Commonwealth of Virginia

Blalock, Susan <susan.blalock@deq.virginia.gov>

Fwd: FW: Semi-Monthly Daily LFG Well Temperature and Status Update

1 message

Blalock, Susan <susan.blalock@deq.virginia.gov> Thu, Jun 2, 2022 at 9:02 AM
To: Susan Blalock <susan.blalock@deq.virginia.gov>

From: King, Brandon <BKing@scsengineers.com>
Sent: Wednesday, June 1, 2022 5:44 PM
To: crystal.bazyk@deq.virginia.gov; hall.kristen@epa.gov; jeff.hurst@deq.virginia.gov; willard.erinm@epa.gov; stacy.bowers@deq.virginia.gov; David Cochran <dcochran@bristolva.org>; mmaine@bristolva.org; Randall Eads <CityManager@bristolva.org>
Cc: Lock, Tom <TLock@scsengineers.com>; Dick, Bob <BDick@scsengineers.com>; Nachman, Lucas <LNachman@scsengineers.com>; Warren, Charles <CWarren@scsengineers.com>
Subject: RE: Semi-Monthly Daily LFG Well Temperature and Status Update

Ms. Hall and Ms. Bazyk,

In accordance with EPA's letter, "Approval of Higher Operating Temperature Values of Landfill Gas Wells and Submission of Gas Treatment Alternatives at the Bristol Virginia Integrated Solid Waste Facility" from August 2021, I am providing the June 1, 2022 status report on the existing wells, expansion of the gas collection system, and continuing operating and monitoring results, covering the period from May 15-31, 2022.

Let me know if you have any questions.

Thank you,

D. Brandon King

Project Manager

SCS Engineers

15521 Midlothian Turnpike

Suite 305

Midlothian, VA 23113

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Semi-monthly Daily LFG Well Temperature Status Update_6-1-22.pdf
1123K

June 1, 2022

File No. 02218208.04

MEMORANDUM

TO: Kristin Hall, EPA Region III
Crystal Bayzk, VDEQ-SWRO

FROM: D. Brandon King, SCS Engineers
Robert E. Dick, SCS Engineers

SUBJECT: Semi-monthly Status Update – May 15th through May 31st, 2022
Bristol Integrated Waste Management Facility, Bristol, Virginia

In accordance with the Environmental Protection Agency (EPA) Region III letter, *Approval of Higher Operating Temperature Values for Landfill Gas Wells and Submission of Gas Treatment Alternatives at the Bristol Virginia Integrated Solid Waste Management Facility*, dated 8/23/21, SCS is submitting this semi-monthly status update to satisfy the condition of compliance provision #2. This compliance provision report includes daily temperature readings of the existing and new wells installed. In addition, this report includes a summary of work accomplished during this reporting period of 5/15/22 through 5/31/22, pursuant of compliance provision #2.

DAILY TEMPERATURE READINGS

Daily temperature readings were recorded throughout the second half of May and displayed on the attached table. Existing wells GW-31R and GW-37 continue to exhibit temperatures at or near 160F, while existing wells GW-46 and GW-47exhibited temperatures below 145F. New well GW-64 recorded a temperature just above 145F from 5/19/22 til the end of the month, according to the City's data. New well GW-55 recorded a temperature of 180F. All other LFG wells recorded temperatures below 145F at the end of May. SCS will mobilize to the site to conduct June monthly LFG wellfield monitoring during the first week of June.

LFG ANALYTICAL DATA REVIEW

The City and SCS are still awaiting the EPA's evaluation of the Higher Operating Value for Temperature Request letter submitted to EPA on 3/8/22. Late May 2022, exceedance temperatures persist in HOV requested wells GW-31R, GW-37, and GW-64. However, SCS recorded a temperature of 144F in well GW-31R on 5/24/22 and the City recorded 140F at well GW-31R on 5/25/22, thus reestablishing compliance.

