

SITE CHARACTERIZATION REPORT

**BP SERVICE STATION #3033
14243 JARRETTSVILLE PIKE
PHOENIX, MD
CASE NO. 2005-0326 BA2**

Prepared for

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On behalf of BP Products North America Inc. (BP), URS Corporation (URS) is submitting this Site Characterization Report (SCR) for the BP Service Station #3033 located at 14243 Jarrettsville Pike in Phoenix, Maryland (subject property). In December 2004, a subsurface delineation, including the installation of seven soil borings converted to permanent groundwater monitoring wells, was completed on the subject property. This assessment was completed as described in the URS Scope of Work dated October 27, 2004, as directed by Ms. Ellen Jackson of the Maryland Department of the Environment (MDE).

Site characterization activities for the subsurface investigation included the installation of 7 soil borings, soil sampling, conversion of the soil borings to seven permanent, four-inch groundwater monitoring wells, sampling of the onsite and offsite potable water wells, and sampling of the newly installed monitoring wells.

Continuous soil samples were collected, logged and field screened with a Photo Ionization Detector (PID) from December 6 to 8, 2004. Two soil samples (one from above the groundwater table, where the highest PID reading was detected, and one from soil located in the capillary fringe) were properly containerized and sent to Accutest Laboratories in Dayton, New Jersey (Accutest) and were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbon-diesel range organics (TPH-DRO), and gasoline range organics (TPH-GRO).

The onsite potable water well and the offsite potable well located at the adjacent Coldwell Banker site were sampled on December 17, 2004. Potable water samples were analyzed by Accutest for volatile organic compounds (VOCs) by USEPA Method 524.

The seven new wells were gauged and sampled on December 29, 2004. Groundwater samples from these new wells were collected using a one-inch disposable PVC bailer and were submitted to Accutest for analysis of VOCs by USEPA Method 8260, and TPH-GRO and TPH-DRO by USEPA Method 8015.

Results of this investigation revealed the presence of elevated concentrations of BTEX in the soil and groundwater limited only to the vicinity of boring SB-04, located at the northern end of the site near the intersection of Sweet Air Road and Jarrettsville Pike. No BTEX was detected in any of the other six borings. BTEX was only detected in the groundwater in one of the seven monitoring wells (MW-04). No free product was detected in any of the borings or wells during this investigation. Elevated MTBE concentrations were detected in the soil and groundwater throughout the subject site, with the highest concentrations identified in the vicinity of wells MW-03 and MW-02R. Elevated concentrations of TPH-DRO, TPH-GRO, and non-MTBE oxygenates were also limited mainly to the areas of MW-03, MW-05 and MW-02R. Monitoring wells MW-03 and MW-05 are located near the former UST tank fields, and well MW-02R is located to the west of the current UST tank field at the southern end of the property.

Analytical data for the onsite potable water well effluent (post-treatment) did not reveal the presence of VOCs above method detection limits. MTBE at a concentration of 3.1 micrograms per liter (ug/L) was detected in the post-treatment effluent sample collected from the adjacent Coldwell Banker site.

2.1 SITE DESCRIPTION

The subject property is an active BP-Amoco retail gasoline facility located in a commercial area of Phoenix, Maryland. The site is bordered by Sweet Air Road to the north, Jarrettsville Pike to the west, and commercial properties to the south and east. An Exxon and a Citgo Gasoline Service Station are located across Jarrettsville Pike to the west of the BP/Amoco Service Station (Figure 2).

The subject property currently contains a cashier building, four pump islands, and three underground storage tanks (USTs). The USTs are located in the tank field located south of the site building. The tank field contains three 10,000-gallon USTs (Gold, Silver, and Regular unleaded gasoline).

2.2 SITE HISTORY

A BP/Amoco retail gasoline service station has been located at 14243 Jarrettsville Pike in Phoenix, Maryland since 1952. There have been no reported spills at this site to date. In 1981, the Exxon Service Station located across Jarrettsville Road reported a gasoline loss of 700 plus gallons of gasoline. Since the report of this loss, environmental studies have been conducted on and around each of the three gasoline service stations located along Jarrettsville Pike. A chronology of events conducted on the BP/Amoco Service Station is presented below:

- 1981 – Initial Site Investigation is conducted
- 1985 – BP/Amoco Oil Company signs a RCRA Consent Agreement stating that there is no physical information to indicate that gasoline has leaked from any of the underground storage tanks at the BP/Amoco Site.
- 1986 – Benzene concentrations are detected above drinking water standards. MTBE is detected in off-site observation wells OW-08, OW-27, and OW-51, and in on-site observation well OB-24, at concentrations ranging from 0.08 to 2.9 parts per billion (ppb).
- June 1987 – BP/Amoco begins the pumping and treatment of groundwater drawn from recovery well RW-24
- November 1991 – Benzene concentrations reach asymptotic levels (13.9 ppb) in recovery well RW-24.
- March 1992 – MDE approves the discontinuation of pumping and treatment of groundwater from recovery well RW-24.
- August 1994 – BP/Amoco requests case closure based on low benzene concentrations on-site after two years of post remedial shutdown
- February 1995 – MDE and EPA request an additional sampling event and Work Plan that addresses the dissolved hydrocarbons detected during post remedial monitoring.
- November 1996 – BP/Amoco LUST Case Number 9-0588 BA3 is closed. All off-site wells are abandoned.

- September 2001 – Handex of Maryland (Handex) conducts a Baseline Divestment Assessment.
- December 2001 – Handex completes a Subsurface Hydrocarbon Impact Assessment. The Assessment concludes that groundwater results are above MDE reporting levels for MTBE. The MTBE concentrations are probably associated with the residual impact from closed Case Number 9-0588 BA3.
- January 2002 – MDE requires no further action at the site based on the Hydrocarbon Impact Assessment.
- September 2004 – Ms. Ellen Jackson of MDE verbally requests URS to sample the onsite potable well and two onsite monitoring wells. MTBE was detected in the influent potable well sample (0.00052 ppm), and in each of the onsite monitoring wells at concentrations of 0.0552 ppm and 12.8 ppm.
- October 2004 – Underground Storage Tanks (UST) and piping are upgraded. The upgrades consisted of installing new containment basins under the dispensers, installing containment STP sumps at the tanks, upgrading all product piping to double-walled fiberglass-reinforced plastic (FRP), and conducting helium testing on the product lines and tightness testing on the tanks (thus confirming the tightness of the tanks and lines).

2.3 PRELIMINARY SITE INVESTIGATIVE WORK

2.3.1 High Vacuum Extraction and Treatment

As a result of potable water well and monitoring well sampling conducted in August 2004, which indicated the presence of elevated concentrations of MTBE in the groundwater (letter to MDE dated September 1, 2004), URS conducted two High Vacuum Extraction and Treatment (HEAT) events at the site. The heart of the HEAT system is an internal combustion engine (ICE) that has been modified to run on propane and/or recovered petroleum vapors. Through normal operation, the ICE generates vacuum that can be used to extract vapors from the subsurface. With the addition of a moisture knockout and down-well drop-tubes, the HEAT unit has the ability to extract groundwater and LPH. If combined with a well seal, the drop-tubes offer the ability to perform vacuum enhanced groundwater extraction, or dual phase extraction.

HEAT events were conducted on monitoring well MW-02 on November 9, 2004, and November 23, 2004. The average TPH removed ranged from 0.29 pounds per hour (lbs/hr) to 0.05 lbs/hr. Based on the low concentrations recovered during the two HEAT events, the events were discontinued. The HEAT Data is presented in Appendix A.

2.3.2 Potable and Monitoring Well Sampling

URS sampled the water from the onsite potable water well on December 1, 2004. Two samples were collected, one prior to carbon treatment (03033-POT-INF) and one post-treatment (03033-POT-EFF). The samples were submitted under chain-of-custody procedures to Accutest and were analyzed for VOCs by USEPA Method 524 (Drinking/Potable Well Water Standards).

According to laboratory analytical results, MTBE was detected in both the influent (pre-treatment) and effluent (post-treatment) samples, at concentrations of 0.599 milligrams per liter (mg/L) and 0.0003 mg/L, respectively.

Additionally, URS re-sampled the two existing groundwater monitoring wells (MW-01 and MW-02) on the subject property on December 1, 2004. Unfiltered groundwater samples were submitted under chain-of-custody procedures to Accutest, for analysis of BTEX, MTBE, Tert Butyl Alcohol (TBA), Di-Isopropyl-Ether (DIPE), Tert-Amyl Methyl Ether (TAME), and Tert-Butyl Ethyl Ether (ETBE) by USEPA Method 8260B.

According to laboratory analytical results, DIPE, TAME, ETBE, MTBE, and TBA were detected above the laboratory method detection limits in the groundwater collected from well MW-02. MTBE was detected above the laboratory method detection limit in well MW-01.

Well Sample Analytical Results are summarized in Tables 1 and 2. Laboratory Analytical Data Reports are presented in Appendix B.

3.1 SUBSURFACE INVESTIGATION

In December 2004, URS conducted a subsurface investigation at the subject property at the request of MDE, in a directive dated October 2004. Per the Work Plan submitted and approved by MDE in October 2004, the subsurface investigation consisted of the following activities:

- Sampling and analysis of the onsite potable water well, pre- and post-treatment, located on the subject property;
- Sampling and analysis of the offsite potable water well (located at Coldwell Banker);
- Completion of a subsurface investigation to delineate the extent of petroleum hydrocarbon impact at the site, including the installation of seven soil borings;
- Installation of a 4-inch groundwater monitoring well in each of the seven boring locations;
- Sampling and analysis of groundwater from each of the newly installed wells; and
- Completion of a new survey of all major site structures, wells, and sampling locations.

A Soil Boring/Monitoring Well Location Map is presented as Figure 3.

3.1.1 Soil Boring Installation

From December 6 to 8, 2004, seven soil borings (SB01 through SB07) were installed at the locations illustrated on Figure 3. The borings were installed using air rotary drilling methods under the direct supervision of URS. Prior to initiating any drilling activities, the boring locations were cleared for underground utilities by Miss Utility and were air-knifed to a depth of five feet bgs.

The borings were advanced to a terminal depth of approximately 10 feet into the groundwater table (maximum depth of 50 feet bgs). The borings were advanced, and samples were retrieved using two-foot long split spoon samplers. Boring Logs are presented in Appendix C.

3.1.2 Soil Sampling Methods

All borings were sampled every five feet from the ground surface until split spoon refusal was encountered. Refusal was encountered in each of the borings prior to drilling to terminal depth. Soil samples from each of the wells were collected using a 2-ft long stainless steel split-spoon. Each soil sample was field screened for VOCs using a PID. The soil samples were homogenized and placed into zip-lock bags to approximately one-half capacity. Each sample bag was allowed to sit for approximately fifteen minutes while the headspace was allowed to equilibrate. The PID probe was then inserted into the bag and the resulting VOC concentration was recorded. This procedure was repeated for each soil sample. PID results from each of the soil samples are presented on the Boring Logs in Appendix C.

