW-002	9/15/2020	51	42	ND	6.4	ND	ND	
GEW-002	10/14/2020	51	40	ND	8.0	ND	ND	
GEW-02S	6/10/2020	59	37	ND	3.5	ND	ND	
GEW-02S	7/8/2020	58	36	ND	4.5	ND	ND	
GEW-02S	8/12/2020	55	36	1.6	7.1	ND	ND	See Note 3
GEW-02S	8/24/2020	56	36	ND	6.6	ND	ND	
GEW-02S	9/14/2020	53	36	ND	9.5	ND	ND	
GEW-02S	10/12/2020	58	37	ND	3.7	ND	ND	
GEW-003	6/10/2020	50	42	ND	7.5	ND	ND	
GEW-003	7/8/2020	46	42	ND	11	ND	ND	
GEW-003	8/12/2020	51	45	ND	4.0	ND	ND	
GEW-003	9/15/2020	49	44	ND	6.0	ND	ND	
GEW-003	10/14/2020	53	44	ND	ND	ND	ND	
GEW-004	6/10/2020	49	41	ND	9.3	ND	ND	
GEW-004	7/8/2020	50	41	ND	8.0	ND	ND	
GEW-004	8/12/2020	50	41	ND	7.7	ND	ND	
GEW-004	9/15/2020	51	41	ND	6.3	ND	ND	
GEW-004	10/14/2020	52	41	ND	6.6	0.051	ND	
GEW-005	6/10/2020	44	36	ND	19	ND	ND	
GEW-005	7/8/2020	52	40	ND	7.0	ND	ND	
GEW-005	8/12/2020	52	39	ND	8.9	ND	ND	
GEW-005	9/15/2020	52	39	ND	7.7	ND	ND	
GEW-005	10/14/2020	55	40	ND	4.9	ND	ND	
GEW-006	6/10/2020	53	39	ND	7.4	ND	ND	
GEW-006	7/8/2020	54	40	ND	6.0	ND	ND	
GEW-006	8/12/2020	54	40	ND	5.4	ND	ND	
GEW-006	9/15/2020	54	41	ND	4.8	ND	ND	
GEW-006	10/14/2020	55	40	ND	5.0	ND	ND	
GEW-007	6/8/2020	52	41	ND	6.1	ND	ND	
GEW-007	7/7/2020	53	42	ND	3.8	ND	ND	
GEW-007	8/10/2020	53	42	ND	4.1	ND	ND	
GEW-007	9/9/2020	53	42	ND	3.6	ND	ND	
GEW-007	10/12/2020	54	41	ND	3.7	ND	ND	
GEW-008	6/8/2020	49	43	ND	5.3	1.0	ND	
GEW-008	7/8/2020	50	44	ND	3.4	1.0	ND	
GEW-008	8/10/2020	50	44	ND	3.6	1.3	ND	
GEW-008	9/14/2020	50	44	ND	3.7	1.0	ND	
GEW-008	10/12/2020	51	44	ND	ND	1.2	ND	
GEW-009	6/8/2020	48	42	ND	7.6	0.53	ND	
GEW-009	7/8/2020	48	43	ND	7.0	0.44	ND	
GEW-009	8/10/2020	49	44	ND	6.3	0.52	ND	
GEW-009	9/14/2020	49	44	ND	6.7	0.44	ND	
GEW-009	10/12/2020	50	43	ND	6.4	0.52	ND	
GEW-040	6/8/2020	51	34	ND	14	ND	ND	
GEW-040	7/8/2020	50	35	ND	14	ND	ND	
GEW-040	8/11/2020	51	35	ND	13	ND	ND	
GEW-040	9/14/2020	53	35	ND	11	ND	ND	
GEW-040	10/12/2002	55	34	ND	10	ND	ND	
GEW-041R	6/8/2020	50	35	1.7	12	ND	ND	
GEW-041R	6/24/2020	50	36	ND	12	ND	ND	
GEW-041R	7/8/2020	49	37	ND	14	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
(%)								
GEW-041R	8/11/2020	51	37	ND	11	ND	ND	
GEW-041R	9/14/2020	51	37	ND	11	ND	ND	
GEW-041R	10/12/2020	51	36	ND	12	ND	ND	
GEW-042R	6/8/2020	51	38	1.9	9.4	ND	ND	
GEW-042R	6/24/2020	53	40	ND	6.0	ND	ND	
GEW-042R	7/8/2020	52	40	ND	6.5	ND	ND	
GEW-042R	8/11/2020	54	40	ND	5.6	ND	ND	
GEW-042R	9/14/2020	53	40	ND	5.6	ND	ND	
GEW-042R	10/12/2020	53	39	ND	7.2	ND	ND	
GEW-043R	6/9/2020	52	42	ND	5.1	0.11	ND	
GEW-043R	7/8/2020	52	42	ND	4.8	0.089	ND	
GEW-043R	8/11/2020	53	43	ND	3.7	0.11	ND	
GEW-043R	9/14/2020	53	43	ND	3.2	0.100	ND	
GEW-043R	10/12/2020	54	42	ND	3.2	0.11	ND	
GEW-044	6/9/2020	52	38	ND	9.2	ND	ND	
GEW-044	7/8/2020	48	37	ND	14	ND	ND	
GEW-044	8/12/2020	52	37	ND	10	ND	ND	
GEW-044	9/14/2020	50	39	ND	10.0	ND	ND	
GEW-044	10/12/2020	47	38	ND	14	ND	ND	
GEW-045R	6/10/2020	50	38	ND	9.9	ND	ND	
GEW-045R	7/8/2020	52	40	ND	7.5	ND	ND	
GEW-045R	8/12/2020	53	40	ND	5.8	ND	ND	
GEW-045R	9/14/2020	54	41	ND	4.6	ND	ND	
GEW-045R	10/14/2020	55	40	ND	4.6	ND	ND	
GEW-046R	6/10/2020	44	36	ND	19	ND	ND	
GEW-046R	7/8/2020	49	39	ND	11	ND	ND	
GEW-046R	8/12/2020	51	44	ND	3.8	ND	ND	
GEW-046R	9/15/2020	52	44	ND	3.2	ND	ND	
GEW-046R	10/14/2020	53	43	ND	3.6	ND	ND	
GEW-047R	6/10/2020	46	39	ND	14	ND	ND	
GEW-047R	7/8/2020	49	42	ND	7.4	ND	ND	
GEW-047R	8/12/2020	51	42	ND	6.8	ND	ND	
GEW-047R	9/15/2020	50	42	ND	6.6	ND	ND	
GEW-047R	10/14/2020	51	42	ND	6.0	0.067	ND	
GEW-048	6/10/2020	51	40	ND	7.7	ND	ND	
GEW-048	7/8/2020	51	40	ND	7.7	ND	ND	
GEW-048	8/12/2020	52	40	ND	7.1	ND	ND	
GEW-048	9/15/2020	53	41	ND	5.4	ND	ND	
GEW-048	10/14/2020	53	40	ND	5.5	ND	ND	
GEW-049	6/9/2020	47	38	3.1	12	ND	ND	
GEW-049	6/24/2020	47	39	ND	14	ND	ND	See Note 3
GEW-049	7/8/2020	48	39	ND	12	ND	ND	
GEW-049	8/12/2020	48	40	ND	12	ND	ND	
GEW-049	9/14/2020	51	42	ND	6.6	ND	ND	
GEW-049	10/14/2020	53	42	ND	3.7	ND	ND	
GEW-050	6/8/2020	51	38	1.7	9.4	ND	ND	
GEW-050	6/24/2020	52	40	ND	7.1	ND	ND	
GEW-050	7/7/2020	52	39	ND	7.6	ND	ND	
GEW-050	8/10/2020	47	36	3.2	13	ND	ND	See Note 3
GEW-050	8/24/2020	52	40	ND	6.7	ND	ND	
GEW-050	9/9/2020	52	40	ND	6.6	ND	ND	
GEW-050	10/12/2020	53	40	ND	6.3	ND	ND	
GEW-051	6/8/2020	51	42	ND	4.6	0.92	ND	
GEW-051	7/8/2020	52	43	ND	3.8	0.82	ND	
GEW-051	8/10/2020	51	42	ND	4.6	0.95	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-051	9/14/2020	52	42	ND	3.7	0.84	ND	
GEW-051	10/12/2020	53	42	ND	3.2	0.91	ND	
GEW-052	6/8/2020	47	38	1.7	13	ND	ND	
GEW-052	6/24/2020	49	39	ND	12	ND	ND	
GEW-052	7/7/2020	49	38	ND	12	ND	ND	
GEW-052	8/10/2020	50	40	ND	9.3	ND	ND	
GEW-052	9/9/2020	50	41	ND	8.6	ND	ND	
GEW-052	10/12/2020	52	41	ND	5.5	ND	ND	
GEW-053	6/8/2020	48	44	ND	4.3	3.2	61	
GEW-053	7/8/2020	48	44	ND	4.5	2.7	55	
GEW-053	8/10/2020	48	43	ND	4.7	3.2	56	
GEW-053	9/14/2020	48	44	ND	3.7	3.0	57	
GEW-053	10/12/2020	49	43	ND	3.7	3.5	62	
GEW-054	6/8/2020	50	44	ND	3.4	1.6	ND	
GEW-054	7/8/2020	50	44	ND	ND	1.4	ND	
GEW-054	8/11/2020	50	44	ND	3.5	1.6	ND	
GEW-054	9/14/2020	51	44	ND	ND	1.5	ND	
GEW-054	10/12/2020	51	44	ND	ND	1.6	ND	
GEW-055	6/8/2020	49	42	ND	6.7	1.1	ND	
GEW-055	7/8/2020	50	43	ND	4.7	1.0	ND	
GEW-055	8/11/2020	50	44	ND	4.0	1.3	ND	
GEW-055	9/14/2020	50	44	ND	3.7	1.1	ND	
GEW-055	10/12/2020	51	44	ND	ND	1.2	ND	
Flare Station ²	6/3/2020	26.0	40.0	3.8	23.5	5.5	150	See Note 9
Flare Station ²	7/6/2020	26.0	40.0	3.7	24.0	5.3	150	See Note 9
Flare Station ²	8/4/2020	25.0	37.5	4.6	26.0	5.8	125	See Note 9
Flare Station ²	9/3/2020	28.5	40.0	3.7	21.5	6.0	130	See Note 9
Flare Station ²	10/6/2020	28.0	40.0	3.7	24.0	4.0	120	See Note 9

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. (9) On 10/8/19 the North Quarry and South Quarry Flares were combined.

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 (ppm)	Comments
				(%)						
South Quarry										
GEW-010	6/10/2020	52	44	ND	ND	0.060	ND			
GEW-010	7/15/2020	52	43	ND	3.5	0.056	ND			
GEW-010	8/12/2020	52	45	ND	ND	0.078	ND			
GEW-010	9/10/2020	53	44	ND	ND	0.066	ND			
GEW-010	10/13/2020	54	42	ND	ND	0.068	ND			
GEW-013A	7/14/2020	9.6	37	3.4	38	11	260			
GEW-013A	10/5/2020	0.010	0.11	22	78	ND	ND		See Note 3	
GEW-015	7/14/2020	21	48	ND	11	18	410			
GEW-015	10/7/2020	26	47	ND	6.7	19	370			
GEW-016R	7/14/2020	8.1	51	ND	17	21	530			
GEW-016R	10/7/2020	9.4	48	ND	19	22	580			
GEW-018B	7/14/2020	1.3	51	ND	3.9	41	740			
GEW-018B	10/7/2020	1.9	48	ND	6.1	41	600			
GEW-019A	7/13/2020	1.2	59	3.6	13	23	840			
GEW-019A	10/9/2020	0.51	33	11	41	14	470		See Note 4	
GEW-039	6/10/2020	21	30	2.7	45	ND	ND			
GEW-039	7/17/2020	20	25	6.9	47	ND	ND			
GEW-039	8/13/2020	21	30	2.4	47	ND	ND			
GEW-039	9/11/2020	45	42	ND	12	ND	ND			
GEW-039	10/13/2020	42	41	ND	16	ND	ND			
GEW-056R	6/10/2020	41	42	2.4	12	2.5	50			
GEW-056R	7/15/2020	45	45	ND	6.9	2.7	53			
GEW-056R	8/12/2020	44	45	ND	7.5	3.2	48			
GEW-056R	9/10/2020	45	45	ND	5.7	3.1	47			
GEW-056R	10/13/2020	42	42	ND	12	2.9	40			
GEW-057B	7/10/2020	0.98	32	9.2	32	24	310		See Note 4	
GEW-057B	10/9/2020	1.5	52	ND	ND	41	500			
GEW-058A	7/9/2020	8.2	35	2.5	32	22	490			
GEW-058A	10/9/2020	7.3	33	2.8	32	24	510			
GEW-059R	7/6/2020	13	38	ND	22	26	470			
GEW-059R	10/9/2020	24	39	ND	8.9	27	400			
GEW-067A	7/14/2020	16	40	2.9	18	22	280			
GEW-067A	10/5/2020	0.24	1.1	21	77	0.48	ND		See Note 3	
GEW-068A	7/13/2020	3.1	54	ND	ND	38	1,000			
GEW-068A	10/12/2020	16	44	ND	13	25	770			
GEW-078R	7/14/2020	9.7	32	ND	43	13	380			
GEW-078R	10/7/2020	23	37	ND	23	15	430			
GEW-082R	7/14/2020	7.6	34	ND	39	18	440			
GEW-082R	10/7/2020	8.7	33	ND	38	18	450			
GEW-086	7/14/2020	13	31	2.5	44	8.3	100			
GEW-086	10/5/2020	ND	0.087	22	78	ND	ND		See Note 4	
GEW-087	7/14/2020	20	45	ND	22	11	260			
GEW-087	10/7/2020	4.7	63	ND	ND	27	650			
GEW-088	7/14/2020	1.8	46	ND	6.7	43	1,000			
GEW-088	10/5/2020	0.27	7.3	18	66	8.1	150		See Note 3	
GEW-090	7/14/2020	19	42	ND	17	21	330			
GEW-090	10/5/2020	7.1	11	16	61	4.3	71		See Note 3	
GEW-091	6/10/2020	2.2	51	2.3	8.0	34	340			
GEW-091	7/15/2020	2.0	49	2.0	7.5	36	320			
GEW-091	8/13/2020	2.5	48	1.8	6.1	38	350			
GEW-091	9/11/2020	2.3	46	2.3	7.9	38	340			
GEW-091	10/14/2020	1.9	49	ND	3.5	42	340			
GEW-100	7/13/2020	13	51	3.6	13	18	280			
GEW-100	10/9/2020	17	60	ND	4.4	17	280			

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		(%)						
GEW-101	7/13/2020	34	62	ND	ND	ND	ND	
GEW-101	10/9/2020	30	58	1.9	10	ND	ND	
GEW-102	7/10/2020	30	42	3.3	12	12	82	
GEW-102	10/9/2020	29	43	2.1	7.5	17	66	
GEW-104	7/10/2020	10	52	ND	7.9	28	440	
GEW-104	10/9/2020	1.9	54	ND	ND	39	460	
GEW-105	7/10/2020	39	45	ND	3.9	11	210	
GEW-105	10/9/2020	40	43	ND	4.3	12	210	
GEW-106	7/9/2020	10.0	47	ND	12	30	640	
GEW-106	10/9/2020	13	41	4.4	19	22	370	
GEW-107	7/9/2020	33	48	ND	5.1	12	370	
GEW-107	10/9/2020	39	49	ND	ND	9.0	210	
GEW-108	6/10/2020	32	46	ND	4.6	16	260	
GEW-108	7/17/2020	38	47	ND	ND	12	190	
GEW-108	8/13/2020	37	45	ND	ND	13	180	
GEW-108	9/11/2020	37	45	ND	ND	14	210	
GEW-108	10/14/2020	38	43	ND	ND	14	210	
GEW-109	6/10/2020	42	43	1.7	13	0.33	ND	
GEW-109	7/17/2020	40	42	2.1	16	0.41	ND	
GEW-109	8/13/2020	41	43	1.9	13	0.40	ND	
GEW-109	9/11/2020	42	43	1.8	12	0.44	ND	
GEW-109	10/13/2020	43	41	2.0	13	0.46	ND	
GEW-110	6/10/2020	28	35	6.3	26	4.6	90	See Note 4
GEW-110	7/15/2020	42	47	ND	ND	7.1	90	
GEW-110	8/12/2020	41	48	ND	ND	7.5	96	
GEW-110	9/10/2020	45	45	ND	4.9	3.7	62	
GEW-110	10/13/2020	45	43	ND	8.6	3.0	49	
GEW-113	7/14/2020	10	56	ND	9.8	21	580	
GEW-113	10/7/2020	12	57	ND	8.1	21	530	
GEW-116	7/14/2020	19	44	2.7	31	2.8	220	
GEW-116	10/7/2020	27	53	ND	16	2.0	140	
GEW-117	7/14/2020	27	54	ND	15	2.0	150	
GEW-117	10/8/2020	32	50	ND	15	1.4	110	
GEW-118	7/14/2020	1.5	57	ND	ND	36	330	
GEW-118	10/9/2020	4.8	47	ND	14	32	670	
GEW-120	7/13/2020	27	40	3.0	29	0.15	38	
GEW-120	10/8/2020	34	44	1.9	20	0.083	ND	
GEW-121	7/13/2020	25	46	ND	21	7.2	200	
GEW-121	10/8/2020	35	51	ND	9.4	3.7	130	
GEW-122	7/13/2020	37	37	ND	18	7.1	240	
GEW-122	10/8/2020	30	27	6.5	30	5.9	170	See Note 3
GEW-122	10/29/2020	39	38	ND	14	8.7	240	
GEW-123	7/13/2020	29	60	ND	9.1	1.2	190	
GEW-123	10/8/2020	31	63	ND	4.2	0.78	120	
GEW-124	7/13/2020	50	44	ND	4.9	ND	ND	
GEW-124	10/8/2020	38	32	6.4	23	ND	ND	See Note 4
GEW-125	7/13/2020	38	46	ND	14	0.36	79	
GEW-125	10/9/2020	41	50	ND	8.0	ND	ND	
GEW-126	7/13/2020	22	52	1.9	11	13	590	
GEW-126	10/9/2020	26	52	ND	7.7	13	560	
GEW-127	7/13/2020	17	52	ND	15	14	730	
GEW-127	10/9/2020	17	46	3.2	20	13	660	
GEW-129	7/14/2020	35	53	ND	8.4	1.3	130	
GEW-129	10/9/2020	36	52	ND	8.9	1.3	110	
GEW-130	7/13/2020	22	45	ND	14	17	830	
GEW-130	10/9/2020	23	43	ND	15	17	840	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-131	7/13/2020	38	46	ND	ND	12	520	
GEW-131	10/9/2020	41	43	ND	4.0	11	390	
GEW-132	7/14/2020	11	29	3.1	47	9.5	350	
GEW-132	10/8/2020	15	32	ND	40	11	400	
GEW-133	7/14/2020	3.5	34	ND	47	14	480	
GEW-133	10/7/2020	4.3	40	ND	39	15	620	
GEW-134	7/14/2020	7.1	39	2.0	40	11	310	
GEW-134	10/7/2020	6.5	46	ND	24	21	660	
GEW-135	7/14/2020	3.2	53	ND	12	30	630	
GEW-135	10/7/2020	2.9	49	ND	18	27	530	
GEW-137	7/14/2020	37	42	ND	19	ND	ND	
GEW-137	10/7/2020	39	42	ND	18	ND	ND	
GEW-139	7/13/2020	18	40	2.6	18	21	730	
GEW-139	10/9/2020	14	40	4.2	16	26	950	
GEW-140	7/13/2020	30	41	ND	14	13	250	
GEW-140	10/9/2020	15	49	ND	3.2	32	1,000	
GEW-144	7/13/2020	38	41	4.5	16	0.12	ND	
GEW-144	10/12/2020	50	47	ND	ND	0.15	ND	
GEW-145	7/10/2020	30	46	ND	ND	20	180	
GEW-145	10/9/2020	34	45	ND	ND	18	130	
GEW-147	7/14/2020	13	45	ND	22	17	360	
GEW-147	10/7/2020	16	42	2.1	23	16	360	
GEW-148	7/14/2020	18	51	ND	ND	27	990	
GEW-148	10/7/2020	16	52	ND	ND	28	980	
GEW-149	7/14/2020	9.1	29	ND	60	0.16	ND	
GEW-149	10/5/2020	8.3	21	2.5	67	0.47	ND	
GEW-150	7/10/2020	25	44	2.4	15	14	310	
GEW-150	10/9/2020	32	47	ND	5.5	15	280	
GEW-151	7/14/2020	5.9	44	2.0	11	36	620	
GEW-151	10/5/2020	7.7	34	4.8	30	24	420	
GEW-152	7/9/2020	23	48	ND	8.5	19	440	
GEW-152	10/9/2020	38	44	ND	ND	14	340	
GEW-153	7/6/2020	23	33	ND	40	2.9	170	
GEW-153	10/9/2020	32	30	5.1	29	2.7	ND	See Note 3
GEW-153	10/27/2020	31	33	1.5	33	2.1	65	
GEW-156	7/10/2020	30	44	ND	10	13	270	
GEW-156	10/12/2020	28	43	2.1	8.6	18	400	
GEW-157	7/10/2020	29	43	2.0	7.2	18	240	
GEW-157	10/9/2020	15	45	ND	ND	36	510	
GEW-158	7/10/2020	29	46	ND	9.6	14	310	
GEW-158	10/9/2020	31	46	ND	8.2	14	280	
GEW-160	6/10/2020	20	33	4.0	32	10	210	
GEW-160	7/15/2020	22	37	ND	27	12	230	
GEW-160	8/13/2020	24	33	3.8	29	11	170	
GEW-160	9/11/2020	30	38	ND	18	12	200	
GEW-160	10/14/2020	30	37	ND	20	11	190	
GEW-161	6/10/2020	5.4	54	ND	5.4	33	1,000	
GEW-161	7/15/2020	4.9	49	ND	7.3	37	1,100	
GEW-161	8/13/2020	6.4	51	ND	4.8	36	920	
GEW-161	9/11/2020	6.9	50	ND	5.8	35	920	
GEW-161	10/14/2020	7.5	48	1.7	8.1	34	810	
GEW-162	6/10/2020	13	64	ND	9.6	11	460	
GEW-162	7/15/2020	13	58	ND	14	13	420	
GEW-162	8/13/2020	13	61	ND	12	12	420	
GEW-162	9/11/2020	14	63	1.6	11	9.3	420	
GEW-162	10/14/2020	16	62	ND	10.0	11	410	
GEW-163	7/13/2020	28	58	ND	10	2.3	89	

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Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-163	10/8/2020	26	44	ND	27	0.95	42	
GEW-164	7/13/2020	31	49	ND	18	ND	38	
GEW-164	10/8/2020	35	49	ND	15	ND	ND	
GEW-165	7/13/2020	16	43	4.3	28	7.7	230	
GEW-165	10/8/2020	20	43	4.6	25	7.1	210	
GEW-166	7/13/2020	7.4	40	5.3	26	21	1,100	See Note 4
GEW-166	10/8/2020	2.0	57	ND	ND	37	2,100	
GEW-167	7/13/2020	13	46	ND	8.6	32	1,200	
GEW-167	10/8/2020	16	45	ND	7.7	30	1,100	
GEW-168	7/13/2020	37	55	ND	ND	3.4	86	
GEW-168	10/9/2020	40	51	ND	4.6	2.4	52	
GEW-169	7/13/2020	18	45	2.0	25	9.8	420	
GEW-169	10/9/2020	24	49	ND	14	11	450	
GEW-170	7/13/2020	10	37	4.2	35	13	560	
GEW-170	10/9/2020	9.7	34	6.2	38	12	570	See Note 4
GEW-171	7/13/2020	24	59	2.7	10	3.3	190	
GEW-171	10/9/2020	22	56	3.3	13	5.1	230	
GEW-172	7/13/2020	24	45	1.7	11	18	630	
GEW-172	10/9/2020	25	44	2.8	10.0	18	560	
GEW-174	7/10/2020	14	37	ND	38	9.1	170	
GEW-174	10/9/2020	15	38	ND	31	15	340	
GEW-175	7/10/2020	26	37	4.1	31	1.0	72	
GEW-175	10/9/2020	30	39	2.9	27	1.8	72	
GEW-177	7/13/2020	10	43	3.5	26	16	1,100	
GEW-177	10/9/2020	17	46	3.2	20	13	660	
GEW-178	7/10/2020	26	36	2.4	35	ND	ND	
GEW-178	10/9/2020	33	35	4.0	27	ND	ND	
GEW-179	7/10/2020	41	43	ND	15	ND	ND	
GEW-179	10/9/2020	36	39	ND	24	ND	ND	
GEW-180	7/13/2020	33	62	ND	4.3	ND	ND	
GEW-180	10/12/2020	36	54	1.7	7.4	ND	ND	
GEW-181	7/13/2020	19	50	7.0	25	ND	ND	See Note 3
GEW-181	10/9/2020	26	63	ND	9.5	ND	ND	
GEW-185	7/13/2020	29	50	ND	19	ND	ND	
GEW-185	10/8/2020	41	55	ND	3.3	ND	ND	
GEW-186	7/13/2020	47	48	ND	ND	1.1	43	
GEW-186	10/9/2020	25	32	4.4	37	0.63	36	
GEW-187	6/10/2020	41	51	ND	4.2	2.1	66	
GEW-187	7/17/2020	43	53	ND	ND	1.4	50	
GEW-187	8/13/2020	42	53	ND	ND	2.1	45	
GEW-187	9/11/2020	42	51	ND	ND	2.0	42	
GEW-187	10/14/2020	44	51	ND	ND	1.9	39	
GEW-217	7/10/2020	32	46	ND	ND	18	210	
GEW-217	10/9/2020	14	50	ND	3.6	29	410	
GEW-218	7/10/2020	21	46	ND	18	13	340	
GEW-218	10/12/2020	24	45	1.8	16	13	360	
GEW-220	7/10/2020	16	35	7.5	27	13	430	See Note 3
GEW-220	10/12/2020	34	44	ND	12	7.7	260	
GEW-221	7/13/2020	26	56	ND	13	3.4	130	
GEW-221	10/12/2020	29	50	3.1	17	1.5	33	
GEW-222	7/13/2020	39	43	ND	8.7	7.7	110	
GEW-222	10/12/2020	49	42	ND	6.0	1.7	41	
GEW-223	7/13/2020	31	64	ND	ND	0.76	200	
GEW-223	10/9/2020	32	64	ND	ND	0.55	140	
GEW-224	7/13/2020	32	59	ND	ND	4.2	400	
GEW-224	10/9/2020	34	58	ND	4.4	3.3	290	
GEW-225	7/13/2020	14	50	ND	8.4	26	1,300	
GEW-225	10/9/2020	21	49	ND	5.6	23	1,100	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-226	7/13/2020	13	35	ND	37	13	480	
GEW-226	10/9/2020	33	41	ND	8.4	15	530	
GEW-227	7/14/2020	1.4	43	2.0	22	30	580	
GEW-227	10/7/2020	6.4	32	4.7	39	18	310	
GEW-228	7/14/2020	3.5	28	5.1	44	18	220	See Note 4
GEW-228	10/7/2020	3.2	23	6.7	54	13	160	See Note 4
GEW-229	7/14/2020	7.6	26	ND	56	7.5	160	
GEW-229	10/7/2020	2.7	23	2.4	69	2.7	87	
GEW-230	7/14/2020	3.2	30	2.6	53	10	190	
GEW-230	10/5/2020	7.5	25	7.9	47	12	200	See Note 4
GEW-232	7/14/2020	26	56	ND	13	3.4	140	
GEW-232	10/7/2020	28	53	2.1	13	3.4	120	
GEW-233	7/14/2020	3.0	34	3.6	43	15	360	
GEW-233	10/7/2020	4.2	27	6.4	52	10	220	See Note 4
GEW-234	7/14/2020	1.5	37	6.1	32	22	640	See Note 4
GEW-234	10/12/2020	1.1	50	2.3	9.6	35	1,100	
GEW-235	7/13/2020	23	50	ND	11	14	280	
GEW-235	10/8/2020	28	51	ND	8.9	11	210	
GEW-236	7/14/2020	3.9	22	8.8	53	12	86	See Note 4
GEW-236	10/7/2020	2.1	38	3.2	14	40	270	
GEW-237	7/10/2020	30	41	4.3	23	1.7	83	
GEW-237	10/9/2020	37	45	1.6	13	2.1	69	
GEW-238	7/14/2020	16	54	1.9	14	14	360	
GEW-238	10/7/2020	15	59	ND	6.9	18	400	
GEW-239	7/14/2020	1.3	50	ND	ND	43	950	
GEW-239	10/5/2020	0.25	7.2	19	66	7.9	130	See Note 3
GEW-240	7/13/2020	2.1	39	1.7	30	25	580	
GEW-240	10/9/2020	6.9	33	ND	42	16	310	
GEW-241	10/27/2020	35	36	4.7	23	ND	ND	
GEW-242	10/27/2020	43	48	ND	4.1	4.1	200	
GEW-243	10/27/2020	41	50	ND	7.4	0.13	140	
GEW-244	10/27/2020	2.1	2.1	21	75	ND	ND	See Note 4
GEW-245	10/27/2020	30	46	ND	22	0.50	49	
GEW-246	10/27/2020	48	46	ND	2.8	2.1	69	
GEW-247	10/27/2020	41	43	ND	2.9	13	220	
GEW-248	10/27/2020	10	22	7.5	56	3.7	160	See Note 4
GEW-249	10/27/2020	29	44	4.6	21	2.0	99	
GEW-250	10/27/2020	0.45	17	11	69	2.3	110	See Note 4
GEW-251	10/27/2020	5.8	46	ND	10	37	810	
GEW-252	10/27/2020	38	44	ND	3.2	13	200	
GEW-253	10/27/2020	6.1	17	10	63	3.6	120	See Note 4
GIW-01	6/10/2020	27	51	2.8	11	7.8	250	
GIW-01	7/15/2020	30	56	ND	4.0	9.4	250	
GIW-01	8/5/2020	27	54	ND	6.2	10	240	
GIW-01	9/10/2020	27	49	3.0	12	8.6	210	
GIW-01	10/12/2020	30	53	ND	6.3	9.0	240	
GIW-02	6/10/2020	14	54	ND	21	10	470	
GIW-02	7/15/2020	7.6	48	3.3	25	16	640	
GIW-02	8/5/2020	10	50	1.7	23	14	510	
GIW-02	9/10/2020	8.6	47	4.0	25	15	550	
GIW-02	10/12/2020	8.0	34	6.0	42	9.7	400	See Note 4
GIW-03	6/10/2020	24	44	ND	21	9.6	350	
GIW-03	7/15/2020	20	43	ND	25	11	330	
GIW-03	8/5/2020	22	44	ND	21	12	320	
GIW-03	9/10/2020	21	41	2.9	23	12	320	
GIW-03	10/12/2020	21	43	ND	23	12	350	
GIW-04	6/10/2020	23	48	ND	9.0	19	570	
GIW-04	7/15/2020	22	46	ND	9.7	20	470	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GIW-04	8/5/2020	23	47	ND	7.6	21	460	
GIW-04	9/10/2020	23	47	ND	7.1	22	480	
GIW-04	10/12/2020	23	45	ND	8.9	22	500	
GIW-05	6/10/2020	8.0	14	17	61	0.82	39	See Note 4
GIW-05	7/15/2020	30	39	1.7	19	10	110	
GIW-05	8/5/2020	27	36	3.1	23	10	100	
GIW-05	9/10/2020	35	39	1.7	13	12	120	
GIW-05	10/12/2020	34	36	3.1	17	10	110	
GIW-06	6/10/2020	38	45	ND	13	3.1	33	
GIW-06	7/15/2020	33	41	ND	22	2.8	ND	
GIW-06	8/12/2020	34	38	ND	23	3.5	32	
GIW-06	9/10/2020	37	40	ND	18	3.4	40	
GIW-06	10/12/2020	37	39	1.7	18	3.8	35	
GIW-07	6/10/2020	50	45	ND	3.2	ND	ND	
GIW-07	7/15/2020	48	47	ND	4.2	ND	ND	
GIW-07	8/12/2020	50	46	ND	3.3	ND	ND	
GIW-07	9/10/2020	50	46	ND	ND	ND	ND	
GIW-07	10/12/2020	49	46	ND	3.6	ND	ND	
GIW-08	6/10/2020	46	46	ND	7.7	ND	ND	
GIW-08	7/15/2020	45	45	ND	9.4	ND	ND	
GIW-08	8/12/2020	44	43	1.9	11	ND	ND	
GIW-08	9/10/2020	29	40	2.0	20	8.7	84	
GIW-08	10/12/2020	47	45	ND	6.4	ND	ND	
GIW-09	6/10/2020	26	41	ND	22	9.3	110	
GIW-09	7/15/2020	25	39	ND	25	9.2	89	
GIW-09	8/12/2020	28	40	ND	20	9.8	84	
GIW-09	9/10/2020	47	45	ND	7.2	ND	ND	
GIW-09	10/12/2020	30	40	ND	19	8.7	72	
GIW-10	6/10/2020	25	34	ND	35	4.6	87	
GIW-10	7/15/2020	24	33	ND	35	6.5	84	
GIW-10	8/12/2020	25	33	ND	33	7.3	82	
GIW-10	9/10/2020	28	34	ND	28	7.5	98	
GIW-10	10/12/2020	27	34	ND	30	7.0	91	
GIW-11	6/10/2020	26	36	ND	35	2.1	46	
GIW-11	7/15/2020	23	34	ND	40	1.9	83	
GIW-11	8/12/2020	24	33	2.1	38	2.4	100	
GIW-11	9/10/2020	27	35	ND	34	2.4	99	
GIW-11	10/12/2020	25	32	1.8	38	2.2	100	
GIW-12	6/10/2020	33	39	ND	25	2.1	72	
GIW-12	7/15/2020	29	36	2.2	30	2.4	73	
GIW-12	8/12/2020	31	37	1.9	27	2.7	69	
GIW-12	9/10/2020	34	38	ND	24	2.1	56	
GIW-12	10/13/2020	32	35	1.8	29	2.4	54	
GIW-13	6/10/2020	47	45	ND	3.9	3.1	51	
GIW-13	7/15/2020	42	47	ND	6.5	4.2	62	
GIW-13	8/12/2020	38	45	ND	7.0	8.7	64	
GIW-13	9/10/2020	42	46	ND	6.6	4.3	62	
GIW-13	10/13/2020	40	44	ND	9.1	6.4	60	

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

ATTACHMENT C-2

LABORATORY ANALYSES REPORTS



October 27, 2020

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: L101906-01/147

Enclosed are results for sample(s) received 10/19/20 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; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 10/26/20.

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", is written over a light blue horizontal line.