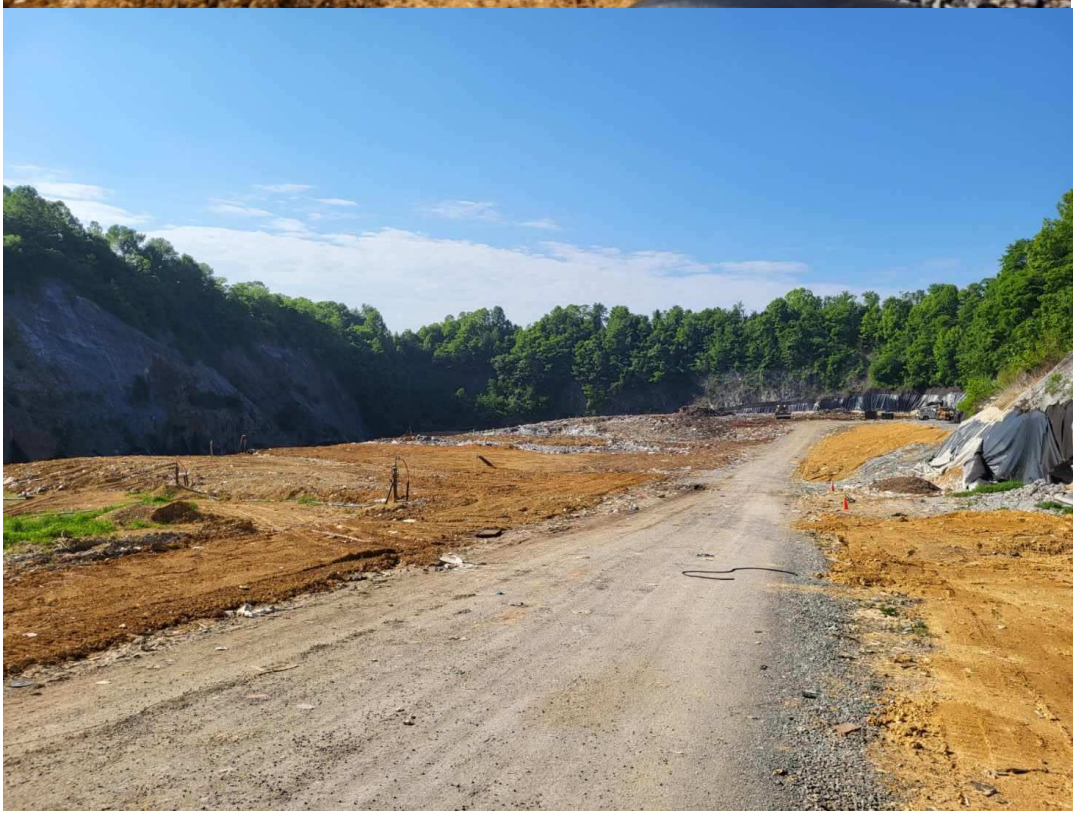
Well GW-55 recorded a temperature of 180F by SCS on 5/16/22. SCS recorded a CO sample via 1.5L Summa Canister at GW-55 on 5/16/22 and had the sample sent to Enthalpy Analytical for EPA Method CO ALT 145 laboratory analysis. The sample was analyzed on 5/20/22 and the results showed CO concentrations below the minimal detection limit (MDL) of 90 parts per million (ppm) for GW-55.

Well GW-55 recorded a temperature of 140F by SCS on 5/24/22. This reestablished compliance in well GW-55. Therefore additional monitoring was not required per Subpart AAAA as the temperature was below 145F. The laboratory analytical results for EPA Method CO ALT 145 from the report dated 5/25/22 are attached for reference.

NON-ROUTINE O&M

SCS Field Services (FS) O&M was on-site the week of 5/23/22 to respond to a loss of vacuum to select LFG extraction wells located on the south side of the new southeast sump of the Permit #588 Landfill. SCS mobilized on 5/24/22 to complete May LFG wellfield monitoring activities and verify the pump was not operational in this sump. Subsequent to verifying the SE sump pump was non-functional, SCS performed a test to verify the two QED AP4.5 Ultra pumps installed in the poly tank (LCT-1) were functional. SCS confirmed the QED pumps were functional. On 5/25/22, SCS O&M pulled one QED AP4.5 Ultra pump from LCT-1, removed the Pump One pump from the SE sump, and installed the QED pump in the SE sump. SCS O&M activated the pump, confirmed condensate in the LFG header stopped surging, and improved available vacuum had been restored to the southern quarry wells. Ingenco was able to restart their plant that afternoon. SCS O&M is anticipated to mobilize to Bristol during the week of 5/31/22 for non-routine O&M and to begin June 2022 LFG wellfield monitoring.