Two soil samples from each of the borings, one from the interval above the water table interface with the highest PID reading and one from the capillary fringe, were properly containerized and sent under chain-of-custody procedures to Accutest. These soil samples were analyzed for BTEX and MTBE by USEPA Method 8260 and TPH-GRO and TPH-DRO by USEPA Method 8015.

3.1.3 Soil Sampling Results

Laboratory analytical results did not indicate the presence of benzene at a concentration greater than the method detection limit. Ethylbenzene, toluene, and xylenes were detected above the method detection at concentrations of 0.00079 milligrams per kilogram (mg/kg), 0.00086 mg/kg, and 0.0052 mg/kg, respectively, in sample 03033-MW04-15'-17'. MTBE was detected in nine of the samples at concentrations ranging from 0.00098 mg/kg (03033-MW05-36') to 0.0222 mg/kg (03033-MW02R-25'-27'). TPH-GRO was detected in two of the samples at concentrations ranging from 18.6 mg/kg (03033-MW05-36') to 92.6 mg/kg (03033-MW05-20'-22'). TPH-DRO was detected in seven samples at concentrations ranging from 5.47 (03033-MW06-37') to 2860 mg/kg (03033-MW05-20'-22').

Petroleum Concentrations in Soil are presented as Figures 4, 5, and 6. Site Investigation Soil Sample Analytical Results are presented in Table 3. The Laboratory Analytical Data Reports for these samples is presented in Appendix D.

3.1.4 New Monitoring Well Installation

Upon reaching terminal depth and obtaining soil samples at each of the seven boring locations, a four-inch monitoring well was installed at each boring location (MW-01R, MW-02R, and MW-03 through MW-07). Wells MW-01R and MW02R were intended to replace the previously installed wells MW-01 and MW-02, respectively, which were subsequently abandoned (Section 3.1.5 below).

The monitoring wells were constructed of four-inch inner diameter (ID), flush-joint, schedule 40 PVC well screen and riser. The well screens straddled the water table interface. The annulus around the screen was backfilled with silica sand to a maximum height of 2 feet above the top of the well screen. Monitoring Well Completion Logs and State Completion Reports are presented in Appendix E.

3.1.5 Abandonment of Monitoring Wells MW01 and MW02

On December 9, 2004, monitoring wells MW01 and MW02 were properly abandoned by a Maryland-licensed well driller, BL Meyers Brothers, under the oversight of URS. The wells were abandoned by filling with Portland cement and bentonite grout.

Monitoring well abandonment records are included in Appendix F.

3.1.6 Potable Well Re-Sampling

As part of this assessment, URS re-sampled the water from the onsite (BP Service Station) potable water well and sampled the water from the adjacent Coldwell Banker potable water wells on December 17, 2004. Three samples were collected from the onsite potable well (pre-treatment, mid-treatment, and post-treatment). One sample was collected from a dormant well on the Coldwell Banker property. Two samples (pre-treatment and post-treatment) were collected from the operating potable well on the Coldwell Banker property. The samples were submitted under chain-of-custody procedures to Accutest and were analyzed for VOCs by USEPA Method 524.

According to laboratory analytical results, MTBE was detected at a concentration of 0.215 mg/L in the station potable well influent sample. MTBE and xylenes were detected above method detection limits in the mid-treatment sample for the station well, at concentrations of 0.0144 mg/L and 0.0001 mg/L, respectively. No VOCs were detected above laboratory method detection limits in the station potable well effluent sample.

MTBE was detected in the current operating Coldwell Banker potable well influent sample at a concentration of 0.0025 mg/L. Chloroform (most likely a laboratory artifact) was detected in the current operating Coldwell Banker potable well effluent sample at a concentration of 0.0002 mg/L, and MTBE was detected at a concentration of 0.0031 mg/L.

A water sample was also collected from a dormant (not currently in use) potable well on the Coldwell Banker property. Bromodichloromethane, chloroform (most likely a laboratory artifact), toluene, and MTBE were detected in this well at 0.0005 mg/L, 0.0197 mg/L, 0.0002 mg/L and 0.0004 mg/L, respectively. Due to this well being dormant for an extended period of time, the data from this well may not be representative of the current subsurface conditions.

Sample Analytical Results are summarized in Table 4. Laboratory Analytical Results are presented in Appendix G.

3.1.7 Monitoring Well Sampling Methods

Groundwater samples were collected from each of the seven newly-installed monitoring wells on December 29, 2004. Prior to the collection of groundwater samples from the monitoring wells, the wells were gauged. The depths to groundwater were recorded using an audible electronic interface probe. The Well Gauging Report is presented in Table 5. A Groundwater Contour Map is presented as Figure 7.

URS personnel attempted to remove three volumes of water from each of the wells using a disposable PVC bailer prior to sampling. Purged groundwater was treated with granular activated carbon (GAC) and discharged to a porous area of the ground surface. Unfiltered groundwater samples were submitted under chain-of-custody to Accutest for analysis of VOCs by USEPA Method 8260 and TPH-GRO and TPH-DRO by USEPA Method 8015.

3.1.8 Monitoring Well Sampling Results

According to laboratory analytical data, ten VOCs, including BTEX and MTBE, were detected at concentrations above laboratory method detection limits in various groundwater samples. TPH-GRO was detected in four of the samples at concentrations ranging from 0.864 mg/L (MW-04) to 18.1 mg/L (MW-02R). TPH-DRO was detected in six of samples at concentrations ranging from 0.194 mg/L (MW-06) to 2.64 mg/L (MW-05).

Based on the analytical data, elevated BTEX concentrations appear to be limited only to the area around MW-04, located at the northern end of the property near the intersection of Sweet Air Road and Jarrettsville Pike. BTEX was non-detect (ND) in the other six monitoring wells. Elevated MTBE concentrations were detected across the subject property, with the highest concentrations detected in wells MW-03 (4,540 µg/L) and MW-05 (971 µg/L), located in the vicinity of the former tank fields (northern end of property), and well MW-02R (13,000 µg/L), located adjacent (west) to the current tank field (southern end of the property). TPH-DRO and

TPH-GRO data were slightly elevated across the site, with the highest concentrations also found in the vicinity of wells MW-03, MW-05 and MW-02R. Elevated concentrations of non-MTBE oxygenates were also highest in wells MW-03, MW-05 and MW-02R.

Groundwater Laboratory Analytical Results from all of the monitoring wells are presented in Table 6. The Laboratory Analytical Data is presented in Appendix H. A Total BTEX, MTBE, TPH-DRO & TPH-GRO and Other Oxygenates Plot Maps are presented as Figures 8, 9, 10, and 11, respectively.

Site subsurface characteristics are based on information obtained from the Geologic Map of Maryland and boring log information. The Geologic Map shows that the subject property is underlain by soils classified as the Baltimore Gneiss. From the ground surface to approximately 30 feet below the ground surface (ft bgs) the subsurface soil is predominantly comprised of loose brown sand, silt, and clay saprolite with a high content of mica. The mica content is greater than 50 percent. At the base of the saprolite is soft bedrock comprised of grey schist.

A review of the regional topographic map shows the subject property is located at an elevation of approximately 600 feet above sea level. The subject property slopes gradually to the southwest. The unconfined groundwater table is located at a depth of approximately 30 feet below grade. Groundwater elevation data collected as part of this investigation indicates that groundwater flows to the north/northwest (Figure 7), towards the intersection of Jarrettsville Pike and Sweet Air Road.

URS conducted a file review at MDE on January 7, 2005, in order to obtain information about the following nearby properties and to evaluate their potential to impact the BP/Amoco Station #3033:

- **Four Corners Groundwater Investigation**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the Four Corners Groundwater Investigation. On May 21, 1981, the Baltimore County Health Department (BCHD) received a call from a resident (Weir property, 14220 Jarrettsville Pike) complaining of petroleum odors and taste in the domestic well water. Subsequently, a domestic well sampling effort was coordinated between BCHD and the Maryland Department of Natural Resources (DNR) for properties with non-community supply wells and domestic wells located on the west side of Jarrettsville Pike and south of Paper Mill Road. Six drinking water wells in the 1400 block of Jarrettsville Pike were determined to have been impacted by elevated levels of benzene. Between March and June 1981, three gas stations at the Four Corners intersection were targeted to perform tank tightness tests on their gasoline UST systems to determine whether they were leaking. These stations included the former Exxon station located at 14222 Jarrettsville Pike (see below), the former Chevron/Gulf station located at 14226 Jarrettsville Pike (see below), and the BP/Amoco station located at 14243 Jarrettsville Pike (the subject of this investigation).

Between 1981 and 1984, Amoco, Chevron/Gulf, and Exxon independently attempted to characterize the groundwater contamination in the Jacksonville area. These attempts generated a large volume of local hydrogeologic data to better define the groundwater contaminant plume. During this time, a private lawsuit was filed against all three oil companies by impacted homeowners, Ascot Estates, and several businesses along Jarrettsville Pike. As a result of the lawsuit, the plaintiffs were compensated for the loss of use of their private water supplies. In October 1984, the USEPA Region III entered into an Administrative Consent Order with the responsible parties to implement a groundwater treatment system with the primary objection being to contain and reduce the dissolved benzene concentrations at or below 20 ppb and to achieve asymptotic levels. The remediation was divided into a southern and a northern plume and responsible parties were designated. BP/Amoco was designated as the responsible party for the north plume, and Exxon and Chevron/Gulf were designated as the responsible parties for the south plume.

The groundwater pump-and-treat system and air stripper operated at the intersection from 1987 to 1996. MDE closed cases associated with the north and south plumes in November 1996 and January 1995, respectively.

In May 2004, MDE opened Case No. 2005-0326BA2 at the Jacksonville Veterinary Hospital, located at 3410 Sweet Air Road in response to detection of MTBE in groundwater at the facility at a concentration of 512 ppb (well above the MDE action level of 20 ppb). MDE recommended bottled water be used until a carbon filtration system was installed.

In September 2004, the Four Corners Groundwater Investigation case was re-opened (Case No. 2005-0326BA2) in response to reports of elevated MTBE in offsite drinking water wells at several businesses. In August 2004, drinking water samples were collected

at nine commercial properties in the area. Two of the properties, 14301 Jarrettsville Pike (Bradford Bank) and 14242 Jarrettsville Pike revealed MTBE concentrations that exceeded that action level of 20 ppb. MDE is currently investigating all potential new sources, including three active gas stations: the Jacksonville Citgo located at 14226 Jarrettsville Pike (former Chevron/Gulf station), the Exxon station located at 14258 Jarrettsville Pike, and the BP/Amoco located at 14243 Jarrettsville Pike.

Additional historical information regarding the Exxon and Chevron properties is presented below.

