Cloverly Community Meeting

Former Shell Service Station 15541 New Hampshire Avenue Silver Spring, MD

February 22, 2010

AGENDA

Case History
MTBE Overview
Site Conceptual Model
Recent Sampling Results
Corrective Action Plan
Water Resource Analysis
Questions? (30 min)

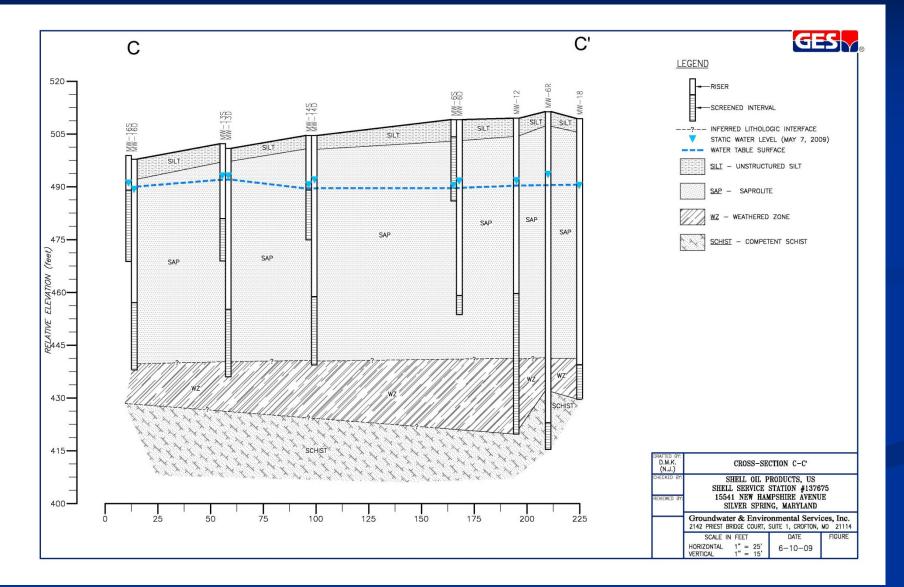
CASE HISTORY

- September 2002 Shell Branded Station Closed for Business
- November 2002 Underground Storage Tanks Removed
- February 2003 Work Plan Submitted to MDE to Install Wells
- September 2003 Potable Well Sampling Initiated
- December 2003 Initial Monitoring Wells Installed after receiving access
- July 2004 Pump & Treat System Started on Site
- March 2005 Soil Vapor Extraction (SVE) System Started on Site
- September 2007 SVE System Shut Down
- June 2007 Initial Testing Began for Offsite Treatment System
- November 2009 Corrective Action Plan Submitted to MDE

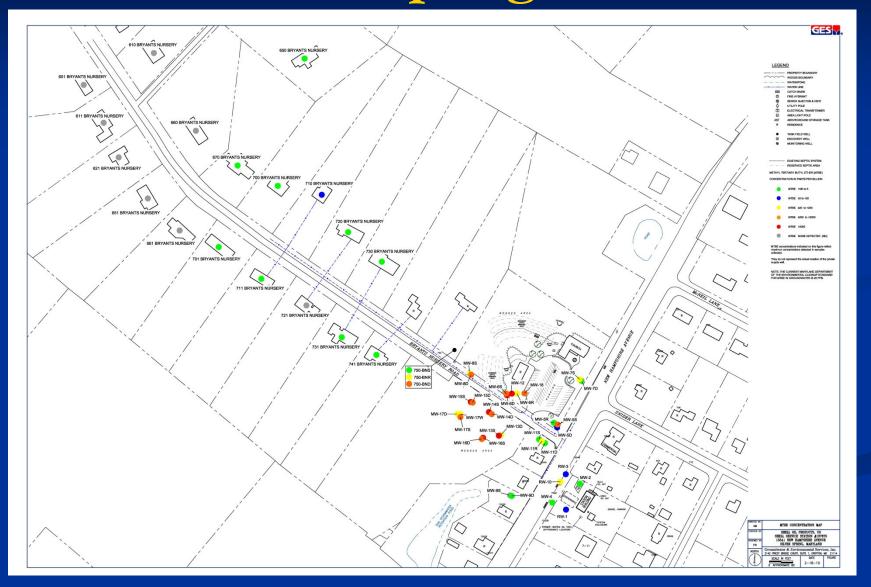
MTBE Overview

- MTBE methyl tertiary-butyl ether
- Used in gasoline beginning in 1979 as an octane enhancer (oxygenate)
- In 1992, MTBE concentrations in some gasoline increased to fulfill Clean Air Act requirements
- In 2006, MTBE stopped being used in gasoline in our area
- MDE cleanup standard for MTBE is 20 ppb

