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Fwd: FW: EMO - 21 1015 - Hall (EPA) - Bristol (Reg# 11184) - 09/30/2021 Status Report

1 message

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

Wed, Oct 27, 2021 at 5:32 AM

From: Don Marickovich <dmarickovich@daa.com>
Sent: Friday, October 15, 2021 8:13 PM

To: hall.kristen@epa.gov; Crystal Bazyk <crystal.bazyk@deq.virginia.gov>
Cc: Randall Eads <CityManager@bristolva.org>; John Paul Jones <john.jones@bristolva.org>; Sam Hess <sam.hess@bristolva.org>; Wallace McCulloch <wallace.mcculloch@bristolva.org>; zac.mitchell@bristolva.org; Ernie Hoch <ehoch@daa.com>; Anthony Tomlin <atomlin@daa.com>; Cynthia Garrett <cgarrett@daa.com>

Subject: EMO - 21 1015 - Hall (EPA) - Bristol (Reg# 11184) - 09/30/2021 Status Report
Importance: High

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 October 15, 2021 status report on the existing wells and the well drilling operations.

Existing Wells

During August, September and October 2021, existing wells 35, 39, 40, 46, and 47 were monitored periodically for temperature. Monitoring results are provided in the tables below. Temperatures marked as "ok" were below the 131-degree (55-degree Celsius) threshold. Overall, the temperatures have remained relatively consistent. Gas wells 35 and 39 have remained below 131-degrees whereas wells 40, 46 and 47 remain above the 131-degree level.

Temperature Data (Fahrenheit)																									
Gas Well	August Monitoring Dates																								
	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	21	23	24	25	27	28	30	31
35	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok
39	104.4	100.1	99.5	100.8	107.8	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok
40	156.5	165.8	165.7	170.5	172.6	171.5	172.5	176.3	173.1	175.2	183.8	178	175.5	177.6	176.5	163.8	162.9	94.8	84.6	69.1	72.1	70.4	72.2	96.5	86.3
46	183.2	184.7	181.3	182.3	183.4	184	184.9	170.3	168.6	179.8	186.7	178.6	172.6	170.1	183.8	183.4	181.5	183	167.1	178.2	181.7	148.6	168.1	172.6	170.8
47	194.3	196.5	196.9	197.3	196.4	194.8	195.6	195.9	195.1	195.7	195.9	197.5	197.2	196.5	194.2	194.7	194.3	194.8	193.3	193.1	193.4	190.5	178.7	178.6	180.3

Temperature Data (Fahrenheit)																									
Gas Well	September Monitoring Dates																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
35	ok	ok	ok	ok			ok	ok	ok	ok	ok		ok	ok	ok	ok				ok	ok	ok	ok	ok	
39	ok	ok	ok	ok			ok	ok	ok	ok	ok		ok	ok	ok	ok				ok	ok	ok	ok	ok	
40	94.8	117.5	118.2	121.4			135.5	142.6	157.3	162.5	174.7		178.8	178.6	175.3	173.7				110.4	112.8	145.5	147.9	146.3	
46	145.9	175.3	176.9	177.5			187.7	188.6	187.5	187.2	184.8		183.6	181.3	178.3	180.7				181.2	181.7	182.3	181.9	182.4	
47	179.4	180.2	180.7	179.3			190.2	194.5	192.6	188.2	182.5		178.2	183.5	187.2	184.8				184.5	185.3	186.4	187.3	185.2	

Temperature Data (Fahrenheit)																									
Gas Well	September/October Monitoring Dates																								
	26	27	28	29	30	10/1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
35		ok	ok	ok	ok	ok			ok	ok	ok		ok			ok		ok							
39		ok	ok	ok	ok	ok			ok	ok	ok		ok			ok		ok							
40		152.5	154.7	151.5	157.2	162.4			161.4	158.9	159.4		158.1			160.2		159.9							
46		182.7	180.3	179.5	180.2	184.3			184.9	183.2	183.7		180.2			182.5		181.4							
47		189.4	188.3	187.2	186.9	187.2			187.3	188.5	188.7		186.9			187.3		186.8							

Drilling Operations

1. Aptim has been contracted to install new wells. Well drilling began September 10, 2021. Approximately one well per day is being drilled and installed; with stoppages due to mechanical issues. A total of 17 wells had initially been planned to be installed. However, as the drilling proceeded, the City decided to install 4 additional wells; 66, 67, 68, and 32R for a total of 21. The locations of the 4 additional wells will be included in the layout in future updates.

2. Below is the summary of the gas wells Installed (gas well layout is attached to this email):

Summary of Gas Well Installation							
Gas Well	September/October 2021						
	Date Installed	Design Depth (ft)	Actual Depth (ft)	Max. Waste Temp. (°F)	Decomposition	Water Content	Comments
49		120					
50	9/24/2021	120	96	151	High	Wet	Hit Refusal
51	9/21/2021	120	114	150	High	Wet	Hit Refusal
52	9/22/2021	120	108.7	149	High	Wet	Hit Refusal
53	9/15/2021	120	91	148	High	Wet	Hit Refusal
54	9/16/2021	120	91	169	High	Wet	Hit Refusal
55	9/29/2021	120	104	151	High	wet	Hit Refusal
56	9/25/2021	120	109	150	High	Wet	Hit Refusal
57	9/20/2021	120	103	148	High	Wet	Hit Refusal
58	9/27/2021	120	92	146	High	Wet	Hit Refusal
59	9/17/2021	120	72	147	High	Wet	Hit Refusal
60	9/30/2021	120	120	152	High	Wet	Design Depth
61	10/1/2021	120	105	175	High	Wet	Hit Refusal
62	10/13/2021	120	120	168	High	Wet	Design Depth
63	10/12/2021	117	110	141	High	Wet	Hit Refusal
64	10/2/2021	120	120	158	High	Wet	Design Depth
65	10/11/2021	120	100	142	High	Wet	Hit Refusal
66	10/7/2021	120	102	142	High	Wet	Hit Refusal
67	10/8/2021	120	100	156	High	Wet	Hit Refusal
68	10/15/2021	120	75	133	High	Wet	Hit Refusal
32R	10/14/2021	120	120	168	High	Dry	Design Depth

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[illegible]

Drilling operations were completed today, October 15th.

The next bi-weekly status report will be provided by November 1, 2021. If you have any questions on the information provided, please, contact Mr. Ernest Hoch at (540) 537-0404 or via email at ehoch@daa.com.

Thank you,

Don Marickovich

Senior Design Engineer

Draper Aden Associates

Engineering • Surveying • Environmental Services

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 **Sheet 3 - Proposed Layout - 9-17-21.pdf**
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