

OBG | There's a way

January 14, 2019

Mr. Richard Conforti
Environmental Engineer
Office of Waste Management and Radiological Protection
Department of Environmental Quality
PO Box 30241
Lansing, MI 48909-7741

RE: *Quarterly Status Report –October 2018 – December 2018*
Coldwater Road Landfill
1245 East Coldwater Road, Flint, MI
MID 005 356 860
FILE: 15388/68545/Docs

Dear **Mr. Conforti**:

In accordance with requirements of the approved Post-Closure Care Plan, we are providing you with this Quarterly Status Report for the fourth quarter 2018.

1. Work Completed This Reporting Period

- » Dewatering of the leak detection vaults occurred on November 20, 2018, and December 20, 2018.
- » Collected vapor samples from VP-4, VP-5 and VP-6 on October 25, 2018.
- » Collected groundwater samples from newly installed monitoring wells for PFAS the weeks of October 15, 2018, and October 22, 2018.
- » The semiannual Groundwater Monitoring and Leak Detection System (LDS) was conducted the week of November 5, 2018.
- » Sampling of accumulated liquids was conducted on November 20, 2018.
- » Delineation of the wetland was conducted on November 28, 2018 and November 29, 2018.
- » Conducted 2nd phase of PFAS characterization the weeks of November 12, 2018 (temporary well sample collection), December 3, 2018 and December 10, 2018 (well installation).
- » Conducted well development of newly installed monitoring wells and piezometers the weeks of October 1, 2018 and December 10, 2018.
- » Discharge of liquids from the accumulation tank occurred on December 12, 2018 and December 13, 2018. Breakthrough samples were collected from GAC vessels.
- » Began wetland berm construction, storm sewer manhole plugs, and storm sewer catch basin closure activities the week of December 17, 2018.
- » The fourth quarter 2018 site inspection occurred on December 20, 2018.



2. Summaries of Findings

- » Observed one animal burrow on December 20, 2018. There was no signs of activities and the animal burrow was closed out on December 20, 2018. Photo documentation is provided in the attached photo log.
- » Findings for the PFAS and soil vapor investigations will be provided when possible in separate submittals.

3. Summaries of Changes

- » None.

4. Summaries of all Contact with Local Community

- » OBG sampled the residential wells at 1297 and 1302 E. Stanley Road on November 11, 2018, and the residential well at 1320 E Stanley Road on December 4 and 18, 2018. An under the sink point of use filtration system to remove PFAS from the residential well water was installed at 1278 E. Stanley Road on November 25, 2018, and a post filter system sample was collected on November 30, 2018 at this location.

5. Summaries of all Problems

- » None.

6. Actions Being Taken to Rectify Problems

- » None.

7. Changes in Personnel

- » None.

8. Projected Work

- » Dewatering of the leak detection vaults is scheduled for January 17, 2019, February 15, 2019, and March 17, 2019.
- » The annual leak detection and groundwater monitoring will be conducted in June 2019.
- » Sampling and discharge of accumulated liquids will be conducted as needed.
- » The first quarter 2019 site inspection will be conducted in March 2019.

9. Reports/Data

- » The following table presents the vault dewatering and monthly leachate sump data for the fourth quarter:

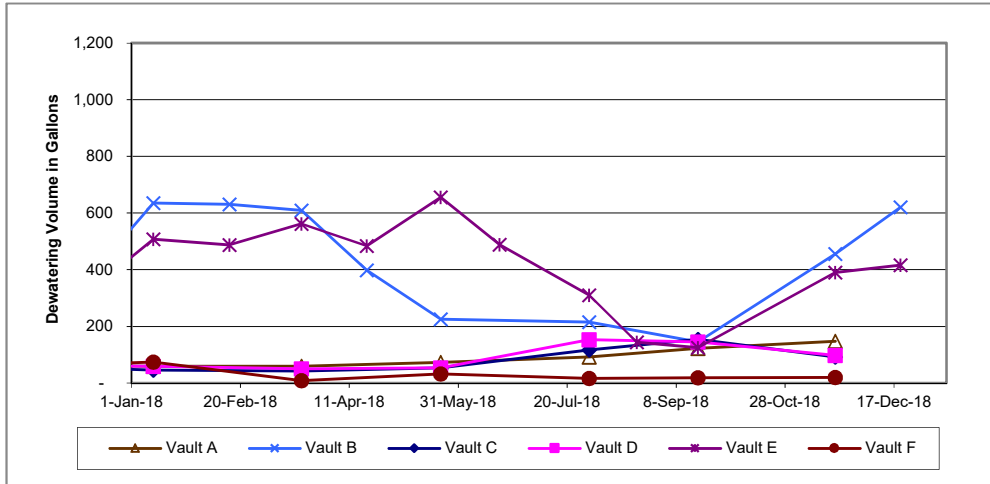
DATE 2018	GALLONS LEAK DET A	GALLONS LEAK DET B	GALLONS LEAK DET C	GALLONS LEAK DET D	GALLONS LEAK DET E	GALLONS LEAK DET F	TOTAL LEAK GALLONS	MONTHLY SUMP VOLUMES GALLONS
Oct-18	--	--	--	--	--	--	--	701**
20-Nov-18	148*	456*	92*	98*	390*	20*	1,204	701
20-Dec-18	--	621	--	--	416	--	1,037	967
TOTAL	148	1,077	92	98	806	20	2,241	2,369

