



**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

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

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Michael S. Steele  
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Deputy Secretary

September 27, 2006

**CERTIFIED MAIL**

Mr. Zafar Iqbal  
Z & K Corporation  
t/a Jefferson Amoco  
4607 Lander Road  
Jefferson MD 21755

**RE: MONITORING WELLS & SAMPLING FOR THE EMERGENCY REGULATIONS**

**Case No. 2006-0675-FR**

**Jefferson Amoco**

**4607 Lander Road, Jefferson**

**Frederick County, Maryland**

**Facility I.D. No. 6706**

Dear Mr. Iqbal:

On September 22, 2006, the Oil Control Program received and reviewed the *Report of Monitoring Well Gauging and Sampling* prepared by Advanced Environmental Concepts, Inc. for the above-referenced property located in Frederick County. On September 6, 2006, groundwater samples were collected from the on-site drinking water supply well and the three monitoring wells located in the area of the underground storage tank (UST) systems. Methyl tertiary-butyl ether (MTBE) was detected at 1,744 parts per billion (ppb) in a groundwater sample collected from monitoring well MW-3. Based on this elevated concentration of MTBE, the Department requires the following activities be completed:

**Underground Storage Tank (UST) Systems:**

- (1) The Oil Control Program has reviewed the passing results of the helium testing conducted on February 1, 2006. No later than October 30, 2006, test the gasoline UST systems for vapor leaks in accordance with the Maryland Helium Testing Protocol. Submit a copy of the test report to the Oil Control Program no later than November 20, 2006.
- (2) No later than October 30, 2006, test all spill catchment basins and containment sumps in accordance with Code of Maryland Regulations (COMAR) 26.10.03.03 and the Maryland Containment System Testing Protocol. Submit a copy of the test report to the Oil Control Program no later than November 20, 2006.

- (3) No later than October 30, 2006, conduct a self-audit of the UST systems and provide a copy of the audit to the Oil Control Program no later than November 20, 2006. The audit must include but is not limited to the following:
  - A. Review of daily inventory and monthly reconciliation records;
  - B. Review of monthly leak detection records;
  - C. Review of tightness testing records of the tanks, piping, containment sumps, and catchment basins;
  - D. Testing of line leak detector;
  - E. Containment sump and spill catchment basin maintenance;
  - F. Corrosion protection testing records;
  - G. UST overfill protection;
  - H. Housekeeping of the facility; and
  - I. Proof of financial liability insurance.
- (4) As the current owner/operator of this facility, you are required to amend the UST registration by completing the enclosed notification form. Return the original to the Oil Control Program and retain a copy for your records.
- (5) If a UST systems fails the test for tightness, or is otherwise determined to be leaking, or there exists evidence of a release, a schedule of repairs and retesting must be submitted to the Oil Control Program for review and approval within thirty (30) days.

**Well Sampling & Receptor Survey:**

- (6) No later than October 30, 2006, based on local, federal, and State well surveys, identify all drinking water wells (i.e. domestic, non-community/community water supply, agricultural) within a half-mile radius of the property and plot on a U.S. Geological Survey topographic map or scaled street map. Annotate on this map the 500 feet, 1,000 feet, and 0.5 mile radii. Provide a written summary on the depths of these wells, screen depths, and their current status. Review well completion reports for these wells and evaluate whether on-site conditions could potentially impact any off-site drinking water wells in the area. Written documentation must be provided of your findings and the list of persons contacted. Please provide this information with the next sampling submittal.
- (7) All monitoring wells and any tank field monitoring pipes must be sampled **semi-annually (every six months)** and analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates, using EPA Method 8260. The monitoring wells must also be sampled for total petroleum hydrocarbons/diesel and gasoline-range organics (TPH/DRO and TPH/GRO) using EPA Method 8015B.

*(If well logs were not previously provided, include the well logs with the next sampling submittal. The well logs must describe subsurface geology, well construction, and the depth at which water was encountered during drilling.)*

- (8) The on-site drinking water supply well was sampled on September 6, 2006. No petroleum constituents were detected. Continue to sample this well **semi-annually (every six months)** for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2. If a granular activated carbon (GAC) filtration system is in use on the drinking water supply well, samples must be collected pre-, mid-, and post-filtration. *(The well log for the drinking water supply well was not previously provided. Please include the well log with the next sampling submittal. The well log must describe subsurface geology, well construction, and the depth at which water was encountered during drilling.)*
  
- (9) Sample select neighboring drinking water supply wells located immediately adjacent to the facility and analyze for full-suite VOCs, including fuel oxygenates, using EPA Method 524.2

For guidance or questions related to the UST systems, please contact the Compliance Division at 410-537-3442. For all other questions, please contact the case manager, Ms. Susan Bull, at 410-537-3499 or via Email: sbull@mde.state.md.us). Please include the above-referenced case number (2006-0675-FR) on all documents submitted for this site and forward to the case manager.

Sincerely,

Herbert M. Meade, Administrator  
Oil Control Program

SRB/nln

Enclosure

cc: Mr. Gregory A. Beal (AEC, Inc.)  
Mr. Paul Offutt (Frederick County Health Dept.)  
Mr. Thomas L. Walter  
Yolande J.C. Norman  
Mr. Horacio Tablada

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