- **14222 Jarrettsville Pike, Phoenix, MD (Former Exxon Service Station)**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the Former Exxon Service Station property located at 14222 Jarrettsville Pike, Phoenix, MD. The Exxon gasoline service station, in service since 1965, ceased operations at this location on November 1, 1984, and relocated to 14258 Jarrettsville Pike. At the time of the citizen complaint at 14220 Jarrettsville Pike, Exxon operated 6 USTs. Following the citizen complaint, Exxon reported an estimated loss of 700 gallons of gasoline from a leaking UST between March 1979 and October 1980. Tank tightness tests conducted on the 3 USTs (one 8,000-gallon regular gasoline tank, one 8,000-gallon unleaded gasoline tank, and one 4,000-gallon unleaded gasoline BCHD) initiated an investigation into the Exxon station and required the installation of groundwater monitoring wells. A total of 45 observation wells were installed throughout the area. Groundwater sampling in January 1985 revealed elevated detections of petroleum constituents in the vicinity of the Exxon station. On June 2, 1987, MDE opened Case No. 1987-2364 when Exxon reported a gasoline release from a submerged terminal pipe at the former station. It was determined that between 1 and 30 gallons of gasoline was released. Case No. 1987-2364 was subsequently closed on June 5, 1987, following a DNR site visit which revealed no oil in the tank field area.

- **14258 Jarrettsville Pike, Phoenix, MD (Exxon Service Station)**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the Exxon Service Station located at 14258 Jarrettsville Pike, Phoenix, MD. In February 1991, MDE opened and closed Case No. 1991-1691 for the removal of a 4,000-gallon wastewater tank. In July 2004, MDE performed a Compliance Assistance visit at the facility. The facility was found to be in compliance with a few minor issues relating to cleaning and maintaining spill catchment basins. There are currently four USTs in operation at the facility: two 8,000-gallon gasoline USTs, one 10,000-gallon kerosene UST, and one 12,000-gallon gasoline UST.

- **14226 Jarrettsville Pike, Phoenix, MD (Citgo Station, Former Chevron/Gulf)**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the current Citgo Service Station (Former Chevron/Gulf Service Station) located at 14226 Jarrettsville Pike, Phoenix, MD. On October 31, 2002, MDE oversaw the removal of a 550-gallon used oil UST.

MDE opened Case No. 2003-0600BA2 and required Citgo to collect soil samples for TPH-DRO and TCLP analysis. Following receipt of the soil sample analysis, MDE closed Case No. 2003-0600BA2. There are currently five USTs in operation at the facility: three 10,000-gallon gasoline USTs, one 10,000-gallon diesel fuel UST, and one 550-gallon used oil UST.

- **14231 Jarrettsville Pike, Phoenix, MD (Mercantile Bank and Trust)**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the Mercantile Bank and Trust property located at 14231 Jarrettsville Pike, Phoenix, MD. On October 21, 1992, MDE opened Case No. 93-0771BA3. On October 26, 1992, a 550-gallon heating oil UST registered to Sparks Bank was abandoned under the oversight of MDE-OCP. Four soil borings with analysis of TPH and naphthalene were required by MDE. Sampling results indicating non-detect for TPH and naphthalene were submitted in February 1996. MDE subsequently closed the LUST case on July 19, 1996.

- **14240 Jarrettsville Pike, Phoenix, MD (Lynch Property/Former Ace Hardware)**

According to the MDE file review conducted on January 7, 2005, the following information was found in regards to the Lynch Property (Former Ace Hardware) located at 14240 Jarrettsville Pike, Phoenix, MD. An out-of-service 1,000-gallon heating oil UST was removed on May 19, 2003. Soil samples collected from 4 feet below the tank bottom indicated TPH-DRO at 1.5 ppm and TPH-GRO at 290 ppm. These concentrations are below the State and federal regulatory standard for TPH-DRO/GRO of 620 ppm. A water sample collected in 2002 from the onsite drinking water well contained MTBE at 915 ppb and ETBE at 98 ppb. The level of MTBE detected in the water sample exceeds the USEPA health advisory of 20 to 40 ppb. Based on the non-use of the UST for a period greater than 20 years and data provided, MDE concluded that the contaminants do not appear to be a result of the UST removal in 2003. In a letter dated July 29, 2004, MDE did not require any further action regarding the removed heating oil UST, based on the limited soil sample results. However, based on the elevated MTBE and the presence of ETBE in the drinking water supply well, MDE required the installation and maintenance of a carbon filtration system. Samples are required to be submitted quarterly for analysis of VOCs by USEPA Method 524.2.

- **14227 Jarrettsville Pike, Phoenix, MD (The Flower Cart)**

No information available.

The following is a summary of the activities associated with the full site delineation:

- Two High Vacuum Extraction and Treatment (HEAT) events were conducted in November 2004 in response to well sampling completed in August 2004 which revealed elevated concentrations of MTBE in the groundwater onsite. Due to the low concentrations detected while conducting the HEAT events, the HEAT events were discontinued.
- The onsite potable well and two existing groundwater monitoring wells (MW-01 and MW-02) were re-sampled on December 1, 2004. Analytical results again indicated elevated concentrations of MTBE on the site.
- Subsequently, in December 2004, a subsurface delineation, including the installation of seven soil borings converted to permanent groundwater monitoring wells, was completed on the subject property.
- Site characterization activities for the subsurface investigation included the installation of 7 soil borings, soil sampling, conversion of the soil borings to seven permanent, four-inch groundwater monitoring wells, sampling of the onsite and offsite potable water wells, and sampling of the newly installed monitoring wells.
- Continuous soil samples were collected, logged and field screened with a Photo Ionization Detector (PID) from December 6 to 8, 2004. Two soil samples (one from above the groundwater table, where the highest PID reading was detected, and one from soil located in the capillary fringe) were properly containerized and sent to Accutest Laboratories in Dayton, New Jersey (Accutest) and were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbon-diesel range organics (TPH-DRO), and gasoline range organics (TPH-GRO).
- No free product was detected in any of the borings or monitoring wells during this investigation.
- The onsite potable water well and the offsite potable well located at the adjacent Coldwell Banker site were sampled on December 17, 2004. Potable water samples were analyzed for by Accutest for volatile organic compounds (VOCs) by USEPA Method 524. Analytical data for the onsite potable water well effluent (post-treatment) sample did not reveal the presence of VOCs above method detection limits. MTBE at a concentration of 0.0031 mg/L was detected in the post-treatment effluent sample collected from the adjacent Coldwell Banker site
- The seven new wells were gauged and sampled on December 29, 2004. Groundwater samples from these new wells were collected using a one-inch disposable PVC bailer and were submitted to Accutest for analysis of VOCs by USEPA Method 8260, and TPH-GRO and TPH-DRO by USEPA Method 8015.
- Results of this investigation revealed the presence of elevated concentrations of BTEX in the soil and groundwater limited only to the vicinity of boring SB-04, located at the northern end of the site near the intersection of Sweet Air Road and Jarrettsville Pike. No BTEX was detected in any of the other six borings. BTEX was detected in the groundwater in only one of the seven monitoring wells (MW-04). No free product was

detected in any of the borings or wells during this investigation. Elevated MTBE concentrations were detected in the soil and groundwater throughout the subject site, with the highest concentrations identified in the vicinity of wells MW-03, MW-05 and MW-02R. Elevated concentrations of TPH-DRO, TPH-GRO, and non-MTBE oxygenates were also limited mainly to the areas of MW-03, MW-05 and MW-02R. Monitoring wells MW-03 and MW-05 are located near the former UST tank fields at the northern end of the property and well MW-02R is located to the west of the current UST tank field at the southern end of the property.

Tables

Table 1
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/1/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005 MG/L	
	1,1,1-TRICHLOROETHANE	ND		0.0005 MG/L	
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005 MG/L	
	1,1,2-TRICHLOROETHANE	ND		0.0005 MG/L	
	1,1-DICHLOROETHANE	ND		0.0005 MG/L	
	1,1-DICHLOROETHYLENE	ND		0.0005 MG/L	
	1,1-DICHLOROPROPENE	ND		0.0005 MG/L	
	1,2,3-TRICHLOROBENZENE	ND		0.0005 MG/L	
	1,2,3-TRICHLOROPROPANE	ND		0.0005 MG/L	
	1,2,4-TRICHLOROBENZENE	ND		0.0005 MG/L	
	1,2,4-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001 MG/L	
	1,2-DIBROMOETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	1,3,5-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,3-DICHLOROPROPANE	ND		0.0005 MG/L	
	2,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	2-BUTANONE	ND		0.005 MG/L	
	2-HEXANONE	ND		0.002 MG/L	
	4-METHYL-2-PENTANONE	ND		0.002 MG/L	
	ACETONE	ND		0.005 MG/L	
	BROMOBENZENE	ND		0.0005 MG/L	
	BROMOCHLOROMETHANE	ND		0.0005 MG/L	
	BROMODICHLOROMETHANE	ND		0.0005 MG/L	
	BROMOFORM	ND		0.0005 MG/L	
	BROMOMETHANE	ND		0.0005 MG/L	
	CARBON DISULFIDE	ND		0.0005 MG/L	
	CARBON TETRACHLORIDE	ND		0.0005 MG/L	
	CHLOROBENZENE	ND		0.0005 MG/L	
	CHLOROETHANE	ND		0.0005 MG/L	
	CHLOROFORM	ND		0.0005 MG/L	
	CHLOROMETHANE	ND		0.0005 MG/L	

Notes:

ND-Not Detected

MG/L-Milligrams per liter

MG/M3-Milligrams per cubic meter

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 1
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/1/2004					
Volatile Organic Compounds					
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYL BENZENE	ND		0.0005	MG/L
	M,P-XYLENE	0.0001	J	0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	0.0001	J	0.0005	MG/L
	TOTAL BTEX	0.0001		0.002	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

MG/M3-Milligrams per cubic meter

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 1
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/1/2004					
Volatile Organic Compounds					
	METHYL TERT BUTYL ETHER	0.0003	J	0.0005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L
03033-POTABLE INFLUENT					
12/1/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
	1,1-DICHLOROPROPENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROPROPANE	ND		0.0005	MG/L
	1,2,4-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,4-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001	MG/L
	1,2-DIBROMOETHANE	ND		0.0005	MG/L
	1,2-DICHLOROETHANE	ND		0.0005	MG/L
	1,2-DICHLOROPROPANE	ND		0.0005	MG/L
	1,3,5-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,3-DICHLOROPROPANE	ND		0.0005	MG/L
	2,2-DICHLOROPROPANE	ND		0.0005	MG/L
	2-BUTANONE	ND		0.005	MG/L
	2-HEXANONE	ND		0.002	MG/L
	4-METHYL-2-PENTANONE	ND		0.002	MG/L
	ACETONE	0.0282		0.005	MG/L
	BROMOBENZENE	ND		0.0005	MG/L
	BROMOCHLOROMETHANE	ND		0.0005	MG/L
	BROMODICHLOROMETHANE	ND		0.0005	MG/L
	BROMOFORM	ND		0.0005	MG/L
	BROMOMETHANE	ND		0.0005	MG/L
	CARBON DISULFIDE	ND		0.0005	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

MG/M3-Milligrams per cubic meter

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 1
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT					
12/1/2004					
Volatile Organic Compounds					
	CARBON TETRACHLORIDE	ND		0.0005	MG/L
	CHLOROBENZENE	ND		0.0005	MG/L
	CHLOROETHANE	ND		0.0005	MG/L
	CHLOROFORM	ND		0.0005	MG/L
	CHLOROMETHANE	0.0016		0.0005	MG/L
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYLBENZENE	ND		0.0005	MG/L
	M,P-XYLENE	ND		0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

