



PETROLEUM MANAGEMENT, INC.

Environmental Services Division

1030 E. Patapsco Avenue ♦ Baltimore, Maryland 21225

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March 15, 2021

Maryland Department of the Environment
Oil Control Program
Attn: Lindley Campbell
1800 Washington Blvd., Suite 620
Baltimore, MD 21230-1719

**RE: Wiley H. Bates Middle School
701 Chase St., Annapolis
MDE Facility ID# 3200
MDE Case# 18-0559-AA**

LPH System Operation & Recovery Report

Dear Ms. Campbell,

In accordance with the MDE directives and approved Work Plan, a permanent and active Liquid Phase Hydrocarbon (LPH) recovery system was installed in groundwater monitoring wells MW-1 and MW-2 due to persisting LPH accumulations. The LPH recovery system was activated on 4/29/20 with skimmer pumps deployed at MW-1 and MW-2.

After a cumulative recovery of 119.5-gallons of LPH with only 0.5 gallons of water as measured on January 27, 2021, an additional 15-gallons of LPH has been recovered with only 0.5 gallons of water. The total cumulative LPH recovery by the system to date is now totaled at 134.5-gallons as last measured on February 24, 2021.

A follow-up LPH System Operation & Recovery Report will be submitted again after all recordings for March 2021 have been totaled. The first quarterly well sampling event for 2021 was completed on February 25, 2021. The results of this sampling event will be reported in a separate submittal.

Attached is our current log of recovery so far.

Please contact our office with any questions or concerns.
Respectfully submitted,

W. Scott Alexander
Environmental Projects Manager

Enc.

cc: *Mr. Christopher Williams
Environmental Health & Safety Manager
Anne Arundel County Public Schools
9034 Fort Smallwood Rd.
Pasadena, MD 21122*

**BATES MIDDLE SCHOOL
Remediation System Recovery Tank Log**

NOTE*QED Skimmer Pumps deployed & activated at MW-1 & MW-2 following final EFR event on 4/29/20. Skimmer floats set at post-EFR groundwater depth of ~14 ft. below top of casing

Date:	Time:	Total Liquid			LPH			Water			LPH thickness		Comments/Notes:
		inches	gallons	gain (+)	inches	gallons	gain (+)	inches	gallons	gain (+)	MW-1	MW-2	
4/30/2020	10:00	2.5	10	10	2.5	10	10	0	0	0			
5/6/2020	10:30	3.5	16.5	6.5	3.5	16.5	6.5	0	0	0			removed top row of inlet screws at MW-1 sk
5/13/2020	11:15	5	28	11.5	5	28	11.5	0	0	0	0.15'	0.08'	removed 2nd row of inlet screws at MW-1 sl
5/19/2020	8:20	6.5	41	13	6.5	41	13	0	0	0			
6/3/2020	9:30	7	46	5	7	46	5	0	0	0	0.06'	0.05'	
6/17/2020	11:30	8	55	9	8	55	9	0	0	0	0.09'	0.05'	removed 2 set screws from 2nd row inlet at
6/30/2020	11:30	8.25	57.5	2.5	8	57	2	0.25	0.5	0.5	0.09'	0.04'	removed 2 set screws from 3rd row inlet at l
7/16/2020	10:15	8.5	60.5	3	8.25	60	3	0.25	0.5	0	0.07'	0.04'	removed 2 more screws from 3rd row inlet &
7/30/2020	12:30	8.5	60.5	0	8.25	60	0	0.25	0.5	0	0.04'	0.04'	no skimmer adjustments made this visit
8/18/2020	10:30	9.25	68.5	8	9	68	8	0.25	0.5	0			MW-1 & MW-2 not measured this visit
9/10/2020	10:00	11	88	19.5	10.75	87.5	19.5	0.25	0.5	0	0.12'	0.04'	
9/24/2020	12:15	11.5	93.5	5.5	11.25	93	5.5	0.25	0.5	0	0.09'	0.06'	removed last row of inlet screws at MW-1 ai
10/8/2020	11:30	12	99	5.5	11.75	98.5	5.5	0.25	0.5	0	0.08'	0.04'	
10/20/2020	10:15	12.25	102	3	12	101.5	3	0.25	0.5	0	1.81'	0.03'	*operating PSI at air compressor had decrea
11/10/2020	11:30	13	111	9	12.75	110.5	9	0.25	0.5	0	0.05'	0.04'	
11/18/2020	8:30	13.25	114	3	13	113.5	3	0.25	0.5	0	0.02'	0.03'	New air compressor installed, dedicated to s
12/8/2020	9:30	13.5	117	3	13.25	116.5	3	0.25	0.5	0	0.03'	0.05	4 rows of skimmer inlets open at MW-1, 3 rc
12/23/2020	12:30	13.5	117	0	13.25	116.5	0	0.25	0.5	0	0.02'	0.03'	
1/13/2021	9:15	13.5	117	0	13.25	116.5	0	0.25	0.5	0	0.13'	0.09'	Air compressor had failed (belt failure) some
1/27/2021	1:30	13.75	120	3	13.5	119.5	3	0.25	0.5	0	0.21'	0.14'	
2/10/2021	9:30	13.75	120	0	13.5	119.5	0	0.25	0.5	0	0.20'	0.14'	
2/24/2021	12:00	15	135	15	14.75	134.5	15	0.25	0.5	0	0.08'	0.05'	System recovered from AC Repair. Gauged c
Cumulative Totals:				135		134.5				0.5			