Mark Johnson
Operations Manager

mjohnson@airtechlab.com

Enclosures

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



CHAIN OF CUSTODY RECORD

TURNAROUND TIME			DELIVERABLES		PAGE: 1 OF 16		
Standard	<input type="checkbox"/>	48 hours	<input checked="" type="checkbox"/>	EDD	<input checked="" type="checkbox"/>	Condition upon receipt:	
Same Day	<input type="checkbox"/>	72 hours	<input type="checkbox"/>	EDF	<input type="checkbox"/>	Sealed	Yes <input type="checkbox"/> No <input type="checkbox"/>
24 hours	<input type="checkbox"/>	96 hours	<input type="checkbox"/>	Level 3	<input type="checkbox"/>	Intact	Yes <input type="checkbox"/> No <input type="checkbox"/>
Other:	<u>5 Day</u>			Level 4	<input type="checkbox"/>	Chilled	_____ deg C

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

BILLING **ANALYSIS REQUEST**

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

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION	D1946 + CO, H2							
	Cannister ID	Sample Start	Sample End														
L101906-01	A7811	-20.5	-5	GEW 153	10/9/2020	7:52	C	LFG	NA	X							Initial lab vac 4/5 0
	A7795	-20.5	-5	GEW 59R	10/9/2020	8:00	C	LFG	NA	X							4.5
	A7820	-20.4	-5	GEW 107	10/9/2020	8:10	C	LFG	NA	X							4.5
	3834	-20.6	-5	GEW 152	10/9/2020	8:19	C	LFG	NA	X							4.5
	3155	-20.4	-5	GEW 58A	10/9/2020	8:29	C	LFG	NA	X							4.5
	A8066	-20.4	-5	GEW 106	10/9/2020	8:44	C	LFG	NA	X							4.5
	5313	-20.4	-5	GEW 158	10/9/2020	8:54	C	LFG	NA	X							5
	A7805	-20.2	-5	GEW 105	10/9/2020	9:03	C	LFG	NA	X							5
	3825	-20.5	-5	GEW 237	10/9/2020	9:13	C	LFG	NA	X							5
	A7818	-20.1	-5	GEW 175	10/9/2020	13:25	C	LFG	NA	X							5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 10-9-2020


RELINQUISHED BY: Ante Ka **DATE/TIME:** 10/16/2020 **RECEIVED BY:** _____ **DATE/TIME:** _____

RELINQUISHED BY: FEL **DATE/TIME:** 10/19/20 **RECEIVED BY:** Dej **DATE/TIME:** 10/19/20 **DATE/TIME:** 10/15

RELINQUISHED BY: _____ **DATE/TIME:** _____ **RECEIVED BY:** _____ **DATE/TIME:** _____

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

COMMENTS

 <p>18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																							
	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>				DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 2 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C																
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone & Fax: 314-683-3921 e-mail: mlambrich@republicservices.com				BILLING				ANALYSIS REQUEST																
				P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044				D1946 + CO, H2 initial vac "H2"																
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION			SAMPLE DATE							SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION							
	Cannister ID	Sample Start	Sample End																					
L101906-11	A7654	-20.3	-5	GEW 150			10/9/2020							13:35	C	LFG	NA	X						S
L101906-12	A8075	-20.1	-5	GEW 104			10/9/2020							13:44	C	LFG	NA	X						S
L101906-13	A7752	-20.1	-5	GEW 157			10/9/2020							13:54	C	LFG	NA	X						S.S
L101906-14	5309	-20.1	-5	GEW 57B			10/9/2020							14:03	C	LFG	NA	X						S.S
L101906-15	6160	-20.1	-5	GEW 217			10/9/2020							14:13	C	LFG	NA	X						S.S
L101906-16	A8069	-20.3	-5	GEW 178			10/9/2020							14:24	C	LFG	NA	X						S.S
L101906-17	A8071	-20.3	-5	GEW 179			10/9/2020							14:39	C	LFG	NA	X						S.S
L101906-18	3132	-20.2	-5	GEW 102			10/9/2020	14:49	C	LFG	NA	X						S.S						
L101906-19	6135	-20.2	-5	GEW 145			10/9/2020	14:58	C	LFG	NA	X						S.S						
L101906-20	O1410	-20.1	-5	GEW 50			10/12/2020	8:41	C	LFG	NA	X						S						
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 10/12/2020 10:12:00 RELINQUISHED BY: <i>Anthony Kimutis</i> DATE/TIME: 10/12/2020 RECEIVED BY: DATE/TIME: RELINQUISHED BY: FED ex DATE/TIME: 10/19/20 RECEIVED BY: <i>[Signature]</i> DATE/TIME: 10/19/20 10:45 RELINQUISHED BY: DATE/TIME: RECEIVED BY: DATE/TIME:										COMMENTS 														
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



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CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 3 OF 16
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					Initial use "11/15"
	Cannister ID	Sample Start	Sample End												
L101906-21	O1427	-20.1	-5	GEW 52	10/12/2020	8:51	C	LFG	NA	X					S
-22	O1398	-20.1	-5	GEW 7	10/12/2020	9:04	C	LFG	NA	X					S
-23	O1420	-20.5	-5	GEW 8	10/12/2020	9:15	C	LFG	NA	X					S
-24	O1408	-20.3	-5	GEW 9	10/12/2020	9:28	C	LFG	NA	X					S
-25	O1414	-20	-5	GEW 51	10/12/2020	9:47	C	LFG	NA	X					S
-26	O1426	-20.1	-5	GEW 53	10/12/2020	10:02	C	LFG	NA	X					S
-27	O1418	-19.9	-5	GEW 54	10/12/2020	10:13	C	LFG	NA	X					S
-28	O1412	-20.2	-5	GEW 55	10/12/2020	10:26	C	LFG	NA	X					S
-29	O1425	-20.1	-5	GEW 2S	10/12/2020	14:04	C	LFG	NA	X					S
-30	O1419	-19.9	-5	GEW 40	10/12/2020	14:19	C	LFG	NA	X					S

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 10/12/2020

RELINQUISHED BY: <i>Asst. Kts</i> DATE/TIME: 10/12/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <i>FED EX</i> DATE/TIME: 10/19/20	RECEIVED BY: <i>Jeff</i> DATE/TIME: 10/12/20 1045
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



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Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 4 OF 16
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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


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

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				Initial Use "H2"
	Cannister ID	Sample Start	Sample End												
L101906-31	O1415	-20.4	-5	GEW 41R	10/12/2020	14:29	C	LFG	NA	X					S
-32	O1422	-20.2	-5	GEW 42R	10/12/2020	14:41	C	LFG	NA	X					S
-33	O1421	-20.1	-5	GEW 43R	10/12/2020	14:55	C	LFG	NA	X					S
-34	O1403	-20.5	-5	GEW 44	10/12/2020	15:06	C	LFG	NA	X					S

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 10/12/2020
RELINQUISHED BY: Anthony Kimutis DATE/TIME: 10/16/2020 **RECEIVED BY:** _____ DATE/TIME: _____
RELINQUISHED BY: RED EX DATE/TIME: 10/19/20 **RECEIVED BY:** JAG DATE/TIME: 10/19/20 1045
RELINQUISHED BY: _____ DATE/TIME: _____ **RECEIVED BY:** _____ DATE/TIME: _____

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

COMMENTS



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CHAIN OF CUSTODY RECORD

TURNAROUND TIME	DELIVERABLES	PAGE: 5 OF 16
Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>	Level 4 <input type="checkbox"/>	

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2 <i>Initial use "H5"</i>
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd.	
Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("ng)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST							
	Cannister ID	Sample Start	Sample End															
L101906-35	3837	-20.5	-5	GEW 149	10/5/2020	13:32	C	LFG	NA	X								4.5
-36	3835	-20.5	-5	GEW 67A	10/5/2020	13:44	C	LFG	NA	X								4.5
-37	5923	-20.3	-5	GEW 13A	10/5/2020	13:55	C	LFG	NA	X								5
-38	A7650	-20.8	-5	GEW 151	10/5/2020	14:05	C	LFG	NA	X								5
-39	3165	-19.9	-5	GEW 88	10/5/2020	14:15	C	LFG	NA	X								4.5
-40	A7799	-21	-5	GEW 86	10/5/2020	14:26	C	LFG	NA	X								4.5
-41	A7671	-20.4	-5	GEW 230	10/5/2020	14:37	C	LFG	NA	X								4.5
-42	A7815	-20.2	-5	GEW 90	10/5/2020	15:13	C	LFG	NA	X								5
-43	5323	-20.3	-5	GEW 239	10/5/2020	15:26	C	LFG	NA	X								5
-44	A7816	-20.5	-5	GEW 151 <i>مخبريات</i>	10/7/2020	8:33	C	LFG	NA	X								5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Enviromental Specialist **DATE/TIME:** 10/15/20 - 10/17/20

RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 10/16/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 10/19/20	RECEIVED BY: <i>[Signature]</i> DATE/TIME: 10/19/20 1045
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS:
percentages 10/19/20



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 16
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				Integral Vocs "H5"
	Cannister ID	Sample Start	Sample End												
L101906-45	A7749	-20.4	-5	GEW 238	10/7/2020	8:43	C	LFG	NA	X					S
-46	4645	-20.4	-5	GEW 113	10/7/2020	8:53	C	LFG	NA	X					S
-47	5839	-19.6	-5	GEW 232	10/7/2020	9:03	C	LFG	NA	X					S
-48	A8098	-20.1	-5	GEW 148	10/7/2020	9:13	C	LFG	NA	X					S
-49	A7794	-19.9	-5	GEW 87	10/7/2020	9:23	C	LFG	NA	X					S
-50	A7780	-19.9	-5	GEW 137	10/7/2020	9:51	C	LFG	NA	X					S
-51	A7751	-20.2	-5	GEW 229	10/7/2020	10:00	C	LFG	NA	X					S
-52	5917	-20.5	-5	GEW 228	10/7/2020	10:14	C	LFG	NA	X					S
-53	A7761	-20.1	-5	GEW 236	10/7/2020	10:28	C	LFG	NA	X					S
-54	A8099	-20.2	-5	GEW 147	10/7/2020	10:51	C	LFG	NA	X					S

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
SAMPLED BY: Andy Guthrie COMPANY: Hunt Environmental Specialist DATE/TIME: 10/7/2020
RELINQUISHED BY: *Andy Guthrie* DATE/TIME: 10/14/2020 **RECEIVED BY:** _____ DATE/TIME: _____
RELINQUISHED BY: *FedEx* DATE/TIME: 10/19/20 **RECEIVED BY:** *[Signature]* DATE/TIME: 10/17/20 10:15
RELINQUISHED BY: _____ DATE/TIME: _____ **RECEIVED BY:** _____ DATE/TIME: _____

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

COMMENTS

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

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



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: 7 OF 16
Standard	<input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day	<input type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours	<input type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other:	<u>5 Day</u>	Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

D1946 + CO, H2

initial vic "H2"

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
L101906-55	3440	-20.3	-5	GEW 16R	10/7/2020	11:02	C	LFG	NA	X					5
-56	A7759	-20.3	-5	GEW 227	10/7/2020	11:25	C	LFG	NA	X					5
-57	A7666	-20.3	-5	GEW 135	10/7/2020	11:37	C	LFG	NA	X					5.5
-58	N3699	-19.9	-5	GEW 233	10/7/2020	13:54	C	LFG	NA	X					6
-59	5272	-20	-5	GEW 134	10/7/2020	10:03	C	LFG	NA	X					6
-60	5307	-20.3	-5	GEW 18B	10/7/2020	14:12	C	LFG	NA	X					6
-61	N3681	-19.9	-5	GEW 133	10/7/2020	14:24	C	LFG	NA	X					6
-62	A7810	-19.8	-5	GEW 116	10/7/2020	14:35	C	LFG	NA	X					6
-63	A7662	-19.9	-5	GEW 78R	10/7/2020	14:52	C	LFG	NA	X					6
-64	3130	-20.2	-5	GEW 82R	10/7/2020	15:15	C	LFG	NA	X					6

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
COMPANY: Republic Services
SAMPLED BY: Andy Guthrie
COMPANY: Hunt Environmental Specialist
DATE/TIME: 10/17/2020
RELINQUISHED BY: *Andy Guthrie* 10/16/2020
RECEIVED BY: _____
RELINQUISHED BY: *FED EX* 10/19/20
RECEIVED BY: *JETI* 10/19/20
RELINQUISHED BY: _____
RECEIVED BY: _____

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

COMMENTS
 • 14.03 percent tag CD 10/20/20



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: 8 OF 16
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	D1946 + CO, H2	ANALYSIS REQUEST				initial via "HJ"
	Cannister ID	Sample Start	Sample End												
L101906-65	5822	-20.5	-5	GEW 117	10/8/2020	9:58	C	LFG	NA	X					5
-66	3131	-20.3	-5	GEW 120	10/8/2020	10:26	C	LFG	NA	X					5
-67	A7809	-50.5	-5	GEW 185	10/8/2020	10:36	C	LFG	NA	X					5
-68	3441	-20.3	-5	GEW 121	10/8/2020	10:47	C	LFG	NA	X					5
-69	6157	-20	-5	GEW 235	10/8/2020	10:59	C	LFG	NA	X					5.5
-70	A7663	-20.1	-5	GEW 163	10/8/2020	11:23	C	LFG	NA	X					5.5
-71	5825	-20.2	-5	GEW 123	10/8/2020	13:49	C	LFG	NA	X					6
-72	5324	-19.9	-5	GEW 164	10/8/2020	14:01	C	LFG	NA	X					6
-73	A7643	-20.4	-5	GEW 124	10/8/2020	14:14	C	LFG	NA	X					5.5
-74	4648	-20.2	-5	GEW 165	10/8/2020	14:37	C	LFG	NA	X					6

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 10/8/2020


RELINQUISHED BY: [Signature] **DATE/TIME:** 10/16/2020 **RECEIVED BY:** [Signature] **DATE/TIME:** 10/19/20

RELINQUISHED BY: [Signature] **DATE/TIME:** 10/19/20 **RECEIVED BY:** [Signature] **DATE/TIME:** 10/19/20

RELINQUISHED BY: _____ **DATE/TIME:** _____ **RECEIVED BY:** _____ **DATE/TIME:** _____


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

COMMENTS

 <p>18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																							
	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>				DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 9 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C																
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone & Fax: 314-683-3921 e-mail: MLambrich@republicservices.com				BILLING				ANALYSIS REQUEST																
				P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044				D1946 + CO, H2 Initial Note "H2"																
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION			SAMPLE DATE							SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION							
	Cannister ID	Sample Start	Sample End																					
	L101906-75	A7802	-20.3	-5	GEW 166	10/8/2020	14:51							C	LFG	NA	X							5.5
	-76	A8103	-20.3	-5	GEW 122	10/8/2020	15:04							C	LFG	NA	X							0
	-77	A7800	-20	-5	GEW 167	10/8/2020	15:25							C	LFG	NA	X							2.5
	-78	A7645	-20.4	-5	GEW 132	10/8/2020	15:40							C	LFG	NA	X							5.5
	-79	A7778	-20.5	-5	GEW 19A	10/9/2020	6:55							C	LFG	NA	X							4.5
	-80	5311	-20.4	-5	GEW 118	10/9/2020	7:05							C	LFG	NA	X							5
	-81	6144	-20.5	-5	GEW 139	10/9/2020	7:54							C	LFG	NA	X							5
	-82	A7773	-20.2	-5	GEW 226	10/9/2020	8:04	C	LFG	NA	X							5						
	-83	5274	-20.4	-5	GEW 140	10/9/2020	8:15	C	LFG	NA	X							5						
	-84	5904	-20.3	-5	GEW 240	10/9/2020	8:25	C	LFG	NA	X							5						

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services	
SAMPLED BY: Andy Guthrie	COMPANY: Hunt Environmental Specialist
RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 10/16/2020	RECEIVED BY: _____ DATE/TIME: 10/8/20 - 10/9/2020
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 10/19/20	RECEIVED BY: <i>Jeff</i> DATE/TIME: 10/19/20 1045
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____	


COMMENTS


	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832	CHAIN OF CUSTODY RECORD	
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"> TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u> </td> <td style="width:33%;"> DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> </td> <td style="width:33%;"> PAGE: 10 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C </td> </tr> </table>	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>	DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>
TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>	DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>	PAGE: 10 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C	

Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton , MO 63044 Phone& Fax: 314-683-3921 e-mail: MikeLambrich@republicservices.com	BILLING P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044	ANALYSIS REQUEST <div style="text-align: right; font-style: italic;"> initial Lab visit 11/15 </div>
--	---	--

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
L101906-85	5835	-20.4	-5	GEW 174	10/9/2020	8:50	C	LFG	NA	X					S
-86	A7779	-20.2	-5	GEW 131	10/9/2020	9:04	C	LFG	NA	X					S
-87	5920	-20.4	-5	GEW 125	10/9/2020	9:13	C	LFG	NA	X					S
-88	A7804	-20.4	-5	GEW 168	10/9/2020	9:21	C	LFG	NA	X					S
-89	5271	-20	-5	GEW 126	10/9/2020	9:30	C	LFG	NA	X					S
-90	N3695	-20.6	-5	GEW 130	10/9/2020	9:51	C	LFG	NA	X					S
-91	A8063	-20.4	-5	GEW 170	10/9/2020	10:00	C	LFG	NA	X					S
-92	A7767	-20.3	-5	GEW 186	10/9/2020	10:10	C	LFG	NA	X					S
-93	6146	-20.2	-5	GEW 127	10/9/2020	10:20	C	LFG	NA	X					S-S
-94	A8067	-20.2	-5	GEW 169	10/9/2020	10:32	C	LFG	NA	X					S-S


AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Andy Guthrie COMPANY: Hunt Enviromental Specialist DATE/TIME: 10/9/2020	COMMENTS
RELINQUISHED BY: <u>Andy Guthrie</u> DATE/TIME: 10/16/2020 RECEIVED BY: _____ DATE/TIME: _____	
RELINQUISHED BY: <u>Andy Guthrie</u> DATE/TIME: 10/19/2020 RECEIVED BY: <u>[Signature]</u> DATE/TIME: 10/19/2020 1045	
RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____	
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____	

 <p>18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																								
	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>				DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 11 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C																	
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone & Fax: 314-683-3921 e-mail: MLambrich@republicservices.com				BILLING				ANALYSIS REQUEST																	
				P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044				D1946 + CO, H2 initial lab vac "H"																	
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION			SAMPLE DATE							SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2							
	Cannister ID	Sample Start	Sample End																						
	L101906 - 95	A7667	-20	-5	GEW 129									10/9/2020	10:46	C	LFG	NA	X						5.5
	- 96	3157	-20.2	-5	GEW 177									10/9/2020	10:56	C	LFG	NA	X						5.5
	- 97	A7776	19.8	-5	GEW 224									10/9/2020	13:55	C	LFG	NA	X						6
	- 98	A8085	-20.1	-5	GEW 225									10/9/2020	14:05	C	LFG	NA	X						6
	- 99	5936	-20.1	-5	GEW 172									10/9/2020	14:14	C	LFG	NA	X						6
	- 100	5305	-20.1	-5	GEW 223									10/9/2020	14:24	C	LFG	NA	X						6
	- 101	A7764	-20	-5	GEW 171									10/9/2020	14:34	C	LFG	NA	X						6
	- 102	A7640	-19.9	-5	GEW 100			10/9/2020	14:45	C	LFG	NA	X						6						
	- 103	3439	-20.2	-5	GEW 181			10/9/2020	15:10	C	LFG	NA	X						6						
	- 104	3826	-19.9	-5	GEW 101			10/9/2020	15:25	C	LFG	NA	X						6						
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Andy Guthrie COMPANY: Hunt Enviromental Specialist DATE/TIME: 10/9/2020										COMMENTS * CAN HD 7640 gpd with 120 ppb + organic															
RELINQUISHED BY: <u>Andy Guthrie</u> DATE/TIME: 10/11/2020					RECEIVED BY: _____ DATE/TIME: _____																				
RELINQUISHED BY: <u>FEL EX</u> DATE/TIME: 10/12/20					RECEIVED BY: <u>[Signature]</u> DATE/TIME: 10/19/20 1245																				
RELINQUISHED BY: _____ DATE/TIME: _____					RECEIVED BY: _____ DATE/TIME: _____																				
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____																									

				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 <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>				DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 12 OF 16 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C						
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone & Fax: 314-683-3921 e-mail: MLambrich@republicservices.com				BILLING				ANALYSIS REQUEST									
				P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044				D1946 + CO, H2 Initial Lab Use "H2"									
LAB USE ONLY		Cannister Pressure ("hg)		SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
Cannister ID	Sample Start	Sample End	SAMPLE DATE									SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION		
L101906-105		A7744	-18.8	-5	GEW 234	10/12/2020	7:41	C	LFG	NA	X				6		
-106		5320	-19.8	-5	GEW 180	10/12/2020	7:56	C	LFG	NA	X				5.5		
-107		A7807	-19.9	-5	GEW 144	10/12/2020	8:07	C	LFG	NA	X				5.5		
-108		6156	-19.6	-5	GEW 222	10/12/2020	8:18	C	LFG	NA	X				5.5		
-109		6133	-19.8	-5	GEW 68A	10/12/2020	8:28	C	LFG	NA	X				6		
-110		A7792	-19.7	-5	GEW 221	10/12/2020	8:43	C	LFG	NA	X				5.5		
-111		A7660	-19.8	-5	GEW 220	10/12/2020	9:00	C	LFG	NA	X				5.5		
-112		3833	-19.9	-5	GEW 218	10/12/2020	9:20	C	LFG	NA	X				5.5		
-113		5926	-19.7	-5	GEW 156	10/12/2020	9:32	C	LFG	NA	X				5.5		
-114		A8054	-19.9	-5	GIW 1	10/12/2020	10:29	C	LFG	NA	X				5		
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Andy Guthrie COMPANY: Hunt Environmental Specialist DATE/TIME: 10/12/2020						COMMENTS 											
RELINQUISHED BY: <u>Andy Guthrie</u> DATE/TIME: 10/12/2020			RECEIVED BY: _____ DATE/TIME: _____														
RELINQUISHED BY: <u>FedEx</u> DATE/TIME: 10/19/20			RECEIVED BY: <u>Jay</u> DATE/TIME: 10/19/20														
RELINQUISHED BY: _____ DATE/TIME: _____			RECEIVED BY: _____ DATE/TIME: _____														
METHOD OF TRANSPORT (circle one): Walk-In <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> ATLI <input type="checkbox"/> 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

 <p style="text-align: right;">18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																		
	<p>Project No.: _____</p> <p>Project Name: Bridgeton Landfill</p> <p>Report To: Mike Lambrich</p> <p>Company: Republic Services</p> <p>Street: 13570 St. Charles Rock Rd.</p> <p>City/State/Zip: Bridgeton , MO 63044</p> <p>Phone& Fax: 314-683-3921</p> <p>e-mail: MLambrich@republicservices.com</p>	TURNAROUND TIME	DELIVERABLES	PAGE: 13 OF 16															
<p>Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/></p> <p>Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/></p> <p>24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/></p> <p>Other: <u>5 Day</u></p>	<p>EDD <input checked="" type="checkbox"/></p> <p>EDF <input type="checkbox"/></p> <p>Level 3 <input type="checkbox"/></p> <p>Level 4 <input type="checkbox"/></p>	<p>Condition upon receipt:</p> <p>Sealed Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Intact Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Chilled _____ deg C</p>																	
BILLING												ANALYSIS REQUEST							
<p>P.O. No.: PO7112802</p> <p>Bill to: Republic Services</p> <p style="padding-left: 40px;">Attn: Mike Lambrich</p> <p>13570 St. Charles Rock Rd.</p> <p>Bridgeton, MO 63044</p>												<p style="text-align: center;">D1946 + CO, H2</p>				<p style="text-align: center; color: blue;">initial lab use "H2"</p>			
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2									
	Cannister ID	Sample Start	Sample End																
L101906-115	6162	-20.3	-5	GIW 2	10/12/2020	13:34	C	LFG	NA	X						5			
-116	5901	-20.2	-5	GIW 3	10/12/2020	13:45	C	LFG	NA	X						5			
-117	A7755	-20	-5	GIW 4	10/12/2020	13:55	C	LFG	NA	X						5			
-118	3838	-20.3	-5	GIW 5	10/12/2020	14:06	C	LFG	NA	X						5.5			
-119	5837	-20.1	-5	GIW 6	10/12/2020	14:22	C	LFG	NA	X						5			
-120	A7669	-19.8	-5	GIW 7	10/12/2020	14:36	C	LFG	NA	X						5			
-121	3436	-19.9	-5	GIW 8	10/12/2020	14:45	C	LFG	NA	X						5			
-122	A8079	-19.9	-5	GIW 9	10/12/2020	15:01	C	LFG	NA	X						5			
-123	A7770	-19.9	-5	GIW 10	10/12/2020	15:14	C	LFG	NA	X						5			
-124	3435	-20	-5	GIW 11	10/12/2020	15:24	C	LFG	NA	X						5			

<p>AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services</p> <p>SAMPLED BY: Andy Guthrie COMPANY: Hunt Enviromental Specialist DATE/TIME: 10/12/2020</p> <p>RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 10/16/2020 RECEIVED BY: _____ DATE/TIME: _____</p> <p>RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 10/17/20 RECEIVED BY: <i>Andy Guthrie</i> DATE/TIME: 10/19/20 1045</p> <p>RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____</p> <p>METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____</p>	<p>COMMENTS</p>
--	------------------------

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



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: 14 OF 16
Standard	<input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day	<input type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours	<input type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other:	<u>5 Day</u>	Level 4 <input type="checkbox"/>	

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

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


ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("ng)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				Initial Lab use "125"
	Cannister ID	Sample Start	Sample End												
L101906-125	A8055	-20.3	-5	GIW 12	10/13/2020	13:46	C	LFG	NA	X					5.5
-126	A8056	-20.6	-5	GIW 13	10/13/2020	13:55	C	LFG	NA	X					5
-127	5934	-20.5	-5	GEW 110	10/13/2020	14:04	C	LFG	NA	X					5
-128	3164	-20.4	-5	GEW 10	10/13/2020	14:14	C	LFG	NA	X					5
-129	5915	-20	-5	GEW 56 ^R	10/13/2020	14:22	C	LFG	NA	X					5
-130	5902	-20.2	-5	GEW 39	10/13/2020	14:33	C	LFG	NA	X					5.5
-131	5905	-20	-5	GEW 109	10/13/2020	14:43	C	LFG	NA	X					6
-132	5316	-20.3	-5	GEW 108	10/14/2020	9:07	C	LFG	NA	X					5
-133	4644	-20.5	-5	GEW 187	10/14/2020	9:16	C	LFG	NA	X					5
-134	A7808	-20.2	-5	GEW 162	10/14/2020	9:49	C	LFG	NA	X					5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
 SAMPLED BY: Andy Guthrie COMPANY: Hunt Environmental Specialist DATE/TIME: 10/13/20
 RELINQUISHED BY: [Signature] DATE/TIME: 10/16/2020 RECEIVED BY: [Signature] DATE/TIME: 10/14/2020
 RELINQUISHED BY: [Signature] DATE/TIME: 10/19/20 RECEIVED BY: [Signature] DATE/TIME: 10/19/20 1045
 RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____


COMMENTS
 • per can tag 90 10/13/20

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

 <p style="text-align: right;">18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD		
	TURNAROUND TIME	DELIVERABLES	PAGE: 15 OF 16
Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: 5 Day	EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C	
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone & Fax: 314-683-3921 e-mail: MLambrich@republicservices.com		BILLING P.O. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044	
		ANALYSIS REQUEST	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST							
	Cannister ID	Sample Start	Sample End															
L101906-135	3126	-20	-5	GEW 161	10/14/2020	10:01	C	LFG	NA	X								
-136	5903	-20.5	-5	GEW 160	10/14/2020	10:12	C	LFG	NA	X								
-137	3162	-20.1	-5	GEW 91	10/14/2020	10:22	C	LFG	NA	X								
-138	O1400	-19.8	-5	GEW 47R	10/14/2020	14:31	C	LFG	NA	X								
-139	O1404	-19.6	-5	GEW 2	10/14/2020	14:48	C	LFG	NA	X								
-140	O1424	-20.3	-5	GEW 3	10/14/2020	15:00	C	LFG	NA	X								
-141	O1405	-19.9	-5	GEW 4	10/14/2020	15:12	C	LFG	NA	X								
-142	O1409	-19.9	-5	GEW 5	10/14/2020	15:24	C	LFG	NA	X								
-143	O1401	-19.9	-5	GEW 48	10/14/2020	15:37	C	LFG	NA	X								
-144	O1399	-20	-5	GEW 6	10/14/2020	15:48	C	LFG	NA	X								

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services		COMMENTS
SAMPLED BY: Andy Guthrie COMPANY: Hunt Environmental Specialist DATE/TIME: 10/14/2020		
RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 10/16/2020	RECEIVED BY: _____ DATE/TIME: _____	
RELINQUISHED BY: <i>Felix Bc</i> DATE/TIME: 10/19/20	RECEIVED BY: <i>S-19</i> DATE/TIME: 10/19/20	
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: <i>J</i> DATE/TIME: _____	
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____		

	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832				CHAIN OF CUSTODY RECORD							
	Project No.:				TURNAROUND TIME			DELIVERABLES		PAGE: 16 OF 16		
Project Name:				Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt:					
Report To:				Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	Sealed Yes <input type="checkbox"/> No <input type="checkbox"/>					
Company:				24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	Intact Yes <input type="checkbox"/> No <input type="checkbox"/>					
Street:				Other: 5 Day			Level 4 <input type="checkbox"/>	Chilled _____ deg C				
City/State/Zip:				BILLING				ANALYSIS REQUEST				
Phone & Fax:				P.O. No.: PO7112802				D1946 + CO, H2 <i>Initial Lab use 10/15</i>				
e-mail:				Bill to: Republic Services								
13570 St. Charles Rock Rd.				Attn: Mike Lambrich								
				13570 St. Charles Rock Rd.								
Bridgeton, MO 63044				Bridgeton, MO 63044								

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
L101906-145	O1402	-20.3	-5	GEW 49	10/14/2020	16:02	C	LFG	NA	X						SS
↓ -146	O1411	-19.4	-5	GEW 45R	10/14/2020	16:16	C	LFG	NA	X						SS
↓ -147	O1406	-19.9	-5	GEW 46R	10/14/2020	16:28	C	LFG	NA	X						SS

AUTHORIZATION TO PERFORM WORK: Dave Penoyer		COMPANY: Republic Services		COMMENTS
SAMPLED BY: Andy Guthrie		COMPANY: Hunt Environmental Specialist		
		DATE/TIME 10/14/2020		
RELINQUISHED BY: <i>Andy Guthrie</i>	DATE/TIME 10/16/2020	RECEIVED BY:	DATE/TIME	
RELINQUISHED BY: <i>FEN</i>	DATE/TIME 10/17/20	RECEIVED BY: <i>FEN</i>	DATE/TIME 10/17/20	
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____				

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy
 Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-01	L101906-02	L101906-03	L101906-04				
Client Sample I.D.:	GEW 153	GEW 59R	GEW 107	GEW 152				
Date/Time Sampled:	10/9/20 7:52	10/9/20 8:00	10/9/20 8:10	10/9/20 8:19				
Date/Time Analyzed:	10/21/20 11:10	10/21/20 11:24	10/21/20 11:39	10/21/20 11:53				
QC Batch No.:	201021GC8A1	201021GC8A1	201021GC8A1	201021GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.4	3.1	3.1	3.1				
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	2.7 d	0.024	27	3.1	9.0	3.1	14	3.1
Carbon Dioxide	30	0.024	39	0.031	49	0.031	44	0.031
Oxygen/Argon	5.1	1.2	ND	1.5	ND	1.5	ND	1.5
Nitrogen	29	2.4	8.9	3.1	ND	3.1	ND	3.1
Methane	32	0.0024	24	0.0031	39	0.0031	38	0.0031
Carbon Monoxide	ND	0.0024	0.040	0.0031	0.021	0.0031	0.034	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-05	L101906-06	L101906-07	L101906-08				
Client Sample I.D.:	GEW 58A	GEW 106	GEW 158	GEW 105				
Date/Time Sampled:	10/9/20 8:29	10/9/20 8:44	10/9/20 8:54	10/9/20 9:03				
Date/Time Analyzed:	10/21/20 12:08	10/21/20 12:22	10/21/20 12:54	10/21/20 13:09				
QC Batch No.:	201021GC8A1	201021GC8A1	201021GC8A1	201021GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	3.2	3.2				
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	24	3.1	22	3.1	14	3.2	12	3.2
Carbon Dioxide	33	0.031	41	0.031	46	0.032	43	0.032
Oxygen/Argon	2.8	1.5	4.4	1.5	ND	1.6	ND	1.6
Nitrogen	32	3.1	19	3.1	8.2	3.2	4.3	3.2
Methane	7.3	0.0031	13	0.0031	31	0.0032	40	0.0032
Carbon Monoxide	0.051	0.0031	0.037	0.0031	0.028	0.0032	0.021	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-09	L101906-10	L101906-11	L101906-12
Client Sample I.D.:	GEW 237	GEW 175	GEW 150	GEW 104
Date/Time Sampled:	10/9/20 9:13	10/9/20 13:25	10/9/20 13:35	10/9/20 13:44
Date/Time Analyzed:	10/21/20 13:23	10/21/20 13:37	10/21/20 13:52	10/21/20 14:06
QC Batch No.:	201021GC8A1	201021GC8A1	201021GC8A1	201021GC8A1
Analyst Initials:	CM	CM	CM	CM
Dilution Factor:	3.2	3.2	3.2	3.2


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	2.1 d	0.032	1.8 d	0.032	15	3.2	39	3.2
Carbon Dioxide	45	0.032	39	0.032	47	0.032	54	0.032
Oxygen/Argon	1.6	1.6	2.9	1.6	ND	1.6	ND	1.6
Nitrogen	13	3.2	27	3.2	5.5	3.2	ND	3.2
Methane	37	0.0032	30	0.0032	32	0.0032	1.9	0.0032
Carbon Monoxide	0.0069	0.0032	0.0072	0.0032	0.028	0.0032	0.046	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By:  _____
Mark Johnson
Operations Manager

Date 10/28/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-13	L101906-14	L101906-15	L101906-16				
Client Sample I.D.:	GEW 157	GEW 57B	GEW 217	GEW 178				
Date/Time Sampled:	10/9/20 13:54	10/9/20 14:03	10/9/20 14:13	10/9/20 14:24				
Date/Time Analyzed:	10/21/20 14:23	10/21/20 14:37	10/21/20 14:52	10/21/20 15:06				
QC Batch No.:	201021GC8A1	201021GC8A1	201021GC8A1	201021GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.3	3.3	3.3				
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	36	3.3	41	3.3	29	3.3	ND d	0.033
Carbon Dioxide	45	0.033	52	0.033	50	0.033	35	0.033
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	4.0	1.6
Nitrogen	ND	3.3	ND	3.3	3.6	3.3	27	3.3
Methane	15	0.0033	1.5	0.0033	14	0.0033	33	0.0033
Carbon Monoxide	0.051	0.0033	0.050	0.0033	0.041	0.0033	ND	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-17	L101906-18	L101906-19	L101906-20				
Client Sample I.D.:	GEW 179	GEW 102	GEW 145	GEW 50				
Date/Time Sampled:	10/9/20 14:39	10/9/20 14:49	10/9/20 14:58	10/12/20 8:41				
Date/Time Analyzed:	10/21/20 15:21	10/21/20 15:35	10/21/20 15:50	10/21/20 16:04				
QC Batch No.:	201021GC8A1	201021GC8A1	201021GC8A1	201021GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.3	3.3	3.2				
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	ND d	0.033	17	3.3	18	3.3	ND d	0.032
Carbon Dioxide	39	0.033	43	0.033	45	0.033	40	0.032
Oxygen/Argon	ND	1.6	2.1	1.6	ND	1.6	ND	1.6
Nitrogen	24	3.3	7.5	3.3	ND	3.3	6.3	3.2
Methane	36	0.0033	29	0.0033	34	0.0033	53	0.0032
Carbon Monoxide	ND	0.0033	0.0066	0.0033	0.013	0.0033	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-21	L101906-22	L101906-23	L101906-24				
Client Sample I.D.:	GEW 52	GEW 7	GEW 8	GEW 9				
Date/Time Sampled:	10/12/20 8:51	10/12/20 9:04	10/12/20 9:15	10/12/20 9:28				
Date/Time Analyzed:	10/21/20 18:04	10/21/20 18:19	10/21/20 18:33	10/21/20 18:48				
QC Batch No.:	201021GC8A2	201021GC8A2	201021GC8A2	201021GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	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	ND d	0.032	ND d	0.032	1.2 d	0.032	0.52 d	0.032
Carbon Dioxide	41	0.032	41	0.032	44	0.032	43	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	5.5	3.2	3.7	3.2	ND	3.2	6.4	3.2
Methane	52	0.0032	54	0.0032	51	0.0032	50	0.0032
Carbon Monoxide	ND	0.0032	ND	0.0032	ND	0.0032	ND	0.0032


Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

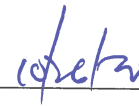
RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date _____



The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-25	L101906-26	L101906-27	L101906-28				
Client Sample I.D.:	GEW 51	GEW 53	GEW 54	GEW 55				
Date/Time Sampled:	10/12/20 9:47	10/12/20 10:02	10/12/20 10:13	10/12/20 10:26				
Date/Time Analyzed:	10/21/20 19:02	10/21/20 19:17	10/21/20 19:31	10/21/20 19:46				
QC Batch No.:	201021GC8A2	201021GC8A2	201021GC8A2	201021GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
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	0.91 d	0.032	3.5 d	0.032	1.6 d	0.032	1.2 d	0.032
Carbon Dioxide	42	0.032	43	0.032	44	0.032	44	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	3.2	3.2	3.7	3.2	ND	3.2	ND	3.2
Methane	53	0.0032	49	0.0032	51	0.0032	51	0.0032
Carbon Monoxide	ND	0.0032	0.0062	0.0032	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1, 201025GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L101906-29	L101906-30	L101906-31	L101906-32				
Client Sample I.D.:	GEW 2S	GEW 40	GEW 41R	GEW 42R				
Date/Time Sampled:	10/12/20 14:04	10/12/20 14:19	10/12/20 14:29	10/12/20 14:41				
Date/Time Analyzed:	10/21/20 20:00	10/21/20 20:15	10/21/20 20:29	10/21/20 20:44				
QC Batch No.:	201021GC8A2	201021GC8A2	201021GC8A2	201021GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
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	ND d	0.032	ND d	0.032	ND d	0.032	ND d	0.032
Carbon Dioxide	37	0.032	34	0.032	36	0.032	39	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	3.7	3.2	10	3.2	12	3.2	7.2	3.2
Methane	58	0.0032	55	0.0032	51	0.0032	53	0.0032
Carbon Monoxide	ND	0.0032	ND	0.0032	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L101906-33	L101906-34	L101906-35	L101906-36				
Client Sample I.D.:	GEW 43R	GEW 44	GEW 149	GEW 67A				
Date/Time Sampled:	10/12/20 14:55	10/12/20 15:06	10/5/20 13:32	10/5/20 13:44				
Date/Time Analyzed:	10/21/20 20:58	10/21/20 21:13	10/21/20 21:27	10/21/20 21:42				
QC Batch No.:	201021GC8A2	201021GC8A2	201021GC8A2	201021GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.1	3.1				
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	0.11 d	0.032	ND d	0.032	0.47 d	0.031	0.48 d	0.031
Carbon Dioxide	42	0.032	38	0.032	21	0.031	1.1	0.031
Oxygen/Argon	ND	1.6	ND	1.6	2.5	1.5	21	1.5
Nitrogen	3.2	3.2	14	3.2	67	3.1	77	3.1
Methane	54	0.0032	47	0.0032	8.3	0.0031	0.24	0.0031
Carbon Monoxide	ND	0.0032	ND	0.0032	ND	0.0031	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A1, 201025GC8A2, 201025GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-37	L101906-38	L101906-39	L101906-40				
Client Sample I.D.:	GEW 13A	GEW 151	GEW 88	GEW 86				
Date/Time Sampled:	10/5/20 13:55	10/5/20 14:05	10/5/20 14:15	10/5/20 14:26				
Date/Time Analyzed:	10/21/20 21:57	10/21/20 22:11	10/21/20 22:26	10/21/20 22:40				
QC Batch No.:	201021GC8A2	201021GC8A2	201021GC8A2	201021GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.1	3.1				
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	ND d	0.032	24	3.2	8.1	3.1	ND d	0.031
Carbon Dioxide	0.11	0.032	34	0.032	7.3	0.031	0.087	0.031
Oxygen/Argon	22	1.6	4.8	1.6	18	1.5	22	1.5
Nitrogen	78	3.2	30	3.2	66	3.1	78	3.1
Methane	0.010	0.0032	7.7	0.0032	0.27	0.0031	ND	0.0031
Carbon Monoxide	ND	0.0032	0.042	0.0032	0.015	0.0031	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 10/20/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-41	L101906-42	L101906-43	L101906-44				
Client Sample I.D.:	GEW 230	GEW 90	GEW 239	GEW 15				
Date/Time Sampled:	10/5/20 14:37	10/5/20 15:13	10/5/20 15:26	10/7/20 8:33				
Date/Time Analyzed:	10/22/20 9:47	10/22/20 10:02	10/22/20 10:16	10/22/20 10:31				
QC Batch No.:	201021GC8A3	201021GC8A3	201021GC8A3	201021GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.2	3.2	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	12	3.1	4.3 d	0.032	7.9	3.2	19	3.2
Carbon Dioxide	25	0.031	11	0.032	7.2	0.032	47	0.032
Oxygen/Argon	7.9	1.5	16	1.6	19	1.6	ND	1.6
Nitrogen	47	3.1	61	3.2	66	3.2	6.7	3.2
Methane	7.5	0.0031	7.1	0.0032	0.25	0.0032	26	0.0032
Carbon Monoxide	0.020	0.0031	0.0071	0.0032	0.013	0.0032	0.037	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-45	L101906-46	L101906-47	L101906-48				
Client Sample I.D.:	GEW 238	GEW 113	GEW 232	GEW 148				
Date/Time Sampled:	10/7/20 8:43	10/7/20 8:53	10/7/20 9:03	10/7/20 9:13				
Date/Time Analyzed:	10/22/20 10:45	10/22/20 11:00	10/22/20 11:14	10/22/20 11:29				
QC Batch No.:	201021GC8A3	201021GC8A3	201021GC8A3	201021GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	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	18	3.2	21	3.2	3.4 d	0.032	28	3.2
Carbon Dioxide	59	0.032	57	0.032	53	0.032	52	0.032
Oxygen/Argon	ND	1.6	ND	1.6	2.1	1.6	ND	1.6
Nitrogen	6.9	3.2	8.1	3.2	13	3.2	ND	3.2
Methane	15	0.0032	12	0.0032	28	0.0032	16	0.0032
Carbon Monoxide	0.040	0.0032	0.053	0.0032	0.012	0.0032	0.098	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

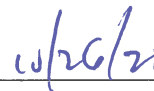
RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-49	L101906-50	L101906-51	L101906-52				
Client Sample I.D.:	GEW 87	GEW 137	GEW 229	GEW 228				
Date/Time Sampled:	10/7/20 9:23	10/7/20 9:51	10/7/20 10:00	10/7/20 10:14				
Date/Time Analyzed:	10/22/20 11:43	10/22/20 11:58	10/22/20 12:12	10/22/20 12:27				
QC Batch No.:	201021GC8A3	201021GC8A3	201021GC8A3	201021GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.2	3.2	3.2				
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	27	3.3	ND d	0.032	2.7 d	0.032	13	3.2
Carbon Dioxide	63	0.033	42	0.032	23	0.032	23	0.032
Oxygen/Argon	ND	1.6	ND	1.6	2.4	1.6	6.7	1.6
Nitrogen	ND	3.3	18	3.2	69	3.2	54	3.2
Methane	4.7	0.0033	39	0.0032	2.7	0.0032	3.2	0.0032
Carbon Monoxide	0.065	0.0033	ND	0.0032	0.0087	0.0032	0.016	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-53	L101906-54	L101906-55	L101906-56				
Client Sample I.D.:	GEW 236	GEW 147	GEW 16R	GEW 227				
Date/Time Sampled:	10/7/20 10:28	10/7/20 10:51	10/7/20 11:02	10/7/20 11:25				
Date/Time Analyzed:	10/22/20 12:41	10/22/20 12:56	10/22/20 13:10	10/22/20 13:25				
QC Batch No.:	201021GC8A3	201021GC8A3	201021GC8A3	201021GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	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	40	3.2	16	3.2	22	3.2	18	3.2
Carbon Dioxide	38	0.032	42	0.032	48	0.032	32	0.032
Oxygen/Argon	3.2	1.6	2.1	1.6	ND	1.6	4.7	1.6
Nitrogen	14	3.2	23	3.2	19	3.2	39	3.2
Methane	2.1	0.0032	16	0.0032	9.4	0.0032	6.4	0.0032
Carbon Monoxide	0.027	0.0032	0.036	0.0032	0.058	0.0032	0.031	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-61	L101906-62	L101906-63	L101906-64				
Client Sample I.D.:	GEW 133	GEW 116	GEW 78R	GEW 82R				
Date/Time Sampled:	10/7/20 14:24	10/7/20 14:35	10/7/20 14:52	10/7/20 15:15				
Date/Time Analyzed:	10/22/20 16:12	10/22/20 16:26	10/22/20 16:41	10/22/20 16:55				
QC Batch No.:	201022GC8A1	201022GC8A1	201022GC8A1	201022GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.4	3.4	3.4	3.4				
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	15	3.4	2.0 d	0.034	15	3.4	18	3.4
Carbon Dioxide	40	0.034	53	0.034	37	0.034	33	0.034
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7	ND	1.7
Nitrogen	39	3.4	16	3.4	23	3.4	38	3.4
Methane	4.3	0.0034	27	0.0034	23	0.0034	8.7	0.0034
Carbon Monoxide	0.062	0.0034	0.014	0.0034	0.043	0.0034	0.045	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-65	L101906-66	L101906-67	L101906-68				
Client Sample I.D.:	GEW 117	GEW 120	GEW 185	GEW 121				
Date/Time Sampled:	10/8/20 9:58	10/8/20 10:26	10/8/20 10:36	10/8/20 10:47				
Date/Time Analyzed:	10/22/20 17:10	10/22/20 17:24	10/22/20 17:38	10/22/20 17:53				
QC Batch No.:	201022GC8A1	201022GC8A1	201022GC8A1	201022GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
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	1.4 d	0.032	0.083 d	0.032	ND d	0.032	3.7 d	0.032
Carbon Dioxide	50	0.032	44	0.032	55	0.032	51	0.032
Oxygen/Argon	ND	1.6	1.9	1.6	ND	1.6	ND	1.6
Nitrogen	15	3.2	20	3.2	3.3	3.2	9.4	3.2
Methane	32	0.0032	34	0.0032	41	0.0032	35	0.0032
Carbon Monoxide	0.011	0.0032	ND	0.0032	ND	0.0032	0.013	0.0032

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-69	L101906-70	L101906-71	L101906-72				
Client Sample I.D.:	GEW 235	GEW 163	GEW 123	GEW 164				
Date/Time Sampled:	10/8/20 10:59	10/8/20 11:23	10/8/20 13:49	10/8/20 14:01				
Date/Time Analyzed:	10/22/20 18:08	10/22/20 18:22	10/22/20 18:36	10/22/20 18:51				
QC Batch No.:	201022GC8A1	201022GC8A1	201022GC8A1	201022GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.3	3.4	3.4				
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	11	3.3	0.95 d	0.033	0.78 d	0.034	ND d	0.034
Carbon Dioxide	51	0.033	44	0.033	63	0.034	49	0.034
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.7	ND	1.7
Nitrogen	8.9	3.3	27	3.3	4.2	3.4	15	3.4
Methane	28	0.0033	26	0.0033	31	0.0034	35	0.0034
Carbon Monoxide	0.021	0.0033	0.0042	0.0033	0.012	0.0034	ND	0.0034

Results normalized including non-methane hydrocarbons

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d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-73	L101906-74	L101906-75	L101906-76				
Client Sample I.D.:	GEW 124	GEW 165	GEW 166	GEW 122				
Date/Time Sampled:	10/8/20 14:14	10/8/20 14:37	10/8/20 14:51	10/8/20 15:04				
Date/Time Analyzed:	10/22/20 19:05	10/22/20 19:20	10/22/20 19:34	10/22/20 19:49				
QC Batch No.:	201022GC8A1	201022GC8A1	201022GC8A1	201022GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.4	3.3	2.4				
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	ND d	0.033	7.1	3.4	37	3.3	5.9	2.4
Carbon Dioxide	32	0.033	43	0.034	57	0.033	27	0.024
Oxygen/Argon	6.4	1.6	4.6	1.7	ND	1.6	6.5	1.2
Nitrogen	23	3.3	25	3.4	ND	3.3	30	2.4
Methane	38	0.0033	20	0.0034	2.0	0.0033	30	0.0024
Carbon Monoxide	ND	0.0033	0.021	0.0034	0.21	0.0033	0.017	0.0024

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report




Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-81	L101906-82	L101906-83	L101906-84				
Client Sample I.D.:	GEW 139	GEW 226	GEW 140	GEW 240				
Date/Time Sampled:	10/9/20 7:54	10/9/20 8:04	10/9/20 8:15	10/9/20 8:25				
Date/Time Analyzed:	10/23/20 9:28	10/23/20 9:42	10/23/20 9:57	10/23/20 10:11				
QC Batch No.:	201023GC8A1	201023GC8A1	201023GC8A1	201023GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
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	26	3.2	15	3.2	32	3.2	16	3.2
Carbon Dioxide	40	0.032	41	0.032	49	0.032	33	0.032
Oxygen/Argon	4.2	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	16	3.2	8.4	3.2	3.2	3.2	42	3.2
Methane	14	0.0032	33	0.0032	15	0.0032	6.9	0.0032
Carbon Monoxide	0.095	0.0032	0.053	0.0032	0.10	0.0032	0.031	0.0032

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-85	L101906-86	L101906-87	L101906-88				
Client Sample I.D.:	GEW 174	GEW 131	GEW 125	GEW 168				
Date/Time Sampled:	10/9/20 8:50	10/9/20 9:04	10/9/20 9:13	10/9/20 9:21				
Date/Time Analyzed:	10/23/20 10:26	10/23/20 10:40	10/23/20 10:55	10/23/20 11:09				
QC Batch No.:	201023GC8A1	201023GC8A1	201023GC8A1	201023GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
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	15	3.2	11	3.2	ND d	0.032	2.4 d	0.032
Carbon Dioxide	38	0.032	43	0.032	50	0.032	51	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	31	3.2	4.0	3.2	8.0	3.2	4.6	3.2
Methane	15	0.0032	41	0.0032	41	0.0032	40	0.0032
Carbon Monoxide	0.034	0.0032	0.039	0.0032	ND	0.0032	0.0052	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A2

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 10/20/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-97	L101906-98	L101906-99	L101906-100				
Client Sample I.D.:	GEW 224	GEW 225	GEW 172	GEW 223				
Date/Time Sampled:	10/9/20 13:55	10/9/20 14:05	10/9/20 14:14	10/9/20 14:24				
Date/Time Analyzed:	10/23/20 14:17	10/23/20 14:31	10/23/20 16:41	10/23/20 16:56				
QC Batch No.:	201023GC8A1	201023GC8A1	201023GC8A2	201023GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.4	3.4	3.4	3.4				
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	3.3 d	0.034	23	3.4	18	3.4	0.55 d	0.034
Carbon Dioxide	58	0.034	49	0.034	44	0.034	64	0.034
Oxygen/Argon	ND	1.7	ND	1.7	2.8	1.7	ND	1.7
Nitrogen	4.4	3.4	5.6	3.4	10.0	3.4	ND	3.4
Methane	34	0.0034	21	0.0034	25	0.0034	32	0.0034
Carbon Monoxide	0.029	0.0034	0.11	0.0034	0.056	0.0034	0.014	0.0034


Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

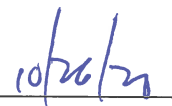
RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-101	L101906-102	L101906-103	L101906-104				
Client Sample I.D.:	GEW 171	GEW 100	GEW 181	GEW 101				
Date/Time Sampled:	10/9/20 14:34	10/9/20 14:45	10/9/20 15:10	10/9/20 15:25				
Date/Time Analyzed:	10/23/20 17:32	10/23/20 17:46	10/23/20 18:01	10/23/20 18:15				
QC Batch No.:	201023GC8A2	201023GC8A2	201023GC8A2	201023GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.4	3.4	3.4	3.4				
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	5.1 d	0.034	17	3.4	ND d	0.034	ND d	0.034
Carbon Dioxide	56	0.034	60	0.034	63	0.034	58	0.034
Oxygen/Argon	3.3	1.7	ND	1.7	ND	1.7	1.9	1.7
Nitrogen	13	3.4	4.4	3.4	9.5	3.4	10	3.4
Methane	22	0.0034	17	0.0034	26	0.0034	30	0.0034
Carbon Monoxide	0.023	0.0034	0.028	0.0034	ND	0.0034	ND	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946


Lab No.:	L101906-105	L101906-106	L101906-107	L101906-108				
Client Sample I.D.:	GEW 234	GEW 180	GEW 144	GEW 222				
Date/Time Sampled:	10/12/20 7:41	10/12/20 7:56	10/12/20 8:07	10/12/20 8:18				
Date/Time Analyzed:	10/23/20 18:30	10/23/20 18:45	10/23/20 18:59	10/23/20 19:14				
QC Batch No.:	201023GC8A2	201023GC8A2	201023GC8A2	201023GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.4	3.3	3.3	3.3				
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	35	3.4	ND d	0.033	0.15 d	0.033	1.7 d	0.033
Carbon Dioxide	50	0.034	54	0.033	47	0.033	42	0.033
Oxygen/Argon	2.3	1.7	1.7	1.6	ND	1.6	ND	1.6
Nitrogen	9.6	3.4	7.4	3.3	ND	3.3	6.0	3.3
Methane	1.1	0.0034	36	0.0033	50	0.0033	49	0.0033
Carbon Monoxide	0.11	0.0034	ND	0.0033	ND	0.0033	0.0041	0.0033

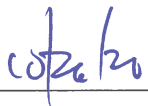
Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 
 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-109	L101906-110	L101906-111	L101906-112				
Client Sample I.D.:	GEW 68A	GEW 221	GEW 220	GEW 218				
Date/Time Sampled:	10/12/20 8:28	10/12/20 8:43	10/12/20 9:00	10/12/20 9:20				
Date/Time Analyzed:	10/23/20 19:28	10/23/20 19:43	10/23/20 19:57	10/23/20 20:12				
QC Batch No.:	201023GC8A2	201023GC8A2	201023GC8A2	201023GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.4	3.3	3.3	3.3				
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	25	3.4	1.5 d	0.033	7.7	3.3	13	3.3
Carbon Dioxide	44	0.034	50	0.033	44	0.033	45	0.033
Oxygen/Argon	ND	1.7	3.1	1.6	ND	1.6	1.8	1.6
Nitrogen	13	3.4	17	3.3	12	3.3	16	3.3
Methane	16	0.0034	29	0.0033	34	0.0033	24	0.0033
Carbon Monoxide	0.077	0.0034	0.0033	0.0033	0.026	0.0033	0.036	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/28/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-113	L101906-114	L101906-115	L101906-116				
Client Sample I.D.:	GEW 156	GIW 1	GIW 2	GIW 3				
Date/Time Sampled:	10/12/20 9:32	10/12/20 10:29	10/12/20 13:34	10/12/20 13:45				
Date/Time Analyzed:	10/23/20 20:26	10/23/20 20:41	10/23/20 20:55	10/23/20 21:10				
QC Batch No.:	201023GC8A2	201023GC8A2	201023GC8A2	201023GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.2	3.2	3.2				
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	18	3.3	9.0	3.2	9.7	3.2	12	3.2
Carbon Dioxide	43	0.033	53	0.032	34	0.032	43	0.032
Oxygen/Argon	2.1	1.6	ND	1.6	6.0	1.6	ND	1.6
Nitrogen	8.6	3.3	6.3	3.2	42	3.2	23	3.2
Methane	28	0.0033	30	0.0032	8.0	0.0032	21	0.0032
Carbon Monoxide	0.040	0.0033	0.024	0.0032	0.040	0.0032	0.035	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-117	L101906-118	L101906-119	L101906-120				
Client Sample I.D.:	GIW 4	GIW 5	GIW 6	GIW 7				
Date/Time Sampled:	10/12/20 13:55	10/12/20 14:06	10/12/20 14:22	10/12/20 14:36				
Date/Time Analyzed:	10/23/20 21:24	10/23/20 21:39	10/23/20 23:49	10/24/20 0:04				
QC Batch No.:	201023GC8A2	201023GC8A2	201023GC8A3	201023GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.3	3.2	3.2				
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	22	3.2	10	3.3	3.8 d	0.032	ND d	0.032
Carbon Dioxide	45	0.032	36	0.033	39	0.032	46	0.032
Oxygen/Argon	ND	1.6	3.1	1.6	1.7	1.6	ND	1.6
Nitrogen	8.9	3.2	17	3.3	18	3.2	3.6	3.2
Methane	23	0.0032	34	0.0033	37	0.0032	49	0.0032
Carbon Monoxide	0.050	0.0032	0.011	0.0033	0.0035	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

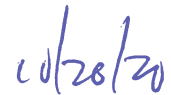
RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-121	L101906-122	L101906-123	L101906-124				
Client Sample I.D.:	GIW 8	GIW 9	GIW 10	GIW 11				
Date/Time Sampled:	10/12/20 14:45	10/12/20 15:01	10/12/20 15:14	10/12/20 15:24				
Date/Time Analyzed:	10/24/20 8:53	10/24/20 9:07	10/24/20 9:22	10/24/20 9:36				
QC Batch No.:	201023GC8A3	201023GC8A3	201023GC8A3	201023GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	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	ND d	0.032	8.7	3.2	7.0	3.2	2.2 d	0.032
Carbon Dioxide	45	0.032	40	0.032	34	0.032	32	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	1.8	1.6
Nitrogen	6.4	3.2	19	3.2	30	3.2	38	3.2
Methane	47	0.0032	30	0.0032	27	0.0032	25	0.0032
Carbon Monoxide	ND	0.0032	0.0072	0.0032	0.0091	0.0032	0.010	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____

10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-125	L101906-126	L101906-127	L101906-128				
Client Sample I.D.:	GIW 12	GIW 13	GEW 110	GEW 10				
Date/Time Sampled:	10/13/20 13:46	10/13/20 13:55	10/13/20 14:04	10/13/20 14:14				
Date/Time Analyzed:	10/24/20 9:51	10/24/20 10:05	10/24/20 10:20	10/24/20 10:34				
QC Batch No.:	201023GC8A3	201023GC8A3	201023GC8A3	201023GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.2	3.2	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	2.4 d	0.033	6.4	3.2	3.0 d	0.032	0.068 d	0.032
Carbon Dioxide	35	0.033	44	0.032	43	0.032	42	0.032
Oxygen/Argon	1.8	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	29	3.3	9.1	3.2	8.6	3.2	ND	3.2
Methane	32	0.0033	40	0.0032	45	0.0032	54	0.0032
Carbon Monoxide	0.0054	0.0033	0.0060	0.0032	0.0049	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A3, 201025GC8A4

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/19/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-129	L101906-130	L101906-131	L101906-132				
Client Sample I.D.:	GEW 56R	GEW 39	GEW 109	GEW 108				
Date/Time Sampled:	10/13/20 14:22	10/13/20 14:33	10/13/20 14:43	10/14/20 9:07				
Date/Time Analyzed:	10/24/20 10:49	10/24/20 11:03	10/24/20 11:18	10/24/20 11:32				
QC Batch No.:	201023GC8A3	201023GC8A3	201023GC8A3	201023GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.3	3.4	3.2				
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	2.9 d	0.032	ND d	0.033	0.46 d	0.034	14	3.2
Carbon Dioxide	42	0.032	41	0.033	41	0.034	43	0.032
Oxygen/Argon	ND	1.6	ND	1.6	2.0	1.7	ND	1.6
Nitrogen	12	3.2	16	3.3	13	3.4	ND	3.2
Methane	42	0.0032	42	0.0033	43	0.0034	38	0.0032
Carbon Monoxide	0.0040	0.0032	ND	0.0033	ND	0.0034	0.021	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-133	L101906-134	L101906-135	L101906-136				
Client Sample I.D.:	GEW 187	GEW 162	GEW 161	GEW 160				
Date/Time Sampled:	10/14/20 9:16	10/14/20 9:49	10/14/20 10:01	10/14/20 10:12				
Date/Time Analyzed:	10/24/20 11:47	10/24/20 12:02	10/24/20 12:16	10/24/20 12:31				
QC Batch No.:	201023GC8A3	201023GC8A3	201023GC8A3	201023GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	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	1.9 d	0.032	11	3.2	34	3.2	11	3.2
Carbon Dioxide	51	0.032	62	0.032	48	0.032	37	0.032
Oxygen/Argon	ND	1.6	ND	1.6	1.7	1.6	ND	1.6
Nitrogen	ND	3.2	10.0	3.2	8.1	3.2	20	3.2
Methane	44	0.0032	16	0.0032	7.5	0.0032	30	0.0032
Carbon Monoxide	0.0039	0.0032	0.041	0.0032	0.081	0.0032	0.019	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

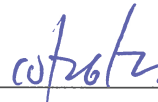
RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946


Lab No.:	L101906-137	L101906-138	L101906-139	L101906-140				
Client Sample I.D.:	GEW 91	GEW 47R	GEW 2	GEW 3				
Date/Time Sampled:	10/14/20 10:22	10/14/20 14:31	10/14/20 14:48	10/14/20 15:00				
Date/Time Analyzed:	10/24/20 12:45	10/24/20 13:00	10/24/20 15:11	10/24/20 15:25				
QC Batch No.:	201023GC8A3	201023GC8A3	201024GC8A1	201024GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.3	3.3	3.3				
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	42	3.2	0.067 d	0.033	ND d	0.033	ND d	0.033
Carbon Dioxide	49	0.032	42	0.033	40	0.033	44	0.033
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	3.5	3.2	6.0	3.3	8.0	3.3	ND	3.3
Methane	1.9	0.0032	51	0.0033	51	0.0033	53	0.0033
Carbon Monoxide	0.034	0.0032	ND	0.0033	ND	0.0033	ND	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-141	L101906-142	L101906-143	L101906-144				
Client Sample I.D.:	GEW 4	GEW 5	GEW 48	GEW 6				
Date/Time Sampled:	10/14/20 15:12	10/14/20 15:24	10/14/20 15:37	10/14/20 15:48				
Date/Time Analyzed:	10/24/20 15:40	10/24/20 15:54	10/24/20 16:09	10/24/20 16:23				
QC Batch No.:	201024GC8A1	201024GC8A1	201024GC8A1	201024GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.3	3.3	3.3				
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	0.051 d	0.033	ND d	0.033	ND d	0.033	ND d	0.033
Carbon Dioxide	41	0.033	40	0.033	40	0.033	40	0.033
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	6.6	3.3	4.9	3.3	5.5	3.3	5.0	3.3
Methane	52	0.0033	55	0.0033	53	0.0033	55	0.0033
Carbon Monoxide	ND	0.0033	ND	0.0033	ND	0.0033	ND	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

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



Client: Republic Services, Inc.
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/19/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L101906-145	L101906-146	L101906-147					
Client Sample I.D.:	GEW 49	GEW 45R	GEW 46R					
Date/Time Sampled:	10/14/20 16:02	10/14/20 16:16	10/14/20 16:28					
Date/Time Analyzed:	10/24/20 16:38	10/24/20 16:53	10/24/20 17:07					
QC Batch No.:	201024GC8A1	201024GC8A1	201024GC8A1					
Analyst Initials:	CM	CM	CM					
Dilution Factor:	3.3	3.3	3.3					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v		
Hydrogen	ND d	0.033	ND d	0.033	ND d	0.033		
Carbon Dioxide	42	0.033	40	0.033	43	0.033		
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6		
Nitrogen	3.7	3.3	4.6	3.3	3.6	3.3		
Methane	53	0.0033	55	0.0033	53	0.0033		
Carbon Monoxide	ND	0.0033	ND	0.0033	ND	0.0033		

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201025GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



QC Batch No: 201021GC8A1

Matrix: Air

Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/21/20 10:20			10/21/20 10:34		10/21/20 10:49					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.94	99	4.95	99	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	9.87	99	9.82	98	0.5	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.3	103	0.1	70	130	30
Nitrogen	ND	1.0	70	69.6	100	69.6	100	0.0	70	130	30
Methane	ND	0.0010	0.10	0.0961	96	0.0954	95	0.7	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0933	93	0.0930	93	0.4	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report




QC Batch No: 201021GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		10/21/20 17:19		10/21/20 17:35		10/21/20 17:49					
Analyst Initials:		CM		CM		CM					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.68	114	5.71	114	0.6	70	130	30
Carbon Dioxide	ND	0.010	10	10.4	104	10.3	103	1.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.0	101	15.1	102	0.4	70	130	30
Nitrogen	ND	1.0	70	69.6	100	69.6	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.102	102	0.101	101	1.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0994	99	0.0986	99	0.8	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 10/21/20

The cover letter is an integral part of this analytical report




QC Batch No: 201021GC8A3
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/22/20 8:54			10/21/20 23:38		10/21/20 23:53					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.56	111	5.57	111	0.1	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	102	10.3	103	0.4	70	130	30
Oxygen/Argon	ND	0.50	15	15.0	101	15.0	101	0.4	70	130	30
Nitrogen	ND	1.0	70	69.0	99	69.2	99	0.4	70	130	30
Methane	ND	0.0010	0.10	0.100	100	0.0994	99	0.6	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0978	98	0.0976	98	0.2	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10/22/20

The cover letter is an integral part of this analytical report



QC Batch No: 201022GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/22/20 15:22			10/22/20 14:52		10/22/20 15:07					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.51	110	5.28	106	4.3	70	130	30
Carbon Dioxide	ND	0.010	10	10.1	101	10.2	101	0.6	70	130	30
Oxygen/Argon	ND	0.50	15	15.1	102	15.1	102	0.1	70	130	30
Nitrogen	ND	1.0	70	69.3	99	69.3	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.101	101	0.101	101	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0991	99	0.0997	100	0.6	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report




QC Batch No: 201023GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/23/20 8:20			10/22/20 21:16		10/22/20 21:31					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.22	104	5.22	104	0.0	70	130	30
Carbon Dioxide	ND	0.010	10	10.1	101	10.1	101	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.3	103	15.3	103	0.1	70	130	30
Nitrogen	ND	1.0	70	70.0	100	70.0	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.101	101	0.101	101	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.100	100	0.100	100	0.1	70	130	30

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

Reviewed/Approved By:  Date 10/26/20
Mary Johnson
 Operations Manager

The cover letter is an integral part of this analytical report




QC Batch No: 201023GC8A2
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/23/20 16:13			10/23/20 15:29		10/23/20 16:27					
Analyst Initials:	CM			CM		CM					
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	5.03	101	5.04	101	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.85	98	9.84	98	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	69.8	100	69.7	100	0.2	70	130	30
Methane	ND	0.0010	0.10	0.104	104	0.104	104	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.102	102	0.102	102	0.1	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date: 10/26/21

The cover letter is an integral part of this analytical report

QC Batch No: 201024GC8A1

Matrix: Air

Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/24/20 14:56			10/24/20 14:13		10/24/20 14:27					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.61	112	5.64	113	0.7	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	102	10.2	102	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	15.1	102	15.0	101	0.1	70	130	30
Nitrogen	ND	1.0	70	69.5	99	69.5	99	0.0	70	130	30
Methane	ND	0.0010	0.10	0.101	101	0.101	101	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0993	99	0.0991	99	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
Operations Manager

Date: 10/24/20

The cover letter is an integral part of this analytical report



QC Batch No: 201025GC8A1
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/25/20 10:05			10/25/20 9:55		10/25/20 10:00					
Analyst Initials:	CM			CM		CM					
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	0.947	95	0.956	96	0.9	70	130	30

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

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



QC Batch No: 201025GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/25/20 14:03			10/25/20 13:54		10/25/20 13:59					
Analyst Initials:	CM			CM		CM					
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	0.895	90	0.891	89	0.5	70	130	30

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/26/20

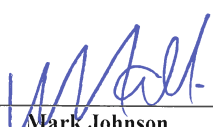
The cover letter is an integral part of this analytical report

QC Batch No: 201025GC8A3
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/25/20 16:18			10/25/20 16:09		10/25/20 16:13					
Analyst Initials:	CM			CM		CM					
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	0.836	84	0.826	83	1.2	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 10/26/20

The cover letter is an integral part of this analytical report



QC Batch No: 201025GC8A4

Matrix: Air

Reporting Units: % v/v

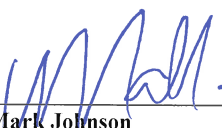
**ASTM D1946 Low Level Hydrogen
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		10/25/20 17:55		10/25/20 17:45		10/25/20 17:50					
Analyst Initials:		CM		CM		CM					
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	0.780	78	0.772	77	1.0	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date _____

10/26/20

The cover letter is an integral part of this analytical report





October 30, 2020

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: L102802-01/14

Enclosed are results for sample(s) received 10/28/20 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; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor and Dan Feezor, Feezor Engineering on 10/29/20.

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 that reads "Mark Johnson".

