



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Oil Control Program, Suite 620, 1800 Washington Blvd., Baltimore MD 21230-1719

410-537-3442

410-537-3092 (fax)

1-800-633-6101, ext. 3442

Martin O'Malley
Governor

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

August 16, 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. 2012-0677-AA

H & J BP Station

738 Crain Highway (MD Route 3 North),

Gambrills, Anne Arundel County, Maryland

Facility I.D. No. 11762

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). In May 2012, the Maryland Department of the Environment's Oil Control Program (MDE-OCP) opened a case at the H & J BP Station based on the identification of a diesel release from the piping and containment sumps beneath the diesel dispensers. Liquid phase hydrocarbons (LPH), diesel product, were detected in the tank field monitoring pipes (0.04-ft. product thickness). Repairs were made to the diesel dispenser system and testing of the sumps and product piping after repairs yielded passing results. Based on the station's inventory records, approximately 80 gallons of diesel product was released. The BP Station and vicinity are served by drinking water supply wells. The on-site drinking water supply well was sampled in June 2012 and sample results did not detect the presence of petroleum contamination.

In October 2012, a vacuum extraction event was conducted to remove LPH from the tankfield. A limited direct push subsurface investigation was conducted in November 2012 and four borings were installed to assess subsurface conditions in the area of the tank field and diesel dispensers. Three of the four borings did not reach groundwater. In May 2013, three monitoring wells were installed on-site to assess groundwater conditions. Groundwater was encountered at approximately 67 feet below grade and the monitoring wells were installed to depths of 76 to 78 feet below grade. On August 2, 2013, the MDE-OCP received the *Supplemental Site Investigation Report – July 2013*, which reported that dissolved phase petroleum impacts were detected in the monitoring wells. Maximum concentrations of methyl tertiary-butyl ether (MTBE) were detected at 1,100 parts per billion (ppb); total petroleum hydrocarbon – gasoline range organics (TPH-GRO) were detected at 640 ppb; and TPH – diesel range organics (TPH-DRO) were detected at 160 ppb. The MTBE detection exceeds the respective notification standard of 20 ppb. All other constituents analyzed were non-detect. The on-site drinking water supply well was sampled again in June 2013 and results were non-detect for all constituents analyzed. Measurable LPH have not been detected in the tank field monitoring pipes since the vacuum extraction event was conducted in October 2012.

Based on the May 2012 diesel release and the detection of dissolve phase impacts to groundwater, the responsible party was directed to: (1) perform repairs and testing of the UST system prior to returning the system to service; (2) conduct removal of LPH in the tankfield; and (3) conduct a subsurface investigation to determine the total extent of petroleum impacts to the subsurface. Future actions include approval for the installation of additional monitoring wells and conducting off-site drinking water supply well sampling at 738-B MD Route 3 North (Elite Auto Body), 743 MD Route 3 North (Design In Motion Dance Studio), and 745 MD Route 3 North (Honda Power Sports), which are located in close proximity to the site. At this time, the Department does not anticipate sampling additional off-site drinking water supply wells beyond the 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 responsible party is H & J Amoco, Inc., owner of the BP gas station located at 738 MD Route 3 North, Gambrills, Maryland 21054.

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 August 16, 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 Mr. Andrew Miller, Chief of the Remediation and State-Lead Division, at 410-537-3389 (email: andrew.miller@maryland.gov) or Ms. Ellen Jackson, Central Region Section Head, at 410-537-3482 (email: ellen.jackson@maryland.gov).

Sincerely,



Christopher H. Ralston, Administrator
Oil Control Program

ME/nln

cc: Ms. Pushpinder Sadhu (H & J Amoco, Inc.)
Mr. Andrew B. Miller
Mr. Horacio Tablada



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August 16, 2013

CERTIFIED MAIL

RE: INFORMATIONAL NOTIFICATION LETTER

Case No. 2012-0677-AA

H & J BP Station

738 Crain Highway (MD Route 3 North), Gambrills

Anne Arundel County, Maryland

Facility I.D. No. 11762

Dear Resident or Property Owner:

This letter is provided in compliance with Section 4-411.2 of the Environment Article, Annotated Code of Maryland. The intent of this letter is to notify you that petroleum contamination has been detected in groundwater monitoring wells at the subject property at levels exceeding the statutory notification level. As a property owner within 0.5 miles of the subject property (see enclosed map), this letter is being sent to you to provide information about the detections at the referenced refueling station.