City personnel have been hauling cover soil into Permit #588 Landfill and spreading over exposed areas of waste in non-active filling areas periodically throughout the month of May. There were approximately 200 loads, 20 loads per day, hauled into the Permit #588 Landfill and spread over non-active filling areas over the past two weeks. See reference photos from 6/1/22 below.



EVALUATION OF LFG SYSTEM

There should be several functional dedicated pneumatic dewatering pumps available on standby to be switched out in the event a well has a non-functioning pump. SCS-FS O&M recommends a dedicated pneumatic pump testing and cleaning station be set up on-site in order to confirm the operational status of dewatering pneumatic pumps at the Facility. SCS-FS O&M provided the pump testing and cleaning station quote to the City. However, the City had further discussions with SCS O&M while on-site on 5/25/22 to allow them access to the City's Service Station. The City has the resources to customize a pump cleaning and testing station with a wash bay, table with a vice, and an air compressor from a service truck to test the pneumatic pumps to satisfy this need from O&M.

Furthermore, SCS Engineers advises the City to procure a QED AP4.5 Ultra High-Temperature pneumatic pump with dedicated high temperature tubing bundle to compare overall performance and time duration between pump maintenance (e.g. pump pulling and cleaning) to the One Pump by Pump One. Looking further ahead, it will be important for the City to have at least 4 or 5 additional dewatering pumps that are tested and confirmed to be operational to have on standby. SCS is investigating other pumps that may require less maintenance in these conditions.

Please contact SCS or City personnel if you have any questions or require additional information.

cc: Randall Eads, City of Bristol
Michael Maine, City of Bristol
Jeff Hurst, VDEQ-SWRO
Tom Lock, SCS Field Services
David Cochran, City of Bristol
Erin Willard, EPA Region III
Stacy Bowers, VDEQ-SWRO
Robert E. Dick, P.E., SCS Engineers

