



Maryland
Department of
the Environment

FACTS ABOUT: Charlie's Service Station

**GROUNDWATER INVESTIGATION
CHARLIE'S SERVICE STATION
11024 LIBERTY ROAD, RANDALLSTOWN
BALTIMORE COUNTY, MARYLAND
OCP OPEN CASE NO. 1995-1777-BA
FACILITY ID No. 15095**

SITE LOCATION

Charlie's Service Station, located at 11024 Liberty Road in Randallstown, is currently owned and operated by Christopher Brocato and has been an active gasoline retail station since prior to the 1980s. The current underground storage tank (UST) system was installed in October 1996, and consists of a 15,000-gallon compartmentalized double-walled fiberglass-reinforced plastic UST and double-walled flexible plastic piping. Currently, three groundwater monitoring wells and a transient non-community water supply well are located on site.

SITE HISTORY

Petroleum related impacts to groundwater were first identified at the site in the 1980s when the Baltimore County Health Department conducted sampling of nearby residential water supply wells. Exxon ceased operations of the station in May 1981, and removed UST systems in July 1981. In February 1995, OCP Case No. 95-1777-BA was opened when five gasoline USTs were removed, and petroleum-impacted soils were detected. The petroleum-impacted soils were removed, and groundwater monitoring wells were required; however, the monitoring wells were abandoned due to lack of groundwater. In 2007, three new monitoring wells were installed to comply with the high-risk groundwater use area (HRGUA) regulations, Code of Maryland Regulations (COMAR) 26.10.02.03-4. Since the monitoring wells were installed, dissolved phase petroleum hydrocarbons have been periodically detected in the monitoring wells. Sampling of select residential water supply wells has been performed periodically over the history of the project. Only samples collected from the well serving 4507 Wards Chapel Road have detected concentrations of dissolved phase petroleum hydrocarbons at levels exceeding groundwater standards since 2007.

ENVIRONMENTAL INVESTIGATION AND ACTIONS

In April 2022, MW-3 was abandoned and replaced with MW-3R, as required by the Maryland Department of the Environment (MDE). On May 2, 2022, MDE received notification of the detection of dissolved phase petroleum-related constituents in the station's water supply well, the replacement monitoring well MW-3R, and the residential water supply well serving 4507 Wards



Chapel Road. The dissolved phase concentrations reported in monitoring well MW-3R indicated an increase in concentrations relative to historic data trends. During the April 2022 sampling event, benzene, toluene, ethylbenzene, and total xylenes were detected in MW-3R at a concentration exceeding the notification levels specified in COMAR 26.10.02.03-4. Additionally, MTBE was detected in the station's water supply well and in the 4507 Wards Chapel Road water supply well.

In response to the recent detections, MDE required the collection of confirmation samples from the station's water supply well, monitoring well MW-3R, the 4507 Wards Chapel Road water supply well, and the water supply well serving 11023 Liberty Road. On May 4, 2022, a confirmation sample was collected from the station's water supply well and results were below regulatory levels (MTBE was detected at a concentration of 3.81 ppb). On May 9 and 10, 2022, confirmation samples were collected from the 4507 Wards Chapel Road water supply well and MW-3R, and a sample was collected from the water supply well serving 11023 Liberty Road. The May 10, 2022, sample results confirmed the impacts to the 4507 Wards Chapel Road water supply well and MW-3R. The sample results for the 11023 Liberty Road water supply wells were non-detect. Treatment systems were required to be installed on the impacted water supply wells serving 4507 Wards Chapel Road and the service station.

CURRENT STATUS

Based on the detections of petroleum constituents received May 2, 2022, MDE is working with the Baltimore County Department of Environmental Protection and Sustainability to notify property owners within one-half mile of the site, as required by state law. The MDE has requested access to select adjacent properties to perform water supply well sampling. Once sampling results are obtained, MDE will evaluate what additional actions will be necessary to ensure protection of human health and the environment.

FUTURE UPDATES

- Postings available on www.mde.maryland.gov
- File available at MDE's headquarters in Baltimore.

CONTACTS

- Oil Control Program: 410-537-3442 or 1-800-633-6101, ext. 3442
- Baltimore County Dept. of Environmental Protection and Sustainability: 410-887-2762
- Charlie's Service Station: 410-922-2910

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, which can be requested through the Public Information Act. The inclusion of a person or company's name within 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.