



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

December 18, 2018

Mr. Matt Cutshall
Environmental Compliance Manager
Sheetz, Inc.
5700 Sixth Avenue
Altoona PA 16602

RE: SITE STATUS AND MODIFICATIONS TO SAMPLING PROGRAM
Case No. 2003-1758-FR
Sheetz No. 176
3842 Burkittsville Road, Knoxville
Frederick County, Maryland
Facility I.D. No. 1120

Dear Mr. Cutshall:

The Maryland Department of the Environment's (the Department) Oil Control Program (OCP) recently completed a review of the case file for the above-referenced property, including the *Groundwater Sampling Reduction Request*, dated March 8, 2018. The Oil Control Program required Sheetz, Inc. to continue post-remediation monitoring of a select network of groundwater monitoring wells located adjacent to and hydraulically up and down-gradient from the underground storage tank (UST) system. Sampling of a defined network of private on-site and off-site drinking water supply wells is also required.

The time-series groundwater sampling data document a decreasing trend in the concentrations of dissolved phase petroleum constituents in the monitoring well network. Samples collected from the monitoring well network in November 2017 reported the presence of methyl tertiary-butyl ether (MTBE) above the State action level of 20 parts per billion (ppb) in 3 of the 24 wells sampled at concentrations ranging from 22.6 to 1,420 ppb. The MTBE concentrations in the remaining 21 monitoring wells were either non-detect or less than the 20 ppb action level. The monitoring well with the highest concentrations, MW-13, is located adjacent to the traffic circle and hydraulically down-gradient from the UST system. Currently, the on-site drinking water supply well remains protected with a point-of-entry treatment (POET) system.

Sampling of the off-site private drinking water supply wells at 3823, 3833, and 3839 Burkittsville Road, 854 Jefferson Pike, and 847-A Jefferson Pike was conducted from 2005 to 2017. Sample results have been non-detect for all petroleum-related compounds since 2012. MTBE was never reported above the State action level of 20 ppb. The *Groundwater Sampling Reduction Request* proposes several changes to the sampling regimen including:

- Eliminate monthly gauging of monitoring wells MW-1, MW-4, MW-5, MW-11(A, B, and C), MW-14 (A, B, and C); MW-17 (A, B, and C); and tank field wells TF-1 through TF-6.
- Eliminate sampling of monitoring wells MW-4, MW-8, MW-17 (A, B, and C), MW-20, and tank field wells TF-2, TF-4, TF-6.

- Reduce the sampling frequency of monitoring well MW-5 from quarterly to semi-annually (May and November).
- Eliminate annual sampling of the off-site drinking supply wells at 3823, 3833, and 3839 Burkittsville Road, 854 Jefferson Pike, and 847-A Jefferson Pike.

On May 2, 2018, a fire on the subject property caused damage to the on-site building. No known damage occurred to the UST system, dispensers, or the monitoring well network, but the on-site GAC filtration system servicing the potable well was destroyed. The on-site building is scheduled to be rebuilt and a temporary POET system on the on-site drinking water supply well has been installed. The system was sampled at the influent, midpoint, and effluent on August 22, 2018 and analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene, using EPA Method 524.2. All sampling results were non-detect for petroleum constituents.

Based on the current data, the land use information provided, and the uncertainty as to the future of the development of the property, the Oil Control Program **does not approve** the amendments to the groundwater sampling program with the following exceptions and additions:

- 1) Reduce the groundwater sampling frequency of monitoring wells MW-5 and MW-17 from the current quarterly sampling schedule to semi-annually (May and November) and eliminate tank field wells TF-2, TF-4, and TF-6 from the sampling regime.
- 2) Reduce gauging frequency from monthly to quarterly for monitoring wells MW-1; MW-4; MW-5; MW-11(A, B, and C); MW-14 (A, B, and C); MW-17 (A, B, and C); and tank field wells TF-1 through TF-6.
- 3) Increase the size of the groundwater analytical table (Table 1) to the size of Table 3 in the *Groundwater Sampling Reduction Request*, dated March 8, 2018, in all future reports. Tables must be legible for review.
- 4) Perform a half-mile sensitive receptor survey to include the following:
 - A summary table including, at a minimum, property address, owner name and address, well tag ID, depth of well, casing depth, screen depth, and current status of well usage;
 - Review well completion reports and evaluate whether on-site conditions could potentially impact any off-site drinking water supply wells in the area;
 - Submit copies of field notes documenting field reconnaissance performed to verify the presence or absence of the identified wells within 1,000 feet of the site; and
 - Provide a map of all identified wells within 1,000 feet of the site.
- 5) Notify the OCP at least five (5) working days prior to conducting any scheduled field activities at this site.
- 6) Continue quarterly gauging and semi-annual/annual sampling of the monitoring well network and off-site residences until further direction from the Department.

The Department reserves the right to require additional sampling and gauging based on changing site conditions. Quarterly and semi-annual/annual monitoring of the site and off-site properties will continue as required by the Department. The proposed changes to the monitoring program will be re-visited after the station returns to full operations and the half-mile sensitive receptor survey is received.

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If you have any questions, please contact the case manager, Mr. Nicholas Psenicnik, at 667-203-1016 (email: nicholas.psenicnik@maryland.gov) or me at 410-537-3482 (email: ellen.jackson@maryland.gov).

Sincerely,



Ellen Jackson, Northern Region Supervisor
Remediation and State-Lead Division
Oil Control Program

NJP/nln

cc: Mr. Mark Harris (Environmental Alliance, Inc.)
Mr. Barry Glotfelty (Director of Environmental Health, Frederick County Health Department)
Mr. Andrew B. Miller (Chief, Remediation and State-Lead Division, Oil Control Program)
Mr. Christopher H. Ralston (Program Manager, Oil Control Program)
Ms. Kaley Laleker (Acting Director, Land and Materials Administration)