



MARYLAND DEPARTMENT OF THE ENVIRONMENT
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January 23, 2013

Ms. Kerry Topovski
Director of Environmental Health
Anne Arundel County Department of Health
Health Services Building
3 Harry S. Truman Parkway
Annapolis MD 21401

RE: PETROLEUM IMPACTS TO WELL IN A HIGH-RISK GROUNDWATER USE AREA
Case No. 2013-0321-AA
Ft. Meade Shell Station
2631 Annapolis Road, Hanover
Anne Arundel County, Maryland
Facility I.D. No. 4591

Dear Ms. Topovski:

This letter is provided in compliance with Section 4-411.2 of the Environment Article, Annotated Code of Maryland and Code of Maryland Regulations (COMAR) 26.10.02.03.B.(2)(b). On November 27, 2012, the Maryland Department of the Environment-Oil Control Program (MDE-OCP) received notification that a 10,000-gallon fiberglass gasoline underground storage tank (UST) failed tightness testing, indicating a possible release at the subject property. The UST was emptied and removed from service the next day. A review of the UST's inventory records indicates that approximately 100 gallons of gasoline may have been released. On January 9, 2013, the MDE-OCP received a *Report of Findings* documenting the detection of dissolved phase hydrocarbons in an on-site groundwater monitoring well (MW-4), which was sampled on December 26, 2012. Benzene was detected at 2,900 parts per billion (ppb) and methyl tertiary-butyl ether (MTBE) was detected at 61 ppb. Both detections were in exceedance of the respective 5 ppb and 20 ppb high-risk groundwater use area notification standards. The on-site drinking water supply well was sampled on December 6, 2012 and was non-detect for petroleum constituents.

A groundwater sample was also collected from monitoring well MW-1, located in the vicinity of the on-site drinking water supply well. Sampling results for MW-1 detected total petroleum hydrocarbons-diesel range organics (TPH-DRO) at 0.35 parts per million (ppm), above the groundwater standard of 0.047 ppm. All other petroleum constituents in MW-1 were non-detect. The remaining monitoring well and three tank field monitoring pipes were dry or did not contain enough groundwater to sample. No liquid phase hydrocarbons have been detected in site monitoring wells or tank field monitoring pipes.

Based on the November 2012 tank test failure and the detection of dissolve phase impacts to groundwater, the responsible party has been directed to: (1) perform repairs and testing of the UST prior to returning the tank to service; (2) conduct off-site sampling of two drinking water supply wells located at 2633 Annapolis Road (Car Doc, Inc.) adjacent to the property; and (3) conduct a comprehensive subsurface investigation to determine the total extent of petroleum impacts to the subsurface. At this time, the Department does not anticipate sampling additional off-site drinking water supply wells beyond sampling needed to ensure community safety. This notification does not necessarily mean that any off-site wells have been impacted by the contamination or that they will be impacted in the future.

Section 4-411.2 requires upon notification that "the Department shall notify the local health department and each owner of property within one-half mile of the site from which the sample was taken." Notification must be made by certified mail providing the property owner with information regarding the extent of contamination at the site. The potential responsible party is Southern Maryland Oil, Inc., owner of the Shell gas station located at 2631 Annapolis Road, Hanover, Maryland 21076.

For additional information on the petroleum constituents of concern, please visit MDE's website (<http://www.mde.state.md.us>) or EPA's website (<http://www.epa.gov>). The Department appreciates the Anne Arundel County Department of Health providing addresses and a site map for all property owners within a half-mile radius of the subject location. The Department is currently preparing the required property owner notification letter which will be sent out on or before January 23, 2013, with a copy provided to the Anne Arundel County Department of Health. The Department will provide copies of relevant correspondence related to this case to your attention.

If you have any questions, please contact me at 410-537-3443 (email: cralston@mde.state.md.us) or Ms. Ellen Jackson, Central Region Section Head, at 410-537-3482 (email: ejackson@mde.state.md.us).

Sincerely,



Christopher H. Ralston, Administrator
Oil Control Program

ME/nln

cc: Mr. Steve Stookey (Southern Maryland Oil, Inc.)
Mr. John Grace
Mr. Andrew B. Miller
Mr. Horacio Tablada