City of Bristol Permit #588
Daily Temperature Readings

Note	Well Depth	Date Drill	Phase	Month	May	May	May	May	May	May	May	May	May	May	May	May	May	May	May
				Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday
				Date	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				Well Number																
ADI	102	10/16/2016	Old Well	**35**	69	80	80	90	85	90	90	90	80	80	80	80	80	91	90	93
ADI	70	9/6/2017	Old Well	**39**	113	120	110	120	110	120	130	125	120	120	120	120	120	120	122	117
ADI	100	9/7/2017	Old Well	**40**	116	120	120	120	115	117	120	120	70	70	70	110	110	112	110	110
ADI	110	10/4/2016	Old Well	**46**	69	80	110	149	90	115	110	70	100	110	120	120	145	135	135	136
ADI	120	10/4/2016	Old Well	**47**	69	105	115	115	115	100	85	85	70	70	70	70	120	124	122	125
6	120	9/17/2013	Old Well	**29**																
7	80	5/14/2008	Old Well	**30**																
8	100	8/23/2017	Old Well	**30R**																
9	120	9/17/2013	Old Well	**31**																
10	120	8/30/2017	Old Well	**31R**	139	150	145	145	160	160	160	160	160	150	140	145	150	160	158	160
11	70	7/29/2016	Old Well	**32**																
12	100	7/28/2016	Old Well	**33**																
13	100	7/30/2016	Old Well	**34**																
14	100	8/1/2016	Old Well	**36**																
15	100	8/24/2017	Old Well	**37**	152	150	150	150	150	149	160	160	160	160	145	150	160	160	162	158
16	50	8/25/2017	Old Well	**38**																
17	75	9/8/2017	Old Well	**41**																
18	57	9/8/2017	Old Well	**42**																
19	110	10/7/2016	Old Well	**48**																
1	120	10/1/2021	New Well	**32R**	126	122	138	140	149	142	140	140	140	139	120	140	140	Too Tall	Too Tall	Too Tall
2	110	10/1/2021	New Well	**49**	129	130	130	130	140	140	145	145	140	140	140	139	140	122	120	121
3	96	10/1/2021	New Well	**50**	130	131	130	130	140	140	140	140	140	140	130	140	140	135	140	136
4	114	10/1/2021	New Well	**51**	69	81	80	115	100	140	90	100	90	80	90	90	100	110	109	112
5	109	10/1/2021	New Well	**52**	139	140	140	141	140	115	140	140	130	140	130	140	140	138	140	142
6	91	10/1/2021	New Well	**53**	114	105	110	150	110	140	119	85	70			110	110	110	105	100
7	91	10/1/2021	New Well	**54**	132	140	140	145	40	185	140	150	120	145	145	145	140	Too Tall	Too Tall	Too Tall
8	104	10/1/2021	New Well	**55**	190	Shaking	170	180	180	180	180	190	150	145		180	180	180	180	180
9	109	10/1/2021	New Well	**56**	ould not read	Too Tall	Too Tall	Too Tall	Too Tall	Too Tall	140	110	115	100	100	140	140	Too Tall	Too Tall	Too Tall
10	103	10/1/2021	New Well	**57**	138	140	140	140	140	140	150	79	70	80	100	140	140	140	138	134
11	92	10/1/2021	New Well	**58**	115	110	110	125	120	120	120	70	70	60	70	120	120	118	115	114
12	72	10/1/2021	New Well	**59**	102	110	100	120	115	117	130	90	70	60	60	120	120	120	119	121
13	120	10/1/2021	New Well	**60**		Water	Water	130	Water	125	119	120	120	120	110	120	110	120	130	133
14	105	10/1/2021	New Well	**61**	116	110	110	110	120	120	125	120	120	120	140	110	105	112	110	105
15	120	10/1/2021	New Well	**62**	110	120	120	120	125	130	125	130	120	120	70	110	100	55	47	52
16	117	10/1/2021	New Well	**63**	90	119	100	100	105	100	110	105	100	90	90	90	85	Too Tall	Too Tall	Too Tall
17	120	10/1/2021	New Well	**64**	138	135	130	140	150	150	150	150	150	145	140	145	140	145	148	146
18	100	10/1/2021	New Well	**65**	122	130	125	120	140	140	130	130	130	120	120	110	110	128	130	130
19	102	10/1/2021	New Well	**66**	121	120	120	130	130	130	130	90	70	70	65	130	130	132	130	130
20	100	10/1/2021	New Well	**67**	138	150	140	150	160	150	145	145	130	150	119	140	150	138	140	138
21	75	10/1/2021	New Well	**68**	114	116	110	120	125	120	130	130	120	120	120	120	120	120	120	120

1941 Reymet Road ● Richmond, Virginia 23237 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 22E1021

Client Name:	SCS Field Services - Harrisburg, PA	Date Received:	May 18, 2022 10:15
	4330 Lewis Road, Suite 1	Date Issued:	May 25, 2022 17:04
	Harrisburg, PA 17111	Project Number:	0722002.00
Submitted To:	Tom Lock	Purchase Order:	
Client Site I.D.:	Bristol		

Enclosed are the results of analyses for samples received by the laboratory on 05/18/2022 10:15. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Technical Director

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

TNI Accredited
VELAP ID 460021

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Submitted To:	Tom Lock	Purchase Order:	
Client Site I.D.:	Bristol		

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
55	22E1021-01	Air	05/18/2022 00:00	05/18/2022 10:15

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Submitted To:	Tom Lock	Project Number:	0722002.00
Client Site I.D.:	Bristol	Purchase Order:	

ANALYTICAL RESULTS

Project Location:

Field Sample #: 55

Sample ID: 22E1021-01

Sample Matrix: Air

Sampled: 5/18/2022 00:00

Sample Type:

Sample Description/Location:

Sub Description/Location:

Canister ID: 063-00305:

Canister Size:

Initial Vacuum(in Hg): 20.6

Final Vacuum(in Hg): 3.2

Receipt Vacuum(in Hg): 3.2

Flow Controller Type:

Flow Controller ID:

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis
ALT-145

Analyte	ppmv Result	MDL	LOQ	Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
Carbon Monoxide, as received	ND	90.0	90.0		9	1	5/20/22 9:14	DFH

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Submitted To:	Tom Lock	Project Number:	0722002.00
Client Site I.D.:	Bristol	Purchase Order:	

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis			**Preparation Method:**	**No Prep VOC GC Air**	
22E1021-01	1.00 mL / 1.00 mL	ALT-145	BFE0765	SFE0700	AG00026
22E1021-01RE1	1.00 mL / 1.00 mL	ALT-145	BFE0765	SFE0740	AG00026

ENTHALPY ANALYTICAL

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Submitted To:	Tom Lock	Project Number:	0722002.00
Client Site I.D.:	Bristol	Purchase Order:	

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BFE0765 - No Prep VOC GC Air										
Blank (BFE0765-BLK1)					Prepared & Analyzed: 05/19/2022					
Carbon Monoxide	<	10.0	ppmv							
LCS (BFE0765-BS1)					Prepared & Analyzed: 05/19/2022					
Methane	4510	500	ppmv	5000		90.2	0-200			
Carbon dioxide	4140	500	ppmv	5000		82.7	0-200			
Oxygen (O2)	4790	500	ppmv	5000		95.9	0-200			
Nitrogen (N2)	4990	500	ppmv	5000		99.7	0-200			
Hydrogen (H2)	5330	200	ppmv	5100		104	0-200			
Carbon Monoxide	4650	10	ppmv	5000		93.1	0-200			
Duplicate (BFE0765-DUP1)				**Source: 22E0594-04**	Prepared & Analyzed: 05/19/2022					
Methane	451000	4500	ppmv		451000			0.0100	25	
Carbon dioxide	297000	4500	ppmv		296000			0.321	25	
Oxygen (O2)	17200	4500	ppmv		17200			0.133	25	
Nitrogen (N2)	202000	4500	ppmv		203000			0.195	25	
Hydrogen (H2)	<	1800	ppmv		<1800			NA	25	
Carbon Monoxide	<	90.0	ppmv		<90.0			NA	25	
Duplicate (BFE0765-DUP2)				**Source: 22E0594-05**	Prepared & Analyzed: 05/19/2022					
Methane	452000	4500	ppmv		450000			0.266	25	
Carbon dioxide	297000	4500	ppmv		297000			0.124	25	
Oxygen (O2)	14600	4500	ppmv		14600			0.113	25	
Hydrogen (H2)	<	1800	ppmv		<1800			NA	25	
Nitrogen (N2)	191000	4500	ppmv		191000			0.130	25	
Carbon Monoxide	<	90.0	ppmv		<90.0			NA	25	
Duplicate (BFE0765-DUP3)				**Source: 22E1017-01**	Prepared & Analyzed: 05/19/2022					
Methane	72100	4500	ppmv		71500			0.750	25	
Carbon dioxide	613000	4500	ppmv		609000			0.666	25	
Oxygen (O2)	<	4500	ppmv		<4500			NA	25	
Hydrogen (H2)	233000	1800	ppmv		231000			0.683	25	
Nitrogen (N2)	11400	4500	ppmv		11300			0.851	25	
Carbon Monoxide	1170	90.0	ppmv		1160			0.935	25	

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Submitted To:	Tom Lock	Project Number:	0722002.00
Client Site I.D.:	Bristol	Purchase Order:	