Site Conceptual Model



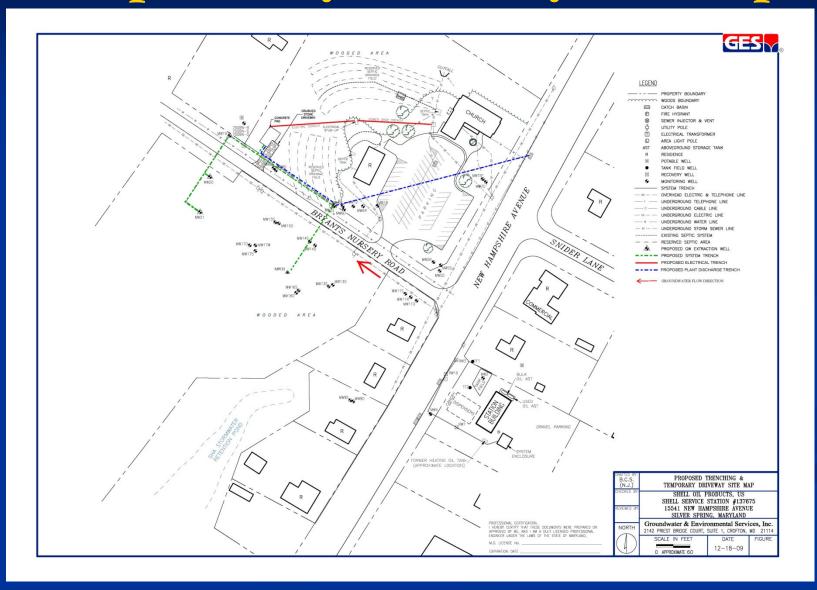
Recent Sampling Results



Corrective Action Plan

Proposed System Layout Map
System Placement
System Construction
System Performance

Proposed System Layout Map



System Placement



System Construction – Outside View



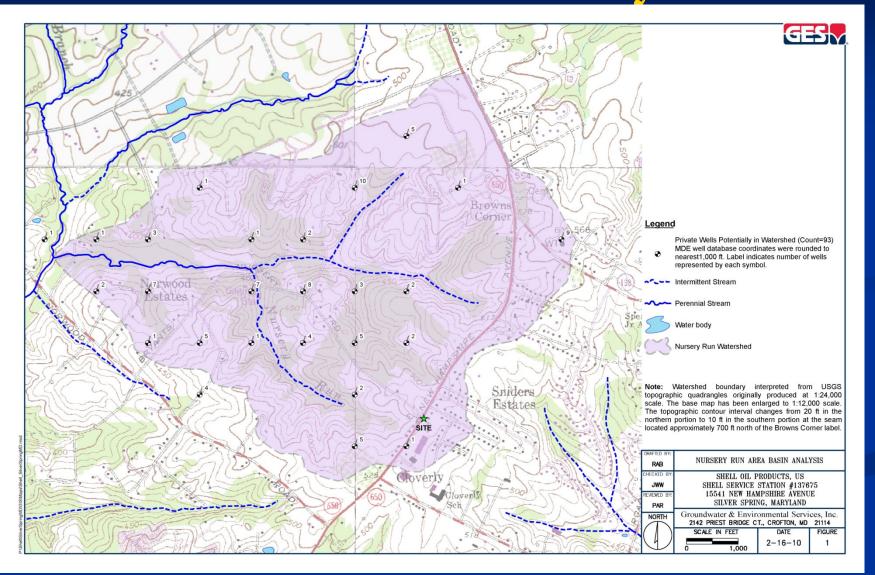
System Construction – Inside View



System Performance

- Planned operation of system will be 24/7 (except for routine maintenance)
- Maximum Noise Level 55 dba at 10 feet
- Average Anticipated Pumping Rate 6.5 to 12 gpm
- Treated effluent water will be discharged through SHA storm sewer to SHA retention pond, in accordance with discharge permit
- Air will be treated with an air stripper and discharged, in accordance with air discharge permit
- Telemetry system will alert GES if system turns off
- System Shutdown Goals System will run until MTBE groundwater concentrations have significantly decreased and are protective of the residents (approximately two to four years)

Water Resource Analysis



QUESTIONS?