In May 2012, the Maryland Department of the Environment's Oil Control Program (MDE-OCP) opened a case at the H & J BP Station based on the identification of a diesel release from leaking piping and containment sumps beneath the diesel dispensers. Liquid phase hydrocarbons (LPH), diesel product, were detected in the tank field monitoring pipes (0.48 inches product thickness). Repairs were made to the diesel dispenser system and testing of the sumps and product piping after repairs yielded passing results. Based on the station's inventory records, approximately 80 gallons of diesel product were released. The BP Station and vicinity are served by drinking water supply wells. The on-site drinking water supply well was sampled in June 2012 and sampling results did not detect the presence of petroleum contamination.

In October 2012, a vacuum extraction event was conducted to remove LPH from the tankfield. In November 2012 and May 2013, subsurface investigations were conducted and monitoring wells were installed to assess subsurface impacts. On August 2, 2013, the MDE-OCP received the *Supplemental Site Investigation Report – July 2013*, which reported that dissolved phase petroleum impacts were detected in the monitoring wells. Maximum concentrations of methyl tertiary-butyl ether (MTBE) were detected at a 1,100 parts per billion. The MTBE detection exceeds the respective notification standard of 20 ppb. The on-site drinking water supply well was sampled again in June 2013 and results were non-detect for petroleum constituents. Measurable LPH have not been detected in the tank field monitoring pipes since the vacuum extraction event was conducted in October 2012.

As part of the ongoing investigation, the MDE-OCP is requiring the station owner, H & J Amoco, Inc., to perform additional subsurface investigation to determine the extent of petroleum contamination. Investigation activities will include the installation and sampling of additional monitoring wells and, as a precautionary measure, the sampling of select drinking water supply wells on adjacent properties.

The Department has informed the Anne Arundel County Department of Health of these detections and the overall investigation and will continue to work with them to evaluate the risks associated with the detections to the community. At this time, there is no indication that the contamination has migrated beyond the study area. The Department does not believe there is an immediate health risk to the public in your community and will continue to oversee the cleanup until H & J Amoco, Inc. has properly investigated and mitigated the contamination.

If your property is served by an individual water supply well, you may elect to have your well water tested by a private laboratory. Your decision should be based on the proximity of your well to the source of the contamination, and whether or not you have noticed any change in the taste or odor of your well water. For your convenience, enclosed is a list of private laboratories that can assist you should you decide to have your well water tested privately. The recommended test to request is USEPA Method 524.2 for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene. Samples should be collected by a certified sampler and taken from a tap that is immediately after the pressure tank and prior to the water passing through any treatment device.

A fact sheet is being prepared to assist with any questions you may have. The fact sheet will contain more information about the history of the case and the ongoing investigation. The fact sheet and other documents related to the investigation will be posted to the MDE-OCP Remediation Sites internet page: http://www.mde.state.md.us/programs/Land/OilControl/RemediationSites/Pages/Programs/LandPrograms/Oil_Control/RemediationSites/index.aspx.

If you have any questions, please contact Mr. Andrew Miller, Chief of the Remediation and State-Lead Division, at 410-537-3389 (email: andrew.miller@maryland.gov) or Ms. Ellen Jackson, Central Region Section Head, at 410-537-3482 (email: ellen.jackson@maryland.gov).