Mark Johnson
Operations Manager

www.airtechnology.com

Enclosures

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



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: 1 OF 2
Standard <input type="checkbox"/>	48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input checked="" type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST						
	Cannister ID	Sample Start	Sample End														
L102802-61	5315	-21.3	-5	GEW 241	10/27/2020	9:31	C	LFG	NA	X							3
-62	6154	-21.4	-5	GEW 249	10/27/2020	9:42	C	LFG	NA	X							3
-63	A7784	-21.7	-5	GEW 252	10/27/2020	10:02	C	LFG	NA	X							3
-64	A7782	-21.4	-5	GEW 247	10/27/2020	10:16	C	LFG	NA	X							3
-69	A7766	-21.5	-5	GEW 248	10/27/2020	10:32	C	LFG	NA	X							3
-66	5816	-21.4	-5	GEW 243	10/27/2020	10:49	C	LFG	NA	X							3
-67	A7775	-21.7	-5	GEW 244	10/27/2020	11:07	C	LFG	NA	X							3
-68	4655	-21.6	-5	GEW 245	10/27/2020	11:20	C	LFG	NA	X							3
-69	A7758	-21.4	-5	GEW 250	10/27/2020	11:33	C	LFG	NA	X							3
-65	4657	-21.4	-5	GEW 253	10/27/2020	11:48	C	LFG	NA	X							3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 10/27/2020

RELINQUISHED BY: [Signature] DATE/TIME: 10/27/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: [Signature] DATE/TIME: 10/28/20	RECEIVED BY: [Signature] DATE/TIME: 10/28/20
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



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: 2 OF 2
Standard <input type="checkbox"/>	48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input checked="" type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
L102802-11	A7797	-21.3	-5	GEW 246	10/27/2020	13:51	C	LFG	NA	X						3
↓ -12	5928	-21.5	-5	GEW 251	10/27/2020	14:02	C	LFG	NA	X						3
↓ -13	A7769	-21.4	-5	GEW 242	10/27/2020	14:14	C	LFG	NA	X						3
↓ -14	A7774	-21.3	-5	GEW 153	10/27/2020	14:25	C	LFG	NA	X						3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer		COMPANY: Republic Services	
SAMPLED BY: Anthony Kimutis		COMPANY: Republic Services	
RELINQUISHED BY: <i>Anthony Kimutis</i>	DATE/TIME: 10/27/2020	RECEIVED BY:	DATE/TIME: 10/27/2020
RELINQUISHED BY: <i>Paul Ex</i>	DATE/TIME: 10/28/20	RECEIVED BY: <i>(Signature)</i>	DATE/TIME: 10/28/20 0940
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

COMMENTS

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

Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 10/28/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L102802-01	L102802-02	L102802-03	L102802-04				
Client Sample I.D.:	GEW 241	GEW 249	GEW 252	GEW 247				
Date/Time Sampled:	10/27/20 9:31	10/27/20 9:42	10/27/20 10:02	10/27/20 10:16				
Date/Time Analyzed:	10/28/20 13:16	10/28/20 13:31	10/28/20 13:45	10/28/20 14:00				
QC Batch No.:	201028GC8A1	201028GC8A1	201028GC8A1	201028GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.028	2.0 d	0.028	13	2.8	13	2.8
Carbon Dioxide	36	0.028	44	0.028	44	0.028	43	0.028
Oxygen/Argon	4.7	1.4	4.6	1.4	ND	1.4	ND	1.4
Nitrogen	23	2.8	21	2.8	3.2	2.8	2.9	2.8
Methane	35	0.0028	29	0.0028	38	0.0028	41	0.0028
Carbon Monoxide	ND	0.0028	0.0099	0.0028	0.020	0.0028	0.022	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201029GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/29/20

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: 10/28/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L102802-05	L102802-06	L102802-07	L102802-08				
Client Sample I.D.:	GEW 248	GEW 243	GEW 244	GEW 245				
Date/Time Sampled:	10/27/20 10:32	10/27/20 10:49	10/27/20 11:07	10/27/20 11:20				
Date/Time Analyzed:	10/28/20 14:16	10/28/20 14:30	10/28/20 14:45	10/28/20 14:59				
QC Batch No.:	201028GC8A1	201028GC8A1	201028GC8A1	201028GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
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	3.7 d	0.028	0.13 d	0.028	ND d	0.028	0.50 d	0.028
Carbon Dioxide	22	0.028	50	0.028	2.1	0.028	46	0.028
Oxygen/Argon	7.5	1.4	ND	1.4	21	1.4	ND	1.4
Nitrogen	56	2.8	7.4	2.8	75	2.8	22	2.8
Methane	10	0.0028	41	0.0028	2.1	0.0028	30	0.0028
Carbon Monoxide	0.016	0.0028	0.014	0.0028	ND	0.0028	0.0049	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201029GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/29/20

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: 10/28/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L102802-09	L102802-10	L102802-11	L102802-12				
Client Sample I.D.:	GEW 250	GEW 253	GEW 246	GEW 251				
Date/Time Sampled:	10/27/20 11:33	10/27/20 11:48	10/27/20 13:51	10/27/20 14:02				
Date/Time Analyzed:	10/28/20 15:14	10/28/20 15:28	10/28/20 15:43	10/28/20 15:57				
QC Batch No.:	201028GC8A1	201028GC8A1	201028GC8A1	201028GC8A1				
Analyst Initials:	CM	CM	CM	CM				
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	2.3 d	0.028	3.6 d	0.028	2.1 d	0.028	37	2.8
Carbon Dioxide	17	0.028	17	0.028	46	0.028	46	0.028
Oxygen/Argon	11	1.4	10	1.4	ND	1.4	ND	1.4
Nitrogen	69	2.8	63	2.8	2.8	2.8	10	2.8
Methane	0.45	0.0028	6.1	0.0028	48	0.0028	5.8	0.0028
Carbon Monoxide	0.011	0.0028	0.012	0.0028	0.0069	0.0028	0.081	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201029GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/29/20

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: 10/28/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L102802-13	L102802-14						
Client Sample I.D.:	GEW 242	GEW 153						
Date/Time Sampled:	10/27/20 14:14	10/27/20 14:25						
Date/Time Analyzed:	10/28/20 16:12	10/28/20 16:26						
QC Batch No.:	201028GC8A1	201028GC8A1						
Analyst Initials:	CM	CM						
Dilution Factor:	2.8	2.8						
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	4.1 d	0.028	2.1 d	0.028				
Carbon Dioxide	48	0.028	33	0.028				
Oxygen/Argon	ND	1.4	1.5	1.4				
Nitrogen	4.1	2.8	33	2.8				
Methane	43	0.0028	31	0.0028				
Carbon Monoxide	0.020	0.0028	0.0065	0.0028				

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 201029GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/29/20

The cover letter is an integral part of this analytical report



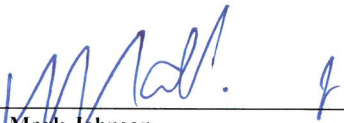
QC Batch No: 201028GC8A1
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/28/20 10:27			10/28/20 9:43		10/28/20 10:42					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.66	113	5.53	111	2.3	70	130	30
Carbon Dioxide	ND	0.010	10	10.0	100	9.95	99	0.7	70	130	30
Oxygen/Argon	ND	0.50	15	14.9	101	14.8	100	0.5	70	130	30
Nitrogen	ND	1.0	70	70.0	100	69.9	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.102	102	0.100	100	1.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0982	98	0.0973	97	0.9	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
Operations Manager

Date 10/29/20

The cover letter is an integral part of this analytical report

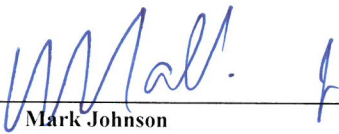


QC Batch No: 201029GC8A1
Matrix: Air
Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/29/20 9:28			10/29/20 9:13		10/29/20 9:33					
Analyst Initials:	CM			CM		CM					
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	0.959	96	0.957	96	0.2	70	130	30

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

Reviewed/Approved By: Mark Johnson  Date 10/29/20

**Mark Johnson
Operations Manager**

The cover letter is an integral part of this analytical report





November 2, 2020

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: L103001-01

Enclosed are results for sample(s) received 10/30/20 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; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor and Dan Feezor, Feezor Engineering on 10/30/20.

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 "M Johnson - 1".

Mark Johnson
Operations Manager

MJohnson@airtech.com

Enclosures

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

 <p style="font-size: small;">18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																													
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">TURNAROUND TIME</th> <th style="width:25%;">DELIVERABLES</th> <th style="width:25%;">PAGE: 1 OF 1</th> </tr> <tr> <td>Standard <input type="checkbox"/> 48 hours <input type="checkbox"/></td> <td>EDD <input checked="" type="checkbox"/></td> <td rowspan="4">Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C</td> </tr> <tr> <td>Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/></td> <td>EDF <input type="checkbox"/></td> </tr> <tr> <td>24 hours <input checked="" type="checkbox"/> 96 hours <input type="checkbox"/></td> <td>Level 3 <input type="checkbox"/></td> </tr> <tr> <td>Other: <input checked="" type="checkbox"/> 5 Day</td> <td>Level 4 <input type="checkbox"/></td> </tr> </table>	TURNAROUND TIME	DELIVERABLES	PAGE: 1 OF 1	Standard <input type="checkbox"/> 48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	24 hours <input checked="" type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	Other: <input checked="" type="checkbox"/> 5 Day	Level 4 <input type="checkbox"/>																	
TURNAROUND TIME	DELIVERABLES	PAGE: 1 OF 1																												
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24 hours <input checked="" type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>																													
Other: <input checked="" type="checkbox"/> 5 Day	Level 4 <input type="checkbox"/>																													
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: MIambrich@republicservices.com	BILLING				ANALYSIS REQUEST																									
P.C. No.: PO7112802 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044					D1946 + CO, H2 LAB IN-TAKE VAC 4-14																									
LAB USE ONLY				Cannister Pressure ("hg)										SAMPLE IDENTIFICATION			SAMPLE DATE		SAMPLE TIME		CONTAINER QTY/TYPE		MATRIX		PRESERVATION					
Cannister ID		Sample Start		Sample End										SAMPLE DATE		SAMPLE TIME		CONTAINER QTY/TYPE		MATRIX		PRESERVATION								
L103001-01		5304		-21										-5		GEW 122		10/29/2020		10:58		C		LFG		NA		X		

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services				COMMENTS			
SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 10/29/2020							
RELINQUISHED BY: <i>Ante KA</i> DATE/TIME: 10/29/2020		RECEIVED BY: _____ DATE/TIME: _____					
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 10/30/20		RECEIVED BY: <i>[Signature]</i> DATE/TIME: 10/30/20 0745					
RELINQUISHED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____					
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other: _____							

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/30/20
Matrix: Air
Reporting Units: % v/v

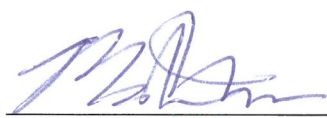
ASTM D1946

Lab No.:	L103001-01						
Client Sample I.D.:	GEW 122						
Date/Time Sampled:	10/29/20 10:58						
Date/Time Analyzed:	10/30/20 8:21						
QC Batch No.:	201029GC8A4						
Analyst Initials:	AS						
Dilution Factor:	3.0						
ANALYTE	Result % v/v	RL % v/v					
Hydrogen	8.7	3.0					
Carbon Dioxide	38	0.030					
Oxygen/Argon	ND	1.5					
Nitrogen	14	3.0					
Methane	39	0.0030					
Carbon Monoxide	0.024	0.0030					

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 10-30-20

The cover letter is an integral part of this analytical report



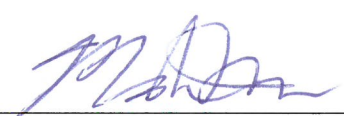
QC Batch No: 201029GC8A4
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/29/20 20:33			10/29/20 20:47		10/29/20 21:02					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.17	103	5.16	103	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	9.90	99	9.88	99	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	14.9	100	14.9	100	0.3	70	130	30
Nitrogen	ND	1.0	70	69.9	100	69.7	100	0.3	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0919	92	0.0921	92	0.2	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-30-20

The cover letter is an integral part of this analytical report

ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

October 2020 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	10/7/2020 11:14:57 AM	52.6	38.5	0.0	8.9	111.2	111.2	24.11	24.11	-1.25	-1.25	-13.77
GEW-002	10/14/2020 2:44:48 PM	51.9	38.3	0.0	9.8	113.2	113.2	24.97	24.97	-0.64	-0.64	-13.11
GEW-002	10/14/2020 2:51:08 PM	52.2	37.3	0.0	10.5	112.7	112.7	17.97	17.36	-0.66	-0.68	-13.66
GEW-002	10/19/2020 11:38:12 AM	49.5	38.6	0.0	11.9	107.5	107.5	20.25	20.25	-1.14	-1.14	-14.20
GEW-002	10/19/2020 11:39:38 AM	49.2	40.0	0.0	10.8	107.3	107.3	22.49	18.95	-0.98	-0.98	-13.46
GEW-002	10/29/2020 2:44:20 PM	54.1	39.6	0.0	6.3	108.2	108.0	8.56	9.83	-0.79	-0.80	-13.53
GEW-003	10/7/2020 11:18:47 AM	49.7	41.0	0.0	9.3	111.8	111.7	6.62	5.63	-0.20	-0.20	-13.10
GEW-003	10/7/2020 11:21:01 AM	49.5	40.8	0.0	9.7	111.3	111.0	6.04	2.70	-0.21	-0.19	-13.04
GEW-003	10/14/2020 2:57:26 PM	54.0	41.0	0.0	5.0	111.2	111.2	11.09	7.61	0.44	0.43	-13.15
GEW-003	10/14/2020 3:04:12 PM	54.3	41.1	0.0	4.6	111.2	111.3	5.38	8.50	0.54	0.53	-13.15
GEW-003	10/15/2020 11:02:40 AM	47.2	40.0	0.0	12.8	92.1	92.2	23.78	23.62	-0.71	-0.69	-12.73
GEW-003	10/15/2020 11:05:11 AM	47.2	39.9	0.0	12.9	90.5	90.3	23.18	21.34	-0.57	-0.58	-12.90
GEW-003	10/19/2020 1:44:57 PM	55.1	40.6	0.0	4.3	83.3	83.4	14.40	11.43	-0.11	-0.09	-13.22
GEW-003	10/29/2020 2:47:09 PM	54.6	40.0	0.0	5.4	78.4	78.7	11.14	7.37	-0.10	-0.10	-13.59
GEW-004	10/7/2020 11:23:30 AM	53.9	40.4	0.0	5.7	111.5	111.5	7.64	8.54	-0.41	-0.41	-13.28
GEW-004	10/14/2020 3:08:53 PM	53.3	39.1	0.0	7.6	114.3	114.3	12.86	12.29	0.39	0.40	-12.90
GEW-004	10/14/2020 3:15:28 PM	53.1	38.6	0.0	8.3	114.3	114.3	11.37	13.13	0.25	0.26	-13.45
GEW-004	10/15/2020 11:07:59 AM	54.8	41.0	0.0	4.2	109.7	109.7	33.52	33.31	-0.88	-0.88	-13.66
GEW-004	10/19/2020 1:47:26 PM	52.4	38.0	0.0	9.6	106.3	106.5	11.19	9.78	-0.39	-0.38	-13.83
GEW-004	10/29/2020 2:50:23 PM	52.2	40.1	0.0	7.7	105.2	105.3	7.68	10.52	-0.43	-0.42	-13.77
GEW-005	10/7/2020 11:33:25 AM	52.5	38.4	0.0	9.1	88.3	88.4	7.25	6.01	-0.09	-0.09	-13.04
GEW-005	10/14/2020 3:20:43 PM	56.2	37.5	0.0	6.3	89.8	89.8	17.97	16.44	0.35	0.35	-13.15
GEW-005	10/14/2020 3:27:34 PM	56.7	37.3	0.0	6.0	89.8	89.8	24.51	24.51	0.32	0.31	-13.36
GEW-005	10/15/2020 11:19:00 AM	47.3	37.4	0.0	15.3	80.0	80.0	24.37	23.74	-0.46	-0.46	-13.49
GEW-005	10/15/2020 11:22:03 AM	47.2	37.3	0.0	15.5	75.9	75.8	18.37	18.17	-0.44	-0.44	-13.23
GEW-005	10/19/2020 1:56:19 PM	57.0	36.8	0.0	6.2	61.4	61.4	6.94	6.94	0.15	0.15	-13.71
GEW-005	10/19/2020 1:57:25 PM	57.3	36.7	0.0	6.0	61.7	61.8	6.93	8.00	0.06	0.06	-13.71
GEW-005	10/20/2020 7:13:52 AM	58.0	39.0	0.0	3.0	59.4	59.4	10.54	10.15	-0.07	-0.06	-13.07
GEW-005	10/29/2020 3:00:55 PM	57.9	38.8	0.0	3.3	60.9	60.9	10.96	11.32	-0.15	-0.15	-13.71
GEW-006	10/7/2020 11:39:42 AM	54.9	39.0	0.0	6.1	85.2	85.3	17.70	17.70	-0.50	-0.48	-13.40
GEW-006	10/14/2020 3:45:19 PM	56.8	36.9	0.0	6.3	88.4	88.4	18.18	15.50	-0.16	-0.17	-13.40
GEW-006	10/14/2020 3:51:39 PM	56.7	37.0	0.0	6.3	88.2	88.2	18.99	17.97	-0.14	-0.14	-13.23
GEW-006	10/19/2020 2:01:56 PM	53.5	37.2	0.0	9.3	81.7	81.7	6.20	6.20	-0.37	-0.36	-13.83
GEW-006	10/29/2020 3:06:46 PM	52.8	38.3	0.0	8.9	79.3	79.1	7.35	8.79	-0.60	-0.57	-13.77
GEW-007	10/7/2020 9:57:19 AM	56.4	40.3	0.0	3.3	92.5	92.6	8.99	7.67	-5.74	-5.74	-13.71
GEW-007	10/12/2020 9:00:43 AM	56.2	41.3	0.0	2.5	91.3	91.4	9.79	9.79	-5.74	-5.74	-13.34
GEW-007	10/12/2020 9:07:30 AM	56.3	40.7	0.0	3.0	91.2	91.2	11.82	10.15	-6.03	-6.03	-13.40
GEW-007	10/19/2020 10:32:51 AM	56.3	41.0	0.0	2.7	87.1	87.0	10.91	11.24	-5.40	-5.40	-13.59
GEW-007	10/29/2020 8:54:58 AM	56.7	40.8	0.0	2.5	84.9	84.7	8.63	8.19	-5.95	-5.95	-13.77
GEW-008	10/7/2020 10:00:39 AM	53.6	41.9	0.0	4.5	111.5	111.5	19.26	20.00	-0.96	-0.98	-13.71

October 2020 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-008	10/12/2020 9:12:03 AM	53.1	43.1	0.0	3.8	110.2	110.2	15.04	13.50	-0.92	-0.90	-13.59
GEW-008	10/12/2020 9:19:44 AM	53.3	43.5	0.0	3.2	110.2	110.2	11.14	15.51	-0.90	-0.92	-13.95
GEW-008	10/19/2020 10:36:05 AM	54.1	42.0	0.0	3.9	108.1	108.0	17.75	17.54	-0.81	-0.80	-13.77
GEW-008	10/29/2020 8:58:49 AM	54.4	42.2	0.0	3.4	107.2	107.2	7.65	6.23	-1.13	-1.14	-14.26
GEW-009	10/7/2020 10:04:49 AM	50.8	42.0	0.0	7.2	120.5	120.5	5.36	6.00	-0.19	-0.19	-13.53
GEW-009	10/12/2020 9:24:34 AM	51.2	42.1	0.0	6.7	119.9	119.7	6.00	6.00	-0.23	-0.23	-13.77
GEW-009	10/12/2020 9:31:41 AM	51.3	42.6	0.0	6.1	119.7	119.7	10.39	9.29	-0.22	-0.22	-13.77
GEW-009	10/19/2020 10:39:38 AM	50.4	41.7	0.0	7.9	118.1	117.9	10.06	10.06	-0.09	-0.09	-13.46
GEW-009	10/29/2020 9:02:08 AM	50.0	42.1	0.0	7.9	116.3	116.6	7.12	6.01	-0.37	-0.36	-14.01
GEW-010	10/7/2020 11:49:24 AM	56.4	42.0	0.0	1.6	98.9	98.9	4.35	4.63	-5.06	-5.06	-18.67
GEW-010	10/13/2020 2:11:26 PM	55.8	41.1	0.0	3.1	99.6	99.9	4.84	4.30	-5.74	-5.74	-20.55
GEW-010	10/13/2020 2:16:29 PM	55.7	39.6	0.0	4.7	100.6	100.6	2.72	3.84	-5.74	-5.74	-20.30
GEW-010	10/19/2020 9:13:21 AM	56.0	41.6	0.0	2.4	71.0	71.0	1.17	3.31	-5.99	-5.99	-19.37
GEW-010	10/28/2020 10:55:47 AM	56.1	43.8	0.0	0.1	81.2	81.0	1.62	3.25	-5.74	-5.74	-18.56
GEW-013A	10/5/2020 1:51:55 PM	7.4	65.8	0.0	26.8	194.3	194.3	12.05	12.05	-0.75	-0.75	-19.87
GEW-013A	10/5/2020 1:58:19 PM	7.3	69.0	0.0	23.7	194.9	195.0	9.66	14.39	-0.75	-0.75	-19.32
GEW-013A	10/16/2020 7:22:32 AM	7.3	73.7	0.0	19.0	194.3	194.5	8.99	11.10	-2.13	-2.11	-21.40
GEW-013A	10/16/2020 7:24:25 AM	7.3	73.4	0.0	19.3	172.1	170.5	11.37	11.89	9.41	9.41	-20.34
GEW-013A	10/16/2020 4:37:06 PM	7.0	69.0	0.0	24.0	61.1	61.1	5.99	3.20	32.88	32.76	-20.00
GEW-013A	10/16/2020 4:40:19 PM	7.0	73.3	0.0	19.7	191.6	192.3	15.32	13.88	-1.07	-1.04	-21.01
GEW-015	10/7/2020 8:30:46 AM	29.1	49.2	0.0	21.7	103.3	102.8	2.48	3.15	-3.15	-3.12	-19.28
GEW-015	10/7/2020 8:37:20 AM	28.9	49.9	0.0	21.2	105.0	105.2	4.43	3.99	-3.12	-3.12	-19.07
GEW-015	10/29/2020 1:43:55 PM	31.0	47.0	0.2	21.8	71.4	71.4	3.33	2.04	-3.27	-3.26	-19.20
GEW-016R	10/7/2020 10:59:00 AM	14.1	53.5	0.0	32.4	162.9	162.9	13.15	12.69	-2.81	-2.81	-18.01
GEW-016R	10/7/2020 11:06:01 AM	16.9	53.5	0.0	29.6	164.3	163.8	12.20	13.13	-2.85	-2.85	-17.89
GEW-016R	10/19/2020 1:56:13 PM	14.3	54.3	0.1	31.3	159.8	159.9	12.58	12.50	-2.82	-2.82	-19.37
GEW-016R	10/19/2020 1:57:04 PM	14.1	54.9	0.1	30.9	159.8	159.8	12.21	12.74	-2.81	-2.81	-19.49
GEW-018B	10/7/2020 2:09:23 PM	2.4	58.2	0.4	39.0	198.6	198.6	27.65	26.38	-0.31	-0.31	-19.15
GEW-018B	10/7/2020 2:15:25 PM	2.5	53.0	0.4	44.1	198.6	198.6	26.34	26.19	-0.32	-0.33	-19.03
GEW-018B	10/13/2020 7:58:50 AM	4.0	57.1	1.1	37.8	196.6	196.5	29.78	29.95	-0.75	-0.75	-20.32
GEW-018B	10/13/2020 7:59:35 AM	2.7	54.4	1.2	41.7	190.2	188.9	4.26	3.24	0.61	0.64	-19.65
GEW-018B	10/13/2020 3:33:17 PM	2.5	57.7	0.0	39.8	87.3	87.2	4.25	4.08	6.41	6.41	-20.01
GEW-018B	10/13/2020 3:35:39 PM	3.3	60.1	0.0	36.6	191.0	191.6	30.30	30.30	-0.77	-0.77	-20.38
GEW-018B	10/19/2020 2:56:05 PM	2.0	61.6	0.0	36.4	200.1	200.1	26.56	26.77	1.05	1.06	-19.28
GEW-018B	10/19/2020 2:58:42 PM	1.9	62.3	0.0	35.8	200.8	200.8	44.21	44.31	-0.54	-0.55	-20.08
GEW-019A	10/9/2020 6:52:26 AM	0.3	20.2	15.6	63.9	59.4	59.4	2.07	3.96	-6.54	-6.54	-19.03
GEW-019A	10/9/2020 6:57:54 AM	0.5	34.8	11.0	53.7	60.4	60.4	5.06	3.16	-6.42	-6.42	-19.03
GEW-019A	10/19/2020 4:23:17 PM	1.4	61.7	4.2	32.7	51.7	51.8	2.92	3.76	-13.80	-13.80	-19.49
GEW-039	10/7/2020 2:23:15 PM	41.6	41.0	0.1	17.3	107.2	107.1	10.42	8.07	-0.04	-0.04	-18.97
GEW-039	10/13/2020 2:30:32 PM	43.3	38.7	0.2	17.8	106.7	106.7	7.13	6.60	-0.05	-0.05	-20.55

October 2020 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	10/13/2020 2:36:33 PM	43.3	38.7	0.2	17.8	106.7	106.9	8.53	10.09	-0.02	-0.02	-20.30
GEW-039	10/19/2020 9:18:34 AM	38.2	36.8	0.8	24.2	93.7	93.9	11.89	11.89	-0.05	-0.05	-17.63
GEW-039	10/28/2020 1:46:16 PM	49.6	40.2	0.0	10.2	96.6	96.9	10.18	10.18	-0.01	-0.02	-19.24
GEW-040	10/7/2020 10:35:27 AM	50.7	35.0	0.0	14.3	77.7	77.7	3.47	3.35	-0.54	-0.54	-12.97
GEW-040	10/7/2020 10:36:56 AM	50.7	34.7	0.0	14.6	78.0	78.0	7.39	6.44	-0.45	-0.45	-13.10
GEW-040	10/12/2020 2:16:00 PM	56.2	34.8	0.0	9.0	78.9	79.0	7.36	6.82	-0.30	-0.26	-13.16
GEW-040	10/12/2020 2:21:56 PM	56.4	34.3	0.0	9.3	79.8	79.8	6.81	6.81	-0.28	-0.28	-12.91
GEW-040	10/19/2020 11:07:56 AM	51.3	36.2	0.0	12.5	50.1	50.1	7.01	5.72	-0.26	-0.26	-13.16
GEW-040	10/29/2020 9:27:55 AM	56.4	37.6	0.0	6.0	46.9	46.8	5.74	4.97	-0.32	-0.32	-13.46
GEW-041R	10/7/2020 10:40:40 AM	52.6	35.7	0.0	11.7	89.1	89.3	6.58	6.64	-0.14	-0.13	-13.10
GEW-041R	10/12/2020 2:25:37 PM	52.9	35.6	0.0	11.5	82.6	82.6	4.80	3.92	-0.15	-0.16	-13.16
GEW-041R	10/12/2020 2:33:57 PM	52.6	36.4	0.0	11.0	82.6	82.9	2.77	2.84	-0.15	-0.17	-13.22
GEW-041R	10/19/2020 11:10:53 AM	49.5	35.6	0.0	14.9	65.1	65.4	7.46	7.46	-0.06	-0.07	-13.16
GEW-041R	10/29/2020 2:15:19 PM	50.2	33.8	0.0	16.0	64.2	64.2	15.97	15.97	-0.10	-0.07	-13.65
GEW-041R	10/29/2020 2:18:34 PM	49.8	34.9	0.0	15.3	64.4	64.0	5.64	6.31	-0.06	-0.08	-13.59
GEW-042R	10/7/2020 10:44:21 AM	55.9	38.4	0.0	5.7	104.5	104.5	8.07	9.70	-4.52	-4.52	-13.34
GEW-042R	10/12/2020 2:38:27 PM	55.5	38.7	0.0	5.8	103.1	103.1	12.92	12.63	-4.55	-4.55	-13.40
GEW-042R	10/12/2020 2:45:09 PM	55.3	38.7	0.0	6.0	103.0	103.0	12.34	11.74	-4.56	-4.54	-13.34
GEW-042R	10/19/2020 11:14:21 AM	52.9	38.4	0.0	8.7	100.4	100.4	5.40	6.04	-4.44	-4.44	-13.40
GEW-042R	10/29/2020 2:22:16 PM	54.9	36.7	0.0	8.4	99.6	99.8	12.96	12.96	-4.44	-4.45	-13.59
GEW-043R	10/7/2020 10:48:14 AM	56.0	40.6	0.0	3.4	114.8	114.5	11.08	11.08	-1.35	-1.35	-13.40
GEW-043R	10/7/2020 10:49:50 AM	55.7	40.9	0.0	3.4	114.8	114.8	15.43	13.43	-1.45	-1.46	-13.77
GEW-043R	10/12/2020 2:51:39 PM	56.3	41.4	0.0	2.3	114.1	114.3	17.61	14.46	-1.73	-1.71	-13.71
GEW-043R	10/12/2020 2:57:57 PM	55.7	41.4	0.0	2.9	114.0	114.0	17.20	14.96	-1.74	-1.72	-13.40
GEW-043R	10/19/2020 11:17:20 AM	56.1	40.2	0.0	3.7	112.3	112.5	14.50	13.19	-1.46	-1.45	-14.14
GEW-043R	10/29/2020 2:26:09 PM	56.3	38.5	0.0	5.2	112.0	112.5	11.42	13.99	-1.53	-1.56	-13.89
GEW-044	10/7/2020 10:52:53 AM	49.9	38.1	0.0	12.0	87.0	87.0	0.52	1.03	-0.16	-0.16	-12.73
GEW-044	10/12/2020 3:02:48 PM	48.3	38.8	0.0	12.9	80.3	80.3	2.27	1.47	-0.31	-0.31	-13.04
GEW-044	10/12/2020 3:08:46 PM	48.3	37.9	0.0	13.8	80.5	80.5	1.38	1.16	-0.33	-0.32	-13.04
GEW-044	10/19/2020 11:21:28 AM	45.9	38.2	0.0	15.9	53.7	53.5	2.13	2.26	-0.15	-0.15	-13.16
GEW-044	10/29/2020 2:30:26 PM	48.6	36.3	0.0	15.1	55.9	56.0	2.06	1.68	-0.18	-0.18	-13.28
GEW-045R	10/7/2020 10:59:05 AM	57.2	39.5	0.0	3.3	97.8	97.8	5.41	3.83	-4.72	-4.72	-13.10
GEW-045R	10/7/2020 11:04:06 AM	56.8	39.2	0.0	4.0	98.4	98.7	11.11	14.91	-6.07	-6.07	-13.04
GEW-045R	10/14/2020 4:12:42 PM	57.6	37.4	0.1	4.9	99.4	99.6	8.88	6.56	-5.57	-5.57	-12.81
GEW-045R	10/14/2020 4:19:02 PM	57.1	37.5	0.1	5.3	100.0	100.1	10.01	10.01	-5.61	-5.61	-13.11
GEW-045R	10/19/2020 11:28:39 AM	56.0	40.5	0.0	3.5	90.5	90.3	7.69	8.15	-5.40	-5.40	-13.22
GEW-045R	10/29/2020 2:37:44 PM	55.9	39.5	0.0	4.6	90.7	90.7	7.19	7.69	-5.48	-5.53	-13.59
GEW-046R	10/7/2020 11:07:47 AM	55.5	40.2	0.0	4.3	104.7	104.8	9.46	10.37	-0.11	-0.10	-12.91
GEW-046R	10/14/2020 4:25:02 PM	55.6	39.5	0.0	4.9	106.2	106.2	7.63	7.63	0.19	0.19	-12.81
GEW-046R	10/14/2020 4:32:32 PM	55.5	40.8	0.0	3.7	106.5	106.5	8.09	6.61	0.16	0.16	-12.81

October 2020 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-046R	10/15/2020 10:59:02 AM	55.8	42.0	0.0	2.2	98.7	98.4	11.51	11.19	-0.35	-0.36	-13.19
GEW-046R	10/19/2020 11:32:10 AM	54.9	41.7	0.0	3.4	97.7	97.7	11.28	10.94	-0.09	-0.09	-13.40
GEW-046R	10/29/2020 2:40:31 PM	56.3	40.1	0.0	3.6	97.2	97.2	12.54	11.93	-0.12	-0.14	-13.59
GEW-047R	10/7/2020 11:29:33 AM	51.7	41.7	0.0	6.6	106.5	106.5	27.98	27.93	-0.17	-0.18	-13.04
GEW-047R	10/14/2020 2:27:34 PM	52.9	40.0	0.0	7.1	110.0	110.0	31.40	30.46	0.54	0.54	-13.11
GEW-047R	10/14/2020 2:36:43 PM	53.0	39.4	0.0	7.6	110.2	110.1	7.61	8.08	0.55	0.55	-13.11
GEW-047R	10/15/2020 11:11:04 AM	50.0	39.4	0.0	10.6	98.7	98.7	24.10	24.56	-0.68	-0.68	-13.49
GEW-047R	10/19/2020 1:53:40 PM	47.0	38.7	0.0	14.3	98.7	98.9	7.23	6.70	-0.06	-0.06	-13.71
GEW-047R	10/29/2020 2:56:08 PM	48.1	40.1	0.0	11.8	96.5	96.5	7.24	6.71	-0.25	-0.25	-13.77
GEW-047R	10/29/2020 2:57:34 PM	48.4	39.1	0.0	12.5	96.0	95.5	12.05	11.90	-0.15	-0.11	-13.65
GEW-048	10/7/2020 11:37:13 AM	55.1	38.9	0.0	6.0	97.9	97.9	10.58	11.91	-0.50	-0.52	-13.71
GEW-048	10/14/2020 3:33:42 PM	55.2	38.2	0.0	6.6	98.7	98.7	14.37	11.52	-0.12	-0.13	-13.83
GEW-048	10/14/2020 3:40:00 PM	55.3	37.8	0.0	6.9	98.7	98.7	14.11	14.87	-0.13	-0.11	-13.40
GEW-048	10/19/2020 1:59:22 PM	55.7	35.6	0.0	8.7	92.2	92.2	12.89	14.01	-0.46	-0.46	-14.69
GEW-048	10/29/2020 3:04:03 PM	55.2	38.6	0.0	6.2	91.5	91.5	8.24	8.24	-0.63	-0.62	-13.59
GEW-049	10/7/2020 10:55:44 AM	54.0	39.3	0.0	6.7	87.0	87.0	11.05	14.09	-0.05	-0.06	-12.97
GEW-049	10/14/2020 3:59:06 PM	56.1	39.2	0.0	4.7	94.3	94.3	8.19	6.68	0.27	0.25	-12.81
GEW-049	10/14/2020 4:07:01 PM	56.3	39.4	0.0	4.3	94.3	94.3	5.46	4.73	0.31	0.31	-12.90
GEW-049	10/15/2020 11:14:51 AM	54.3	41.1	0.0	4.6	72.2	72.3	6.81	6.81	-0.43	-0.43	-13.19
GEW-049	10/19/2020 11:24:56 AM	53.8	40.7	0.0	5.5	65.8	65.9	7.97	7.97	-0.03	-0.03	-13.22
GEW-049	10/29/2020 2:33:48 PM	54.2	39.9	0.0	5.9	65.2	65.5	0.63	2.52	-0.02	-0.02	-13.53
GEW-050	10/7/2020 9:51:16 AM	56.5	39.1	0.0	4.4	99.6	99.6	9.84	7.72	-0.43	-0.42	-7.65
GEW-050	10/12/2020 8:37:52 AM	56.2	39.2	0.0	4.6	97.2	97.2	13.12	7.86	-0.22	-0.19	-9.98
GEW-050	10/12/2020 8:44:23 AM	56.1	39.1	0.0	4.8	96.8	96.8	14.99	14.23	-0.21	-0.22	-7.71
GEW-050	10/19/2020 10:24:57 AM	56.1	38.1	0.0	5.8	91.7	91.5	13.48	14.81	-0.12	-0.11	-6.98
GEW-050	10/29/2020 8:48:55 AM	56.4	38.9	0.0	4.7	90.3	88.6	10.53	12.40	-0.58	-0.59	-6.30
GEW-051	10/7/2020 10:09:21 AM	54.7	41.5	0.0	3.8	116.1	116.2	8.40	7.24	-0.57	-0.57	-13.34
GEW-051	10/12/2020 9:43:49 AM	54.8	42.1	0.0	3.1	114.8	114.8	23.92	23.77	-0.62	-0.59	-12.97
GEW-051	10/12/2020 9:49:51 AM	54.9	40.9	0.0	4.2	114.5	114.6	10.43	10.07	-0.63	-0.60	-13.22
GEW-051	10/19/2020 10:43:54 AM	55.0	42.4	0.0	2.6	110.2	110.5	13.79	13.79	-0.32	-0.32	-13.46
GEW-051	10/29/2020 9:07:48 AM	55.1	41.8	0.0	3.1	108.7	108.3	6.62	7.15	-1.02	-1.03	-13.83
GEW-052	10/7/2020 9:54:17 AM	53.3	39.0	0.0	7.7	103.8	103.8	6.61	6.61	-0.07	-0.07	-13.53
GEW-052	10/12/2020 8:48:16 AM	54.0	40.5	0.0	5.5	102.1	102.0	7.21	7.21	-0.02	-0.02	-13.53
GEW-052	10/12/2020 8:54:07 AM	54.2	40.3	0.0	5.5	101.6	101.6	11.24	7.71	-0.06	-0.07	-13.34
GEW-052	10/19/2020 10:27:55 AM	54.4	38.8	0.0	6.8	95.8	95.7	10.26	9.50	0.06	0.05	-13.59
GEW-052	10/19/2020 10:28:58 AM	53.6	40.4	0.0	6.0	95.7	96.0	10.26	8.22	0.04	0.04	-13.28
GEW-052	10/20/2020 7:20:32 AM	53.8	39.4	0.0	6.8	99.2	99.4	7.18	7.18	-0.07	-0.07	-13.28
GEW-052	10/29/2020 8:51:47 AM	53.6	38.8	0.0	7.6	93.9	94.1	14.52	13.45	-0.24	-0.25	-13.59
GEW-053	10/7/2020 10:15:41 AM	51.0	42.0	0.0	7.0	141.9	141.5	19.33	19.86	-0.51	-0.52	-13.16
GEW-053	10/7/2020 10:17:52 AM	50.9	42.2	0.0	6.9	141.7	141.2	5.74	5.97	-0.52	-0.51	-13.22

