

Maryland

Department of the Environment

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

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

April 10, 2018

Mr. William A. Chenoweth
Chenoweth and Associates, Inc.
dba Piper's Wine & Spirit Barn
4127 Hanover Pike
Manchester MD 21102

RE: REQUEST FOR ENHANCED MONITORING AND HALF-MILE WELL SURVEY
Case No. 2018-0496-CL
Piper's Wine & Spirit Barn
4127 Hanover Pike, Manchester
Carroll County, Maryland
Facility I.D. No. 17166

Dear Mr. Chenoweth:

The Maryland Department of the Environment's (the Department) Oil Control Program recently completed a review of the registration file for the above-referenced high-risk groundwater use area property. Currently, five underground storage tank (UST) systems are registered as active at this facility: three 8,000-gallon gasohol tanks and two 8,000-gallon diesel tanks. The Department understands the subject property utilizes Stage I and II vapor recovery. Three groundwater monitoring wells were installed in accordance with Code of Maryland Regulations (COMAR) 26.10.02.03-4. Samples collected from the monitoring well network on March 16, 2018 detected benzene at 11.4 parts per billion (ppb) in monitoring well MW-3. The on-site drinking water supply well was sampled on March 30, 2018 and the results remain below regulatory levels for petroleum constituents.

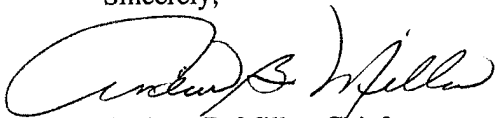
Since this property is located in a high-risk groundwater use area served by a drinking water supply well, the Department requires completion of the following:

- 1) **No later than June 8, 2018**, submit a well survey identifying all drinking water wells (i.e. domestic, non-community/community water supply, agricultural) within a half-mile radius of the subject property and plot on a U.S. Geological Survey map or scaled street map.
 - a. Annotate on this map the 500-ft., 1,000-ft., and 0.5-mile radii.
 - b. Provide a summary table including, at a minimum, property address, property owner name, property owner address, depth of well, casing depth, screen depth, and current status of well usage.
 - c. Review well completion reports and evaluate whether on-site conditions could potentially impact any off-site drinking water supply wells in the area.
 - d. Submit documentation of which supply wells are historic and have been abandoned.
 - e. Submit copies of field notes documenting field reconnaissance performed to verify the presence or absence of wells.
 - f. Provide written documentation of your findings and the list of persons contacted.

- 2) Conduct quarterly (every three months) sampling of the monitoring well network and tank field monitoring pipes until written approval from the Department is received to suspend or reduce the sampling frequency. Sampling events must be conducted in June, September, December, and March. All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene, using EPA Method 8260 and total petroleum hydrocarbons – diesel and gasoline range organics (TPH-DRO and GRO) using EPA Method 8015.
- 3) Conduct quarterly sampling of the on-site drinking water supply well. Sampling events must be conducted in June, September, December, and March. All samples collected must be analyzed for full-suite VOCs, including fuel oxygenates and naphthalene, using EPA Method 524.2. If a granular activated carbon (GAC) filtration system is present, samples must be collected pre-, mid-, and post-filtration.
- 4) All monitoring wells and tank field monitoring pipes must be surveyed to establish top-of-casing elevations and to prepare an accurate to-scale site map with all pertinent features (i.e., monitoring wells, on-site drinking water supply well, tank field area, pump islands, buildings, etc.).
- 5) Within 45 days of each sampling event, submit a quarterly report to the Oil Control Program detailing the results of the event.
- 6) We strongly recommend your environmental consultant sample the drinking water supply well and all monitoring wells and tank field monitoring pipes at the same time so all data is included in each quarterly report submitted.
- 7) When submitting reports, include data summary tables and scaled site maps showing actual sampling locations (i.e., monitoring well and tank field well locations). In the discussion of supplemental sampling events, include details on sampling procedures and describe analytical results in terms of media sampled. Reports must include groundwater flow maps, dissolved concentration maps, and qualitative and quantitative discussions regarding the sampling results and trends.

When submitting documentation to the Oil Control Program, provide three hard copies and a digital copy on a labeled compact disk (CD). If you have any questions, please contact the case manager, Mr. Matt Mueller, at 410-537-3574 (email: matthew.mueller@maryland.gov) or Ms. Ellen Jackson, Northern Region Supervisor, at 410-537-3482 (email: ellen.jackson@maryland.gov).

Sincerely,



Andrew B. Miller, Chief
Remediation and State Lead Division
Oil Control Program

MKM/nln

cc: Mr. Leigh Broderick (Carroll County Health Dept.)
Mr. Christopher H. Ralston
Ms. Hilary Miller