

Fwd: FW: EMO - 21 0914 - Hall (EPA) - Bristol (Reg# 11184) - 09/15/2021 Status Report

1 message

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

Tue, Nov 9, 2021 at 3:17 PM

From: Don Marickovich <dmarickovich@daa.com>
Sent: Tuesday, September 14, 2021 3:41 PM
To: hall.kristen@epa.gov; crystal.bazyk@deq.virginia.gov
Cc: Zachary Mitchell (zac.mitchell@bristolva.org) <zac.mitchell@bristolva.org>; Sam Hess (sam.hess@bristolva.org) <sam.hess@bristolva.org>; Ernie Hoch <ehoch@daa.com>; Anthony Tomlin <atomlin@daa.com>; Cynthia Garrett <cgarrett@daa.com>
Subject: EMO - 21 0914 - Hall (EPA) - Bristol (Reg# 11184) - 09/15/2021 Status Report

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

Existing Wells

During August and September 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, temperatures trended down in each of the wells during August. As of the end of August, only wells 46 and 47 had temperatures over the 131-degree threshold. However, the temperatures in 40 have gone back up in September to around 179-degrees, and all three are now over 131-degrees.

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										
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	94.8	117.5	118.2	121.4			135.5	142.6	157.3	162.5	174.7		178.8	178.6										
46	145.9	175.3	176.9	177.5			187.7	188.6	187.5	187.2	184.8		183.6	181.3										
47	179.4	180.2	180.7	179.3			190.2	194.5	192.6	188.2	182.5		178.2	183.5										

Drilling Operations

1. **GW-59** - Aptim has been contracted to install new wells. Well drilling began last Friday, September 10, 2021. The first well attempted was GW-59, with a design depth of 129', located on the southern end of the quarry (please see the attached drawing). The bore hole was advanced to 70' when landfilled mining conveyor belts were encountered, and the borehole could not be advanced further. At that point the drill rig had a mechanical failure. Conveyor belts have been encountered in the past and sometimes cannot be drilled through. The waste temperatures varied from 126-degrees to 147-degrees, and the waste was very wet and significantly decomposed. It was decided to install the well to 70', but before that could be done, the well caved in. Therefore, no well was installed. Another well adjacent to the original GW-59 location will be attempted later in the project.

2. The drill rig was repaired today, the 14th and drilling will be resumed on tomorrow, the 15th.

3. Summary of Gas Wells Installed: **None as of this report**

Summary of Gas Well Installation							
Gas Well	September/October 2021						
	Date Installed	Design Depth (ft)	Actual Depth (ft)	Waste Temp. (°F)	Decomposition	Casing Material	Comments
49		120					
50		120					
51		120					
52		120					
53		120					
54		120					
55		120					

56		120					
57		120					
58		120					
59		120					
60		120					
61		120					
62		120					
63		117					
64		120					
65		120					

Drilling operations are anticipated to be completed in two to three weeks.

The next bi-weekly status report will be provided by October 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

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