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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	10/12/2020 9:59:10 AM	50.6	42.9	0.0	6.5	136.8	136.5	9.88	10.23	-0.60	-0.59	-12.91
GEW-053	10/12/2020 10:05:17 AM	50.9	42.6	0.0	6.5	136.8	136.5	17.92	19.42	-0.63	-0.61	-13.22
GEW-053	10/19/2020 10:50:19 AM	51.1	42.1	0.0	6.8	138.7	138.7	15.84	18.10	-0.31	-0.31	-13.77
GEW-053	10/19/2020 10:52:08 AM	50.7	43.9	0.0	5.4	139.0	138.3	20.95	19.39	-0.27	-0.26	-13.34
GEW-053	10/29/2020 9:13:46 AM	51.1	42.4	0.0	6.5	138.7	138.7	14.67	8.74	-0.92	-0.94	-13.83
GEW-053	10/29/2020 9:14:58 AM	50.7	43.2	0.0	6.1	138.7	139.3	13.44	16.46	-0.97	-0.97	-13.77
GEW-054	10/7/2020 10:21:13 AM	53.0	42.5	0.0	4.5	145.0	144.9	53.65	50.47	-4.38	-4.43	-13.95
GEW-054	10/7/2020 10:22:54 AM	53.1	42.8	0.0	4.1	145.1	145.0	54.76	54.07	-4.48	-4.54	-13.22
GEW-054	10/12/2020 10:09:56 AM	52.7	43.8	0.0	3.5	144.7	144.6	56.03	57.71	-4.64	-4.58	-13.65
GEW-054	10/12/2020 10:16:31 AM	52.8	42.7	0.0	4.5	144.6	144.6	40.63	41.62	-4.26	-4.22	-13.83
GEW-054	10/19/2020 10:57:28 AM	53.0	43.4	0.0	3.6	144.8	144.8	50.69	54.23	-4.30	-4.39	-13.77
GEW-054	10/19/2020 10:58:45 AM	52.9	44.0	0.0	3.1	144.9	144.7	56.23	53.78	-4.46	-4.40	-13.77
GEW-054	10/29/2020 9:18:02 AM	52.8	43.8	0.0	3.4	144.5	144.5	55.97	54.00	-4.74	-4.78	-14.08
GEW-054	10/29/2020 9:19:18 AM	52.9	44.0	0.0	3.1	144.5	144.5	52.93	51.58	-4.75	-4.72	-13.46
GEW-055	10/7/2020 10:31:41 AM	53.3	42.1	0.0	4.6	128.6	128.5	6.98	5.16	-0.81	-0.80	-13.16
GEW-055	10/12/2020 10:22:29 AM	53.2	42.3	0.0	4.5	124.7	125.0	5.93	7.74	-0.98	-0.97	-13.28
GEW-055	10/12/2020 10:29:01 AM	53.7	42.2	0.0	4.1	122.1	122.1	8.14	5.22	-1.04	-1.06	-13.22
GEW-055	10/19/2020 11:04:53 AM	53.3	43.3	0.0	3.4	121.3	121.5	6.36	8.02	-0.47	-0.48	-13.34
GEW-055	10/29/2020 9:24:31 AM	53.6	42.3	0.0	4.1	116.8	116.8	8.14	6.11	-1.14	-1.14	-13.71
GEW-056R	10/7/2020 12:00:34 PM	46.7	43.2	0.0	10.1	111.7	111.7	3.14	3.51	-0.22	-0.23	-18.60
GEW-056R	10/13/2020 2:19:46 PM	44.6	39.6	0.0	15.8	105.5	105.7	1.93	2.49	-0.20	-0.20	-20.38
GEW-056R	10/13/2020 2:25:57 PM	44.2	39.8	0.0	16.0	105.5	105.7	1.11	1.58	-0.20	-0.21	-20.68
GEW-056R	10/19/2020 9:15:49 AM	44.2	38.5	0.0	17.3	64.9	64.9	3.80	3.39	-0.42	-0.41	-19.28
GEW-056R	10/28/2020 10:58:03 AM	47.2	41.2	0.0	11.6	75.7	75.3	3.33	1.67	-0.24	-0.24	-18.90
GEW-057B	10/9/2020 2:00:10 PM	6.5	60.1	0.0	33.4	187.6	187.6	15.37	15.84	-9.11	-9.11	-18.85
GEW-057B	10/9/2020 2:05:56 PM	11.3	59.7	0.0	29.0	189.6	189.0	11.02	16.91	-12.15	-12.15	-18.85
GEW-057B	10/15/2020 10:37:41 AM	9.0	59.9	0.1	31.0	169.5	169.5	25.81	14.26	-17.22	-17.22	-19.49
GEW-057B	10/15/2020 10:42:34 AM	7.2	45.3	4.8	42.7	136.8	135.9	2.35	3.15	-2.77	-2.72	-19.66
GEW-057B	10/15/2020 3:56:20 PM	2.6	60.2	0.0	37.2	61.5	61.5	5.22	7.27	18.83	18.83	-20.63
GEW-057B	10/15/2020 3:58:42 PM	4.2	63.0	0.0	32.8	105.5	105.5	21.01	22.75	-14.10	-14.31	-20.51
GEW-057B	10/30/2020 9:11:54 AM	6.6	56.1	0.0	37.3	161.4	161.4	5.98	15.33	-15.18	-15.10	-19.40
GEW-057B	10/30/2020 9:13:05 AM	6.0	61.0	0.0	33.0	162.0	162.0	22.33	17.50	-15.06	-15.18	-19.16
GEW-058A	10/9/2020 8:25:48 AM	7.9	39.5	1.8	50.8	90.5	90.5	1.14	1.61	-5.36	-5.36	-19.65
GEW-058A	10/9/2020 8:31:57 AM	8.2	38.5	1.8	51.5	89.8	89.8	2.28	2.28	-5.65	-5.65	-19.40
GEW-058A	10/15/2020 8:03:07 AM	8.9	37.0	3.3	50.8	67.9	67.9	1.18	2.63	-6.33	-6.37	-19.66
GEW-058A	10/15/2020 8:05:05 AM	8.7	36.4	3.6	51.3	63.5	63.2	1.20	1.20	-3.08	-3.06	-19.66
GEW-058A	10/15/2020 2:18:56 PM	3.3	44.0	1.4	51.3	57.3	57.4	8.28	1.22	0.55	0.62	-19.70
GEW-058A	10/15/2020 2:21:00 PM	2.0	51.8	0.0	46.2	58.8	58.8	0.00	4.00	-2.81	-2.83	-19.62
GEW-058A	10/20/2020 6:40:33 AM	5.7	35.7	3.5	55.1	47.6	47.4	1.23	1.74	-3.37	-3.36	-18.94
GEW-058A	10/20/2020 6:44:09 AM	0.3	9.2	19.9	70.6	47.3	47.3	4.11	3.71	-1.62	-1.63	-19.28

October 2020 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-058A	10/20/2020 2:45:13 PM	1.1	51.3	0.0	47.6	56.0	56.0	2.12	2.12	1.49	1.49	-19.58
GEW-058A	10/20/2020 2:47:44 PM	1.0	55.0	0.0	44.0	64.3	64.4	3.90	3.52	-9.46	-9.46	-19.87
GEW-059R	10/9/2020 7:57:21 AM	26.6	42.7	0.0	30.7	78.2	78.2	1.66	1.17	-2.92	-2.92	-19.46
GEW-059R	10/9/2020 8:02:46 AM	25.9	43.0	0.0	31.1	79.6	79.6	2.34	1.65	-2.96	-2.96	-19.22
GEW-059R	10/15/2020 7:36:24 AM	29.4	41.5	0.0	29.1	65.4	65.4	2.38	2.06	-4.16	-4.16	-20.30
GEW-059R	10/15/2020 7:39:04 AM	28.6	42.9	0.0	28.5	63.4	63.3	1.69	1.69	-3.24	-3.25	-20.30
GEW-059R	10/15/2020 1:47:34 PM	21.7	44.6	0.0	33.7	58.5	58.5	2.43	0.00	-0.77	-0.77	-19.62
GEW-059R	10/15/2020 1:49:51 PM	21.1	45.9	0.0	33.0	66.4	67.0	10.59	9.96	-4.81	-4.81	-19.70
GEW-059R	10/29/2020 3:48:23 PM	25.2	43.8	0.0	31.0	80.0	80.0	2.31	2.58	-7.59	-7.59	-19.09
GEW-067A	10/5/2020 1:40:25 PM	11.0	52.5	0.0	36.5	193.6	193.6	2.97	2.97	-10.43	-10.43	-18.90
GEW-067A	10/5/2020 1:48:10 PM	11.2	55.5	0.0	33.3	193.6	193.6	8.25	7.28	-10.47	-10.47	-18.77
GEW-067A	10/16/2020 7:05:59 AM	12.5	51.5	0.3	35.7	191.6	191.6	17.00	12.39	-14.10	-14.18	-20.25
GEW-067A	10/16/2020 7:08:01 AM	11.9	54.4	0.3	33.4	162.4	161.1	8.74	4.23	4.09	4.22	-20.59
GEW-067A	10/16/2020 4:43:38 PM	7.2	59.9	0.0	32.9	62.1	62.1	4.07	3.15	26.34	26.34	-20.04
GEW-067A	10/16/2020 4:47:14 PM	7.0	61.9	0.0	31.1	197.2	197.2	12.11	11.09	-3.57	-3.72	-20.13
GEW-068A	10/12/2020 8:25:24 AM	18.8	50.2	0.1	30.9	173.1	173.1	25.04	25.65	-8.10	-8.10	-19.41
GEW-068A	10/12/2020 8:31:34 AM	18.1	50.5	0.0	31.4	173.1	173.1	25.55	26.61	-8.10	-8.10	-19.20
GEW-068A	10/26/2020 8:44:58 AM	21.5	47.7	0.0	30.8	166.1	166.1	25.06	25.49	-9.11	-9.11	-20.20
GEW-068A	10/26/2020 8:45:47 AM	21.2	48.9	0.0	29.9	166.4	166.5	25.44	25.07	-9.11	-9.11	-19.83
GEW-078R	10/7/2020 2:48:53 PM	25.7	40.2	0.0	34.1	160.2	159.8	33.51	32.77	-8.44	-8.44	-18.94
GEW-078R	10/7/2020 2:56:23 PM	26.4	39.6	0.0	34.0	160.7	159.0	33.54	34.31	-8.44	-8.44	-18.86
GEW-078R	10/19/2020 3:27:48 PM	23.8	40.0	0.0	36.2	154.7	154.8	32.82	33.73	-9.71	-9.71	-19.20
GEW-078R	10/19/2020 3:28:36 PM	24.5	40.4	0.0	35.1	154.8	154.8	32.92	32.95	-9.71	-9.71	-19.15
GEW-082R	10/7/2020 3:12:05 PM	11.0	36.6	0.0	52.4	173.1	172.9	3.81	4.82	-4.92	-4.93	-18.73
GEW-082R	10/7/2020 3:18:44 PM	11.3	37.0	0.0	51.7	173.1	173.1	6.07	3.68	-4.60	-4.60	-18.86
GEW-082R	10/19/2020 3:02:21 PM	10.0	39.4	0.0	50.6	170.5	170.5	0.99	1.71	-4.82	-4.82	-19.58
GEW-082R	10/19/2020 3:03:22 PM	9.8	38.8	0.0	51.4	170.5	170.5	4.74	4.74	-4.86	-4.86	-19.53
GEW-086	10/5/2020 2:23:00 PM	6.3	19.5	7.8	66.4	142.3	142.2	20.36	20.70	-4.78	-4.79	-19.49
GEW-086	10/5/2020 2:30:05 PM	6.5	17.6	7.9	68.0	141.9	142.2	17.46	17.45	-3.81	-3.81	-20.04
GEW-086	10/19/2020 10:35:20 AM	6.3	16.4	9.1	68.2	139.6	139.6	17.43	17.43	-3.91	-3.91	-19.87
GEW-086	10/19/2020 10:36:58 AM	5.9	17.5	9.2	67.4	138.7	138.7	14.34	14.68	-2.94	-2.98	-19.37
GEW-087	10/7/2020 9:19:33 AM	5.8	71.6	0.0	22.6	203.0	202.5	40.43	40.75	-1.05	-1.02	-18.90
GEW-087	10/7/2020 9:27:02 AM	6.2	71.1	0.0	22.7	202.4	202.4	40.37	41.99	-1.68	-1.68	-18.82
GEW-087	10/19/2020 1:42:22 PM	8.0	68.6	0.0	23.4	201.6	201.6	43.88	43.88	-3.27	-3.27	-18.90
GEW-087	10/19/2020 1:44:14 PM	8.0	68.9	0.0	23.1	201.6	201.6	44.56	43.95	-3.44	-3.41	-19.96
GEW-088	10/5/2020 2:11:53 PM	1.9	51.4	0.1	46.6	170.0	169.1	4.24	4.59	-0.35	-0.36	-19.07
GEW-088	10/5/2020 2:18:43 PM	1.8	48.5	0.0	49.7	171.2	171.6	7.80	4.89	-0.26	-0.26	-19.24
GEW-088	10/16/2020 7:16:27 AM	2.5	48.5	0.7	48.3	165.7	165.7	5.31	4.92	-1.47	-1.43	-20.38
GEW-088	10/16/2020 7:18:57 AM	2.3	51.3	0.5	45.9	152.0	151.7	11.95	1.79	0.88	0.93	-20.34
GEW-088	10/16/2020 4:27:37 PM	2.1	45.5	0.1	52.3	68.5	68.4	1.70	2.94	2.57	2.58	-19.62

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		(% vol)				°F		scfm		H ₂ O		
GEW-088	10/16/2020 4:29:41 PM	2.2	54.4	0.0	43.4	121.6	124.7	7.65	6.74	-5.15	-5.15	-19.66
GEW-090	10/5/2020 3:09:41 PM	30.1	42.7	0.0	27.2	162.4	161.6	4.85	5.69	-9.37	-9.37	-18.90
GEW-090	10/5/2020 3:16:35 PM	30.3	42.6	0.0	27.1	162.3	162.2	5.77	7.21	-9.37	-9.37	-19.11
GEW-090	10/19/2020 10:45:41 AM	27.8	41.5	0.0	30.7	159.8	159.4	7.67	4.86	-10.72	-10.72	-19.24
GEW-090	10/19/2020 10:46:59 AM	27.7	41.0	0.0	31.3	159.8	159.7	5.78	5.43	-10.72	-10.72	-19.24
GEW-091	10/7/2020 1:55:14 PM	5.2	56.2	0.4	38.2	195.7	195.7	18.96	18.96	-8.44	-8.44	-18.85
GEW-091	10/7/2020 1:56:06 PM	3.0	57.0	0.4	39.6	196.4	196.4	24.22	21.78	-5.40	-5.53	-18.67
GEW-091	10/14/2020 10:19:32 AM	2.2	55.5	0.3	42.0	197.9	198.6	24.37	24.49	-4.19	-4.19	-18.82
GEW-091	10/14/2020 10:26:08 AM	2.3	58.9	0.2	38.6	198.6	198.6	25.05	25.77	-1.62	-1.63	-18.73
GEW-091	10/19/2020 9:37:06 AM	3.1	51.2	0.2	45.5	193.6	192.5	22.01	22.47	-5.99	-5.99	-19.11
GEW-091	10/19/2020 9:38:05 AM	2.6	53.5	0.2	43.7	193.6	192.9	22.70	22.56	-5.99	-5.99	-19.32
GEW-091	10/28/2020 2:06:26 PM	4.0	52.6	0.4	43.0	196.4	196.4	25.06	20.56	-9.46	-9.46	-19.03
GEW-091	10/28/2020 2:07:58 PM	3.5	55.8	0.5	40.2	196.4	196.4	22.01	23.33	-9.79	-9.79	-19.20
GEW-100	10/9/2020 2:42:05 PM	20.6	61.9	0.4	17.1	173.1	173.1	10.81	10.86	-13.38	-13.38	-19.28
GEW-100	10/9/2020 2:48:44 PM	19.6	63.3	0.6	16.5	173.1	173.2	5.27	5.19	-13.51	-13.51	-19.24
GEW-100	10/22/2020 8:31:32 AM	20.3	65.9	0.1	13.7	165.7	165.7	12.22	10.60	-13.17	-13.17	-17.63
GEW-100	10/22/2020 8:32:44 AM	20.4	66.9	0.0	12.7	166.1	166.1	11.86	11.65	-13.17	-13.17	-17.59
GEW-101	10/9/2020 3:22:43 PM	32.3	57.1	1.1	9.5	99.9	99.9	6.46	6.56	-0.55	-0.55	-19.41
GEW-101	10/9/2020 3:27:39 PM	32.3	56.7	1.1	9.9	98.0	98.1	7.49	5.75	-0.56	-0.56	-19.28
GEW-101	10/30/2020 9:40:48 AM	38.0	59.7	0.0	2.3	65.1	65.2	7.64	4.52	-0.46	-0.40	-13.95
GEW-102	10/9/2020 2:46:03 PM	26.4	36.9	3.8	32.9	88.9	88.9	2.08	0.71	-17.88	-17.88	-18.24
GEW-102	10/9/2020 2:51:20 PM	29.9	38.9	2.1	29.1	89.8	89.8	1.51	1.82	-17.88	-17.88	-18.24
GEW-102	10/24/2020 6:34:35 AM	31.0	40.7	3.6	24.7	42.2	42.2	0.42	0.86	-16.88	-16.88	-17.42
GEW-102	10/24/2020 6:36:48 AM	32.5	42.9	2.8	21.8	42.4	42.4	0.44	0.40	-15.53	-15.53	-17.67
GEW-102	10/24/2020 11:42:46 AM	45.4	46.9	0.0	7.7	52.3	52.4	0.22	0.13	6.71	6.71	-19.24
GEW-102	10/24/2020 11:45:50 AM	46.0	46.6	0.0	7.4	52.5	52.4	0.38	0.38	-10.13	-10.13	-19.37
GEW-104	10/9/2020 1:40:57 PM	3.9	60.3	0.0	35.8	184.5	184.5	17.59	20.21	-0.64	-0.66	-18.97
GEW-104	10/9/2020 1:46:54 PM	3.5	61.3	0.0	35.2	185.1	185.1	16.65	13.29	-0.60	-0.63	-18.79
GEW-104	10/21/2020 12:47:02 PM	19.0	50.3	0.4	30.3	187.0	187.0	39.48	39.31	-6.12	-6.04	-19.53
GEW-104	10/21/2020 12:49:27 PM	16.5	53.8	0.1	29.6	154.4	148.4	36.15	36.52	-2.15	-2.15	-19.53
GEW-104	10/21/2020 2:40:14 PM	5.2	61.1	0.0	33.7	60.2	60.2	38.22	37.65	-1.42	-1.37	-19.66
GEW-104	10/21/2020 2:42:25 PM	2.8	62.4	0.1	34.7	103.3	107.0	40.61	40.02	-6.12	-6.12	-19.66
GEW-105	10/9/2020 9:00:04 AM	43.6	47.0	0.0	9.4	119.3	119.2	8.25	7.75	-8.06	-8.06	-19.58
GEW-105	10/9/2020 9:06:29 AM	44.0	44.7	0.0	11.3	120.5	120.2	8.02	7.42	-8.27	-8.27	-19.40
GEW-105	10/21/2020 6:59:36 AM	46.3	45.0	0.0	8.7	114.8	114.8	7.00	7.25	-6.21	-6.37	-19.32
GEW-105	10/21/2020 7:02:31 AM	46.6	44.6	0.0	8.8	99.4	99.0	1.95	1.60	0.08	0.06	-19.28
GEW-105	10/21/2020 3:33:00 PM	52.7	44.3	0.0	3.0	60.2	60.2	7.69	5.96	1.26	1.28	-19.96
GEW-105	10/21/2020 3:34:33 PM	53.4	43.5	0.0	3.1	69.1	69.2	10.42	5.57	-1.64	-1.59	-19.96
GEW-106	10/9/2020 8:41:25 AM	15.3	47.0	3.6	34.1	133.2	133.5	2.13	2.13	-2.07	-2.07	-19.28
GEW-106	10/9/2020 8:47:19 AM	15.3	45.4	3.4	35.9	136.3	136.2	3.00	4.97	-2.05	-2.08	-19.52

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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-106	10/21/2020 2:50:14 PM	13.8	43.1	4.1	39.0	127.5	127.8	1.85	3.02	-1.43	-1.48	-19.45
GEW-107	10/9/2020 8:06:45 AM	42.5	51.4	0.0	6.1	122.9	122.9	5.77	6.83	-1.14	-1.15	-19.40
GEW-107	10/9/2020 8:12:24 AM	42.7	49.4	0.0	7.9	123.4	123.5	6.82	6.82	-1.14	-1.15	-19.28
GEW-107	10/15/2020 7:47:02 AM	43.7	50.2	0.0	6.1	112.2	112.2	9.04	15.44	-1.19	-1.19	-20.30
GEW-107	10/15/2020 7:49:26 AM	43.7	50.5	0.0	5.8	92.2	91.7	10.85	12.15	0.19	0.20	-20.30
GEW-107	10/15/2020 2:03:39 PM	35.5	54.3	0.0	10.2	60.7	60.8	11.86	9.54	0.13	0.14	-19.79
GEW-107	10/15/2020 2:06:04 PM	37.8	53.5	0.0	8.7	94.1	94.5	3.79	8.04	-3.06	-3.08	-19.83
GEW-107	10/29/2020 3:42:43 PM	44.5	50.3	0.0	5.2	113.2	113.5	20.78	20.27	-2.02	-2.04	-19.22
GEW-108	10/7/2020 2:06:51 PM	42.8	44.5	0.0	12.7	140.9	141.2	2.97	2.97	-2.56	-2.57	-18.60
GEW-108	10/7/2020 2:07:58 PM	42.6	44.8	0.0	12.6	141.5	141.5	6.47	2.97	-2.62	-2.57	-18.60
GEW-108	10/14/2020 9:04:02 AM	41.4	46.4	0.0	12.2	143.8	143.9	2.33	1.80	-1.42	-1.42	-18.69
GEW-108	10/14/2020 9:10:05 AM	41.9	46.0	0.0	12.1	143.9	143.9	2.75	2.94	-1.59	-1.59	-18.48
GEW-108	10/19/2020 9:23:58 AM	42.5	43.1	0.0	14.4	122.6	123.4	3.23	4.93	-1.97	-1.98	-19.41
GEW-108	10/28/2020 1:51:53 PM	41.6	43.2	0.0	15.2	137.1	136.8	11.04	11.05	-1.25	-1.25	-18.90
GEW-108	10/28/2020 1:53:33 PM	41.4	44.5	0.0	14.1	137.4	137.7	11.24	7.73	-1.24	-1.23	-19.03
GEW-109	10/7/2020 2:20:31 PM	42.9	43.7	1.0	12.4	104.0	103.8	6.53	3.54	-2.02	-1.96	-18.85
GEW-109	10/13/2020 2:40:37 PM	44.7	40.0	1.0	14.3	95.9	96.0	3.39	3.19	-2.07	-2.06	-19.24
GEW-109	10/13/2020 2:45:53 PM	43.9	40.0	0.8	15.3	96.3	96.2	2.52	1.60	-2.07	-2.07	-20.30
GEW-109	10/19/2020 9:21:13 AM	45.1	39.5	0.0	15.4	53.9	54.0	2.72	3.65	-3.07	-3.06	-17.21
GEW-109	10/28/2020 1:49:25 PM	44.1	38.0	0.8	17.1	62.6	62.7	1.20	1.20	-2.37	-2.37	-18.77
GEW-110	10/7/2020 11:52:40 AM	47.2	41.6	0.0	11.2	110.0	109.9	4.57	4.83	-2.27	-2.27	-18.79
GEW-110	10/13/2020 2:01:33 PM	45.5	41.9	0.0	12.6	108.6	108.5	4.93	6.24	-2.26	-2.25	-20.30
GEW-110	10/13/2020 2:07:12 PM	45.9	40.1	0.0	14.0	109.0	109.0	3.82	4.54	-2.34	-2.34	-20.51
GEW-110	10/19/2020 9:11:03 AM	46.6	42.1	0.0	11.3	82.1	82.1	1.63	2.58	-2.54	-2.53	-19.70
GEW-110	10/28/2020 10:52:48 AM	46.3	44.4	0.0	9.3	97.0	97.2	2.98	3.73	-2.19	-2.19	-18.73
GEW-113	10/7/2020 8:50:19 AM	13.9	64.3	0.4	21.4	177.5	177.5	10.47	10.24	-1.64	-1.64	-19.49
GEW-113	10/7/2020 8:55:59 AM	14.5	63.8	0.5	21.2	177.5	177.5	11.10	9.55	-1.68	-1.69	-19.49
GEW-113	10/19/2020 2:04:26 PM	14.5	62.0	0.6	22.9	175.3	175.3	10.65	9.28	-1.57	-1.56	-19.70
GEW-113	10/19/2020 2:05:13 PM	14.3	62.9	0.5	22.3	175.3	175.3	9.38	10.23	-1.57	-1.57	-19.58
GEW-116	10/7/2020 2:32:28 PM	28.6	54.9	0.4	16.1	144.9	144.5	13.46	10.73	-0.49	-0.49	-15.90
GEW-116	10/7/2020 2:38:13 PM	29.8	52.3	0.4	17.5	143.9	143.9	13.44	13.40	-0.53	-0.53	-14.16
GEW-116	10/13/2020 7:51:04 AM	28.3	60.8	0.4	10.5	137.1	137.1	10.35	3.97	-0.49	-0.51	-13.16
GEW-116	10/13/2020 7:52:44 AM	28.8	58.0	0.3	12.9	118.0	117.1	2.46	1.90	0.29	0.29	-15.12
GEW-116	10/13/2020 3:21:58 PM	27.5	72.5	0.0	0.0	90.7	90.8	7.21	4.47	0.46	0.46	-16.16
GEW-116	10/13/2020 3:25:28 PM	34.2	65.8	0.0	0.0	110.7	111.2	17.42	12.94	-0.66	-0.62	-13.65
GEW-116	10/19/2020 2:49:26 PM	27.9	54.4	0.5	17.2	133.0	132.9	12.66	11.54	-0.57	-0.56	-17.38
GEW-116	10/19/2020 2:50:19 PM	28.2	55.4	0.5	15.9	132.9	133.2	12.79	10.40	-0.56	-0.56	-18.39
GEW-117	10/8/2020 9:54:51 AM	33.5	53.1	0.0	13.4	130.9	131.1	7.90	8.09	-14.86	-14.86	-19.11
GEW-117	10/8/2020 10:17:10 AM	39.1	57.0	0.0	3.9	143.9	144.2	4.65	4.64	-11.86	-11.86	-18.65
GEW-117	10/19/2020 3:57:50 PM	34.8	55.8	0.0	9.4	136.4	136.5	1.78	2.72	-11.61	-11.61	-19.75

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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-117	10/19/2020 3:58:44 PM	35.3	56.6	0.0	8.1	136.5	136.3	3.08	3.08	-11.61	-11.61	-19.92
GEW-118	10/9/2020 7:02:28 AM	5.3	57.0	0.0	37.7	192.9	192.9	15.81	16.81	-5.95	-5.95	-19.37
GEW-118	10/9/2020 7:08:16 AM	6.3	52.2	0.0	41.5	192.3	192.3	15.62	14.76	-6.92	-6.92	-19.37
GEW-118	10/19/2020 4:26:42 PM	2.5	68.1	0.0	29.4	202.6	202.4	19.07	19.59	0.20	0.21	-19.83
GEW-118	10/19/2020 4:28:39 PM	2.7	65.4	0.0	31.9	203.0	203.0	21.22	21.52	-0.52	-0.50	-19.58
GEW-120	10/8/2020 10:22:46 AM	35.5	47.1	0.6	16.8	117.3	117.3	19.06	19.39	-7.43	-7.43	-19.41
GEW-120	10/8/2020 10:28:49 AM	35.9	46.1	0.6	17.4	117.3	117.3	18.61	19.74	-7.43	-7.43	-19.11
GEW-120	10/29/2020 1:55:02 PM	26.3	36.9	1.2	35.6	110.5	110.5	18.30	18.30	-8.53	-8.53	-20.13
GEW-121	10/8/2020 10:43:28 AM	37.1	52.2	0.0	10.7	132.3	132.6	5.19	4.97	-2.10	-2.10	-17.93
GEW-121	10/8/2020 10:50:34 AM	37.0	52.3	0.0	10.7	132.6	132.6	2.59	4.61	-2.13	-2.12	-17.93
GEW-121	10/19/2020 4:01:55 PM	36.7	52.8	0.0	10.5	115.5	115.5	3.62	4.36	-2.08	-2.07	-19.45
GEW-122	10/8/2020 2:59:27 PM	41.6	41.1	0.0	17.3	106.2	105.6	4.40	4.67	-5.07	-5.07	-18.69
GEW-122	10/8/2020 3:07:17 PM	43.3	37.7	0.0	19.0	105.0	104.5	13.59	12.87	-5.07	-5.07	-18.65
GEW-122	10/29/2020 10:55:30 AM	42.3	40.1	0.0	17.6	56.5	56.5	22.60	22.81	-7.04	-6.79	-18.67
GEW-122	10/29/2020 11:02:23 AM	42.7	39.1	0.0	18.2	56.3	56.3	29.29	29.29	-6.92	-6.92	-18.91
GEW-123	10/8/2020 1:45:59 PM	32.1	60.8	0.4	6.7	101.1	101.1	13.42	11.28	-0.54	-0.54	-19.28
GEW-123	10/8/2020 1:52:42 PM	32.5	60.2	0.0	7.3	98.4	98.0	16.19	14.28	-0.49	-0.49	-19.32
GEW-123	10/14/2020 6:59:19 AM	35.8	61.1	0.0	3.1	50.2	50.1	3.27	3.70	-0.42	-0.42	-19.75
GEW-123	10/14/2020 7:01:50 AM	35.2	63.6	0.0	1.2	49.9	49.9	2.76	3.71	-0.26	-0.26	-19.96
GEW-123	10/14/2020 5:15:51 PM	35.6	63.5	0.0	0.9	86.8	86.8	5.19	4.79	-0.06	-0.03	-20.44
GEW-123	10/14/2020 5:17:14 PM	35.1	63.0	0.0	1.9	88.9	88.9	4.47	4.32	-1.20	-1.20	-20.56
GEW-123	10/29/2020 2:00:24 PM	33.0	55.8	0.0	11.2	53.9	54.0	22.17	19.62	-1.73	-1.72	-19.15
GEW-124	10/8/2020 2:11:11 PM	38.3	32.4	5.5	23.8	90.8	90.7	0.27	0.45	-18.24	-18.24	-19.24
GEW-124	10/8/2020 2:18:42 PM	40.7	32.6	4.8	21.9	89.7	89.7	0.45	0.50	-18.24	-18.24	-19.03
GEW-124	10/14/2020 7:05:55 AM	40.1	35.8	5.2	18.9	50.8	50.9	0.18	0.18	-19.92	-19.92	-19.96
GEW-124	10/14/2020 7:09:07 AM	2.0	7.1	20.8	70.1	51.5	51.5	0.31	0.34	-1.69	-1.69	-19.96
GEW-124	10/14/2020 5:24:47 PM	49.0	40.2	0.9	9.9	86.5	86.5	1.15	1.16	41.33	41.37	-20.26
GEW-124	10/14/2020 5:27:14 PM	50.7	39.7	0.3	9.3	88.7	88.7	1.51	1.53	-9.49	-9.57	-20.26
GEW-124	10/17/2020 7:03:39 AM	48.0	38.7	2.7	10.6	49.5	49.4	0.28	0.25	-20.18	-20.05	-20.04
GEW-124	10/17/2020 7:05:46 AM	49.9	39.6	2.0	8.5	49.0	49.0	0.22	0.18	-19.46	-19.59	-20.30
GEW-124	10/17/2020 2:39:00 PM	51.5	42.6	0.6	5.3	72.9	73.0	0.54	0.54	37.12	37.12	-19.46
GEW-124	10/17/2020 2:41:22 PM	51.6	41.9	0.5	6.0	76.4	76.4	1.38	1.40	-8.10	-8.18	-19.16
GEW-125	10/9/2020 9:10:00 AM	44.0	49.6	0.0	6.4	83.7	83.7	2.57	2.57	-3.78	-3.78	-18.77
GEW-125	10/9/2020 9:15:43 AM	44.2	51.5	0.0	4.3	84.2	84.2	3.44	3.25	-3.81	-3.81	-18.60
GEW-125	10/29/2020 2:22:47 PM	55.1	41.9	0.3	2.7	56.0	55.9	3.82	4.18	-4.93	-4.95	-19.37
GEW-126	10/9/2020 9:27:15 AM	30.0	54.0	0.0	16.0	94.4	94.5	17.48	15.46	-5.74	-5.74	-18.60
GEW-126	10/9/2020 9:33:11 AM	29.6	56.8	0.1	13.5	94.8	94.8	21.58	22.13	-5.78	-5.78	-18.35
GEW-126	10/17/2020 7:38:24 AM	28.5	54.9	0.3	16.3	64.2	64.2	12.81	13.08	-6.42	-6.46	-20.30
GEW-126	10/17/2020 7:41:08 AM	28.2	54.8	1.3	15.7	55.7	55.7	1.73	1.73	-0.29	-0.29	-20.30
GEW-126	10/17/2020 1:54:45 PM	32.4	61.9	0.0	5.7	71.8	71.8	2.55	6.81	0.15	0.14	-19.71