MG/M3-Milligrams per cubic meter

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 1
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Reporting Flag Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>				
03033-POTABLE INFLUENT				
12/1/2004				
Volatile Organic Compounds				
	BENZENE	ND	0.0005	MG/L
	TOLUENE	ND	0.0005	MG/L
	ETHYLBENZENE	ND	0.0005	MG/L
	XYLENE (TOTAL)	ND	0.0005	MG/L
	TOTAL BTEX	ND	0.002	MG/L
	METHYL TERT BUTYL ETHER	0.599	0.013	MG/L
	NAPHTHALENE	ND	0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 2
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/1/2004					
MW-01					
Volatile Organic Compounds					
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	ND		0.005	MG/L
	TERT-BUTYL ETHYL ETHER	ND		0.005	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L
	METHYL TERT BUTYL ETHER	0.0224		0.001	MG/L
	TERT BUTYL ALCOHOL	ND		0.025	MG/L
MW-02					
Volatile Organic Compounds					
	DI-ISOPROPYL ETHER	0.0499		0.005	MG/L
	TERT-AMYL METHYL ETHER	0.238		0.005	MG/L
	TERT-BUTYL ETHYL ETHER	0.0029	J	0.005	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L
	METHYL TERT BUTYL ETHER	18.7		0.05	MG/L
	TERT BUTYL ALCOHOL	3.5		1.3	MG/L

Notes:

ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:

U- Not detected above reporting limit
J - Estimated value

Table 3
Site Investigation Soil Sample Analytical Results
03033

<i>Sample Date</i>	<i>Sample ID</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/6/2004						
	03033-MW01R-25'-27'					
	General Chemistry Parameters					
		PERCENT SOLIDS	91.9			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0022	MG/KG
		TOTAL BTEX	ND		0.0055	MG/KG
		METHYL TERT BUTYL ETHER	0.0055		0.0011	MG/KG
		TPH-DRO (C10-C28)	ND		3.6	MG/KG
		TPH-GRO (C6-C10)	ND		12	MG/KG
	03033-MW04-15'-17'					
	General Chemistry Parameters					
		PERCENT SOLIDS	89.6			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	0.00086	J	0.0011	MG/KG
		ETHYLBENZENE	0.00079	J	0.0011	MG/KG
		XYLENE (TOTAL)	0.0052		0.0022	MG/KG
		TOTAL BTEX	0.00685		0.0055	MG/KG
		METHYL TERT BUTYL ETHER	0.0052		0.0011	MG/KG
		TPH-DRO (C10-C28)	6.18		3.7	MG/KG
		TPH-GRO (C6-C10)	ND		12	MG/KG
	03033-MW07-20'-22'					
	General Chemistry Parameters					
		PERCENT SOLIDS	92			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG

Notes:

ND-Not Detected

MG/KG-Milligrams per kilogram

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 3
Site Investigation Soil Sample Analytical Results
03033

<i>Sample Date</i>	<i>Sample ID</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/6/2004						
	03033-MW07-20'-22'					
	Volatile Organic Compounds					
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0023	MG/KG
		TOTAL BTEX	ND		0.0056	MG/KG
		METHYL TERT BUTYL ETHER	0.0043		0.0011	MG/KG
		TPH-DRO (C10-C28)	ND		3.6	MG/KG
		TPH-GRO (C6-C10)	ND		12	MG/KG
12/8/2004						
	03033-MW02R-25'-27'					
	General Chemistry Parameters					
		PERCENT SOLIDS	90.7			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0023	MG/KG
		TOTAL BTEX	ND		0.0056	MG/KG
		METHYL TERT BUTYL ETHER	0.0222		0.0011	MG/KG
		TPH-DRO (C10-C28)	ND		3.7	MG/KG
		TPH-GRO (C6-C10)	ND		12	MG/KG
	03033-MW02R-36'					
	General Chemistry Parameters					
		PERCENT SOLIDS	95.9			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG

Notes:

ND-Not Detected

MG/KG-Milligrams per kilogram

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 3
Site Investigation Soil Sample Analytical Results
03033

<i>Sample Date</i>	<i>Sample ID</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/8/2004						
	03033-MW02R-36'					
	Volatile Organic Compounds					
		XYLENE (TOTAL)	ND		0.0022	MG/KG
		TOTAL BTEX	ND		0.0055	MG/KG
		METHYL TERT BUTYL ETHER	0.0049		0.0011	MG/KG
		TPH-DRO (C10-C28)	9.51		3.4	MG/KG
		TPH-GRO (C6-C10)	ND		11	MG/KG
	03033-MW03-10'-12'					
	General Chemistry Parameters					
		PERCENT SOLIDS	84.5			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0023	MG/KG
		TOTAL BTEX	ND		0.0056	MG/KG
		METHYL TERT BUTYL ETHER	ND		0.0011	MG/KG
		TPH-DRO (C10-C28)	666		39	MG/KG
		TPH-GRO (C6-C10)	ND		14	MG/KG
	03033-MW03-38'					
	General Chemistry Parameters					
		PERCENT SOLIDS	93.1			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0021	MG/KG
		TOTAL BTEX	ND		0.0054	MG/KG
		METHYL TERT BUTYL ETHER	0.0051		0.0011	MG/KG

Notes:

ND-Not Detected

MG/KG-Milligrams per kilogram

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 3
Site Investigation Soil Sample Analytical Results
03033

<i>Sample Date</i>	<i>Sample ID</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/8/2004						
	03033-MW03-38'					
	Volatile Organic Compounds					
		TPH-DRO (C10-C28)	10.5		3.5	MG/KG
		TPH-GRO (C6-C10)	ND		12	MG/KG
	03033-MW05-20'-22'					
	General Chemistry Parameters					
		PERCENT SOLIDS	91.7			%
	Volatile Organic Compounds					
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0022	MG/KG
		TOTAL BTEX	ND		0.0055	MG/KG
		METHYL TERT BUTYL ETHER	0.0016		0.0011	MG/KG
		TPH-DRO (C10-C28)	2860		72	MG/KG
		TPH-GRO (C6-C10)	92.6		49	MG/KG
	03033-MW05-36'					
	General Chemistry Parameters					
		PERCENT SOLIDS	96.9			%
	Volatile Organic Compounds					
		BENZENE	ND		0.001	MG/KG
		TOLUENE	ND		0.001	MG/KG
		ETHYLBENZENE	ND		0.001	MG/KG
		XYLENE (TOTAL)	ND		0.0021	MG/KG
		TOTAL BTEX	ND		0.0051	MG/KG
		METHYL TERT BUTYL ETHER	0.00098	J	0.001	MG/KG
		TPH-DRO (C10-C28)	611		34	MG/KG
		TPH-GRO (C6-C10)	18.6		11	MG/KG

Notes:
ND-Not Detected
MG/KG-Milligrams per kilogram

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 3
Site Investigation Soil Sample Analytical Results
03033

<i>Sample Date</i>	<i>Sample ID</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/8/2004						
03033-MW06-25'-27'						
General Chemistry Parameters						
		PERCENT SOLIDS	91.3			%
Volatile Organic Compounds						
		BENZENE	ND		0.0011	MG/KG
		TOLUENE	ND		0.0011	MG/KG
		ETHYLBENZENE	ND		0.0011	MG/KG
		XYLENE (TOTAL)	ND		0.0022	MG/KG
		TOTAL BTEX	ND		0.0055	MG/KG
		METHYL TERT BUTYL ETHER	0.0045		0.0011	MG/KG
		TPH-DRO (C10-C28)	ND		3.7	MG/KG
		TPH-GRO (C6-C10)	ND		11	MG/KG
03033-MW06-37'						
General Chemistry Parameters						
		PERCENT SOLIDS	95.3			%
Volatile Organic Compounds						
		BENZENE	ND		0.001	MG/KG
		TOLUENE	ND		0.001	MG/KG
		ETHYLBENZENE	ND		0.001	MG/KG
		XYLENE (TOTAL)	ND		0.0021	MG/KG
		TOTAL BTEX	ND		0.0051	MG/KG
		METHYL TERT BUTYL ETHER	ND		0.001	MG/KG
		TPH-DRO (C10-C28)	5.47		3.5	MG/KG
		TPH-GRO (C6-C10)	ND		11	MG/KG

Notes:

ND-Not Detected

MG/KG-Milligrams per kilogram

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/17/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005 MG/L	
	1,1,1-TRICHLOROETHANE	ND		0.0005 MG/L	
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005 MG/L	
	1,1,2-TRICHLOROETHANE	ND		0.0005 MG/L	
	1,1-DICHLOROETHANE	ND		0.0005 MG/L	
	1,1-DICHLOROETHYLENE	ND		0.0005 MG/L	
	1,1-DICHLOROPROPENE	ND		0.0005 MG/L	
	1,2,3-TRICHLOROBENZENE	ND		0.0005 MG/L	
	1,2,3-TRICHLOROPROPANE	ND		0.0005 MG/L	
	1,2,4-TRICHLOROBENZENE	ND		0.0005 MG/L	
	1,2,4-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001 MG/L	
	1,2-DIBROMOETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	1,3,5-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,3-DICHLOROPROPANE	ND		0.0005 MG/L	
	2,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	2-BUTANONE	ND		0.005 MG/L	
	2-HEXANONE	ND		0.002 MG/L	
	4-METHYL-2-PENTANONE	ND		0.002 MG/L	
	ACETONE	ND		0.005 MG/L	
	BROMOBENZENE	ND		0.0005 MG/L	
	BROMOCHLOROMETHANE	ND		0.0005 MG/L	
	BROMODICHLOROMETHANE	ND		0.0005 MG/L	
	BROMOFORM	ND		0.0005 MG/L	
	BROMOMETHANE	ND		0.0005 MG/L	
	CARBON DISULFIDE	ND		0.0005 MG/L	
	CARBON TETRACHLORIDE	ND		0.0005 MG/L	
	CHLOROBENZENE	ND		0.0005 MG/L	
	CHLOROETHANE	ND		0.0005 MG/L	
	CHLOROFORM	ND		0.0005 MG/L	
	CHLOROMETHANE	ND		0.0005 MG/L	