* Indicates 2 month totals; **No flow meter reading was collected, total was averaged.

Total volume of water removed from the vaults during the fourth quarter was 2,241 gallons. According to the master flow meter and discharge records, a total of 2,369 gallons were pumped from the sumps during the fourth quarter.



The following graph presents the vault dewatering data in graphical format for the past year:



10. Active Task 2018 Budget Status

- » Task 1 – Continue Ongoing OMM: 100% complete, 99% of 2018 budget.
- » Task 4 – Fe & Mn Delineation: 0% complete, 0% of 2018 budget.
- » Task 6 – Agency Coord./Negotiation & Reporting: 100% complete, 99% of 2018 budget.
- » Task 7 – Project Management & Coordination: 100% complete, 100% of 2018 budget.
- » Task 9 – PFAS Investigation: 100% complete, 100% of 2018 budget.
- » Task 10 – Vapor Intrusion: 100% complete, 85% of 2018 budget.
- » Task 31 – PFAS Site Characterization: 100% complete, 99% of 2018 budget.
- » Task 36 – PFAS - Remedy/Interim Measure Implementation: 100% complete, 100% of 2018 budget.
- » Task 37 – PFAS - Operation, Maintenance & Monitoring (OMM): 100% complete, 71% of 2018 budget.


Please call me at 313-333-0211 if you have any questions.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Clifford Yantz
Senior Hydrogeologist

cc: Mr. Grant Trigger – RACER Trust
Mr. David Favero – RACER Trust
Mr. Kevin Schneider – O'Brien & Gere




LOCATION: Cell B3 – middle slope		APPROX. LENGTH: 6 inches	APPROX. DEPTH: 2 inches	APPROX. DIAMETER: 4 inches
DATE FOUND: 12/20/2018	DATE CLOSED: 12/20/2018			
NOTES: ID: 2018-12-20-059 PRE repair photo of burrow. Appeared inactive. Filled in burrow. No signs of liner damage.				
LOCATION: Cell B3 – middle slope		APPROX. LENGTH: 6 inches	APPROX. DEPTH: 2 inches	APPROX. DIAMETER: 4 inches
DATE FOUND: 12/20/2018	DATE CLOSED: 12/20/2018			
NOTES: ID: 2018-12-20-059 POST repair photo. Filled in burrow.				

PLOTDATE: 09/18/13 10:58:32 AM SchneiKB

I:\Racer-Trust_15388\68545\Coldwater-Rd-LIDocs\Reports\Quarterly Progress Report\4th - Dec\001 - Animal Burrow Location Map 4th Qrt-2018.mxd



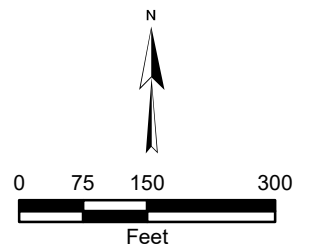
LEGEND

-  LEACHATE COLLECTION SUMP
-  ACCESS PORT FOR LEAK DETECTION VAULT
-  ANIMAL BURROW LOCATION

RACER TRUST
COLDWATER ROAD
LANDFILL FACILITY
FLINT, MICHIGAN

**4TH QUARTER 2018
BURROW LOCATION
MAP**

15388/68545
JANUARY 2019



O'BRIEN & GERE ENGINEERS, INC.