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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-126	10/17/2020 1:56:17 PM	31.4	63.0	0.3	5.3	72.2	72.1	4.38	2.81	-0.72	-0.73	-19.77
GEW-126	10/22/2020 9:07:08 AM	25.5	61.8	0.2	12.5	76.2	76.4	3.71	2.62	-0.70	-0.69	-17.59
GEW-126	10/22/2020 9:08:37 AM	25.9	63.7	0.0	10.4	76.6	76.6	8.79	7.43	-0.31	-0.30	-17.59
GEW-126	10/22/2020 5:31:07 PM	37.7	62.0	0.3	0.0	85.4	85.6	2.00	2.83	-0.05	-0.05	-19.70
GEW-126	10/22/2020 5:32:43 PM	36.5	63.1	0.4	0.0	87.0	87.0	2.30	1.15	-0.78	-0.77	-19.49
GEW-127	10/9/2020 10:17:00 AM	23.2	48.4	2.3	26.1	101.1	100.9	8.33	7.78	-0.42	-0.42	-17.93
GEW-127	10/9/2020 10:23:37 AM	22.9	50.1	2.2	24.8	100.2	100.1	36.27	36.11	-0.23	-0.24	-17.93
GEW-127	10/30/2020 10:05:18 AM	19.9	44.7	3.4	32.0	71.1	71.1	23.28	22.52	-0.77	-0.77	-18.60
GEW-129	10/9/2020 10:42:47 AM	43.0	54.0	0.0	3.0	122.2	122.3	24.54	25.18	-3.91	-3.90	-18.22
GEW-129	10/9/2020 10:49:01 AM	44.3	53.7	0.0	2.0	122.9	122.9	25.01	25.08	-3.95	-3.94	-18.01
GEW-129	10/30/2020 10:15:35 AM	37.9	52.3	0.0	9.8	109.7	109.7	24.38	24.16	-3.66	-3.66	-18.48
GEW-130	10/9/2020 9:48:31 AM	27.8	47.4	0.0	24.8	150.6	151.0	4.39	2.66	-10.47	-10.47	-18.65
GEW-130	10/9/2020 9:54:01 AM	27.9	47.7	0.0	24.4	151.3	151.3	7.45	8.10	-10.47	-10.47	-17.00
GEW-130	10/19/2020 4:38:20 PM	28.3	47.1	0.0	24.6	146.1	146.4	5.46	7.78	-10.72	-10.72	-19.75
GEW-130	10/19/2020 4:39:54 PM	28.9	46.7	0.0	24.4	146.6	146.3	3.65	4.41	-10.72	-10.72	-18.86
GEW-131	10/9/2020 9:01:47 AM	44.0	47.3	0.0	8.7	110.0	108.7	3.93	4.09	-6.33	-6.33	-18.60
GEW-131	10/9/2020 9:06:35 AM	44.7	46.3	0.0	9.0	125.3	125.6	3.68	3.18	-5.87	-5.87	-18.48
GEW-131	10/29/2020 2:35:27 PM	45.8	42.8	0.0	11.4	114.8	115.0	3.05	3.05	-7.34	-7.34	-18.94
GEW-132	10/8/2020 3:36:25 PM	15.8	35.2	0.2	48.8	140.2	140.0	4.18	3.77	-1.73	-1.73	-19.15
GEW-132	10/8/2020 3:44:01 PM	15.9	34.4	0.2	49.5	140.6	140.4	4.05	4.18	-1.75	-1.73	-19.41
GEW-132	10/19/2020 4:08:31 PM	17.2	37.4	0.1	45.3	127.5	127.3	2.62	3.38	-1.61	-1.61	-19.41
GEW-133	10/7/2020 2:21:03 PM	5.1	42.5	0.0	52.4	132.3	132.3	18.07	18.59	-1.31	-1.32	-15.98
GEW-133	10/7/2020 2:27:46 PM	5.4	42.5	0.0	52.1	132.9	132.6	37.74	37.76	-1.28	-1.28	-17.17
GEW-133	10/13/2020 7:55:00 AM	7.0	44.9	0.0	48.1	94.6	94.6	8.30	2.55	-1.45	-1.43	-18.24
GEW-133	10/13/2020 7:56:43 AM	6.0	44.6	0.5	48.9	88.9	88.1	29.87	29.92	-0.24	-0.24	-17.69
GEW-133	10/13/2020 3:29:07 PM	6.4	47.2	0.0	46.4	88.7	83.4	7.05	4.01	0.38	0.30	-17.56
GEW-133	10/13/2020 3:30:53 PM	2.5	68.8	0.0	28.7	92.2	92.5	19.90	19.90	-1.67	-1.67	-17.20
GEW-133	10/19/2020 2:52:55 PM	9.0	45.3	0.0	45.7	70.4	70.4	20.05	20.05	-1.79	-1.79	-15.26
GEW-134	10/7/2020 2:00:39 PM	8.1	48.6	0.0	43.3	107.2	107.3	4.01	3.52	-0.06	-0.05	-18.77
GEW-134	10/7/2020 2:05:41 PM	8.2	48.3	0.0	43.5	111.4	111.5	2.92	2.70	-0.06	-0.06	-19.15
GEW-134	10/13/2020 7:46:41 AM	8.6	45.7	0.0	45.7	51.8	51.7	4.11	3.04	-0.08	-0.08	-19.95
GEW-134	10/13/2020 7:48:05 AM	8.5	47.1	0.0	44.4	51.8	51.8	5.41	5.41	-0.01	-0.01	-19.95
GEW-134	10/13/2020 3:17:21 PM	3.9	61.9	0.0	34.2	93.4	93.6	8.96	5.50	0.06	0.11	-20.07
GEW-134	10/13/2020 3:19:06 PM	4.0	62.5	0.0	33.5	95.8	95.8	4.98	5.10	-0.31	-0.34	-19.95
GEW-134	10/29/2020 11:19:15 AM	9.6	39.1	0.2	51.1	50.5	50.6	2.76	1.23	-0.46	-0.47	-18.99
GEW-135	10/7/2020 11:34:08 AM	12.8	56.6	0.0	30.6	125.0	125.8	1.87	1.86	-0.22	-0.22	-15.64
GEW-135	10/7/2020 11:40:56 AM	13.5	54.2	0.0	32.3	127.5	127.5	25.04	25.65	-1.09	-1.12	-17.04
GEW-135	10/13/2020 7:34:43 AM	3.5	54.2	0.1	42.2	91.7	91.7	27.61	29.13	-1.20	-1.30	-18.48
GEW-135	10/13/2020 7:36:28 AM	3.4	56.2	0.0	40.4	81.7	81.0	27.99	22.57	-0.95	-0.63	-17.99
GEW-135	10/13/2020 2:59:19 PM	2.3	59.2	0.0	38.5	91.5	83.5	11.38	10.99	0.13	0.14	-18.97

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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	10/13/2020 3:00:59 PM	2.1	62.8	0.0	35.1	106.5	107.2	2.50	3.17	-0.46	-0.43	-17.93
GEW-135	10/29/2020 11:12:44 AM	5.8	48.9	0.1	45.2	80.3	80.4	3.08	2.02	-0.59	-0.60	-17.34
GEW-137	10/7/2020 9:48:03 AM	41.4	45.4	0.0	13.2	86.1	85.8	1.15	1.15	-2.05	-2.05	-18.73
GEW-137	10/7/2020 9:53:46 AM	41.7	43.5	0.0	14.8	87.2	87.2	1.62	1.62	-2.11	-2.11	-18.48
GEW-137	10/22/2020 6:28:58 AM	42.8	44.2	0.0	13.0	67.6	67.7	0.00	1.19	-1.91	-1.90	-18.35
GEW-137	10/22/2020 6:32:41 AM	42.6	43.9	0.0	13.5	64.0	64.0	0.00	1.20	-0.26	-0.26	-16.07
GEW-137	10/22/2020 1:19:21 PM	47.2	42.3	0.0	10.5	93.6	93.8	4.56	3.42	0.39	0.40	-18.73
GEW-137	10/22/2020 1:21:04 PM	49.3	41.3	0.0	9.4	93.9	93.9	0.00	1.13	-1.39	-1.39	-18.56
GEW-139	10/9/2020 7:51:10 AM	15.3	43.6	3.9	37.2	138.3	138.7	2.10	1.82	-2.15	-2.15	-18.60
GEW-139	10/9/2020 7:56:55 AM	15.8	45.5	3.1	35.6	136.0	135.9	2.11	2.11	-2.05	-2.05	-18.94
GEW-139	10/22/2020 8:37:37 AM	17.6	52.0	1.4	29.0	137.4	137.4	1.05	1.05	-1.64	-1.62	-17.59
GEW-139	10/22/2020 8:40:34 AM	17.9	52.0	1.2	28.9	138.0	138.1	2.35	2.35	-1.61	-1.61	-17.59
GEW-140	10/9/2020 8:12:10 AM	16.1	52.7	0.0	31.2	65.6	65.6	2.39	3.16	-1.21	-1.21	-17.04
GEW-140	10/9/2020 8:18:00 AM	16.6	54.9	0.0	28.5	66.8	66.8	1.19	1.19	-1.22	-1.22	-17.04
GEW-140	10/30/2020 10:22:59 AM	15.4	52.9	0.0	31.7	62.3	62.4	7.38	4.70	-0.81	-0.77	-17.01
GEW-144	10/12/2020 8:04:06 AM	51.0	48.9	0.1	0.0	70.5	70.5	13.53	13.26	-0.86	-0.86	-18.94
GEW-144	10/12/2020 8:10:12 AM	52.2	47.0	0.1	0.7	70.7	70.7	5.91	5.91	-2.20	-2.20	-19.15
GEW-144	10/30/2020 10:08:21 AM	44.8	40.4	2.7	12.1	53.1	53.1	0.52	0.51	-11.64	-11.60	-19.03
GEW-145	10/9/2020 2:55:01 PM	36.0	48.0	0.0	16.0	92.9	92.9	8.51	2.20	-17.55	-17.55	-18.24
GEW-145	10/9/2020 3:01:07 PM	35.9	47.2	0.0	16.9	92.9	92.9	4.53	3.11	-17.59	-17.63	-18.24
GEW-145	10/24/2020 6:24:36 AM	37.4	45.3	0.2	17.1	44.7	44.7	3.60	6.12	-15.87	-15.87	-17.59
GEW-145	10/24/2020 6:27:48 AM	4.3	10.5	19.2	66.0	44.4	44.4	2.10	4.37	-12.16	-12.16	-17.51
GEW-145	10/24/2020 11:49:01 AM	37.4	46.5	0.0	16.1	53.9	54.1	3.52	3.05	6.04	6.04	-19.28
GEW-145	10/24/2020 11:51:18 AM	37.3	47.8	0.0	14.9	60.0	59.7	6.19	6.20	-14.18	-14.18	-19.41
GEW-147	10/7/2020 10:47:56 AM	19.5	48.0	0.4	32.1	158.6	158.7	16.03	16.37	-7.09	-7.09	-18.86
GEW-147	10/7/2020 10:54:11 AM	21.4	47.2	0.4	31.0	159.0	159.0	18.16	16.66	-7.09	-7.09	-18.86
GEW-147	10/19/2020 1:53:12 PM	18.3	48.4	0.3	33.0	159.4	159.4	17.14	17.32	-8.02	-8.02	-19.96
GEW-147	10/19/2020 1:53:58 PM	18.5	48.4	0.3	32.8	159.4	159.8	17.63	17.67	-8.02	-8.02	-19.70
GEW-148	10/7/2020 9:10:05 AM	18.2	59.2	0.0	22.6	104.0	103.2	7.97	7.24	-0.97	-0.98	-18.73
GEW-148	10/7/2020 9:15:50 AM	18.2	58.2	0.0	23.6	106.3	106.5	2.71	2.71	-2.09	-2.09	-18.99
GEW-148	10/16/2020 9:45:53 AM	19.7	58.8	0.1	21.4	82.3	82.3	8.11	11.23	-1.66	-1.67	-19.53
GEW-148	10/16/2020 9:47:56 AM	19.5	58.7	0.0	21.8	80.7	80.5	5.35	2.02	0.44	0.45	-19.70
GEW-148	10/16/2020 5:06:14 PM	10.6	64.4	0.0	25.0	69.5	69.5	8.81	6.35	2.83	2.84	-20.04
GEW-148	10/16/2020 5:08:34 PM	10.5	66.7	0.0	22.8	77.7	78.2	10.04	12.50	-7.47	-7.43	-20.42
GEW-149	10/5/2020 9:28:35 AM	6.6	25.8	1.0	66.6	64.2	64.2	4.52	4.19	-0.08	-0.08	-19.84
GEW-149	10/5/2020 10:48:34 AM	7.5	22.9	0.9	68.7	69.5	69.5	2.68	2.68	-0.05	-0.05	-19.08
GEW-149	10/5/2020 1:28:42 PM	9.5	22.1	0.0	68.4	73.9	73.9	1.18	2.05	-0.02	-0.02	-19.24
GEW-149	10/5/2020 1:35:01 PM	9.6	22.0	0.0	68.4	73.8	73.8	1.18	1.18	-0.03	-0.03	-18.99
GEW-149	10/29/2020 8:49:17 AM	14.6	30.2	0.0	55.2	48.2	48.2	3.72	3.28	-0.21	-0.22	-18.77
GEW-150	10/9/2020 1:31:38 PM	39.0	47.8	0.0	13.2	154.4	154.4	15.39	15.01	-1.06	-1.02	-18.85

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		(% vol)				°F		scfm		H ₂ O		
GEW-150	10/9/2020 1:37:57 PM	38.5	46.4	0.0	15.1	156.1	156.5	10.93	7.92	-1.02	-0.98	-18.85
GEW-150	10/21/2020 2:45:02 PM	32.9	52.4	0.1	14.6	153.4	153.6	22.24	22.46	-1.38	-1.40	-19.37
GEW-150	10/21/2020 2:46:31 PM	33.5	51.1	0.1	15.3	154.4	154.8	22.48	21.54	-1.40	-1.35	-19.58
GEW-151	10/5/2020 2:02:35 PM	8.8	39.4	3.8	48.0	86.3	86.5	2.00	3.46	-0.03	-0.03	-18.90
GEW-151	10/5/2020 2:07:41 PM	8.9	36.5	3.8	50.8	87.2	87.2	4.15	3.46	-0.04	-0.03	-18.77
GEW-151	10/16/2020 7:11:22 AM	5.4	32.3	6.7	55.6	41.4	41.3	0.00	0.00	-0.22	-0.23	-20.63
GEW-151	10/16/2020 7:13:11 AM	5.3	31.0	6.8	56.9	40.3	40.3	1.26	0.00	-0.11	-0.11	-20.34
GEW-151	10/16/2020 4:32:28 PM	10.9	55.6	0.0	33.5	63.6	63.5	3.19	1.70	0.13	0.15	-19.66
GEW-151	10/16/2020 4:34:08 PM	11.4	54.6	0.0	34.0	64.5	64.7	4.65	1.20	-0.17	-0.19	-19.66
GEW-152	10/9/2020 8:15:46 AM	41.2	46.8	0.0	12.0	83.1	78.0	2.60	3.08	-1.93	-1.93	-19.65
GEW-152	10/9/2020 8:21:16 AM	41.3	46.2	0.0	12.5	84.0	84.2	3.48	3.07	-1.98	-1.98	-19.46
GEW-152	10/15/2020 7:42:44 AM	41.1	47.4	0.0	11.5	69.5	69.5	3.13	2.37	-2.83	-2.84	-20.34
GEW-152	10/15/2020 7:44:25 AM	41.2	46.8	0.0	12.0	67.0	66.7	3.15	3.37	-2.32	-2.30	-20.34
GEW-152	10/15/2020 1:59:00 PM	14.0	53.1	0.0	32.9	58.8	58.9	3.44	1.72	0.32	0.34	-19.66
GEW-152	10/15/2020 2:00:54 PM	13.5	53.4	0.0	33.1	66.1	66.3	3.78	3.78	-0.83	-0.83	-20.13
GEW-152	10/29/2020 3:45:02 PM	30.5	46.4	0.6	22.5	71.0	71.0	1.67	3.74	-4.18	-4.18	-19.28
GEW-153	10/9/2020 7:49:07 AM	43.2	38.4	0.0	18.4	70.5	70.5	2.92	2.92	-1.44	-1.44	-19.58
GEW-153	10/9/2020 7:54:51 AM	43.0	38.6	0.0	18.4	70.7	70.7	3.95	3.77	-1.45	-1.44	-19.46
GEW-153	10/15/2020 7:29:55 AM	43.4	37.8	0.0	18.8	66.1	66.1	3.37	2.67	-1.99	-2.01	-19.62
GEW-153	10/15/2020 7:33:14 AM	43.3	37.8	0.0	18.9	64.6	64.6	2.39	1.69	-1.76	-1.77	-19.62
GEW-153	10/15/2020 1:52:53 PM	48.0	38.7	0.0	13.3	58.2	58.2	1.72	0.00	-0.21	-0.23	-19.62
GEW-153	10/15/2020 1:55:17 PM	49.8	38.4	0.0	11.8	67.0	67.2	6.74	8.34	-1.59	-1.59	-20.00
GEW-153	10/27/2020 2:21:53 PM	31.7	36.4	0.0	31.9	79.4	79.6	3.30	8.66	-3.30	-3.25	-19.22
GEW-153	10/27/2020 2:26:57 PM	32.2	34.0	0.0	33.8	79.1	79.1	1.65	3.87	-3.35	-3.35	-19.09
GEW-156	10/12/2020 9:29:09 AM	31.6	52.4	0.0	16.0	118.9	118.8	2.16	2.41	-4.18	-4.18	-18.77
GEW-156	10/12/2020 9:34:45 AM	32.3	51.0	0.0	16.7	120.2	119.9	1.86	1.52	-4.27	-4.27	-18.94
GEW-156	10/30/2020 9:27:01 AM	32.9	53.1	0.0	14.0	97.8	97.7	2.56	2.56	-5.06	-5.06	-19.58
GEW-157	10/9/2020 1:51:14 PM	22.9	50.2	0.0	26.9	95.8	95.8	1.14	1.14	-0.19	-0.19	-18.73
GEW-157	10/9/2020 1:56:51 PM	24.5	48.3	0.0	27.2	92.5	92.4	1.99	1.62	-0.15	-0.15	-19.03
GEW-157	10/15/2020 10:45:37 AM	22.1	50.8	0.1	27.0	56.4	56.3	2.43	3.21	-2.42	-2.41	-20.38
GEW-157	10/15/2020 10:47:41 AM	22.0	50.3	0.2	27.5	56.5	56.5	2.72	1.72	-1.52	-1.52	-20.30
GEW-157	10/15/2020 4:01:14 PM	21.4	52.1	0.0	26.5	62.8	62.6	4.01	2.70	0.48	0.49	-20.63
GEW-157	10/15/2020 4:02:45 PM	22.6	51.1	0.0	26.3	61.5	61.5	4.66	3.81	-1.95	-1.95	-20.59
GEW-157	10/30/2020 9:09:32 AM	38.7	44.9	0.0	16.4	54.2	54.2	2.73	1.73	-4.85	-4.85	-19.46
GEW-158	10/9/2020 8:50:42 AM	34.0	50.0	0.0	16.0	98.2	98.2	4.24	3.00	-1.18	-1.17	-19.22
GEW-158	10/9/2020 8:56:34 AM	34.2	48.4	0.0	17.4	98.4	98.4	1.60	3.40	-1.14	-1.14	-19.03
GEW-158	10/29/2020 3:53:30 PM	35.7	46.9	0.0	17.4	72.5	72.7	2.66	3.56	-1.35	-1.31	-19.22
GEW-160	10/7/2020 1:58:37 PM	31.0	43.8	0.1	25.1	103.3	103.3	5.46	2.73	-4.77	-4.77	-18.42
GEW-160	10/14/2020 10:09:16 AM	31.0	38.8	1.0	29.2	76.4	76.4	5.07	3.68	-4.69	-4.69	-18.31
GEW-160	10/14/2020 10:14:40 AM	32.2	39.6	0.2	28.0	77.1	77.1	3.85	1.64	-4.73	-4.73	-18.52

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		(% vol)				°F		scfm		H ₂ O		
GEW-160	10/19/2020 9:34:30 AM	27.7	38.7	0.3	33.3	47.5	47.5	3.00	3.87	-5.99	-5.99	-19.62
GEW-160	10/28/2020 2:03:45 PM	27.5	38.2	0.2	34.1	54.2	54.2	1.71	1.21	-4.77	-4.77	-19.07
GEW-161	10/7/2020 1:50:07 PM	8.8	54.4	0.0	36.8	124.7	124.9	4.57	7.77	-2.93	-2.94	-18.73
GEW-161	10/14/2020 9:57:55 AM	8.4	51.6	1.2	38.8	83.8	84.0	4.61	4.46	-2.68	-2.67	-19.07
GEW-161	10/14/2020 10:04:13 AM	9.2	51.5	0.0	39.3	89.6	89.3	4.27	4.27	-2.72	-2.72	-18.94
GEW-161	10/19/2020 9:32:20 AM	9.9	52.7	0.2	37.2	61.5	61.6	3.39	3.17	-3.59	-3.58	-19.58
GEW-161	10/28/2020 2:01:33 PM	9.6	54.8	0.0	35.6	75.2	75.3	3.10	3.31	-2.27	-2.27	-19.07
GEW-162	10/7/2020 1:38:42 PM	16.7	64.6	0.0	18.7	96.7	96.7	1.97	1.61	-1.77	-1.78	-18.60
GEW-162	10/14/2020 9:45:58 AM	17.6	66.3	0.0	16.1	76.1	76.1	1.66	1.66	-1.77	-1.77	-19.37
GEW-162	10/14/2020 9:52:16 AM	17.4	66.4	0.0	16.2	77.5	77.7	1.65	1.65	-1.70	-1.70	-15.56
GEW-162	10/19/2020 9:30:06 AM	18.7	60.5	0.0	20.8	46.3	46.3	4.30	4.29	-1.86	-1.86	-19.37
GEW-162	10/28/2020 1:59:19 PM	18.1	61.4	0.0	20.5	53.3	53.4	4.06	4.06	-1.25	-1.24	-19.11
GEW-163	10/8/2020 11:19:40 AM	27.7	47.2	0.2	24.9	116.6	116.8	34.76	35.14	-2.09	-2.09	-18.27
GEW-163	10/8/2020 11:26:02 AM	27.7	46.9	0.2	25.2	117.3	117.3	36.59	36.13	-2.12	-2.12	-18.99
GEW-163	10/29/2020 2:02:45 PM	26.6	47.7	0.3	25.4	96.5	96.2	33.86	33.77	-4.73	-4.73	-19.11
GEW-164	10/8/2020 1:57:51 PM	37.3	50.2	0.0	12.5	135.0	135.2	16.87	16.10	-0.28	-0.28	-17.00
GEW-164	10/8/2020 2:04:37 PM	37.5	47.4	0.0	15.1	135.3	135.4	14.44	12.82	-0.30	-0.29	-16.24
GEW-164	10/14/2020 6:53:22 AM	39.8	47.8	0.0	12.4	130.6	130.6	16.62	9.14	-0.24	-0.25	-18.22
GEW-164	10/14/2020 6:56:09 AM	39.4	48.6	0.0	12.0	121.0	119.7	10.64	9.67	0.33	0.34	-19.96
GEW-164	10/14/2020 5:20:06 PM	43.9	55.3	0.0	0.8	88.4	88.4	5.51	6.16	0.49	0.49	-20.50
GEW-164	10/14/2020 5:22:21 PM	44.3	53.1	0.0	2.6	116.3	116.3	16.95	13.34	-0.10	-0.13	-20.13
GEW-164	10/17/2020 7:08:33 AM	42.2	50.9	0.0	6.9	128.0	127.5	9.86	7.64	-0.23	-0.22	-20.63
GEW-164	10/17/2020 7:10:07 AM	41.5	52.3	0.0	6.2	124.4	124.2	12.82	8.11	0.05	0.05	-20.72
GEW-164	10/17/2020 2:21:37 PM	43.7	56.3	0.0	0.0	118.4	117.9	4.84	5.56	0.13	0.15	-19.34
GEW-164	10/17/2020 2:23:15 PM	44.7	55.3	0.0	0.0	124.5	124.0	10.13	22.98	-0.27	-0.26	-19.52
GEW-165	10/8/2020 2:33:44 PM	21.6	43.7	3.4	31.3	142.2	142.5	16.49	13.15	-0.20	-0.20	-19.24
GEW-165	10/8/2020 2:40:29 PM	20.9	43.9	3.5	31.7	143.2	143.5	14.26	11.63	-0.22	-0.23	-18.90
GEW-165	10/14/2020 7:12:56 AM	23.7	47.5	3.3	25.5	137.3	137.4	9.71	9.03	-0.22	-0.22	-20.00
GEW-165	10/14/2020 7:15:24 AM	23.2	48.4	3.2	25.2	124.7	123.7	4.44	2.57	0.24	0.24	-19.96
GEW-165	10/14/2020 5:29:58 PM	24.7	60.9	0.0	14.4	94.1	94.3	6.67	3.85	0.37	0.37	-20.50
GEW-165	10/14/2020 5:33:20 PM	23.9	64.9	0.0	11.2	129.7	129.7	15.96	16.17	-0.10	-0.08	-20.56
GEW-165	10/17/2020 7:13:58 AM	26.5	63.6	0.0	9.9	135.3	135.3	5.63	2.52	-0.01	-0.01	-20.42
GEW-165	10/17/2020 7:15:55 AM	26.1	65.5	0.0	8.4	121.5	121.0	5.76	7.74	0.20	0.21	-20.34
GEW-165	10/17/2020 2:10:33 PM	23.6	69.8	0.0	6.6	104.0	104.0	11.52	10.55	0.24	0.23	-19.58
GEW-165	10/17/2020 2:12:29 PM	23.8	68.3	0.0	7.9	126.9	127.8	16.54	11.35	-0.09	-0.08	-19.83
GEW-166	10/8/2020 2:47:20 PM	2.4	60.1	0.0	37.5	164.7	164.3	5.14	5.79	-0.64	-0.65	-18.82
GEW-166	10/8/2020 2:54:53 PM	2.4	58.9	0.0	38.7	163.8	163.3	3.91	6.06	-0.70	-0.72	-19.24
GEW-166	10/17/2020 7:19:10 AM	3.0	65.8	0.0	31.2	155.6	155.6	5.11	5.40	-1.26	-1.26	-20.59
GEW-166	10/17/2020 7:21:35 AM	2.5	66.7	0.0	30.8	129.7	128.9	10.31	14.29	2.25	2.39	-20.30
GEW-166	10/17/2020 2:05:20 PM	1.2	66.7	0.0	32.1	76.5	76.5	10.96	16.77	5.40	5.48	-19.65

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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	10/17/2020 2:07:05 PM	1.2	69.0	0.0	29.8	127.8	128.3	8.12	8.12	-3.13	-3.13	-19.52
GEW-167	10/8/2020 3:21:25 PM	18.0	47.1	0.0	34.9	152.5	152.5	5.67	5.09	-4.73	-4.73	-19.11
GEW-167	10/8/2020 3:29:17 PM	18.3	49.7	0.0	32.0	152.9	152.9	4.43	5.38	-4.85	-4.85	-19.24
GEW-167	10/19/2020 4:13:59 PM	19.2	49.1	0.0	31.7	139.0	139.0	4.27	5.68	-6.33	-6.33	-19.41
GEW-167	10/19/2020 4:14:45 PM	19.3	49.4	0.0	31.3	138.7	138.7	6.72	6.05	-6.33	-6.33	-19.24
GEW-168	10/9/2020 9:18:44 AM	43.3	51.2	0.5	5.0	90.1	90.1	5.44	5.44	-0.16	-0.16	-18.60
GEW-168	10/9/2020 9:23:45 AM	43.2	51.3	0.5	5.0	90.8	90.8	3.84	3.84	-0.14	-0.14	-18.60
GEW-168	10/17/2020 7:43:55 AM	42.3	53.6	0.6	3.5	66.3	66.3	7.53	6.36	-0.16	-0.15	-19.96
GEW-168	10/17/2020 7:46:15 AM	44.1	51.1	0.6	4.2	62.4	62.1	4.97	5.74	0.13	0.13	-19.96
GEW-168	10/17/2020 1:59:23 PM	33.9	64.0	0.0	2.1	75.1	75.2	6.64	6.64	0.24	0.30	-19.09
GEW-168	10/17/2020 2:01:13 PM	33.9	64.1	0.0	2.0	89.3	89.8	5.85	6.46	-0.29	-0.28	-19.89
GEW-168	10/22/2020 9:11:36 AM	44.4	53.9	0.4	1.3	97.2	97.2	6.58	3.80	-0.21	-0.21	-17.08
GEW-168	10/22/2020 9:13:41 AM	46.0	51.6	0.2	2.2	92.0	91.9	7.18	3.84	0.07	0.07	-17.59
GEW-168	10/22/2020 5:26:19 PM	41.5	58.5	0.0	0.0	87.7	87.7	4.74	2.74	0.07	0.08	-19.49
GEW-168	10/22/2020 5:27:55 PM	41.7	58.3	0.0	0.0	100.1	100.3	7.56	4.63	-0.37	-0.39	-19.62
GEW-169	10/9/2020 10:27:45 AM	31.0	52.8	0.1	16.1	107.0	106.8	12.39	13.47	-0.04	-0.04	-17.93
GEW-169	10/9/2020 10:34:29 AM	30.7	52.2	0.1	17.0	110.1	110.0	5.25	4.55	-0.03	-0.03	-17.93
GEW-169	10/17/2020 7:49:40 AM	31.6	52.0	0.0	16.4	84.9	85.1	3.89	7.77	-0.08	-0.10	-19.96
GEW-169	10/17/2020 7:51:41 AM	31.5	53.1	0.0	15.4	69.5	68.9	15.75	5.66	0.00	0.00	-19.96
GEW-169	10/17/2020 1:49:23 PM	30.3	56.8	0.0	12.9	81.9	81.9	8.14	10.61	0.00	0.00	-20.13
GEW-169	10/17/2020 1:51:07 PM	29.4	56.9	0.0	13.7	106.1	107.2	6.81	4.64	-0.17	-0.17	-20.07
GEW-169	10/22/2020 9:16:40 AM	31.8	49.8	0.2	18.2	120.8	121.0	9.29	3.64	-0.16	-0.17	-17.17
GEW-169	10/22/2020 9:18:37 AM	31.4	51.1	0.2	17.3	107.5	107.2	15.62	6.99	0.03	0.02	-17.55
GEW-169	10/22/2020 5:20:05 PM	41.1	55.3	0.0	3.6	87.0	87.0	6.12	3.87	0.01	0.02	-19.49
GEW-169	10/22/2020 5:23:03 PM	41.4	55.3	0.0	3.3	107.0	107.2	5.28	18.10	-0.13	-0.12	-19.45
GEW-170	10/9/2020 9:57:54 AM	12.0	37.7	5.5	44.8	115.5	115.8	3.68	2.60	-0.13	-0.13	-17.97
GEW-170	10/9/2020 10:03:20 AM	12.7	36.5	5.5	45.3	123.4	123.4	2.57	2.57	-0.11	-0.11	-17.84
GEW-170	10/19/2020 4:43:05 PM	13.6	37.5	4.4	44.5	94.8	94.6	4.67	3.82	-0.13	-0.13	-19.75
GEW-171	10/9/2020 2:31:05 PM	24.0	54.2	2.6	19.2	97.9	97.9	4.65	4.65	-12.49	-12.49	-17.46
GEW-171	10/9/2020 2:37:06 PM	24.8	55.6	2.3	17.3	98.7	98.7	4.23	4.23	-13.38	-13.38	-17.51
GEW-171	10/30/2020 9:59:32 AM	21.5	40.1	7.5	30.9	55.7	55.9	1.69	2.92	-12.15	-12.15	-17.14
GEW-171	10/30/2020 10:00:50 AM	20.7	42.6	7.6	29.1	53.9	53.9	7.98	9.48	-10.46	-10.46	-17.20
GEW-172	10/9/2020 2:11:21 PM	27.9	46.6	1.8	23.7	141.2	141.5	6.97	6.52	-4.15	-4.16	-19.45
GEW-172	10/9/2020 2:16:54 PM	28.0	45.3	2.2	24.5	141.2	141.2	5.51	6.53	-4.09	-4.09	-19.15
GEW-172	10/19/2020 4:58:58 PM	33.2	49.3	1.6	15.9	130.3	130.3	4.37	6.19	-1.96	-1.96	-19.70
GEW-174	10/9/2020 8:46:50 AM	16.3	42.3	0.0	41.4	85.6	85.6	4.74	4.74	-1.23	-1.23	-18.60
GEW-174	10/9/2020 8:53:02 AM	16.5	41.8	0.0	41.7	85.9	86.3	3.87	3.87	-1.22	-1.22	-18.86
GEW-174	10/30/2020 10:16:46 AM	18.1	44.4	0.0	37.5	81.2	81.2	5.55	5.55	-1.47	-1.47	-19.03
GEW-175	10/9/2020 1:22:09 PM	36.2	40.4	1.1	22.3	133.6	133.5	25.39	22.28	-0.21	-0.24	-18.97
GEW-175	10/9/2020 1:28:27 PM	36.8	39.5	1.1	22.6	134.4	134.1	15.21	17.01	-0.18	-0.13	-19.65

October 2020 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	10/21/2020 12:39:35 PM	32.2	38.2	1.8	27.8	130.0	130.0	12.17	17.76	-0.16	-0.20	-19.75
GEW-175	10/21/2020 12:43:11 PM	32.5	38.7	1.6	27.2	116.8	116.6	3.67	3.67	-0.01	-0.01	-19.58
GEW-175	10/21/2020 2:34:14 PM	42.9	49.4	0.0	7.7	96.2	96.2	8.93	8.51	0.00	0.00	-19.53
GEW-175	10/21/2020 2:36:56 PM	42.5	51.9	0.0	5.6	113.2	115.0	2.61	13.02	-0.02	-0.03	-19.83
GEW-175	10/23/2020 8:10:30 AM	41.3	50.2	0.0	8.5	137.7	138.7	10.63	7.91	-0.01	-0.01	-19.58
GEW-175	10/23/2020 8:12:14 AM	41.5	49.9	0.0	8.6	124.5	123.9	4.44	4.44	0.03	0.03	-19.37
GEW-175	10/23/2020 2:30:34 PM	35.6	45.5	0.1	18.8	55.2	55.3	8.22	6.50	0.10	0.10	-19.92
GEW-175	10/23/2020 2:32:22 PM	35.8	46.1	0.0	18.1	117.9	118.9	31.74	32.10	-0.04	-0.04	-20.17
GEW-177	10/9/2020 10:53:09 AM	18.7	46.6	1.4	33.3	165.2	165.1	8.97	10.86	-13.51	-13.51	-17.76
GEW-177	10/9/2020 10:59:37 AM	19.3	47.6	1.4	31.7	164.7	164.8	6.13	7.33	-13.68	-13.68	-17.93
GEW-177	10/19/2020 4:46:25 PM	16.7	45.4	1.9	36.0	159.5	159.4	23.24	21.79	-13.80	-13.80	-15.22
GEW-177	10/19/2020 4:47:43 PM	16.7	45.8	1.9	35.6	159.8	159.4	14.39	12.79	-13.76	-13.76	-18.90
GEW-178	10/9/2020 2:20:59 PM	37.3	34.4	2.7	25.6	95.0	95.0	1.98	3.02	-0.37	-0.37	-18.73
GEW-178	10/9/2020 2:26:36 PM	36.3	35.8	2.4	25.5	96.3	96.2	7.12	7.98	-0.43	-0.43	-18.79
GEW-178	10/21/2020 12:33:53 PM	24.0	25.6	7.8	42.6	61.1	61.1	0.00	1.71	-0.25	-0.25	-19.28
GEW-178	10/21/2020 12:35:48 PM	24.6	25.1	7.6	42.7	59.7	59.5	1.21	2.10	-0.04	-0.04	-19.03
GEW-178	10/21/2020 2:27:42 PM	30.0	31.8	3.5	34.7	56.7	56.8	3.45	1.22	-0.01	-0.01	-19.62
GEW-178	10/21/2020 2:30:15 PM	28.7	30.6	4.3	36.4	58.6	58.8	2.72	1.22	-0.16	-0.17	-19.62
GEW-178	10/23/2020 8:16:16 AM	36.1	34.3	4.9	24.7	71.0	71.1	1.68	1.19	-0.17	-0.16	-18.39
GEW-178	10/23/2020 8:19:26 AM	36.3	33.2	5.3	25.2	69.8	69.5	4.61	4.46	0.02	0.05	-18.48
GEW-178	10/23/2020 2:35:36 PM	35.0	35.1	2.3	27.6	49.3	49.4	1.24	2.48	0.01	0.01	-19.92
GEW-178	10/23/2020 2:37:12 PM	34.7	33.1	3.2	29.0	55.5	55.5	3.86	3.67	-0.54	-0.55	-19.92
GEW-179	10/9/2020 2:36:16 PM	37.3	39.1	0.1	23.5	99.6	99.6	5.28	5.03	-3.40	-3.35	-18.73
GEW-179	10/9/2020 2:42:45 PM	37.0	38.8	0.1	24.1	100.1	100.1	5.27	7.02	-3.38	-3.35	-19.22
GEW-179	10/30/2020 9:06:15 AM	39.2	38.4	0.2	22.2	75.5	75.7	8.16	9.57	-2.58	-2.58	-19.46
GEW-180	10/12/2020 7:53:43 AM	39.6	56.4	0.4	3.6	77.7	78.0	4.05	4.05	-16.72	-16.72	-18.94
GEW-180	10/12/2020 7:58:51 AM	39.3	57.4	0.5	2.8	79.0	79.2	7.00	5.93	-16.88	-16.88	-19.37
GEW-180	10/30/2020 9:37:55 AM	39.7	57.7	0.0	2.6	65.6	66.1	4.18	4.78	-16.53	-16.58	-17.56
GEW-181	10/9/2020 2:52:48 PM	28.1	62.4	0.1	9.4	96.3	96.5	14.14	11.74	-10.47	-10.47	-20.13
GEW-181	10/9/2020 3:12:57 PM	28.4	61.2	0.1	10.3	97.0	97.0	13.48	9.75	-9.96	-9.96	-19.70
GEW-181	10/30/2020 9:48:57 AM	26.6	72.7	0.2	0.5	58.9	58.9	12.23	13.82	-17.21	-17.21	-18.85
GEW-185	10/8/2020 10:32:52 AM	42.3	56.9	0.0	0.8	87.2	87.3	1.63	2.82	-0.06	-0.06	-18.60
GEW-185	10/8/2020 10:39:32 AM	42.5	56.3	0.0	1.2	86.5	86.5	1.15	1.15	-0.08	-0.08	-18.60
GEW-185	10/29/2020 1:57:34 PM	44.5	54.5	0.0	1.0	52.7	52.7	4.08	3.48	-0.08	-0.07	-19.15
GEW-186	10/9/2020 10:06:55 AM	28.8	34.7	3.3	33.2	93.6	93.6	1.97	2.55	-0.04	-0.04	-18.01
GEW-186	10/9/2020 10:12:50 AM	31.1	33.9	3.3	31.7	94.6	94.6	1.14	1.14	-0.05	-0.05	-18.22
GEW-186	10/30/2020 10:07:46 AM	22.5	33.5	6.1	37.9	77.7	77.9	2.03	2.87	-0.13	-0.13	-18.73
GEW-186	10/30/2020 10:08:38 AM	23.0	32.5	6.1	38.4	78.0	78.0	2.87	2.03	-0.13	-0.13	-18.60
GEW-187	10/7/2020 2:10:56 PM	45.1	49.5	0.0	5.4	112.8	112.8	4.93	4.13	-2.10	-2.12	-18.79
GEW-187	10/14/2020 9:13:37 AM	46.5	50.1	0.0	3.4	105.5	105.5	6.93	6.93	-2.20	-2.20	-19.75