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/17/2004					
Volatile Organic Compounds					
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYLBENZENE	ND		0.0005	MG/L
	M,P-XYLENE	ND		0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	ND		0.0005	MG/L
	TOTAL BTEX	ND		0.002	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT					
12/17/2004					
Volatile Organic Compounds					
	METHYL TERT BUTYL ETHER	ND		0.0005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L
03033-POTABLE EFFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
	1,1-DICHLOROPROPENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROPROPANE	ND		0.0005	MG/L
	1,2,4-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,4-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001	MG/L
	1,2-DIBROMOETHANE	ND		0.0005	MG/L
	1,2-DICHLOROETHANE	ND		0.0005	MG/L
	1,2-DICHLOROPROPANE	ND		0.0005	MG/L
	1,3,5-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,3-DICHLOROPROPANE	ND		0.0005	MG/L
	2,2-DICHLOROPROPANE	ND		0.0005	MG/L
	2-BUTANONE	ND		0.005	MG/L
	2-HEXANONE	ND		0.002	MG/L
	4-METHYL-2-PENTANONE	ND		0.002	MG/L
	ACETONE	ND		0.005	MG/L
	BROMOBENZENE	ND		0.0005	MG/L
	BROMOCHLOROMETHANE	ND		0.0005	MG/L
	BROMODICHLOROMETHANE	ND		0.0005	MG/L
	BROMOFORM	ND		0.0005	MG/L
	BROMOMETHANE	ND		0.0005	MG/L
	CARBON DISULFIDE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	CARBON TETRACHLORIDE	ND		0.0005	MG/L
	CHLOROBENZENE	ND		0.0005	MG/L
	CHLOROETHANE	ND		0.0005	MG/L
	CHLOROFORM	0.0001	J	0.0005	MG/L
	CHLOROMETHANE	ND		0.0005	MG/L
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYLBENZENE	ND		0.0005	MG/L
	M,P-XYLENE	ND		0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE EFFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	ND		0.0005	MG/L
	TOTAL BTEX	ND		0.002	MG/L
	METHYL TERT BUTYL ETHER	0.0031		0.0005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L
03033-POTABLE INFLUENT					
12/17/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
	1,1-DICHLOROPROPENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROPROPANE	ND		0.0005	MG/L
	1,2,4-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,4-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001	MG/L
	1,2-DIBROMOETHANE	ND		0.0005	MG/L
	1,2-DICHLOROETHANE	ND		0.0005	MG/L
	1,2-DICHLOROPROPANE	ND		0.0005	MG/L
	1,3,5-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,3-DICHLOROPROPANE	ND		0.0005	MG/L
	2,2-DICHLOROPROPANE	ND		0.0005	MG/L
	2-BUTANONE	ND		0.005	MG/L
	2-HEXANONE	ND		0.002	MG/L
	4-METHYL-2-PENTANONE	ND		0.002	MG/L
	ACETONE	ND		0.005	MG/L
	BROMOBENZENE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT					
12/17/2004					
Volatile Organic Compounds					
	BROMOCHLOROMETHANE	ND		0.0005 MG/L	
	BROMODICHLOROMETHANE	ND		0.0005 MG/L	
	BROMOFORM	ND		0.0005 MG/L	
	BROMOMETHANE	ND		0.0005 MG/L	
	CARBON DISULFIDE	ND		0.0005 MG/L	
	CARBON TETRACHLORIDE	ND		0.0005 MG/L	
	CHLOROBENZENE	ND		0.0005 MG/L	
	CHLOROETHANE	ND		0.0005 MG/L	
	CHLOROFORM	ND		0.0005 MG/L	
	CHLOROMETHANE	ND		0.0005 MG/L	
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005 MG/L	
	CIS-1,3-DICHLOROPROPENE	ND		0.0005 MG/L	
	DIBROMOCHLOROMETHANE	ND		0.0005 MG/L	
	DIBROMOMETHANE	ND		0.0005 MG/L	
	DICHLORODIFLUOROMETHANE	ND		0.001 MG/L	
	HEXACHLOROBUTADIENE	ND		0.002 MG/L	
	HEXANE	ND		0.0005 MG/L	
	ISOPROPYLBENZENE	ND		0.0005 MG/L	
	M,P-XYLENE	ND		0.001 MG/L	
	M-DICHLOROBENZENE	ND		0.0005 MG/L	
	METHYLENE CHLORIDE	ND		0.0005 MG/L	
	N-BUTYLBENZENE	ND		0.0005 MG/L	
	N-PROPYLBENZENE	ND		0.0005 MG/L	
	O-CHLOROTOLUENE	ND		0.0005 MG/L	
	O-DICHLOROBENZENE	ND		0.0005 MG/L	
	O-XYLENE	ND		0.0005 MG/L	
	P-CHLOROTOLUENE	ND		0.0005 MG/L	
	P-DICHLOROBENZENE	ND		0.0005 MG/L	
	P-ISOPROPYLTOLUENE	ND		0.0005 MG/L	
	SEC-BUTYLBENZENE	ND		0.0005 MG/L	
	STYRENE	ND		0.0005 MG/L	
	TERT-BUTYLBENZENE	ND		0.0005 MG/L	
	TETRACHLOROETHYLENE	ND		0.0005 MG/L	

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT					
12/17/2004					
Volatile Organic Compounds					
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	ND		0.0005	MG/L
	TOTAL BTEX	ND		0.002	MG/L
	METHYL TERT BUTYL ETHER	0.215		0.005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L
03033-POTABLE INFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
	1,1-DICHLOROPROPENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROPROPANE	ND		0.0005	MG/L
	1,2,4-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,4-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001	MG/L
	1,2-DIBROMOETHANE	ND		0.0005	MG/L
	1,2-DICHLOROETHANE	ND		0.0005	MG/L
	1,2-DICHLOROPROPANE	ND		0.0005	MG/L
	1,3,5-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,3-DICHLOROPROPANE	ND		0.0005	MG/L
	2,2-DICHLOROPROPANE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	2-BUTANONE	ND		0.005	MG/L
	2-HEXANONE	ND		0.002	MG/L
	4-METHYL-2-PENTANONE	ND		0.002	MG/L
	ACETONE	ND		0.005	MG/L
	BROMOBENZENE	ND		0.0005	MG/L
	BROMOCHLOROMETHANE	ND		0.0005	MG/L
	BROMODICHLOROMETHANE	ND		0.0005	MG/L
	BROMOFORM	ND		0.0005	MG/L
	BROMOMETHANE	ND		0.0005	MG/L
	CARBON DISULFIDE	ND		0.0005	MG/L
	CARBON TETRACHLORIDE	ND		0.0005	MG/L
	CHLOROBENZENE	ND		0.0005	MG/L
	CHLOROETHANE	ND		0.0005	MG/L
	CHLOROFORM	ND		0.0005	MG/L
	CHLOROMETHANE	ND		0.0005	MG/L
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYLBENZENE	ND		0.0005	MG/L
	M,P-XYLENE	ND		0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT 14237					
12/17/2004					
Volatile Organic Compounds					
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	ND		0.0005	MG/L
	TOTAL BTEX	ND		0.002	MG/L
	METHYL TERT BUTYL ETHER	0.0025		0.0005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L
03033-POTABLE INFLUENT 14237D					
12/17/2004					
Volatile Organic Compounds					
	1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHANE	ND		0.0005	MG/L
	1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
	1,1-DICHLOROPROPENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,3-TRICHLOROPROPANE	ND		0.0005	MG/L
	1,2,4-TRICHLOROBENZENE	ND		0.0005	MG/L
	1,2,4-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001	MG/L
	1,2-DIBROMOETHANE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE INFLUENT 14237D					
12/17/2004					
Volatile Organic Compounds					
	1,2-DICHLOROETHANE	ND		0.0005	MG/L
	1,2-DICHLOROPROPANE	ND		0.0005	MG/L
	1,3,5-TRIMETHYLBENZENE	ND		0.0005	MG/L
	1,3-DICHLOROPROPANE	ND		0.0005	MG/L
	2,2-DICHLOROPROPANE	ND		0.0005	MG/L
	2-BUTANONE	ND		0.005	MG/L
	2-HEXANONE	ND		0.002	MG/L
	4-METHYL-2-PENTANONE	ND		0.002	MG/L
	ACETONE	ND		0.005	MG/L
	BROMOBENZENE	ND		0.0005	MG/L
	BROMOCHLOROMETHANE	ND		0.0005	MG/L
	BROMODICHLOROMETHANE	0.0004	J	0.0005	MG/L
	BROMOFORM	ND		0.0005	MG/L
	BROMOMETHANE	ND		0.0005	MG/L
	CARBON DISULFIDE	ND		0.0005	MG/L
	CARBON TETRACHLORIDE	ND		0.0005	MG/L
	CHLOROBENZENE	ND		0.0005	MG/L
	CHLOROETHANE	ND		0.0005	MG/L
	CHLOROFORM	0.0197		0.0005	MG/L
	CHLOROMETHANE	ND		0.0005	MG/L
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0005	MG/L
	DIBROMOMETHANE	ND		0.0005	MG/L
	DICHLORODIFLUOROMETHANE	ND		0.001	MG/L
	HEXACHLOROBUTADIENE	ND		0.002	MG/L
	HEXANE	ND		0.0005	MG/L
	ISOPROPYLBENZENE	ND		0.0005	MG/L
	M,P-XYLENE	ND		0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

Sample Name and Date	Analyte Name	Result	Lab Flag	Reporting Limit	Units
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WATER SAMPLES

03033-POTABLE INFLUENT 14237D

12/17/2004

Volatile Organic Compounds

O-CHLOROTOLUENE	ND		0.0005	MG/L
O-DICHLOROBENZENE	ND		0.0005	MG/L
O-XYLENE	ND		0.0005	MG/L
P-CHLOROTOLUENE	ND		0.0005	MG/L
P-DICHLOROBENZENE	ND		0.0005	MG/L
P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
SEC-BUTYLBENZENE	ND		0.0005	MG/L
STYRENE	ND		0.0005	MG/L
TERT-BUTYLBENZENE	ND		0.0005	MG/L
TETRACHLOROETHYLENE	ND		0.0005	MG/L
TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
TRICHLOROETHYLENE	ND		0.0005	MG/L
TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
VINYL CHLORIDE	ND		0.0005	MG/L
BENZENE	ND		0.0005	MG/L
TOLUENE	0.0001	J	0.0005	MG/L
ETHYLBENZENE	ND		0.0005	MG/L
XYLENE (TOTAL)	ND		0.0005	MG/L
TOTAL BTEX	0.0001		0.002	MG/L
METHYL TERT BUTYL ETHER	0.0004	J	0.0005	MG/L
NAPHTHALENE	ND		0.0005	MG/L

03033-POTABLE MID

12/17/2004

Volatile Organic Compounds

1,1,1,2-TETRACHLOROETHANE	ND		0.0005	MG/L
1,1,1-TRICHLOROETHANE	ND		0.0005	MG/L
1,1,2,2-TETRACHLOROETHANE	ND		0.0005	MG/L
1,1,2-TRICHLOROETHANE	ND		0.0005	MG/L
1,1-DICHLOROETHANE	ND		0.0005	MG/L
1,1-DICHLOROETHYLENE	ND		0.0005	MG/L
1,1-DICHLOROPROPENE	ND		0.0005	MG/L
1,2,3-TRICHLOROBENZENE	ND		0.0005	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

MG/M3-Milligrams per cubic meter

Lab Flags:

U-Not Detected at Reporting Limit

J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE MID					
12/17/2004					
Volatile Organic Compounds					
	1,2,3-TRICHLOROPROPANE	ND		0.0005 MG/L	
	1,2,4-TRICHLOROBENZENE	ND		0.0005 MG/L	
	1,2,4-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		0.001 MG/L	
	1,2-DIBROMOETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROETHANE	ND		0.0005 MG/L	
	1,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	1,3,5-TRIMETHYLBENZENE	ND		0.0005 MG/L	
	1,3-DICHLOROPROPANE	ND		0.0005 MG/L	
	2,2-DICHLOROPROPANE	ND		0.0005 MG/L	
	2-BUTANONE	ND		0.005 MG/L	
	2-HEXANONE	ND		0.002 MG/L	
	4-METHYL-2-PENTANONE	ND		0.002 MG/L	
	ACETONE	ND		0.005 MG/L	
	BROMOBENZENE	ND		0.0005 MG/L	
	BROMOCHLOROMETHANE	ND		0.0005 MG/L	
	BROMODICHLOROMETHANE	ND		0.0005 MG/L	
	BROMOFORM	ND		0.0005 MG/L	
	BROMOMETHANE	ND		0.0005 MG/L	
	CARBON DISULFIDE	ND		0.0005 MG/L	
	CARBON TETRACHLORIDE	ND		0.0005 MG/L	
	CHLOROBENZENE	ND		0.0005 MG/L	
	CHLOROETHANE	ND		0.0005 MG/L	
	CHLOROFORM	ND		0.0005 MG/L	
	CHLOROMETHANE	ND		0.0005 MG/L	
	CIS-1,2-DICHLOROETHYLENE	ND		0.0005 MG/L	
	CIS-1,3-DICHLOROPROPENE	ND		0.0005 MG/L	
	DIBROMOCHLOROMETHANE	ND		0.0005 MG/L	
	DIBROMOMETHANE	ND		0.0005 MG/L	
	DICHLORODIFLUOROMETHANE	ND		0.001 MG/L	
	HEXACHLOROBUTADIENE	ND		0.002 MG/L	
	HEXANE	ND		0.0005 MG/L	
	ISOPROPYLBENZENE	ND		0.0005 MG/L	

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 4
Potable Well Samples Analytical Results
03033

<i>Sample Name and Date</i>	<i>Analyte Name</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
<u>WATER SAMPLES</u>					
03033-POTABLE MID					
12/17/2004					
Volatile Organic Compounds					
	M,P-XYLENE	0.0001	J	0.001	MG/L
	M-DICHLOROBENZENE	ND		0.0005	MG/L
	METHYLENE CHLORIDE	ND		0.0005	MG/L
	N-BUTYLBENZENE	ND		0.0005	MG/L
	N-PROPYLBENZENE	ND		0.0005	MG/L
	O-CHLOROTOLUENE	ND		0.0005	MG/L
	O-DICHLOROBENZENE	ND		0.0005	MG/L
	O-XYLENE	ND		0.0005	MG/L
	P-CHLOROTOLUENE	ND		0.0005	MG/L
	P-DICHLOROBENZENE	ND		0.0005	MG/L
	P-ISOPROPYLTOLUENE	ND		0.0005	MG/L
	SEC-BUTYLBENZENE	ND		0.0005	MG/L
	STYRENE	ND		0.0005	MG/L
	TERT-BUTYLBENZENE	ND		0.0005	MG/L
	TETRACHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,2-DICHLOROETHYLENE	ND		0.0005	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0005	MG/L
	TRICHLOROETHYLENE	ND		0.0005	MG/L
	TRICHLOROFLUOROMETHANE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.0005	MG/L
	BENZENE	ND		0.0005	MG/L
	TOLUENE	ND		0.0005	MG/L
	ETHYLBENZENE	ND		0.0005	MG/L
	XYLENE (TOTAL)	0.0001	J	0.0005	MG/L
	TOTAL BTEX	0.0001		0.002	MG/L
	METHYL TERT BUTYL ETHER	0.0144		0.0005	MG/L
	NAPHTHALENE	ND		0.0005	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter
MG/M3-Milligrams per cubic meter

Lab Flags:
U-Not Detected at Reporting Limit
J-Estimated Value

Table 5
Well Gauge Report
03033

<i>Well Name</i>	<i>Date</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>Product Thickness (ft)</i>	<i>Groundwater Elevation (ft)</i>	<i>Corrected GW Elevation (ft)</i>
MW-01	12/1/2004	ND	31.51	ND	NC*	NC*
MW-01R	12/29/2004	ND	32.36	ND	557.19	557.19
MW-02	12/1/2004	ND	31.15	ND	NC*	NC*
MW-02R	12/29/2004	ND	30.51	ND	556.69	556.69
MW-03	12/29/2004	ND	31.47	ND	554.70	554.70
MW-04	12/29/2004	ND	36.24	ND	550.71	550.71
MW-05	12/29/2004	ND	32.75	ND	554.70	554.70
MW-06	12/29/2004	ND	31.41	ND	556.86	556.86
MW-07	12/29/2004	ND	32.52	ND	557.22	557.22
TF-02	12/1/2004 12/29/2004	Well Not Gauged - Dry Well Well Not Gauged - Dry Well				
TF-03	12/1/2004 12/29/2004	Well Not Gauged - Dry Well Well Not Gauged - Dry Well				
TF-04	12/1/2004 12/29/2004	Well Not Gauged - Dry Well Well Not Gauged - Dry Well				
TF-05	12/1/2004 12/29/2004	Well Not Gauged - Dry Well Well Not Gauged - Dry Well				

Notes:

NC*-Not calculated - Top of casing elevation unknown, unable to calculate groundwater elevation

ND - Not detected

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
	MW-01				
	Volatile Organic Compounds				
	1,1,1-TRICHLOROETHANE	ND		0.001	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.001	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHENE	ND		0.001	MG/L
	1,2-DICHLOROETHANE	ND		0.001	MG/L
	1,2-DICHLOROPROPANE	ND		0.001	MG/L
	2-BUTANONE (MEK)	ND		0.01	MG/L
	2-HEXANONE	ND		0.005	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND		0.005	MG/L
	ACETONE	ND		0.01	MG/L
	BROMODICHLOROMETHANE	ND		0.001	MG/L
	BROMOFORM	ND		0.004	MG/L
	BROMOMETHANE	ND		0.002	MG/L
	CARBON DISULFIDE	ND		0.002	MG/L
	CARBON TETRACHLORIDE	ND		0.001	MG/L
	CHLOROBENZENE	ND		0.001	MG/L
	CHLOROETHANE	ND		0.001	MG/L
	CHLOROFORM	ND		0.001	MG/L
	CHLOROMETHANE	ND		0.001	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	DIBROMOCHLOROMETHANE	ND		0.001	MG/L
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	METHYLENE CHLORIDE	ND		0.002	MG/L
	STYRENE	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	ND		0.005	MG/L
	TERT-BUTYL ETHYL ETHER	ND		0.005	MG/L
	TETRACHLOROETHENE	ND		0.001	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	TRICHLOROETHENE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.001	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Reporting Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
MW-01					
Volatile Organic Compounds					
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L
	METHYL TERT BUTYL ETHER	0.133		0.001	MG/L
	TPH-DRO (C10-C28)	ND		0.1	MG/L
	TPH-GRO (C6-C10)	ND		0.2	MG/L
	TERT BUTYL ALCOHOL	ND		0.025	MG/L
MW-02					
Volatile Organic Compounds					
	1,1,1-TRICHLOROETHANE	ND		0.01	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.01	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.01	MG/L
	1,1-DICHLOROETHANE	ND		0.01	MG/L
	1,1-DICHLOROETHENE	ND		0.01	MG/L
	1,2-DICHLOROETHANE	ND		0.01	MG/L
	1,2-DICHLOROPROPANE	ND		0.01	MG/L
	2-BUTANONE (MEK)	ND		0.1	MG/L
	2-HEXANONE	ND		0.05	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND		0.05	MG/L
	ACETONE	ND		0.1	MG/L
	BROMODICHLOROMETHANE	ND		0.01	MG/L
	BROMOFORM	ND		0.04	MG/L
	BROMOMETHANE	ND		0.02	MG/L
	CARBON DISULFIDE	ND		0.02	MG/L
	CARBON TETRACHLORIDE	ND		0.01	MG/L
	CHLOROBENZENE	ND		0.01	MG/L
	CHLOROETHANE	ND		0.01	MG/L
	CHLOROFORM	ND		0.01	MG/L
	CHLOROMETHANE	ND		0.01	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.01	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.01	MG/L
	DIBROMOCHLOROMETHANE	ND		0.01	MG/L
	DI-ISOPROPYL ETHER	0.0288	J	0.05	MG/L
	METHYLENE CHLORIDE	ND		0.02	MG/L
	STYRENE	ND	J	0.05	MG/L
	TERT-AMYL METHYL ETHER	0.178		0.05	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Reporting Flag</i>	<i>Units</i>
12/29/2004				
MW-02				
Volatile Organic Compounds				
	TERT-BUTYL ETHYL ETHER	ND	0.05	MG/L
	TETRACHLOROETHENE	ND	0.01	MG/L
	TRANS-1,2-DICHLOROETHENE	ND	0.01	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND	0.01	MG/L
	TRICHLOROETHENE	ND	0.01	MG/L
	VINYL CHLORIDE	ND	0.01	MG/L
	BENZENE	ND	0.01	MG/L
	TOLUENE	ND	0.01	MG/L
	ETHYLBENZENE	ND	0.01	MG/L
	XYLENE (TOTAL)	ND	0.01	MG/L
	TOTAL BTEX	ND	0.04	MG/L
	METHYL TERT BUTYL ETHER	13	0.1	MG/L
	TPH-DRO (C10-C28)	0.27	0.1	MG/L
	TPH-GRO (C6-C10)	18.1	0.2	MG/L
	TERT BUTYL ALCOHOL	5	0.25	MG/L
MW-03				
Volatile Organic Compounds				
	1,1,1-TRICHLOROETHANE	ND	0.0025	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND	0.0025	MG/L
	1,1,2-TRICHLOROETHANE	ND	0.0025	MG/L
	1,1-DICHLOROETHANE	ND	0.0025	MG/L
	1,1-DICHLOROETHENE	ND	0.0025	MG/L
	1,2-DICHLOROETHANE	ND	0.0025	MG/L
	1,2-DICHLOROPROPANE	ND	0.0025	MG/L
	2-BUTANONE (MEK)	ND	0.025	MG/L
	2-HEXANONE	ND	0.013	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND	0.013	MG/L
	ACETONE	ND	0.025	MG/L
	BROMODICHLOROMETHANE	ND	0.0025	MG/L
	BROMOFORM	ND	0.01	MG/L
	BROMOMETHANE	ND	0.005	MG/L
	CARBON DISULFIDE	ND	0.005	MG/L
	CARBON TETRACHLORIDE	ND	0.0025	MG/L
	CHLOROBENZENE	ND	0.0025	MG/L
	CHLOROETHANE	ND	0.0025	MG/L
	CHLOROFORM	ND	0.0025	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