Sincerely,



Christopher H. Ralston, Administrator
Oil Control Program

ME/nln

Enclosures

cc: Ms. Pushpinder Sadhu (H & J Amoco, Inc.)
Ms. Kerry Topovski (Anne Arundel County Health Dept.)
Mr. Andrew B. Miller
Mr. Horacio Tablada



Maryland Department
of the Environment

FACTS ABOUT: H & J BP STATION

ENVIRONMENTAL INVESTIGATION H & J BP STATION 738 MARYLAND ROUTE 3 NORTH, GAMBRILLS ANNE ARUNDEL COUNTY, MARYLAND MDE CASE NO. 2012-0677-AA (OPEN)

SITE LOCATION

The Maryland Department of the Environment's Oil Control Program (MDE-OCP), in coordination with the Anne Arundel County Department of Health, is evaluating the impacts of petroleum constituents at the H & J BP Station located at 738 MD Route 3 North. This location has supported an active gasoline retail station since August 1996 when three new composite steel underground storage tanks (USTs) were registered: two 12,000-gallon gasoline; and a 10,000-gallon diesel. The USTs were originally registered by the owner, Ray Jackson of H & J Amoco, Inc. In May 2000, the USTs were registered by Juju Singh, the new owner of H & J Amoco, Inc. who currently owns and operates the station. The site has Stage I and Stage II vapor recovery systems. The piping is comprised of double-walled flexible fiberglass reinforced plastic. Currently, there are three monitoring wells and two tank field monitoring pipes located on-site. Depth to groundwater is approximately 68 feet below ground surface. The site is served by a private drinking water supply well and the surrounding mixed use commercial/residential area is served by private wells.

SITE HISTORY

In May 2012, the MDE-OCP opened a case at the H & J BP Station based on the identification of a diesel release from the piping and containment sumps beneath the diesel dispensers. Liquid phase hydrocarbons (LPH), diesel product, were detected in the tank field monitoring pipes (0.04 feet product thickness). Repairs were made to the diesel dispenser system and testing of the sumps and product piping after repairs yielded passing results. Based on the station's inventory records, approximately 80 gallons of diesel product was released. In October 2012, a vacuum extraction event was conducted to remove LPH from the tankfield. A limited direct push subsurface investigation was conducted in November 2012 and four borings were installed to assess subsurface conditions. In May 2013, three monitoring wells were installed on-site to assess groundwater conditions. On August 2, 2013, the MDE-OCP received the *Supplemental Site Investigation Report - July 2013* which reported that dissolved phase petroleum impacts were detected in the monitoring wells. Maximum concentrations of methyl tertiary-butyl ether (MTBE) were detected at 1,100 parts per billion (ppb); total petroleum hydrocarbons – gasoline range organics (TPH-GRO) were detected at 640 ppb; and TPH – diesel range organics (TPH-



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Oil Control Program/August/2013

DRO) were detected at 160 ppb. The on-site drinking water supply well was sampled two times, once in June 2012 and again in June 2013, and both testing results were non-detect for petroleum contamination. Measurable LPH have not been detected in the tank field monitoring pipes since the vacuum extraction event was conducted in October 2012.

ENVIRONMENTAL INVESTIGATIONS AND ACTIONS

In August 2013, the MDE-OCP approved a proposal by H & J Amoco, Inc. to install additional monitoring wells to delineate the horizontal and vertical extent of petroleum impacts. The MDE-OCP also required H & J Amoco, Inc. to sample select drinking water supply wells located in close proximity to the site. The MDE-OCP continues to oversee the release response until H & J Amoco, Inc. has properly assessed the release and any identified unacceptable petroleum impacts have been mitigated.

CURRENT STATUS

In August 2013, the MDE-OCP, in conjunction with the Anne Arundel County Department of Health, issued a notification letter to property owners within a half-mile radius of the site in response to high-risk groundwater use area notification requirements. The subsurface investigation will be conducted by H & J Amoco, Inc. during fourth quarter 2013. Additional assessment or remediation requirements, if needed, will be based on the findings of the required site assessment activities.

FUTURE UPDATES

- Postings on www.mde.state.md.us
- File available at the MDE Headquarters

CONTACTS

- Maryland Department of the Environment–Oil Control Program: 410-537-3442
- Anne Arundel County Department of Health: 410-222-7024
- H & J Amoco, Inc.: 410-923-6170

DISCLAIMER

The intent of this fact sheet is to provide the reader a summary of site events as they are contained within documents available to MDE. To fully understand the site and surrounding environmental conditions, MDE recommends that the reader review the case file that is available at MDE through the Public Information Act. The inclusion of a person or company's name in this fact sheet is for informational purposes only and should not be considered a conclusion by MDE on liability, involvement in a wrongful act, or contribution to environmental damage.