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		(% vol)				°F		scfm		H ₂ O		
GEW-187	10/14/2020 9:19:42 AM	45.9	50.2	0.0	3.9	105.7	106.0	8.59	10.22	-2.18	-2.19	-19.58
GEW-187	10/19/2020 9:26:38 AM	46.7	48.7	0.0	4.6	90.1	90.1	5.35	5.10	-2.28	-2.27	-19.45
GEW-187	10/28/2020 1:55:42 PM	46.3	48.3	0.0	5.4	92.7	92.7	12.12	10.95	-2.08	-2.08	-18.73
GEW-217	10/9/2020 2:10:14 PM	33.3	58.1	0.0	8.6	159.8	159.8	5.83	5.57	-9.45	-9.45	-11.38
GEW-217	10/9/2020 2:15:22 PM	36.7	53.1	0.0	10.2	160.2	160.2	4.80	5.00	-9.11	-9.11	-11.32
GEW-217	10/22/2020 8:56:31 AM	18.5	58.4	0.0	23.1	168.1	168.1	11.99	11.54	-8.78	-8.78	-10.06
GEW-217	10/22/2020 8:57:42 AM	18.7	58.6	0.0	22.7	168.1	168.1	15.09	11.87	-8.78	-8.82	-9.89
GEW-218	10/12/2020 9:16:55 AM	25.9	49.3	1.0	23.8	114.5	114.7	10.46	9.74	-0.56	-0.56	-19.20
GEW-218	10/12/2020 9:23:01 AM	25.6	50.3	1.0	23.1	115.8	115.8	9.28	10.94	-0.58	-0.57	-18.94
GEW-218	10/15/2020 10:31:44 AM	20.6	44.1	2.9	32.4	102.9	102.8	11.01	11.94	-0.86	-0.87	-20.21
GEW-218	10/15/2020 10:34:04 AM	20.5	44.9	2.9	31.7	87.8	86.5	2.30	1.63	-0.06	-0.06	-19.92
GEW-218	10/15/2020 4:05:32 PM	40.8	47.1	0.0	12.1	61.1	61.2	3.20	2.10	0.05	0.06	-20.63
GEW-218	10/15/2020 4:07:06 PM	42.0	46.3	0.0	11.7	68.0	68.1	4.62	4.77	-0.19	-0.18	-20.55
GEW-218	10/30/2020 9:23:55 AM	14.0	58.5	1.2	26.3	59.4	59.4	4.40	4.40	-0.45	-0.41	-19.52
GEW-220	10/12/2020 8:52:18 AM	37.3	49.0	0.1	13.6	153.3	153.4	10.90	13.49	-10.00	-10.00	-18.69
GEW-220	10/12/2020 9:02:52 AM	37.0	48.6	0.1	14.3	154.0	154.2	12.35	13.43	-10.13	-10.13	-19.15
GEW-220	10/26/2020 8:48:38 AM	36.0	48.6	0.0	15.4	135.6	135.3	11.09	13.46	-10.46	-10.46	-19.77
GEW-220	10/26/2020 8:50:07 AM	36.6	46.6	0.0	16.8	135.9	136.2	11.70	10.60	-10.46	-10.46	-19.58
GEW-221	10/12/2020 8:39:50 AM	31.1	53.3	2.1	13.5	78.7	78.8	4.76	4.00	-5.74	-5.74	-18.94
GEW-221	10/12/2020 8:46:36 AM	29.6	51.8	2.9	15.7	81.0	81.2	3.25	3.63	-5.78	-5.78	-18.90
GEW-221	10/30/2020 10:11:07 AM	27.4	57.6	0.1	14.9	72.8	73.0	2.63	2.63	-5.36	-5.40	-19.09
GEW-222	10/12/2020 8:14:38 AM	51.7	45.0	0.2	3.1	83.5	83.7	7.67	10.29	-10.47	-10.47	-19.07
GEW-222	10/12/2020 8:21:11 AM	51.9	43.3	0.2	4.6	85.2	85.4	9.76	10.08	-10.47	-10.47	-19.53
GEW-222	10/30/2020 10:19:57 AM	56.2	40.5	0.9	2.4	57.7	57.7	17.02	17.02	-18.22	-18.22	-18.73
GEW-223	10/9/2020 2:21:05 PM	33.6	62.5	0.0	3.9	132.0	132.3	8.12	8.05	-3.06	-3.07	-19.11
GEW-223	10/9/2020 2:26:46 PM	33.6	61.5	0.0	4.9	136.1	135.8	3.93	3.93	-3.02	-3.03	-18.82
GEW-223	10/19/2020 4:55:45 PM	38.2	61.8	0.0	0.0	96.8	96.8	5.62	4.35	-3.03	-3.02	-19.66
GEW-224	10/9/2020 1:52:31 PM	36.8	55.3	0.0	7.9	153.7	153.3	12.40	12.00	-12.45	-12.45	-19.15
GEW-224	10/9/2020 1:57:53 PM	36.6	55.0	0.0	8.4	154.0	153.3	12.15	14.20	-12.45	-12.45	-19.03
GEW-224	10/19/2020 4:50:45 PM	39.8	59.8	0.0	0.4	144.0	144.0	11.08	11.49	-12.75	-12.75	-19.58
GEW-224	10/19/2020 4:51:34 PM	40.5	58.8	0.0	0.7	144.2	144.5	14.05	12.78	-12.75	-12.75	-19.41
GEW-225	10/9/2020 2:01:59 PM	23.1	51.5	0.2	25.2	159.4	159.0	9.63	10.24	-5.78	-5.78	-19.32
GEW-225	10/9/2020 2:08:20 PM	22.9	50.2	0.3	26.6	159.4	159.2	9.99	9.99	-5.74	-5.74	-19.62
GEW-225	10/19/2020 5:02:14 PM	30.3	51.6	0.1	18.0	154.0	153.7	9.08	9.37	-4.62	-4.62	-19.87
GEW-225	10/19/2020 5:03:01 PM	30.3	51.8	0.1	17.8	154.0	153.9	9.08	8.91	-4.66	-4.65	-19.96
GEW-226	10/9/2020 8:01:43 AM	37.0	46.7	0.0	16.3	175.6	175.8	18.08	18.84	-1.79	-1.79	-19.28
GEW-226	10/9/2020 8:06:53 AM	37.5	44.7	0.0	17.8	175.3	175.2	18.96	19.55	-1.79	-1.79	-19.11
GEW-226	10/22/2020 8:43:15 AM	37.5	50.0	0.0	12.5	172.1	172.1	18.42	17.68	-1.25	-1.25	-17.59
GEW-226	10/22/2020 8:44:32 AM	38.8	48.6	0.0	12.6	172.6	172.1	11.53	9.21	-1.99	-1.94	-17.76
GEW-227	10/7/2020 11:21:51 AM	16.1	35.8	3.5	44.6	183.9	183.9	5.08	5.27	-0.55	-0.55	-18.31

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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	10/7/2020 11:28:15 AM	18.7	35.6	3.6	42.1	184.0	183.9	4.69	5.62	-0.54	-0.54	-18.14
GEW-227	10/13/2020 7:38:40 AM	6.1	40.5	4.7	48.7	179.7	179.7	1.98	3.84	-0.69	-0.69	-19.89
GEW-227	10/13/2020 7:40:12 AM	6.9	37.5	4.8	50.8	158.5	156.9	5.24	5.24	0.08	0.08	-19.95
GEW-227	10/13/2020 3:04:38 PM	1.2	58.4	0.0	40.4	86.1	86.1	1.65	2.33	0.42	0.43	-20.01
GEW-227	10/13/2020 3:08:50 PM	1.3	61.3	0.0	37.4	118.4	118.6	1.90	2.19	-0.29	-0.28	-20.13
GEW-227	10/19/2020 3:06:50 PM	1.6	54.5	0.0	43.9	156.9	157.7	3.69	3.23	0.24	0.24	-19.41
GEW-227	10/19/2020 3:08:55 PM	1.5	61.2	0.0	37.3	191.5	192.3	6.91	7.23	-0.14	-0.14	-19.41
GEW-228	10/7/2020 10:11:11 AM	3.6	25.6	5.8	65.0	182.1	182.1	2.78	4.71	0.00	0.00	-18.35
GEW-228	10/7/2020 10:19:35 AM	4.0	25.9	5.7	64.4	182.1	182.1	4.28	3.40	-0.01	-0.01	-17.97
GEW-228	10/19/2020 3:37:25 PM	5.6	27.5	8.2	58.7	178.2	178.0	9.88	9.73	-0.22	-0.22	-19.24
GEW-228	10/19/2020 3:39:04 PM	5.6	26.4	8.3	59.7	176.9	176.8	2.43	3.84	-0.03	-0.03	-19.32
GEW-229	10/7/2020 9:57:41 AM	3.3	25.5	0.7	70.5	102.6	102.4	3.36	3.17	0.03	0.03	-18.73
GEW-229	10/7/2020 10:04:59 AM	2.8	24.4	0.7	72.1	113.0	113.6	9.91	9.65	-0.02	-0.01	-18.77
GEW-229	10/29/2020 10:23:25 AM	0.9	18.7	7.4	73.0	87.8	87.7	7.72	8.69	-0.06	-0.05	-19.11
GEW-229	10/29/2020 10:24:15 AM	0.8	17.0	7.5	74.7	87.8	87.9	8.99	9.70	-0.06	-0.05	-19.24
GEW-230	10/5/2020 2:34:37 PM	10.1	30.3	4.7	54.9	156.0	156.0	7.59	8.19	-0.04	-0.04	-19.03
GEW-230	10/5/2020 2:40:56 PM	10.4	30.2	4.7	54.7	156.2	155.6	6.47	7.60	-0.03	-0.02	-19.07
GEW-230	10/19/2020 10:40:46 AM	1.5	14.5	12.0	72.0	148.8	148.8	6.79	5.07	-0.03	-0.02	-19.20
GEW-230	10/19/2020 10:41:42 AM	1.4	14.3	12.0	72.3	148.8	149.1	6.13	4.14	-0.02	-0.02	-19.11
GEW-232	10/7/2020 9:00:26 AM	31.7	61.3	0.0	7.0	160.7	160.7	15.31	15.45	-3.39	-3.42	-18.48
GEW-232	10/7/2020 9:05:59 AM	32.2	58.8	0.0	9.0	161.0	160.7	11.70	12.41	-3.50	-3.45	-18.65
GEW-232	10/16/2020 9:50:59 AM	31.1	59.1	0.0	9.8	158.5	158.4	8.94	6.64	-2.82	-2.82	-18.05
GEW-232	10/16/2020 9:53:01 AM	31.8	58.0	0.0	10.2	135.3	134.1	5.70	2.60	-0.45	-0.44	-19.83
GEW-232	10/16/2020 5:01:07 PM	19.9	56.4	0.0	23.7	84.0	83.3	1.16	4.02	0.00	0.02	-20.04
GEW-232	10/16/2020 5:03:22 PM	21.2	58.9	0.0	19.9	115.3	116.5	6.92	4.76	-0.74	-0.72	-20.42
GEW-233	10/7/2020 1:51:24 PM	5.1	28.8	4.9	61.2	123.9	124.1	2.16	2.85	-0.58	-0.58	-19.03
GEW-233	10/7/2020 1:57:26 PM	5.1	29.0	4.7	61.2	125.0	125.8	1.52	2.63	-0.56	-0.57	-18.86
GEW-233	10/13/2020 7:42:35 AM	3.6	30.6	8.3	57.5	63.6	63.7	4.53	4.53	-0.69	-0.69	-20.13
GEW-233	10/13/2020 7:44:16 AM	3.4	28.4	8.5	59.7	60.2	60.1	2.73	11.12	0.05	0.02	-19.83
GEW-233	10/13/2020 3:12:02 PM	4.5	58.4	0.0	37.1	88.6	88.7	6.65	6.65	0.03	0.03	-20.07
GEW-233	10/13/2020 3:13:54 PM	4.6	59.7	0.0	35.7	91.0	91.0	6.62	7.55	-0.16	-0.19	-20.01
GEW-233	10/29/2020 11:16:01 AM	2.1	35.2	4.1	58.6	44.9	44.9	7.06	5.58	-0.31	-0.33	-19.20
GEW-234	10/12/2020 7:37:48 AM	1.6	65.6	0.4	32.4	202.8	202.6	12.62	13.82	-0.03	-0.03	-18.94
GEW-234	10/12/2020 7:44:15 AM	1.4	66.2	0.2	32.2	203.1	203.0	12.43	12.72	-0.06	-0.06	-18.73
GEW-234	10/26/2020 8:55:58 AM	3.1	36.3	5.9	54.7	198.6	197.9	12.48	12.48	-0.40	-0.43	-15.48
GEW-234	10/26/2020 8:57:17 AM	2.9	38.8	6.1	52.2	195.0	195.0	3.49	4.11	-0.26	-0.26	-16.10
GEW-235	10/8/2020 10:55:12 AM	30.5	54.3	0.0	15.2	134.7	134.4	4.59	7.52	-2.92	-2.92	-18.90
GEW-235	10/8/2020 11:02:34 AM	30.3	54.9	0.0	14.8	135.0	135.3	3.33	2.97	-2.99	-2.98	-18.27
GEW-235	10/19/2020 4:05:16 PM	30.6	52.1	0.0	17.3	117.9	118.1	4.20	4.19	-2.95	-2.95	-19.58
GEW-236	10/7/2020 10:25:03 AM	3.0	45.7	2.5	48.8	203.1	203.1	4.35	5.12	-0.42	-0.42	-16.70

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		(% vol)				°F		scfm		H ₂ O		
GEW-236	10/7/2020 10:31:48 AM	3.3	49.0	2.5	45.2	203.1	203.1	5.03	3.15	-0.38	-0.38	-16.36
GEW-236	10/19/2020 3:32:49 PM	4.1	42.0	4.2	49.7	202.2	202.3	2.69	1.90	-0.45	-0.45	-18.05
GEW-236	10/19/2020 3:33:50 PM	3.6	40.8	4.2	51.4	202.3	202.3	5.12	5.03	-0.45	-0.46	-18.94
GEW-236	10/22/2020 6:35:59 AM	3.4	44.2	3.8	48.6	201.6	201.6	34.90	28.97	-1.75	-1.59	-16.79
GEW-236	10/22/2020 6:38:29 AM	3.2	43.9	3.9	49.0	182.1	181.5	12.14	5.57	0.90	0.96	-19.62
GEW-236	10/22/2020 1:24:20 PM	3.9	49.5	0.0	46.6	97.5	97.5	3.45	4.74	6.96	6.96	-17.97
GEW-236	10/22/2020 1:28:34 PM	3.8	54.3	0.0	41.9	203.9	203.9	8.22	14.71	-0.26	-0.29	-17.93
GEW-237	10/9/2020 9:09:50 AM	40.3	46.4	0.7	12.6	144.5	144.9	11.79	11.06	-0.11	-0.09	-19.22
GEW-237	10/9/2020 9:15:31 AM	40.8	45.4	0.7	13.1	146.6	146.6	11.32	11.05	-0.15	-0.15	-19.52
GEW-237	10/21/2020 7:05:24 AM	38.3	43.2	1.1	17.4	138.0	138.0	12.25	14.76	-0.21	-0.19	-19.70
GEW-237	10/21/2020 7:07:11 AM	37.5	44.3	1.1	17.1	121.5	120.7	8.61	5.95	0.08	0.08	-19.28
GEW-237	10/21/2020 3:37:47 PM	46.3	46.7	0.0	7.0	55.5	55.5	7.74	11.01	0.09	0.13	-19.96
GEW-237	10/21/2020 3:40:16 PM	45.8	48.1	0.0	6.1	110.8	111.7	5.74	11.03	-0.09	-0.08	-19.96
GEW-238	10/7/2020 8:40:39 AM	17.3	63.5	0.0	19.2	188.8	188.5	38.98	39.01	-1.25	-1.24	-17.84
GEW-238	10/7/2020 8:46:29 AM	17.3	66.6	0.0	16.1	188.4	188.3	37.71	38.06	-1.18	-1.22	-18.05
GEW-238	10/19/2020 1:59:54 PM	18.6	65.2	0.0	16.2	187.6	187.6	37.15	37.15	-1.20	-1.20	-18.31
GEW-238	10/19/2020 2:01:52 PM	18.4	65.5	0.0	16.1	187.6	187.6	37.39	38.06	-1.18	-1.19	-18.90
GEW-239	10/5/2020 3:22:17 PM	2.3	57.4	0.0	40.3	202.3	202.3	9.99	9.67	0.34	0.35	-19.70
GEW-239	10/5/2020 3:29:55 PM	2.9	53.8	0.0	43.3	203.1	203.1	14.88	16.93	-0.17	-0.16	-18.22
GEW-239	10/19/2020 11:00:20 AM	1.1	24.6	10.1	64.2	194.3	194.3	18.10	18.99	-1.41	-1.42	-18.86
GEW-239	10/19/2020 11:01:59 AM	1.1	25.0	10.1	63.8	193.1	192.7	12.07	12.08	-1.02	-1.02	-19.24
GEW-240	10/9/2020 8:21:50 AM	8.5	38.5	0.0	53.0	192.3	192.3	9.95	12.15	-0.08	-0.09	-18.77
GEW-240	10/9/2020 8:28:31 AM	8.4	36.7	0.0	54.9	192.3	192.3	9.12	10.41	-0.09	-0.09	-18.44
GEW-240	10/22/2020 8:49:41 AM	14.8	38.6	0.0	46.6	190.1	189.6	11.14	11.73	-0.08	-0.07	-17.63
GEW-240	10/22/2020 8:51:25 AM	14.4	39.3	0.0	46.3	189.6	189.6	11.28	11.28	-0.07	-0.06	-17.46
GEW-241	10/24/2020 9:44:01 AM	46.9	42.7	0.0	10.4	47.3	47.3	4.31	4.12	0.00	0.00	-19.37
GEW-241	10/24/2020 9:47:40 AM	47.4	43.4	0.0	9.2	53.2	53.4	2.46	3.01	-0.02	-0.01	-19.75
GEW-241	10/27/2020 9:27:52 AM	38.5	35.7	4.0	21.8	65.1	64.9	3.42	3.42	-0.04	-0.04	-20.01
GEW-241	10/27/2020 9:34:11 AM	37.7	35.8	3.9	22.6	64.7	64.9	4.01	5.68	-0.02	-0.02	-20.07
GEW-242	10/27/2020 1:40:38 PM	46.3	47.0	0.0	6.7	47.9	47.9	4.93	4.93	7.63	7.68	-17.81
GEW-242	10/27/2020 1:42:51 PM	46.3	47.7	0.0	6.0	48.5	48.5	4.93	4.77	-5.27	-5.74	-17.14
GEW-242	10/27/2020 2:11:04 PM	44.2	50.9	0.1	4.8	44.9	44.9	4.97	5.26	-16.53	-16.53	-17.63
GEW-242	10/27/2020 2:17:04 PM	45.0	46.8	0.2	8.0	44.3	44.3	7.73	8.00	-16.87	-17.21	-17.75
GEW-243	10/24/2020 8:54:17 AM	14.2	55.9	0.0	29.9	45.6	45.6	3.06	3.30	0.02	0.02	-19.37
GEW-243	10/24/2020 8:56:20 AM	14.4	56.6	0.0	29.0	45.6	45.6	1.24	2.15	-2.14	-2.15	-19.49
GEW-243	10/27/2020 10:45:54 AM	43.8	51.5	0.0	4.7	42.4	42.4	4.18	3.56	-1.09	-1.10	-19.58
GEW-243	10/27/2020 10:52:42 AM	43.1	51.7	0.0	5.2	42.2	42.2	5.91	3.78	-1.08	-1.06	-19.65
GEW-244	10/15/2020 9:01:00 AM	32.1	37.6	4.4	25.9	56.5	56.4	3.31	3.75	9.79	9.79	-19.66
GEW-244	10/15/2020 9:04:05 AM	32.1	38.0	4.4	25.5	55.5	55.5	3.71	4.10	4.05	4.08	-19.62
GEW-244	10/21/2020 9:10:38 AM	53.6	46.4	0.0	0.0	52.6	52.6	2.60	2.91	22.96	22.96	-18.56

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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-244	10/21/2020 9:13:48 AM	54.7	45.3	0.0	0.0	54.8	54.7	3.76	3.76	-12.16	-12.45	-18.60
GEW-244	10/27/2020 11:03:41 AM	2.3	7.5	19.6	70.6	42.8	42.8	5.84	5.84	-5.74	-5.74	-19.52
GEW-244	10/27/2020 11:10:18 AM	2.1	3.5	20.1	74.3	42.5	42.4	3.99	3.09	-1.04	-1.03	-19.58
GEW-245	10/17/2020 2:47:05 PM	7.1	45.1	4.7	43.1	75.0	75.0	4.23	3.06	2.96	2.97	-19.65
GEW-245	10/17/2020 2:51:17 PM	7.2	53.1	2.8	36.9	74.5	74.4	2.52	1.89	-1.50	-1.53	-19.34
GEW-245	10/21/2020 9:06:45 AM	31.3	54.2	0.0	14.5	54.7	54.8	2.40	2.40	-8.44	-8.44	-18.60
GEW-245	10/27/2020 11:16:49 AM	32.1	47.4	0.0	20.5	47.6	47.7	4.26	4.08	-7.09	-7.09	-19.46
GEW-245	10/27/2020 11:22:40 AM	31.7	46.6	0.0	21.7	47.2	47.3	3.89	3.89	-7.09	-7.09	-19.58
GEW-246	10/17/2020 3:12:52 PM	30.2	46.3	0.0	23.5	77.3	77.3	4.19	2.52	0.13	0.17	-19.46
GEW-246	10/17/2020 3:14:25 PM	31.3	46.7	0.0	22.0	79.1	79.1	4.17	4.17	-0.23	-0.23	-19.34
GEW-246	10/21/2020 9:46:32 AM	19.5	23.6	11.0	45.9	53.7	53.7	2.74	4.59	-0.47	-0.47	-18.86
GEW-246	10/21/2020 9:49:30 AM	19.0	23.7	11.1	46.2	53.9	53.8	1.73	1.23	-0.24	-0.24	-18.60
GEW-246	10/27/2020 1:48:08 PM	49.4	46.2	0.0	4.4	46.4	46.4	3.32	3.32	-0.20	-0.20	-19.16
GEW-246	10/27/2020 1:54:05 PM	49.9	45.2	0.0	4.9	49.0	49.3	3.73	3.05	-1.36	-1.36	-19.28
GEW-247	10/15/2020 4:14:29 PM	2.3	7.2	15.9	74.6	60.4	60.9	1.21	2.09	-1.85	-1.85	-20.47
GEW-247	10/15/2020 4:19:00 PM	6.2	17.2	10.4	66.2	62.8	63.1	5.03	6.70	-7.09	-7.18	-20.55
GEW-247	10/21/2020 2:08:34 PM	44.5	41.9	0.1	13.5	61.8	61.8	3.60	3.79	-3.38	-3.38	-19.75
GEW-247	10/27/2020 10:13:10 AM	42.6	45.7	0.0	11.7	48.2	48.2	1.24	3.27	-3.93	-3.93	-19.58
GEW-247	10/27/2020 10:19:10 AM	42.7	44.9	0.0	12.4	49.0	49.1	3.27	3.49	-3.92	-3.92	-19.65
GEW-248	10/21/2020 2:13:58 PM	0.6	29.8	8.1	61.5	56.8	56.8	3.86	2.73	-0.05	-0.05	-19.53
GEW-248	10/21/2020 2:16:10 PM	0.5	32.1	7.5	59.9	59.0	59.3	1.72	2.43	-0.24	-0.24	-19.62
GEW-248	10/27/2020 10:29:15 AM	10.5	24.7	6.6	58.2	75.7	75.8	3.13	2.05	-0.26	-0.26	-19.58
GEW-248	10/27/2020 10:34:50 AM	10.3	25.3	6.2	58.2	65.0	64.5	3.42	2.96	-0.11	-0.10	-19.65
GEW-249	10/24/2020 10:15:12 AM	38.8	59.7	0.0	1.5	46.1	46.1	3.94	3.94	0.10	0.10	-19.62
GEW-249	10/24/2020 10:16:54 AM	38.3	61.6	0.0	0.1	48.2	48.3	2.77	3.04	-0.09	-0.09	-19.62
GEW-249	10/27/2020 9:39:26 AM	30.4	43.3	3.8	22.5	61.6	61.8	2.98	2.11	-0.07	-0.08	-19.89
GEW-249	10/27/2020 9:45:11 AM	29.9	44.0	3.8	22.3	61.5	61.6	4.39	1.72	-0.06	-0.07	-19.89
GEW-250	10/14/2020 1:44:35 PM	3.2	63.0	0.0	33.8	92.0	92.0	3.02	2.56	0.10	0.10	-18.90
GEW-250	10/14/2020 1:48:25 PM	3.4	62.3	0.0	34.3	93.9	93.9	3.94	3.78	-0.02	-0.01	-18.90
GEW-250	10/21/2020 8:58:28 AM	0.1	21.4	7.9	70.6	96.0	96.5	2.78	1.60	-0.12	-0.12	-18.60
GEW-250	10/21/2020 9:00:59 AM	0.1	21.7	7.8	70.4	112.1	112.7	2.46	4.40	-0.19	-0.19	-18.39
GEW-250	10/27/2020 11:30:10 AM	0.3	22.3	9.7	67.7	115.5	115.3	5.29	4.13	-0.15	-0.15	-19.46
GEW-250	10/27/2020 11:37:01 AM	0.2	21.6	9.9	68.3	115.0	114.8	4.94	1.91	-0.12	-0.13	-19.77
GEW-251	10/16/2020 4:51:56 PM	6.1	62.6	0.0	31.3	64.0	64.0	3.61	2.41	0.27	0.29	-20.21
GEW-251	10/16/2020 4:54:11 PM	6.3	63.1	0.0	30.6	64.1	64.1	0.00	1.70	0.10	0.10	-20.30
GEW-251	10/21/2020 9:53:44 AM	8.6	43.8	0.3	47.3	55.1	55.4	2.74	2.12	-0.16	-0.17	-18.69
GEW-251	10/27/2020 1:59:14 PM	6.1	49.9	0.0	44.0	46.7	46.7	3.96	3.96	-0.02	-0.02	-19.03
GEW-251	10/27/2020 2:04:57 PM	5.8	53.1	0.0	41.1	50.4	50.6	2.15	2.49	-0.24	-0.23	-19.03
GEW-252	10/15/2020 4:42:27 PM	16.3	22.2	9.6	51.9	65.6	65.7	3.42	3.20	0.93	0.94	-20.13
GEW-252	10/15/2020 4:45:11 PM	17.2	25.2	8.7	48.9	66.9	66.9	2.69	1.70	-0.64	-0.65	-20.13

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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-252	10/21/2020 2:21:12 PM	36.1	46.7	0.1	17.1	99.1	98.9	3.36	7.44	-2.58	-2.57	-19.28
GEW-252	10/21/2020 2:23:12 PM	39.4	45.8	0.0	14.8	103.1	103.8	8.46	9.08	-3.39	-3.39	-19.41
GEW-252	10/27/2020 9:53:45 AM	40.3	47.1	0.0	12.6	76.5	76.6	6.15	9.86	-7.42	-7.42	-19.83
GEW-252	10/27/2020 10:04:16 AM	40.3	46.5	0.0	13.2	76.6	76.8	7.53	12.35	-7.42	-7.42	-19.65
GEW-253	10/24/2020 8:01:48 AM	0.8	60.8	0.0	38.4	44.0	44.0	14.49	14.65	0.07	0.07	-19.03
GEW-253	10/24/2020 8:05:03 AM	0.6	66.6	0.0	32.8	70.4	72.0	2.38	2.37	-0.17	-0.16	-19.62
GEW-253	10/27/2020 11:44:52 AM	5.8	20.9	9.4	63.9	131.3	131.5	2.40	1.52	-0.11	-0.10	-19.46
GEW-253	10/27/2020 11:50:00 AM	6.2	19.6	9.4	64.8	130.9	130.9	1.07	1.07	-0.11	-0.11	-19.40
GEW-25	10/7/2020 11:11:52 AM	57.4	38.8	0.0	3.8	88.2	88.2	8.56	7.66	-1.21	-1.21	-13.16
GEW-25	10/12/2020 2:01:09 PM	60.9	37.6	0.0	1.5	77.4	77.4	5.90	4.09	-0.57	-0.58	-13.53
GEW-25	10/12/2020 2:07:31 PM	60.6	37.0	0.0	2.4	76.6	76.6	11.43	7.36	-1.49	-1.48	-13.53
GEW-25	10/19/2020 11:35:23 AM	52.5	38.1	0.0	9.4	63.0	63.0	7.05	4.99	-1.51	-1.52	-13.89
GEW-25	10/29/2020 2:06:45 PM	59.0	35.0	0.0	6.0	61.8	61.8	2.71	2.71	-1.18	-1.18	-13.40
GEW-25	10/29/2020 2:07:55 PM	58.1	35.6	0.0	6.3	62.1	62.2	5.94	12.00	-1.45	-1.43	-13.22
GIW-01	10/7/2020 1:32:53 PM	32.7	54.3	0.0	13.0	143.2	143.2	6.64	6.39	-0.85	-0.82	-16.10
GIW-01	10/7/2020 1:33:43 PM	32.1	55.8	0.0	12.1	143.5	143.2	8.00	8.00	-0.82	-0.82	-16.10
GIW-01	10/12/2020 10:24:21 AM	33.8	57.4	0.3	8.5	130.0	130.0	5.33	6.12	-1.07	-1.07	-17.72
GIW-01	10/12/2020 10:33:53 AM	33.0	59.6	0.3	7.1	122.6	122.6	3.05	3.05	-1.32	-1.29	-17.63
GIW-01	10/19/2020 8:43:14 AM	33.6	51.1	0.4	14.9	112.7	112.7	12.23	10.36	-1.22	-1.21	-19.20
GIW-01	10/28/2020 10:16:10 AM	35.0	55.4	0.1	9.5	123.5	123.7	10.56	10.56	-1.01	-1.01	-17.93
GIW-02	10/7/2020 1:36:09 PM	8.7	43.6	3.5	44.2	96.9	97.0	3.42	3.60	-0.19	-0.18	-18.67
GIW-02	10/12/2020 1:30:49 PM	9.1	35.7	5.0	50.2	78.9	79.0	3.70	2.86	-0.43	-0.43	-19.24
GIW-02	10/12/2020 1:38:10 PM	9.1	35.8	4.7	50.4	81.0	81.0	1.16	1.16	-0.29	-0.30	-18.60
GIW-02	10/19/2020 8:45:31 AM	8.4	38.3	4.8	48.5	45.8	45.8	2.16	2.16	-0.25	-0.25	-19.62
GIW-02	10/28/2020 10:19:11 AM	8.6	45.1	3.8	42.5	50.6	50.6	1.75	1.23	-0.21	-0.21	-18.65
GIW-03	10/7/2020 1:47:38 PM	22.1	48.3	0.0	29.6	99.4	99.6	2.23	1.58	-7.09	-6.96	-18.85
GIW-03	10/12/2020 1:41:47 PM	22.7	44.6	0.2	32.5	77.5	77.5	2.82	2.82	-7.47	-7.47	-18.73
GIW-03	10/12/2020 1:48:00 PM	23.3	44.2	0.1	32.4	76.9	76.8	3.46	3.05	-7.77	-7.77	-18.77
GIW-03	10/19/2020 8:47:48 AM	22.5	44.3	0.0	33.2	46.5	46.5	3.67	1.73	-7.51	-7.51	-19.45
GIW-03	10/28/2020 10:21:40 AM	22.7	47.2	0.0	30.1	50.1	50.2	2.43	2.97	-7.43	-7.43	-18.60
GIW-04	10/7/2020 1:52:22 PM	24.2	53.7	0.2	21.9	96.7	96.7	1.60	1.96	-3.88	-3.88	-18.67
GIW-04	10/12/2020 1:52:14 PM	21.2	40.6	2.9	35.3	80.5	80.5	2.83	4.47	-4.33	-4.33	-18.77
GIW-04	10/12/2020 1:58:09 PM	25.1	47.8	0.4	26.7	80.0	80.1	1.63	1.63	-4.27	-4.27	-19.20
GIW-04	10/19/2020 8:49:55 AM	26.1	44.4	0.0	29.5	45.2	45.3	3.27	2.47	-3.98	-3.98	-19.62
GIW-04	10/28/2020 10:24:10 AM	25.4	48.0	0.4	26.2	49.6	49.6	2.74	1.74	-3.46	-3.47	-18.60
GIW-05	10/7/2020 2:00:54 PM	38.9	41.3	0.1	19.7	100.0	100.1	1.94	1.58	-5.36	-5.40	-18.60
GIW-05	10/12/2020 2:03:20 PM	31.0	32.6	4.0	32.4	78.2	78.2	4.47	4.32	-6.08	-6.08	-18.56
GIW-05	10/12/2020 2:08:52 PM	38.0	38.1	1.1	22.8	78.9	78.9	3.46	3.46	-6.08	-6.08	-18.56
GIW-05	10/19/2020 8:52:54 AM	34.7	35.3	1.5	28.5	45.5	45.5	1.74	1.23	-6.42	-6.42	-19.28
GIW-05	10/28/2020 10:27:23 AM	35.2	40.7	0.5	23.6	49.3	49.3	1.72	1.73	-6.08	-6.08	-18.60