Sample Date	Analyte	Result	Lab Flag	Reporting Limit	Units
12/29/2004					
MW-03					
Volatile Organic Compounds					
	CHLOROMETHANE	ND		0.0025	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.0025	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.0025	MG/L
	DIBROMOCHLOROMETHANE	ND		0.0025	MG/L
	DI-ISOPROPYL ETHER	ND		0.013	MG/L
	METHYLENE CHLORIDE	ND		0.005	MG/L
	STYRENE	ND		0.013	MG/L
	TERT-AMYL METHYL ETHER	0.0124	J	0.013	MG/L
	TERT-BUTYL ETHYL ETHER	1.08		0.25	MG/L
	TETRACHLOROETHENE	ND		0.0025	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.0025	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.0025	MG/L
	TRICHLOROETHENE	ND		0.0025	MG/L
	VINYL CHLORIDE	ND		0.0025	MG/L
	BENZENE	ND		0.0025	MG/L
	TOLUENE	ND		0.0025	MG/L
	ETHYLBENZENE	ND		0.0025	MG/L
	XYLENE (TOTAL)	ND		0.0025	MG/L
	TOTAL BTEX	ND		0.01	MG/L
	METHYL TERT BUTYL ETHER	4.54		0.05	MG/L
	TPH-DRO (C10-C28)	0.471		0.1	MG/L
	TPH-GRO (C6-C10)	8.38		0.2	MG/L
	TERT BUTYL ALCOHOL	0.151		0.063	MG/L
MW-04					
Volatile Organic Compounds					
	1,1,1-TRICHLOROETHANE	ND		0.001	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.001	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHENE	ND		0.001	MG/L
	1,2-DICHLOROETHANE	ND		0.001	MG/L
	1,2-DICHLOROPROPANE	ND		0.001	MG/L
	2-BUTANONE (MEK)	0.0078	J	0.01	MG/L
	2-HEXANONE	ND		0.005	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND	J	0.005	MG/L
	ACETONE	ND		0.01	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
	MW-04				
	Volatile Organic Compounds				
	BROMODICHLOROMETHANE	ND		0.001	MG/L
	BROMOFORM	ND		0.004	MG/L
	BROMOMETHANE	ND		0.002	MG/L
	CARBON DISULFIDE	ND		0.002	MG/L
	CARBON TETRACHLORIDE	ND		0.001	MG/L
	CHLOROBENZENE	ND		0.001	MG/L
	CHLOROETHANE	ND		0.001	MG/L
	CHLOROFORM	ND		0.001	MG/L
	CHLOROMETHANE	ND		0.001	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	DIBROMOCHLOROMETHANE	ND		0.001	MG/L
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	METHYLENE CHLORIDE	ND		0.002	MG/L
	STYRENE	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	ND		0.005	MG/L
	TERT-BUTYL ETHYL ETHER	ND		0.005	MG/L
	TETRACHLOROETHENE	ND		0.001	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	TRICHLOROETHENE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.001	MG/L
	BENZENE	0.0178		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	0.0021		0.001	MG/L
	XYLENE (TOTAL)	0.0572		0.001	MG/L
	TOTAL BTEX	0.0771		0.004	MG/L
	METHYL TERT BUTYL ETHER	0.0045		0.001	MG/L
	TPH-DRO (C10-C28)	0.656		0.1	MG/L
	TPH-GRO (C6-C10)	0.834		0.2	MG/L
	TERT BUTYL ALCOHOL	ND		0.025	MG/L
	MW-05				
	Volatile Organic Compounds				
	1,1,1-TRICHLOROETHANE	ND		0.001	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.001	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.001	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
	MW-05				
	Volatile Organic Compounds				
	1,1-DICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHENE	ND		0.001	MG/L
	1,2-DICHLOROETHANE	ND		0.001	MG/L
	1,2-DICHLOROPROPANE	ND		0.001	MG/L
	2-BUTANONE (MEK)	ND		0.01	MG/L
	2-HEXANONE	ND		0.005	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND		0.005	MG/L
	ACETONE	ND		0.01	MG/L
	BROMODICHLOROMETHANE	ND		0.001	MG/L
	BROMOFORM	ND		0.004	MG/L
	BROMOMETHANE	ND		0.002	MG/L
	CARBON DISULFIDE	ND		0.002	MG/L
	CARBON TETRACHLORIDE	ND		0.001	MG/L
	CHLOROBENZENE	ND		0.001	MG/L
	CHLOROETHANE	ND		0.001	MG/L
	CHLOROFORM	ND		0.001	MG/L
	CHLOROMETHANE	ND		0.001	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	DIBROMOCHLOROMETHANE	ND		0.001	MG/L
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	METHYLENE CHLORIDE	ND		0.002	MG/L
	STYRENE	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	0.0015	J	0.005	MG/L
	TERT-BUTYL ETHYL ETHER	0.16		0.005	MG/L
	TETRACHLOROETHENE	ND		0.001	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	TRICHLOROETHENE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.001	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
MW-05					
Volatile Organic Compounds					
	METHYL TERT BUTYL ETHER	0.971		0.01	MG/L
	TPH-DRO (C10-C28)	2.64		0.1	MG/L
	TPH-GRO (C6-C10)	1.36		0.2	MG/L
	TERT BUTYL ALCOHOL	0.0146	J	0.025	MG/L
MW-06					
Volatile Organic Compounds					
	1,1,1-TRICHLOROETHANE	ND		0.001	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.001	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHENE	ND		0.001	MG/L
	1,2-DICHLOROETHANE	ND		0.001	MG/L
	1,2-DICHLOROPROPANE	ND		0.001	MG/L
	2-BUTANONE (MEK)	ND		0.01	MG/L
	2-HEXANONE	ND		0.005	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND		0.005	MG/L
	ACETONE	ND		0.01	MG/L
	BROMODICHLOROMETHANE	ND		0.001	MG/L
	BROMOFORM	ND		0.004	MG/L
	BROMOMETHANE	ND		0.002	MG/L
	CARBON DISULFIDE	0.00042	J	0.002	MG/L
	CARBON TETRACHLORIDE	ND		0.001	MG/L
	CHLOROBENZENE	ND		0.001	MG/L
	CHLOROETHANE	ND		0.001	MG/L
	CHLOROFORM	ND		0.001	MG/L
	CHLOROMETHANE	ND		0.001	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	DIBROMOCHLOROMETHANE	ND		0.001	MG/L
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	METHYLENE CHLORIDE	ND		0.002	MG/L
	STYRENE	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	0.00051	J	0.005	MG/L
	TERT-BUTYL ETHYL ETHER	0.0016	J	0.005	MG/L
	TETRACHLOROETHENE	ND		0.001	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.001	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

Lab Flags:

U- Not detected above reporting limit

J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

<i>Sample Date</i>	<i>Analyte</i>	<i>Result</i>	<i>Lab Flag</i>	<i>Reporting Limit</i>	<i>Units</i>
12/29/2004					
MW-06					
Volatile Organic Compounds					
	TRANS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	TRICHLOROETHENE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.001	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L
	METHYL TERT BUTYL ETHER	0.0524		0.001	MG/L
	TPH-DRO (C10-C28)	0.194		0.1	MG/L
	TPH-GRO (C6-C10)	ND		0.2	MG/L
	TERT BUTYL ALCOHOL	ND		0.025	MG/L
MW-07					
Volatile Organic Compounds					
	1,1,1-TRICHLOROETHANE	ND		0.001	MG/L
	1,1,2,2-TETRACHLOROETHANE	ND		0.001	MG/L
	1,1,2-TRICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHANE	ND		0.001	MG/L
	1,1-DICHLOROETHENE	ND		0.001	MG/L
	1,2-DICHLOROETHANE	ND		0.001	MG/L
	1,2-DICHLOROPROPANE	ND		0.001	MG/L
	2-BUTANONE (MEK)	ND		0.01	MG/L
	2-HEXANONE	ND		0.005	MG/L
	4-METHYL-2-PENTANONE(MIBK)	ND		0.005	MG/L
	ACETONE	ND		0.01	MG/L
	BROMODICHLOROMETHANE	ND		0.001	MG/L
	BROMOFORM	ND		0.004	MG/L
	BROMOMETHANE	ND		0.002	MG/L
	CARBON DISULFIDE	0.00066	J	0.002	MG/L
	CARBON TETRACHLORIDE	ND		0.001	MG/L
	CHLOROBENZENE	ND		0.001	MG/L
	CHLOROETHANE	ND		0.001	MG/L
	CHLOROFORM	ND		0.001	MG/L
	CHLOROMETHANE	ND		0.001	MG/L
	CIS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	CIS-1,3-DICHLOROPROPENE	ND		0.001	MG/L

Notes:

ND-Not Detected

MG/L-Milligrams per liter

Lab Flags:

U- Not detected above reporting limit

J - Estimated value

Table 6
Groundwater Laboratory Analytical Results
03033

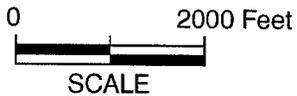
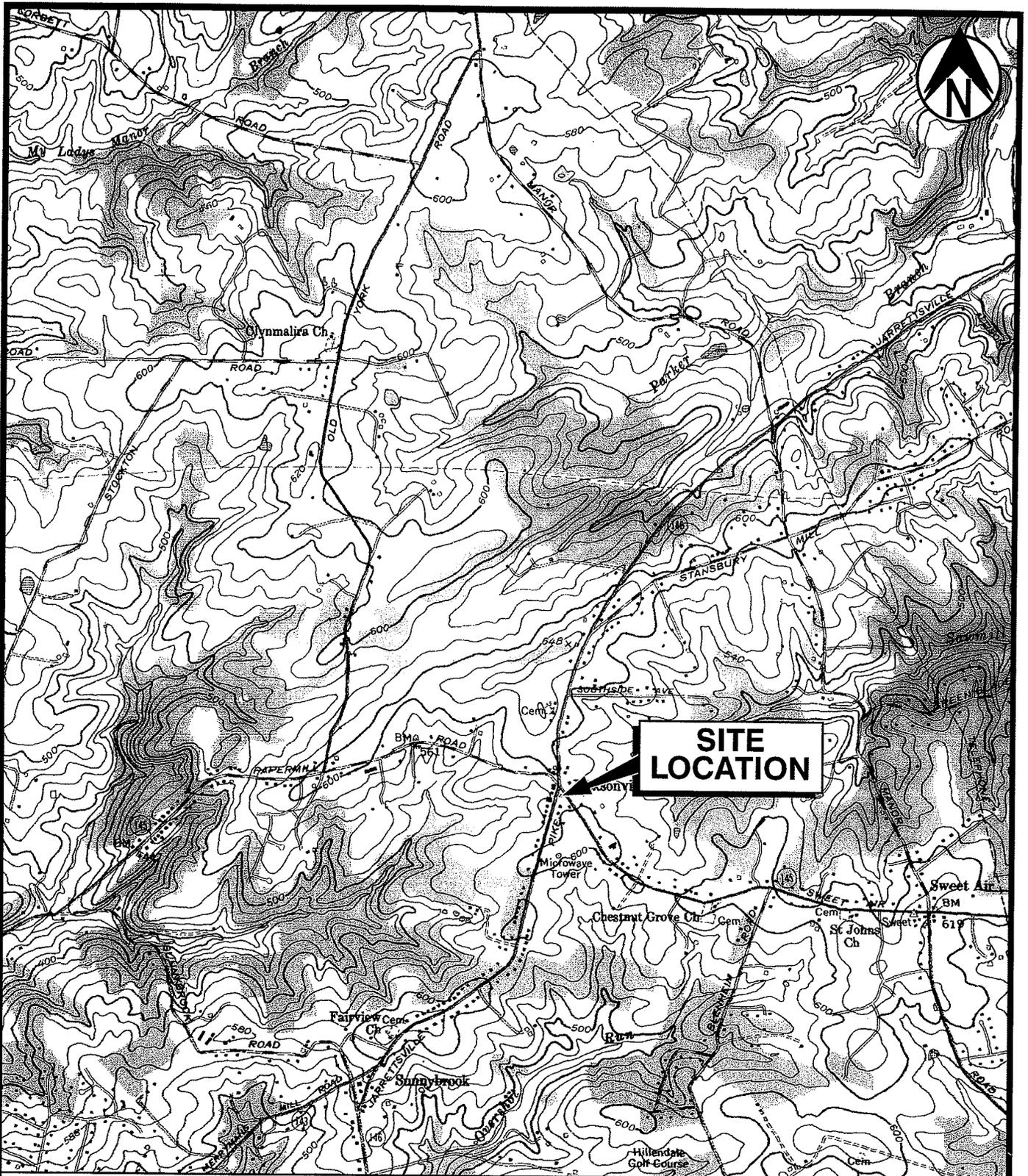
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12/29/2004					
MW-07					
	Volatile Organic Compounds				
	DIBROMOCHLOROMETHANE	ND		0.001	MG/L
	DI-ISOPROPYL ETHER	ND		0.005	MG/L
	METHYLENE CHLORIDE	ND		0.002	MG/L
	STYRENE	ND		0.005	MG/L
	TERT-AMYL METHYL ETHER	ND		0.005	MG/L
	TERT-BUTYL ETHYL ETHER	ND		0.005	MG/L
	TETRACHLOROETHENE	ND		0.001	MG/L
	TRANS-1,2-DICHLOROETHENE	ND		0.001	MG/L
	TRANS-1,3-DICHLOROPROPENE	ND		0.001	MG/L
	TRICHLOROETHENE	ND		0.001	MG/L
	VINYL CHLORIDE	ND		0.001	MG/L
	BENZENE	ND		0.001	MG/L
	TOLUENE	ND		0.001	MG/L
	ETHYLBENZENE	ND		0.001	MG/L
	XYLENE (TOTAL)	ND		0.001	MG/L
	TOTAL BTEX	ND		0.004	MG/L
	METHYL TERT BUTYL ETHER	0.00077	J	0.001	MG/L
	TPH-DRO (C10-C28)	0.289		0.1	MG/L
	TPH-GRO (C6-C10)	ND		0.2	MG/L
	TERT BUTYL ALCOHOL	ND		0.025	MG/L

