

MISSOURI



NATURAL RESOURCES

Highlandville Shell Gas Station

Junction of EE and Hwy 160

Highlandville, MO

September 2018

Site History

The Highlandville Shell gas station is located at the junction of EE and Highway 160. This site is insured by the Petroleum Storage Tank Insurance Fund. In October 2013, a release occurred when the gas pump system at this location lost fuel. As a result of the release, the station installed 30 groundwater monitoring wells to determine the extent of the petroleum contamination. Since then, the site has been in active remediation with oversight from the Missouri Department of Natural Resources' tanks remediation program.

The department's emergency spill line received a telephone call Aug. 17, 2018, about gasoline odors around the Highlandville Shell station. Later that same day, the gas stations' cleanup contractor, Sunbelt, called the spill line to report a new release at the station.

Agency Actions Taken

The department's Environmental Emergency Response program has been working the site as EER Incident 180817-1211-KAH since the notification of release Aug. 17. Sunbelt is actively recovering free product from several recovery wells and three recovery pits below the leak. In addition, the contractor is removing gasoline-contaminated soil. The department's role is to oversee the removal actions.

The department received the drinking water sample results taken by Sunbelt at the station showing the presence of volatile organic compounds, which are components of gasoline Aug. 23. The test results showed the chemical levels being below the maximum contaminant levels for drinking water.

Compounds Tested	Tested Level in Parts Per Billion	Maximum Contaminant Level for Drinking Water
Ethylbenzene	0.4 ppb	700 ppb
Toluene	0.2 ppb	1,000 ppb
Xylenes, total	3.4 ppb	10,000 ppb

The city public water system supplies water to this location. As soon as the department received the sample results, staff notified four neighboring residences and two neighboring businesses believed to be downstream and connected to the same water line as the gas station. As a precautionary measure, staff recommended they use bottled water for drinking and cooking until the section of water line is replaced. The department gained new knowledge Aug. 28 that the water line only serves one resident and three businesses. The department had notified all those affected Aug. 24.

The owner of the gas station stopped serving any products requiring use of the public water supply system such as fresh coffee or fountain drinks. The department notified the Christian County Health Department of the situation.

Sunbelt sampled the drinking water at the furthest and nearest residences to the gas station and collected one sample upstream for control and sent the results to the department Aug. 27. Gasoline was not detected in these samples; however, the department continues to recommend the contacted one resident, three businesses and the gas station use bottled water for drinking and cooking.

The department coordinated with the Christian County Office of Emergency Management regarding bottled water. The county distributed bottled water donated by a local charity to the affected resident and businesses Aug. 27.

The city of Highlandville obtained a Drinking Water Emergency Exemption Request from the Public Drinking Water Branch for the construction permit. Workers completed the installation of approximately 300 feet of new water line with piping material that is resistant to gasoline Aug. 29, 2018. After thorough disinfection and flushing of the new line, department staff took samples and had them analyzed by the department's laboratory in Jefferson City. The samples showed the water meeting all drinking water standards. The affected customers were notified in person by department staff Aug. 30, 2018.

Future Actions

After the water line is replaced, the department will collect more samples. Staff will continue overseeing the cleanup at the station.

For More Information

For additional information regarding the site, contact Wendell Hall, State On-Scene Coordinator, at 417-838-0795.

Aerial Map