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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-06	10/7/2020 2:03:58 PM	39.2	40.7	0.0	20.1	101.8	102.0	4.18	1.53	-17.88	-17.88	-18.67
GIW-06	10/12/2020 2:19:35 PM	40.6	39.8	0.1	19.5	81.8	81.9	4.01	2.94	-18.57	-18.57	-18.60
GIW-06	10/12/2020 2:24:57 PM	40.6	38.9	0.1	20.4	81.9	81.9	3.33	3.33	-18.57	-18.57	-18.56
GIW-06	10/19/2020 8:54:58 AM	40.1	39.0	0.0	20.9	44.7	44.7	3.58	3.58	-18.53	-18.53	-19.62
GIW-06	10/28/2020 10:29:56 AM	38.6	40.1	0.0	21.3	49.2	49.2	2.67	1.69	-15.20	-15.20	-18.94
GIW-07	10/7/2020 2:13:30 PM	50.5	46.5	0.0	3.0	99.9	100.4	1.95	1.95	-1.93	-1.93	-18.67
GIW-07	10/12/2020 2:28:56 PM	49.7	43.6	0.7	6.0	82.8	83.1	2.59	2.58	-1.91	-1.91	-19.15
GIW-07	10/12/2020 2:38:45 PM	51.8	44.9	0.1	3.2	84.9	84.9	5.76	5.28	-2.04	-2.04	-18.60
GIW-07	10/19/2020 8:56:42 AM	51.6	43.6	0.0	4.8	45.5	45.6	4.48	5.12	-2.01	-2.02	-19.58
GIW-07	10/28/2020 10:32:36 AM	51.6	46.8	0.0	1.6	49.6	49.6	1.74	1.74	-1.82	-1.81	-18.60
GIW-08	10/7/2020 2:15:54 PM	49.2	44.4	0.0	6.4	98.6	98.7	2.99	3.57	-2.48	-2.48	-18.60
GIW-08	10/12/2020 2:42:10 PM	50.9	43.2	0.0	5.9	78.3	78.4	3.49	2.60	-2.77	-2.79	-18.90
GIW-08	10/12/2020 2:48:15 PM	50.9	43.2	0.0	5.9	78.0	78.1	2.02	3.29	-2.79	-2.78	-18.60
GIW-08	10/19/2020 8:58:35 AM	49.9	42.8	0.0	7.3	46.4	46.4	3.91	4.10	-3.19	-3.18	-19.41
GIW-08	10/28/2020 10:34:46 AM	50.7	44.9	0.0	4.4	50.2	50.2	3.01	4.43	-2.87	-2.88	-18.69
GIW-09	10/7/2020 2:18:09 PM	33.3	40.9	0.0	25.8	98.4	98.4	3.41	3.59	-0.56	-0.56	-18.60
GIW-09	10/12/2020 2:58:34 PM	30.2	37.4	1.2	31.2	79.8	80.0	1.17	1.65	-0.93	-0.92	-18.73
GIW-09	10/12/2020 3:03:45 PM	33.0	41.2	0.1	25.7	81.4	81.4	3.29	2.01	-0.91	-0.93	-19.24
GIW-09	10/19/2020 9:00:30 AM	35.0	37.6	0.0	27.4	45.6	45.6	4.13	3.93	-1.09	-1.10	-19.66
GIW-09	10/28/2020 10:39:30 AM	35.7	40.0	0.0	24.3	49.6	49.7	2.47	1.75	-0.93	-0.93	-18.60
GIW-10	10/7/2020 12:05:13 PM	30.4	35.9	0.0	33.7	92.3	92.4	3.22	3.61	-3.33	-3.33	-18.60
GIW-10	10/12/2020 3:07:00 PM	29.7	37.0	0.0	33.3	82.6	82.6	3.05	2.82	-3.60	-3.60	-18.90
GIW-10	10/12/2020 3:17:09 PM	29.8	35.0	0.0	35.2	81.0	81.0	2.83	2.58	-3.66	-3.66	-19.11
GIW-10	10/19/2020 9:02:28 AM	29.2	35.7	0.0	35.1	45.9	45.9	2.47	2.76	-3.68	-3.68	-19.53
GIW-10	10/28/2020 10:42:18 AM	29.3	37.4	0.0	33.3	50.9	50.9	1.22	1.73	-3.46	-3.46	-18.65
GIW-11	10/7/2020 12:03:01 PM	26.9	35.1	0.4	37.6	89.4	89.3	5.39	3.45	-2.31	-2.33	-17.63
GIW-11	10/12/2020 3:21:10 PM	26.9	32.9	0.4	39.8	82.1	82.1	5.66	4.48	-2.46	-2.45	-18.77
GIW-11	10/12/2020 3:26:59 PM	26.8	32.7	0.4	40.1	82.6	82.6	2.58	2.58	-2.52	-2.52	-15.60
GIW-11	10/19/2020 9:04:47 AM	25.9	33.1	0.7	40.3	46.1	46.1	3.03	5.25	-2.54	-2.56	-17.46
GIW-11	10/28/2020 10:46:05 AM	27.3	34.7	0.8	37.2	51.3	51.3	5.35	3.00	-2.38	-2.38	-17.51
GIW-12	10/7/2020 11:57:47 AM	33.0	37.6	0.6	28.8	92.2	92.2	3.63	3.63	-0.38	-0.37	-18.67
GIW-12	10/13/2020 1:43:04 PM	33.4	33.2	0.5	32.9	85.0	85.0	3.66	3.66	-0.33	-0.33	-20.00
GIW-12	10/13/2020 1:48:35 PM	33.4	33.8	0.3	32.5	85.6	85.6	3.27	3.27	-0.34	-0.34	-20.38
GIW-12	10/19/2020 9:07:06 AM	31.5	34.1	0.9	33.5	45.5	45.5	3.52	3.52	-0.45	-0.46	-19.20
GIW-12	10/28/2020 10:48:24 AM	33.0	36.1	0.7	30.2	50.8	50.8	1.74	2.14	-0.33	-0.34	-18.44
GIW-13	10/7/2020 11:55:14 AM	42.4	44.4	0.0	13.2	92.9	92.9	3.03	3.03	-1.38	-1.38	-11.81
GIW-13	10/13/2020 1:51:59 PM	42.2	42.1	0.0	15.7	85.4	85.4	2.00	1.63	-1.38	-1.38	-13.28
GIW-13	10/13/2020 1:58:00 PM	42.1	42.2	0.0	15.7	85.9	86.0	1.63	1.99	-1.41	-1.42	-12.90
GIW-13	10/19/2020 9:08:55 AM	42.3	41.6	0.0	16.1	45.5	45.5	5.42	4.48	-1.65	-1.65	-13.19
GIW-13	10/28/2020 10:50:41 AM	42.7	44.8	0.0	12.5	51.5	51.6	3.01	3.47	-1.44	-1.45	-13.28


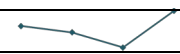
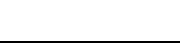
October 2020 Wellfield Monitoring Data - Bridgeton Landfill

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		
LCS-1D	10/2/2020 2:15:54 PM	54.6	37.5	1.0	6.9	67.7	67.7	3.76	3.36	-2.32	-2.33	-14.55
LCS-1D	10/29/2020 9:15:35 AM	50.4	41.7	1.9	6.0	49.3	49.3	3.46	5.47	-5.07	-5.07	-13.87
LCS-2D	10/5/2020 11:12:59 AM	57.2	41.5	0.1	1.2	72.2	72.2	8.32	7.14	-17.00	-17.04	-19.16
LCS-2D	10/30/2020 9:56:42 AM	53.9	46.1	0.0	0.0	58.8	58.9	2.03	2.03	-16.53	-16.53	-18.85
LCS-3D	10/15/2020 8:26:34 AM	31.8	62.7	0.0	5.5	145.6	145.6	7.98	4.53	-11.14	-11.14	-19.62
LCS-3D	10/15/2020 8:28:03 AM	32.2	62.9	0.0	4.9	145.6	145.5	12.73	7.91	-11.06	-11.14	-19.66
LCS-3D	10/29/2020 3:32:14 PM	31.6	56.9	0.0	11.5	143.5	143.5	3.70	6.58	-9.70	-9.74	-19.65
LCS-3D	10/29/2020 3:33:17 PM	31.1	60.4	0.0	8.5	143.5	143.7	3.84	6.89	-9.78	-9.78	-19.22
LCS-4B	10/5/2020 3:19:26 PM	18.0	69.3	0.3	12.4	74.9	75.0	2.37	2.37	-0.61	-0.61	-17.81
LCS-4B	10/29/2020 10:20:11 AM	19.1	67.6	0.9	12.4	45.3	45.3	6.94	4.66	-0.59	-0.58	-18.56
LCS-5A	10/7/2020 10:12:01 AM	55.9	41.3	0.0	2.8	96.0	96.0	36.37	37.34	-5.74	-5.74	-13.40
LCS-5A	10/12/2020 9:55:28 AM	55.7	42.3	0.0	2.0	94.2	94.1	14.42	13.92	-6.37	-6.41	-13.34
LCS-5A	10/19/2020 10:47:12 AM	55.9	42.1	0.0	2.0	88.6	88.6	23.82	19.83	-7.55	-7.55	-13.53
LCS-5A	10/29/2020 9:10:51 AM	56.4	42.0	0.0	1.6	86.1	86.0	38.54	33.66	-7.25	-7.25	-13.83
LCS-5B	10/7/2020 10:26:26 AM	52.7	41.7	0.3	5.3	131.4	130.7	17.36	9.93	-11.09	-11.13	-13.22
LCS-5B	10/7/2020 10:28:50 AM	52.3	41.3	0.6	5.8	129.2	128.9	9.96	9.96	-11.13	-11.13	-13.22
LCS-5B	10/12/2020 10:19:48 AM	52.4	43.0	0.5	4.1	124.7	125.0	13.25	14.16	-11.81	-11.81	-13.22
LCS-5B	10/19/2020 11:01:41 AM	51.9	42.5	0.6	5.0	120.5	121.0	3.58	3.58	-10.84	-10.84	-13.22
LCS-5B	10/29/2020 9:21:56 AM	51.8	42.1	0.7	5.4	111.7	111.6	19.51	17.35	-11.68	-12.32	-13.59
LCS-6B	10/7/2020 11:26:18 AM	52.2	44.5	0.0	3.3	96.6	96.8	7.22	7.22	-0.15	-0.15	-12.61
LCS-6B	10/14/2020 2:15:32 PM	51.4	43.8	0.0	4.8	95.3	95.3	10.82	9.37	1.03	1.03	-12.90
LCS-6B	10/14/2020 2:19:23 PM	51.2	44.0	0.0	4.8	98.0	97.9	5.37	5.37	-0.14	-0.14	-12.81
LCS-6B	10/19/2020 1:49:57 PM	51.3	38.9	0.0	9.8	103.0	102.6	9.23	9.23	-2.18	-2.18	-13.53
LCS-6B	10/19/2020 1:51:26 PM	50.6	40.5	0.0	8.9	102.3	102.3	9.99	10.68	-1.93	-1.92	-13.46
LCS-6B	10/29/2020 2:53:15 PM	52.8	42.6	0.0	4.6	77.7	77.6	11.88	8.40	-0.66	-0.65	-13.34
SEW-002	10/5/2020 11:40:47 AM	36.2	61.4	0.1	2.3	76.2	76.3	4.42	2.05	-0.74	-0.74	-13.10
SEW-002	10/30/2020 10:11:33 AM	14.4	24.5	13.2	47.9	65.7	65.8	4.76	3.15	-3.29	-3.29	-11.50
SEW-002	10/30/2020 10:12:25 AM	14.4	24.2	13.3	48.1	66.8	67.0	5.04	4.89	-3.35	-3.36	-13.02
SEW-003	10/2/2020 2:41:36 PM	3.1	45.3	2.6	49.0	75.0	75.0	4.41	4.56	-0.06	-0.06	-19.53
SEW-003	10/29/2020 9:37:04 AM	4.4	39.2	4.4	52.0	52.6	52.6	5.50	5.50	-0.10	-0.10	-18.99
T-56	10/7/2020 11:42:13 AM	46.5	35.8	0.0	17.7	75.9	75.8	8.37	6.84	-0.04	-0.04	-13.22
T-56	10/14/2020 2:09:03 PM	48.3	35.3	0.0	16.4	74.4	74.3	10.01	9.21	-0.03	-0.05	-13.45
T-56	10/19/2020 2:04:44 PM	43.7	33.9	0.0	22.4	60.0	60.2	19.22	21.16	-0.01	-0.01	-13.77
T-56	10/29/2020 3:08:42 PM	52.2	37.7	0.0	10.1	57.4	57.6	16.81	14.20	-0.05	-0.01	-14.08



ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2020	August 2020	September 2020	October 2020	><30°F	
GEW-002	113.5	113.0	113.2	113.2		
GEW-003	120.0	114.3	111.2	111.8		
GEW-004	114.7	113.0	113.5	114.3		
GEW-005	92.7	90.5	85.1	89.8		
GEW-006	91.4	85.6	85.2	88.4		
GEW-007	96.0	98.3	94.1	92.6		
GEW-008	113.6	114.3	112.2	111.5		
GEW-009	122.1	123.4	121.0	120.5		
GEW-010	105.9	108.2	98.9	100.6		
GEW-013A	182.7	194.3	194.3	195.0		
GEW-015	125.6	125.3	122.3	105.2		
GEW-016R	168.5	166.6	164.7	164.3		
GEW-018B	197.9	200.8	200.1	200.8		
GEW-019A	109.5	111.7	105.3	60.4		
GEW-039	113.0	111.6	109.0	107.2		
GEW-040	102.3	85.8	85.8	79.8		
GEW-041R	109.2	95.5	92.3	89.3		
GEW-042R	107.7	105.0	104.9	104.5		
GEW-043R	116.8	115.3	115.0	114.8		
GEW-044	103.0	92.5	93.4	87.0		
GEW-045R	102.5	99.0	100.8	100.1		
GEW-046R	105.2	105.5	106.5	106.5		
GEW-047R	108.2	106.0	107.1	110.2		
GEW-048	100.8	98.7	97.2	98.7		
GEW-049	103.8	96.1	97.0	94.3		
GEW-050	103.8	104.3	100.3	99.6		
GEW-051	121.8	121.5	117.6	116.2		
GEW-052	110.0	110.8	105.4	103.8		
GEW-053	143.9	142.5	142.0	141.9		
GEW-054	146.3	145.9	145.9	145.1		
GEW-055	130.6	130.0	128.9	128.6		
GEW-056R	118.3	118.1	108.0	111.7		
GEW-057B	176.9	171.6	159.0	189.6		
GEW-058A	133.8	134.0	114.8	90.5		
GEW-059R	137.1	143.5	105.8	80.0		
GEW-067A	139.9	197.2	194.9	197.2		
GEW-068A	198.6	179.2	175.3	173.1		
GEW-078R	161.5	159.0	159.9	160.7		
GEW-082R	173.6	172.6	173.1	173.1		


Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2020	August 2020	September 2020	October 2020	><30°F	
GEW-086	176.9	188.9	173.1	142.3		
GEW-087	158.1	195.7	204.7	203.0		
GEW-088	183.3	180.3	183.9	171.6		
GEW-090	169.5	165.7	167.6	162.4		
GEW-091	200.8	197.9	198.6	198.6		
GEW-100	174.7	121.0	154.0	173.2		
GEW-101	99.6	100.4	99.4	99.9		
GEW-102	103.6	97.4	86.4	89.8		
GEW-104	187.6	176.9	182.8	187.0		
GEW-105	139.0	136.2	126.7	120.5		
GEW-106	171.6	175.1	168.1	136.3		
GEW-107	142.2	140.0	142.9	123.5		
GEW-108	165.7	161.1	158.5	143.9		
GEW-109	112.2	103.9	106.7	104.0		
GEW-110	129.4	130.7	125.0	110.0		
GEW-113	179.2	179.2	179.2	177.5		
GEW-116	150.3	145.9	146.3	144.9		
GEW-117	149.1	142.9	133.8	144.2		
GEW-118	198.6	200.7	201.7	203.0		
GEW-120	120.5	118.7	119.0	117.3		
GEW-121	153.3	148.0	143.2	132.6		
GEW-122	118.4	111.3	97.1	106.2		
GEW-123	116.3	93.0	82.5	101.1		
GEW-124	94.4	103.0	78.6	90.8		
GEW-125	107.5	103.3	98.2	84.2		
GEW-126	107.5	106.2	103.6	94.8		
GEW-127	117.3	114.5	106.7	101.1		
GEW-128	--	--	--	--		Temporarily decommissioned
GEW-129	128.9	128.6	121.8	122.9		
GEW-130	154.0	153.1	153.3	151.3		
GEW-131	141.9	137.4	140.6	125.6		
GEW-132	141.9	144.9	142.9	140.6		
GEW-133	157.3	152.5	147.7	132.9		
GEW-134	107.2	104.8	90.2	111.5		
GEW-135	126.7	135.2	131.4	127.5		
GEW-137	105.9	105.8	99.6	93.9		
GEW-138	--	--	--	--		Temporarily decommissioned

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2020	August 2020	September 2020	October 2020	><30°F	
GEW-139	160.7	151.7	148.0	138.7		
GEW-140	147.7	114.0	78.8	66.8		
GEW-144	98.7	108.7	98.4	70.7		
GEW-145	104.8	96.3	90.7	92.9		
GEW-147	162.9	161.1	161.2	159.8		
GEW-148	162.1	156.0	154.0	106.5		
GEW-149	102.1	95.3	96.5	73.9		
GEW-150	169.0	168.1	163.3	156.5		
GEW-151	106.4	126.7	118.1	87.2		
GEW-152	110.2	111.5	109.7	84.2		
GEW-153	125.3	118.9	101.9	79.6		
GEW-154	--	--	--	--		Temporarily decommissioned
GEW-155	--	--	--	--		Temporarily decommissioned
GEW-156	131.7	139.8	127.5	120.2		
GEW-157	110.9	110.0	97.7	95.8		
GEW-158	118.1	126.6	121.0	98.4		
GEW-159	--	--	--	--		Temporarily decommissioned
GEW-160	104.0	104.5	98.4	103.3		
GEW-161	123.7	120.2	117.1	124.9		
GEW-162	102.8	96.5	96.1	96.7		
GEW-163	133.3	126.0	126.5	117.3		
GEW-164	142.7	141.2	138.3	135.4		
GEW-165	148.0	150.6	142.2	143.5		
GEW-166	168.5	168.5	159.5	164.7		
GEW-167	151.3	148.4	152.1	152.9		
GEW-168	120.7	116.3	114.4	100.3		
GEW-169	139.0	137.7	128.0	121.0		
GEW-170	145.2	139.6	121.3	123.4		
GEW-171	112.0	103.8	109.5	98.7		
GEW-172	151.7	146.3	141.9	141.5		
GEW-173	--	--	--	--		Temporarily decommissioned
GEW-174	128.8	123.4	116.3	86.3		
GEW-175	136.9	136.5	135.5	138.7		
GEW-176	--	--	--	--		Temporarily decommissioned
GEW-177	168.3	167.8	165.9	165.2		
GEW-178	102.5	93.9	97.9	96.3		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2020	August 2020	September 2020	October 2020	><30°F	
GEW-179	103.8	100.9	100.4	100.1		
GEW-180	102.3	93.1	95.8	79.2		
GEW-181	102.5	97.0	97.0	97.0		
GEW-182	--	--	--	--		Temporarily decommissioned
GEW-184	--	--	--	--		Temporarily decommissioned
GEW-185	121.0	93.7	105.2	87.3		
GEW-186	104.8	109.2	92.9	94.6		
GEW-187	119.4	116.0	117.3	112.8		
GEW-188	--	--	--	--		Temporarily decommissioned
GEW-217	179.2	149.1	156.5	168.1		
GEW-218	125.8	121.5	120.7	115.8		
GEW-219	--	--	--	--		Temporarily decommissioned
GEW-220	183.9	184.5	161.6	154.2		
GEW-221	134.1	127.8	117.3	81.2		
GEW-222	100.1	90.0	98.9	85.4		
GEW-223	139.1	132.6	125.6	136.1		
GEW-224	156.9	156.5	154.9	154.0		
GEW-225	161.6	149.1	157.3	159.4		
GEW-226	178.0	175.8	175.8	175.8		
GEW-227	192.3	187.0	187.0	192.3		
GEW-228	190.4	183.9	191.6	182.1		
GEW-229	106.7	114.0	101.6	113.6		
GEW-230	164.3	158.1	161.6	156.2		
GEW-231	--	-	--	--		Temporarily decommissioned
GEW-232	166.0	165.7	161.6	161.0		
GEW-233	126.9	130.6	111.5	125.8		
GEW-234	200.8	203.0	199.4	203.1		
GEW-235	144.9	140.6	145.4	135.3		
GEW-236	203.9	204.7	204.7	203.9		
GEW-237	152.5	151.0	149.5	146.6		
GEW-238	192.3	191.9	190.9	188.8		
GEW-239	202.3	202.3	202.3	203.1		
GEW-240	200.1	198.6	194.5	192.3		
GEW-241	--	--	--	65.1		
GEW-242	--	--	--	48.5		
GEW-243	--	--	--	45.6		

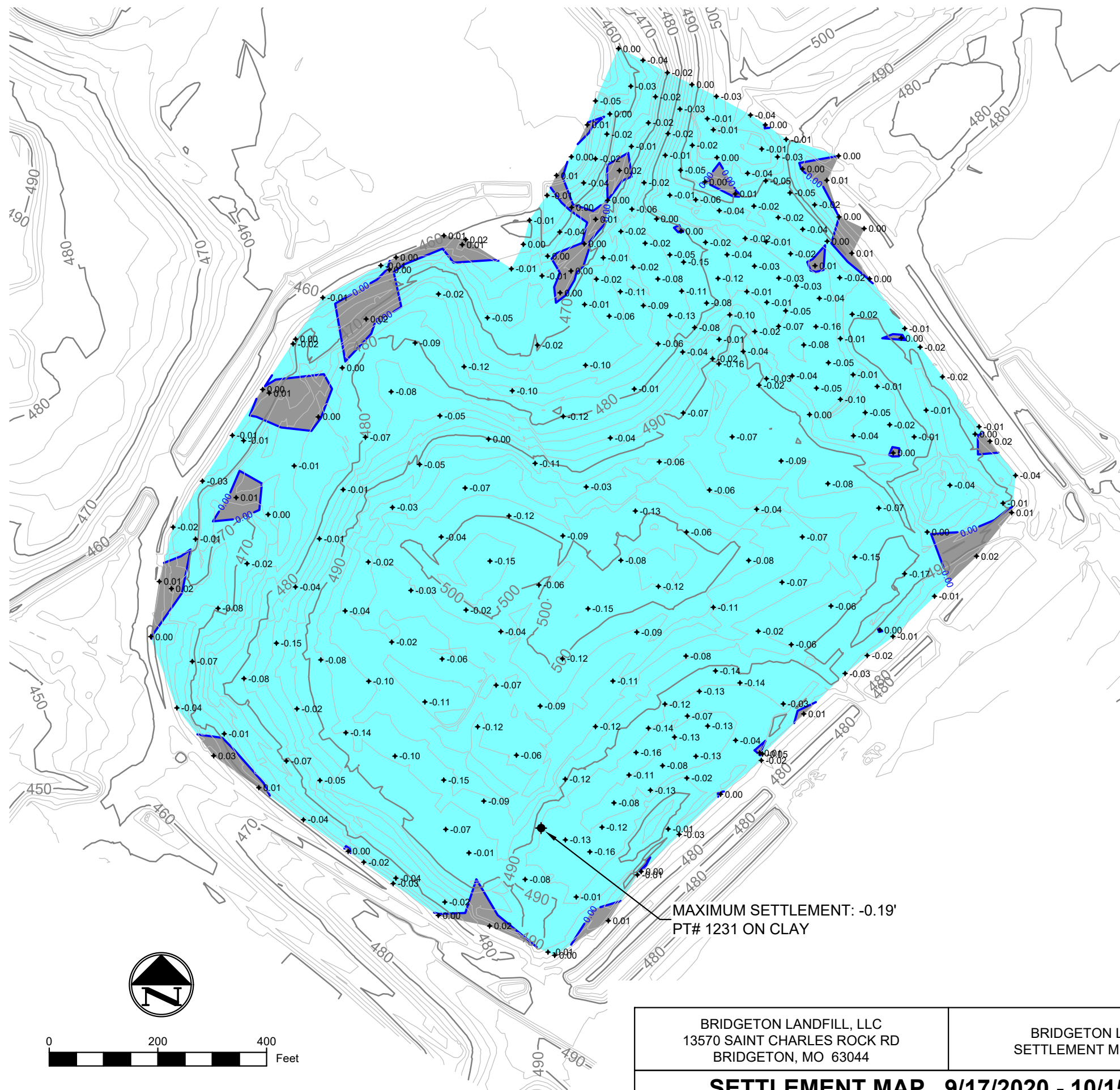
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2020	August 2020	September 2020	October 2020	><30°F	
GEW-244	--	--	--	56.5		
GEW-245	--	--	--	75.0		
GEW-246	--	--	--	79.1		
GEW-247	--	--	--	63.1		
GEW-248	--	--	--	75.8		
GEW-249	--	--	--	61.8		
GEW-250	--	--	--	115.5		
GEW-251	--	--	--	64.1		
GEW-252	--	--	--	103.8		
GEW-253	--	--	--	131.5		
GEW-2S	104.7	99.7	88.2	88.2		
GIW-01	149.5	145.6	139.3	143.5		
GIW-02	108.2	94.4	81.5	97.0		
GIW-03	104.8	100.1	80.5	99.6		
GIW-04	102.3	95.6	83.5	96.7		
GIW-05	106.5	103.0	84.4	100.1		
GIW-06	105.4	100.6	84.4	102.0		
GIW-07	103.0	97.2	86.3	100.4		
GIW-08	108.0	101.3	88.9	98.7		
GIW-09	100.9	100.8	91.0	98.4		
GIW-10	102.2	97.7	90.8	92.4		
GIW-11	100.1	96.7	90.5	89.4		
GIW-12	102.1	95.0	87.7	92.2		
GIW-13	101.6	98.9	86.1	92.9		
LCS-1D	101.8	92.5	89.3	67.7		
LCS-2D	109.0	88.2	100.7	72.2		
LCS-3D	166.1	161.1	162.9	145.6		
LCS-4B	99.1	98.9	94.8	75.0		
LCS-5A	97.3	102.1	103.8	96.0		
LCS-5B	139.7	140.0	125.6	131.4		
LCS-6B	108.5	104.5	106.5	103.0		
SEW-002	105.0	107.1	93.4	76.3		
SEW-003	107.5	98.7	94.3	75.0		
T-56	84.0	81.9	77.0	75.9		

-- = Indicates no data available.

ATTACHMENT E

SETTLEMENT FRONT MAP



MAXIMUM SETTLEMENT: -0.19'
PT# 1231 ON CLAY

Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	1,459,288.55	Cyan
6	0.00	1.00	73,229.70	Grey

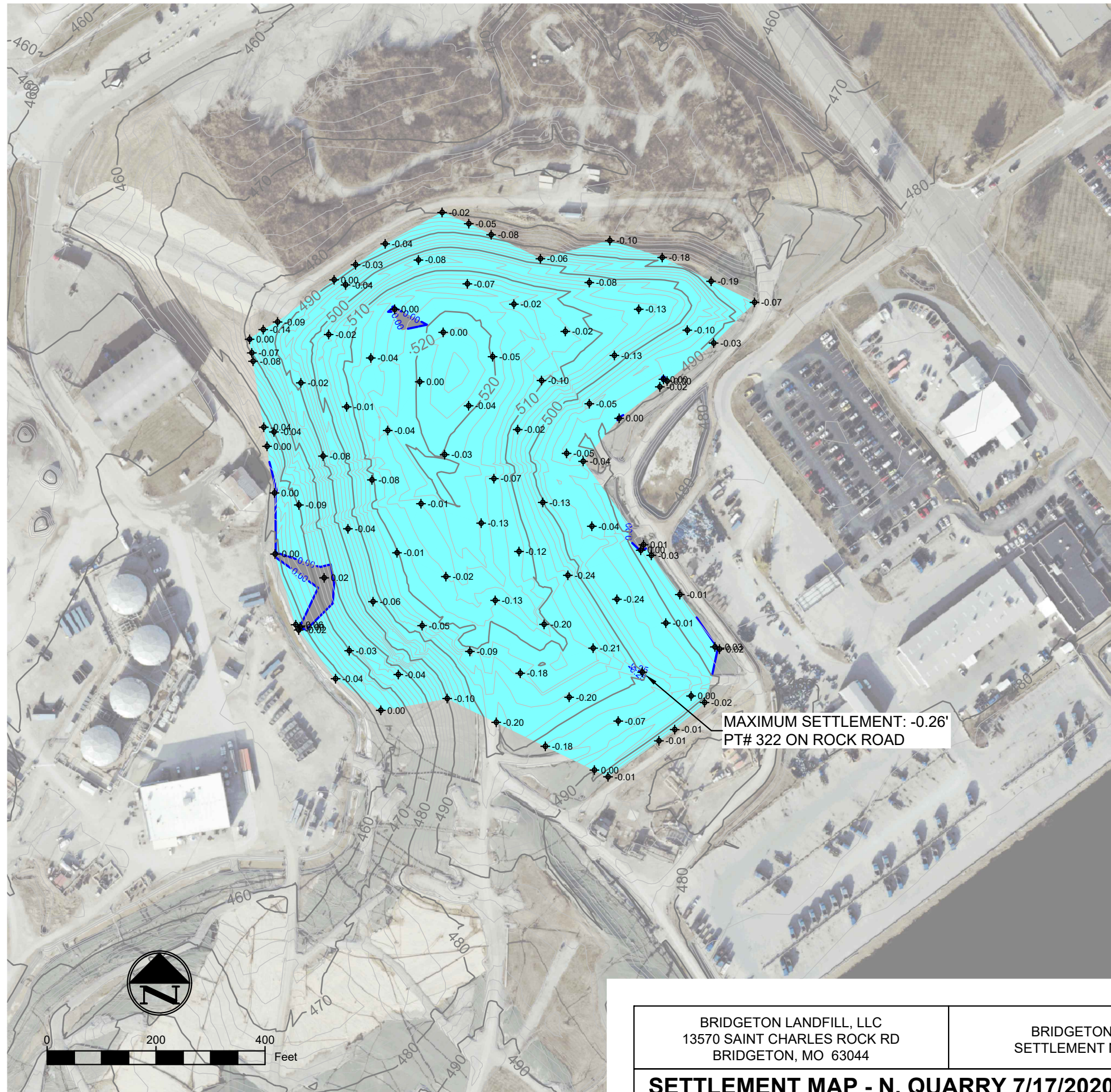
LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
 - 12-10-2019 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - 0.3 SPOT ELEVATION DIFFERENCE (9-17-2020 to 10-15-2020)
 - 10-2020 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.26' PER 28 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR OCTOBER 2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 9-17-20 FROM SPOT ELEVATIONS SURVEYED ON 10-15-20.
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	Engineering for a Better World FEEZOR ENGINEERING, INC.
SETTLEMENT MAP 9/17/2020 - 10/15/2020		OCTOBER 2020 DESIGNED BY: IN APPROVED BY: DRF
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\User\Desktop\Feezor Engineering\Bridgeton\100-149BT-145 (Agreed Order Reporting)\Monthly Reports\2020\10-2020 Report\Internal Draft\Site Data\Settlement\Settlement And Fill 10-15-2020.dwg		REVISION DATE
		DRAWING NO.: 001




Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Blue
2	-4.00	-3.00	0.00	Light Blue
3	-3.00	-2.00	0.00	Very Light Blue
4	-2.00	-1.00	0.00	Lightest Blue
5	-1.00	0.00	613,923.91	Cyan
6	0.00	1.00	7,559.32	Grey

LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
- 12-10-2019 TOPOGRAPHY (10' CONTOUR)
- MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
- MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
- SPOT ELEVATION DIFFERENCE (7-17-2020 to 10-15-2020)
- 10-2020** *SETTLEMENT FRONT CONTOUR FOR AREA WITH 4.05' PER 90 DAYS FOR CURRENT PERIOD OF DAYS
*NONE FOR 7-17-2020 THROUGH 10-15-2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 10-15-20 FROM SPOT ELEVATIONS SURVEYED ON 7-17-20.
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	
SETTLEMENT MAP - N. QUARRY 7/17/2020 - 10/15/2020		OCTOBER 2020 DESIGNED BY: IN APPROVED BY: DRF
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\User\Desktop\Feezor Engineering\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Quarterly Settlement\2020-10\Quarterly NQ Settlement 10-15-2020.dwg		REVISION DATE
		DRAWING NO.: 003

ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant

October 2020

Liquid Characterization Data

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

Hauled Disposal to MSD – Bissell Point

Date	Waste	Source	Transporter	Quantity
10/1/2020				0
10/2/2020				0
10/3/2020				0
10/4/2020				0
10/5/2020				0
10/6/2020				0
10/7/2020				0
10/8/2020				0
10/9/2020				0
10/10/2020				0
10/11/2020				0
10/12/2020				0
10/13/2020				0
10/14/2020				0
10/15/2020				0
10/16/2020	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
10/17/2020				0
10/18/2020				0
10/19/2020				0
10/20/2020				0
10/21/2020				0
10/22/2020				0
10/23/2020				0
10/24/2020				0
10/25/2020				0
10/26/2020				0
10/27/2020				0
10/28/2020				0
10/29/2020				0
10/30/2020				0
10/31/2020				0
Total				0

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
10/1/2020			171,412
10/2/2020			175,436
10/3/2020			131,784
10/4/2020			121,832
10/5/2020			151,224
10/6/2020			127,936
10/7/2020			157,940
10/8/2020			124,612
10/9/2020			136,088
10/10/2020			137,800
10/11/2020			130,128
10/12/2020			123,044
10/13/2020			123,584
10/14/2020			128,460
10/15/2020			159,932
10/16/2020	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	165,388
10/17/2020			165,920
10/18/2020			154,112
10/19/2020			107,672
10/20/2020			166,964
10/21/2020			154,456
10/22/2020			167,812
10/23/2020			157,524
10/24/2020			129,064
10/25/2020			166,380
10/26/2020			139,668
10/27/2020			161,652
10/28/2020			162,300
10/29/2020			171,296
10/30/2020			190,756
10/31/2020			180,608
Total			4,642,784

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes
October 2020

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 2,801,164 gallons. Therefore, the total leachate collected was 3,692,595 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	124,751
LCS-4B	0
LCS-5A	723,840
LCS-5B	30,336
LCS-6B	12,504

ATTACHMENT H

SLIP FAILURE AND SEPARATION ASSESSMENT



October 30, 2020

Ms. Erin Fanning
Division Manager
Bridgeton Landfill, LLC.
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Bridgeton Slip Failure and Separation Assessment
3rd Quarter 2020 Inspection

Dear Erin

On September 23, 2020, I performed an inspection of the Bridgeton Landfill for the purpose of identifying any visual evidence of instability or incipient failure. The inspection included the North and South Quarry fill areas. This inspection was for the 3rd quarter of 2020. The previous inspection was performed on June 18, 2020.

The observation of the slopes for both the North and South Quarry areas was performed to look for telltale signs of movements related to instability, including areas of suspension of the membrane on the upslope areas that would result if scarping, not visible due to the temporary membrane cap, existed. In addition, areas that showed indicated localized differential settlement were walked over to determine if any open tension cracking, an indication of separation, was present. The observations were made while walking along the areas within the landfill boundaries.

The inspection did not identify any previously unobserved (and reported) movements or signs of movement within the North or South Quarry that could be potential signs of instability. The landfill surface in the South Quarry shows signs of continued settlement with minor areas of tension in the membrane along the eastern side approximately above the underlying Quarry wall related to differential settlement in the area.

Since the quarterly inspections were begun in 2013, the sloping portions of the landfill are noticeably flatter and therefore, less prone to instability. As mentioned in the past few inspection reports, there are very few areas within the heat-affected portions of the South Quarry that have slopes exceeding 20%. This general reduction in vertical relief has essentially eliminated any potential for instability of any consequence in the South Quarry. The only slopes that are close to the original ground surface slopes in the South Quarry are those south of the neck area. These areas were examined for any signs of movement and none was observed.

Fill materials continue to be placed in the locally depressed areas to allow for drainage of stormwater in the South Quarry. No open tension cracking was indicated in area of the differential settlement when pressing the membrane down to contact the underlying ground surface in this area. Fill material placement and lining was ongoing northeast of the north quarry fill limits at the time of this inspection.

The North Quarry cap construction has been completed since the second quarter inspection of 2017. No signs of instability were observed in the North Quarry.

In addition, a review of the monthly settlement at grid points in the South Quarry for the past quarter and settlement in the North Quarry between July 27, 2020 and October 15, 2020 was performed. I did not see any indication of instability in the data. No indication of instability was observed in the South Quarry based on settlement patterns. As mentioned in previous reports, the Bridgeton site has not exhibited a coupling of instability and settlement. .

This is the thirty-first (32) review I have performed of this type at the Bridgeton Landfill since the fall of 2012. To date, no signs of impending instability of any consequence has been identified or occurred.

I hope this information is helpful to you. Please call if there are any questions.

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Sincerely,



Peter Carey, P.E.
Feezor Engineering, Inc.