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BFE0765 - No Prep VOC GC Air										
Duplicate (BFE0765-DUP5)			**Source: 22E1021-01RE1**		Prepared: 05/19/2022 Analyzed: 05/20/2022					
Methane	<	4500	ppmv		<4500			NA	25	
Carbon dioxide	<	4500	ppmv		<4500			NA	25	
Oxygen (O2)	183000	4500	ppmv		183000			0.176	25	
Hydrogen (H2)	<	1800	ppmv		<1800			NA	25	
Nitrogen (N2)	660000	4500	ppmv		658000			0.194	25	
Carbon Monoxide	<	90.0	ppmv		<90.0			NA	25	
Duplicate (BFE0765-DUP6)			**Source: 22E0893-01**		Prepared: 05/19/2022 Analyzed: 05/20/2022					
Methane	400000	4500	ppmv		400000			0.247	25	
Carbon dioxide	281000	4500	ppmv		281000			0.0422	25	
Oxygen (O2)	41500	4500	ppmv		41400			0.334	25	
Hydrogen (H2)	<	1800	ppmv		<1800			NA	25	
Nitrogen (N2)	193000	4500	ppmv		192000			0.333	25	
Carbon Monoxide	<	90.0	ppmv		<90.0			NA	25	

Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications

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Submitted To:	Tom Lock	Project Number:	0722002.00
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Code	Description	Laboratory ID	Expires
MADEP	Massachusetts DEP	M-VA913	06/30/2022
MdDOE	Maryland DE Drinking Water	341	12/31/2022
NC	North Carolina DENR	495	07/31/2022
NCDEQ	North Carolina DEQ	495	12/31/2022
NCDOH	North Carolina Department of Health	51714	07/31/2022
NJDEP	NELAP-New Jersey DEP	VA015	06/30/2022
NYDOH	New York DOH Drinking Water	12096	04/01/2023
PADEP	NELAP-Pennsylvania Certificate #007	68-03503	10/31/2022
VELAP	NELAP-Virginia Certificate #11821	460021	06/14/2022
WVDEP	West Virginia DEP	350	11/30/2022

Qualifiers and Definitions

RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed
PF	Preparation Factor
MDL	Method Detection Limit
LOQ	Limit of Quantitation
ppbv	parts per billion by volume

TIC — Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

All EPA method 3C results are reported as normalized values when the sum total of all evaluated constituents is outside ± 10% of the absolute.

ENTHALPY ANALYTICAL
formerly Air, Water & Soil Laboratories

AIR ANALYSIS
CHAIN OF CUSTODY

Equipment due 5/27/22

COMPANY NAME: SCS Field Services - Harrisburg	INVOICE TO: **Same**	PROJECT NAME/Quote #: **Bristol**
CONTACT:	INVOICE CONTACT:	SITE NAME: Bristol
ADDRESS:	INVOICE ADDRESS:	PROJECT NUMBER: 07220028.00
PHONE #:	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL:	Pretreatment Program:

Is sample for compliance reporting? YES (circled) NO | **Regulatory State:** | Is sample from a chlorinated supply? YES NO (circled) | PWS I.D. #:

SAMPLER NAME (PRINT): Ryan Seymour | SAMPLER SIGNATURE: Ryan Seymour | **Turn Around Time:** Circle: 10 **5 Days** (circled) **or** __ Day

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other LV

063-22E-0019

	CLIENT SAMPLE I.D.	Regulator Info: Flow Controller ID	Regulator Info: Cal Flow (mL/min)	Canister Information: Canister ID	Canister Information: Size (L)	Canister Information: Cleaning Batch ID	Canister Information: LAB Outgoing Canister Vacuum (in Hg)	Canister Information: LAB Receiving Canister Vacuum (in Hg)	Sampling Start Information: Barometric Pres. (in Hg): Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Sampling Stop Information: Barometric Pres. (in Hg): Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)	Ending Sample Temp °F	Matrix (See Codes)	ANALYSIS: Alt 145 CO		
1)	55	LFGST 001		10044	1.4	BC220504-02	20.6	3.2	5/16/22	14:22	25	180	5/16/22	14:28	24	180	LG	x		
2)					1.4												LG	x		
3)																				
4)																				

21.0°C 310 noice no seal

RELINQUISHED: Ryan Seymour | RECEIVED: FedEx | DATE / TIME

RELINQUISHED: FedEx | DATE / TIME | RECEIVED: Daniela Lus 5/18/22 1045 | DATE / TIME

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QC Data Package
Level I ☐
Level II ☐
Level III ☐
Level IV ☐

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Recd: 05/18/2022 Due: 05/25/2022

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