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LABORATORIES

The laboratories listed below are capable of analyzing samples for the purpose of testing for petroleum hydrocarbons. You are encouraged to fully discuss with the company you select the issues associated with sampling for fuel oxygenates, such as methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA).

Please note that EPA Method 524.2 is the recommended method for laboratory analysis of groundwater samples collected from drinking water supply wells since petroleum compounds of concern can be detected at very low levels using this specific method. EPA Method 524.2 encompasses a wide range of petroleum hydrocarbons such as benzene, toluene, ethylbenzene, and xylene (BTEX), in addition to fuel oxygenates such as MTBE. Please note that you should verify with each laboratory if they are certified in Maryland to collect drinking water samples.

Companies with an asterisk (*) have notified the Oil Control Program that they are prepared to either test for the suite of common fuel oxygenates following the U.S. EPA's validated analytical methods for common fuel oxygenates or they have taken the necessary alternative steps to determine the levels of fuel oxygenates in water and soil. Contact these companies to be fully informed of the sample preservation method they require prior to your sampling event. For more information, access EPA's Underground Storage Tank Fact Sheet – Analytical Methodologies for Fuel Oxygenates at www.epa.gov/oust/mtbe/omethods.pdf.

The Maryland Department of the Environment assembled this list from the best available information at the time of preparation. The Department makes no claim as to the list's completeness or to the quality of work performed by these laboratories. Inclusion on this list is not to be considered an endorsement by the State of Maryland.

Aardvark Water Testing Laboratory, Inc.*

260 Gateway Drive, Suite 3A
Bel Air, Maryland 21014
410-893-5257

Anabell Environmental, Inc.*

8648 Dakota Drive
Gaithersburg, Maryland 20877
301-548-9425

Analytical Laboratory Services, Inc.*

8965 Guilford Road, Suite 100
Columbia, Maryland 21046
410-290-8884

Caliber Analytical Services, LLC*

8851 Orchard Tree Lane
Towson, Maryland 21286
410-825-1151

Chesapeake Environmental Lab, Inc.

P.O. Box 946
Stevensville MD 21666
410-643-0800
1-800-300-TEST

ECS Mid-Atlantic, LLC

1340 Charwood Road, Suite P
Hanover, Maryland 21076
410-859-4300

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K
Sparks, Maryland 21152
410-472-1112

Environmental Management Services, Inc.

1688 East Gude Drive, Suite 301
Rockville, Maryland 20850
301-309-0475

Envirosystems, Inc.
9200 Rumsey Road, Suite B102
Columbia, Maryland 21045-1934
410-964-0330

Federated Environmental Assoc., Inc.
1314 Bedford Avenue
Baltimore, Maryland 21208
410-653-8434

Fountain Valley Analytical Laboratory, Inc.
1413 Old Taneytown Road
Westminster, Maryland 21158
410-848-1014

Fredericktowne Lab, Inc.*
3039-C Ventrice Court, P.O. Box 244
Myersville, Maryland 21773
301-293-3340

Martel Laboratories JDS, Inc.*
1025 Cromwell Bridge Road
Baltimore, Maryland 21204
410-825-7790

Maryland Spectral Services, Inc.*
1500 Caton Center Drive, Suite G
Baltimore, Maryland 21227
410-247-7600

Microbac Laboratories, Inc.*
2101 Van Deman Street
Baltimore, Maryland 21224-6697
410-633-1800

Penniman & Browne, Inc.
6252 Falls Road
Baltimore, Maryland 21209
410-825-4131

Phase Separation Science, Inc.*
6630 Baltimore National Pike
Baltimore, Maryland 21228
410-747-8770

Trace Laboratories, Inc.*
5 North Park Drive
Hunt Valley, Maryland 21030
410-584-9099