

Greater Fallston Association Update December 3, 2009

MDE Case 94-1251-HA, Upper Crossroads Exxon, Fallston MD

Groundwater Remedial System Update:

An approved groundwater remediation system went online at the former Exxon station on April 13, 2006.

As of November 16, 2009:

- The groundwater recovery system was operational from April 13, 2006 to June 4, 2008, when MDE granted a temporary system shutdown to begin a rebound assessment.
- On September 5, 2008 the *Rebound Assessment* was concluded and the recovery system was re-started.
- As of September 26, 2008, approximately 5.11 million gallons of groundwater have been recovered collectively from wells RW-1, RW-7, RW-12, RW-12R, and RW-14 and processed through the treatment system. Discharge sampling data indicates that the conditions of the MDE discharge permit are being met, with waters discharged to the subsurface infiltration gallery.
- MDE approved a second *Rebound Assessment* to begin on December 15, 2008.
- The second *Rebound Assessment* has continued to date and the system currently remains off.
- Influent sample concentrations of MTBE have decreased by 99 percent since system start-up and MDE has yet to see the rebound of MTBE to historic levels, even though groundwater recharge has been effective (Start: April 2006 – 2,310 ppb; Current: August 11, 2009 – 86.9 ppb).

Groundwater Monitoring Activities:

The current study area consists of 29 monitoring wells, 5 recovery wells, and 25 *Regional Monitoring Well Network* wells. On March 4, 2009, the MDE-OCP approved a site specific request from an area property owner to properly abandon two *Regional Monitoring Well Network* well couplets (MW16/MW21 and MW28/MW30).

As of November 16, 2009:

- A total of 98 groundwater samples were collected from on-site monitoring and recovery wells and the off-site *Regional Monitoring Well Network* (total includes wells with multiple sampling ports, observation point wells, and excludes wells that were dry or on properties that had no access permits).
- The network of monitoring wells and recovery wells has experienced periodic dry wells (most typically MW-2, MW-6, MW-7, MW-8, MW-9, MW-15, MW-19, MDE-5S, MDE-7S, and MDE-9CS).
- MTBE concentrations were detected above the MDE action level of 20 parts per billion in four wells (MW-22 @ 86.9ppb; MW-24 @ 25.8ppb; RW-3 @ 271ppb; and RW-5 @ 160ppb).
- No MTBE concentrations were detected above the MDE action level within the *Regional Monitoring Well Network*.

Drinking Water Well Monitoring Activities:

In May 2004, a total of 18 private drinking water wells were identified that exhibited MTBE at levels greater than the MDE action level of 20 ppb.

As of May 2009, only two private drinking water wells continue to exhibit MTBE levels greater than the MDE action level.

Following collection of 4 to 5 years of drinking water monitoring data, MDE approved the removal or transfer of all but 11 point of entry treatment (POET) systems to residents.

Between August 10 and 20, 2009, 10 POET systems were sampled (access was not granted to sample the 11th system). ExxonMobil will continue to maintain and sample 11 POET systems in the study area (1 POET system sampled monthly and 10 POET systems sampled quarterly).

Select homes within the study area remain on a semi-annual sampling schedule.

MDE Case 05-0120-HA Fallston 7- Eleven, Fallston MD

In September 2008, the Fallston 7- Eleven property underwent a complete facility upgrade. Two new double-walled fiberglass gasoline underground storage tanks were installed. The newly installed tanks are fully compliant with the new State requirements for operating within a designated high risk groundwater use area. Following the installation the older first generation tanks were removed and approximately 622 tons of contact soils were excavated from the site. Two perforations and deep pitting were located within the tank closest to the store. 7-Eleven currently maintains a network of 12 on-site and 2 off-site monitoring wells that monitor both the shallow and deeper subsurface zones. In July of 2009, 7-Eleven and its environmental consultant completed a 6 month bio-augmentation pilot test, and in October 2009 MDE received a proposed Corrective Action Plan (CAP) for continued bio-augmentation at the location. The results of the pilot test and the proposed CAP are currently under review by the Department.

MDE Case 89-0816-HA, Fallston Service Station, Fallston MD

In July 2006, all underground storage tanks and approximately 509 tons of petroleum impacted contact soils were excavated from this location. Fallston Service Center currently maintains a network of eight groundwater monitoring wells on-site. In March 2007, the Department entered in to a *Consent Agreement* with the Fallston Service Center. The *Consent Agreement* stipulates Department requirements for continued semi-annual groundwater monitoring of the on-site monitoring well network and the operation and maintenance responsibility for the GAC treatment unit retro-fitted to the Fallston Pre-k/Church (to include sampling frequencies and parameters). In January 2009, sampling conducted by the HCHD identified an additional adjacent private drinking water well impacted of MTBE. The Department has designated the Fallston Service Center as the party responsible for this impact. A GAC treatment system has been retrofitted to this well and the Department continues to ensure the proper operation and maintenance of this GAC treatment unit. The HCHD continues to support the Department's monitoring efforts at this location through the collection of: supplemental monthly drinking water data from the GAC treatment system located at the Fallston Pre-k/Church and annual adjacent area drinking water wells.

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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 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.