Notes:
ND-Not Detected
MG/L-Milligrams per liter

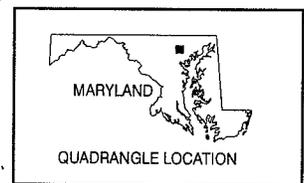
Lab Flags:
U- Not detected above reporting limit
J - Estimated value

Figures

\\Gtb8\projects\BP_Portfolio\Graphics\FIGURES (10-04)\COREL (10-04)\BP#3033 SLM (10-04).AI (10/25/04) SS



SOURCE: U.S.G.S. 7.5' Series quad.: Phoenix, MD, 1957, photorevised 1974.



**FIGURE 1
SITE LOCATION MAP
BP SERVICE STATION # 3033
14243 JARRETTVILLE PIKE
PHOENIX, MD**



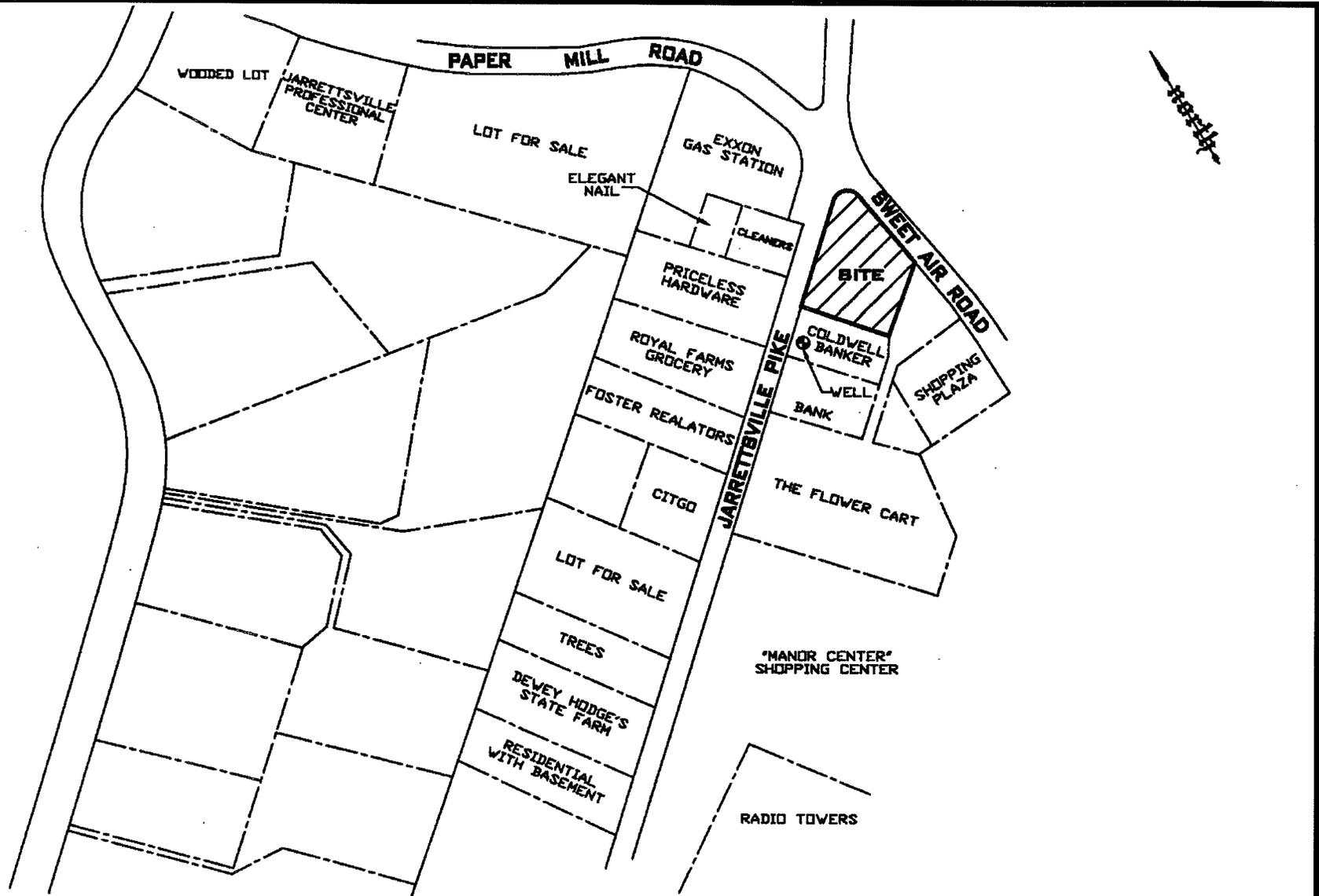


FIGURE 2
AREA WIDE MAP
BP SERVICE STATION #3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

P:\Gaithersburg\BP Portfolio\Graphics\FIGURES(01-05)\COREL FILES\BP#3033 SITE (01-05)\CDR (01/11/05) SS



SWEET AIR ROAD

SIDEWALK

LANDSCAPED AREA

FORMER TANK FIELD

FORMER TANK FIELD

FORMER TANK FIELD
4 2K-GALLON
US'IS

LANDSCAPED AREA

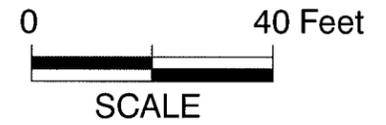
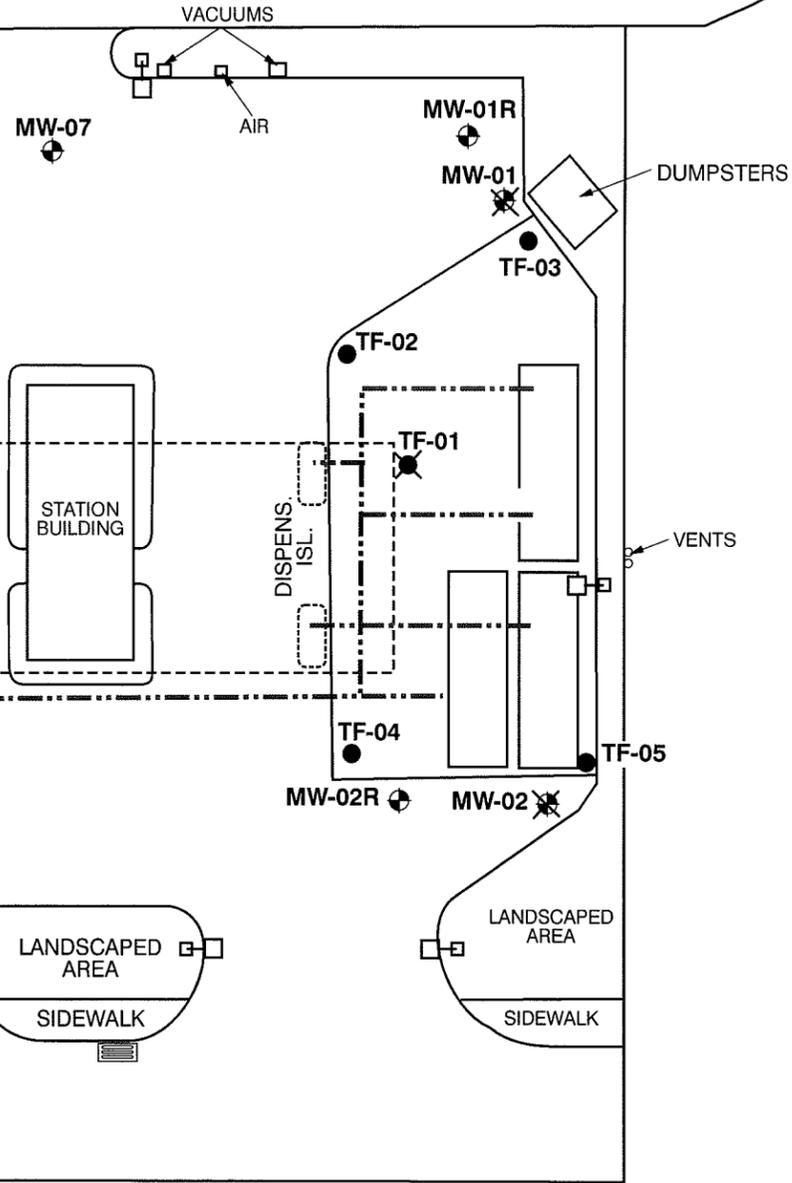
SIDEWALK

LANDSCAPED AREA

SIDEWALK

LANDSCAPED AREA

SIDEWALK

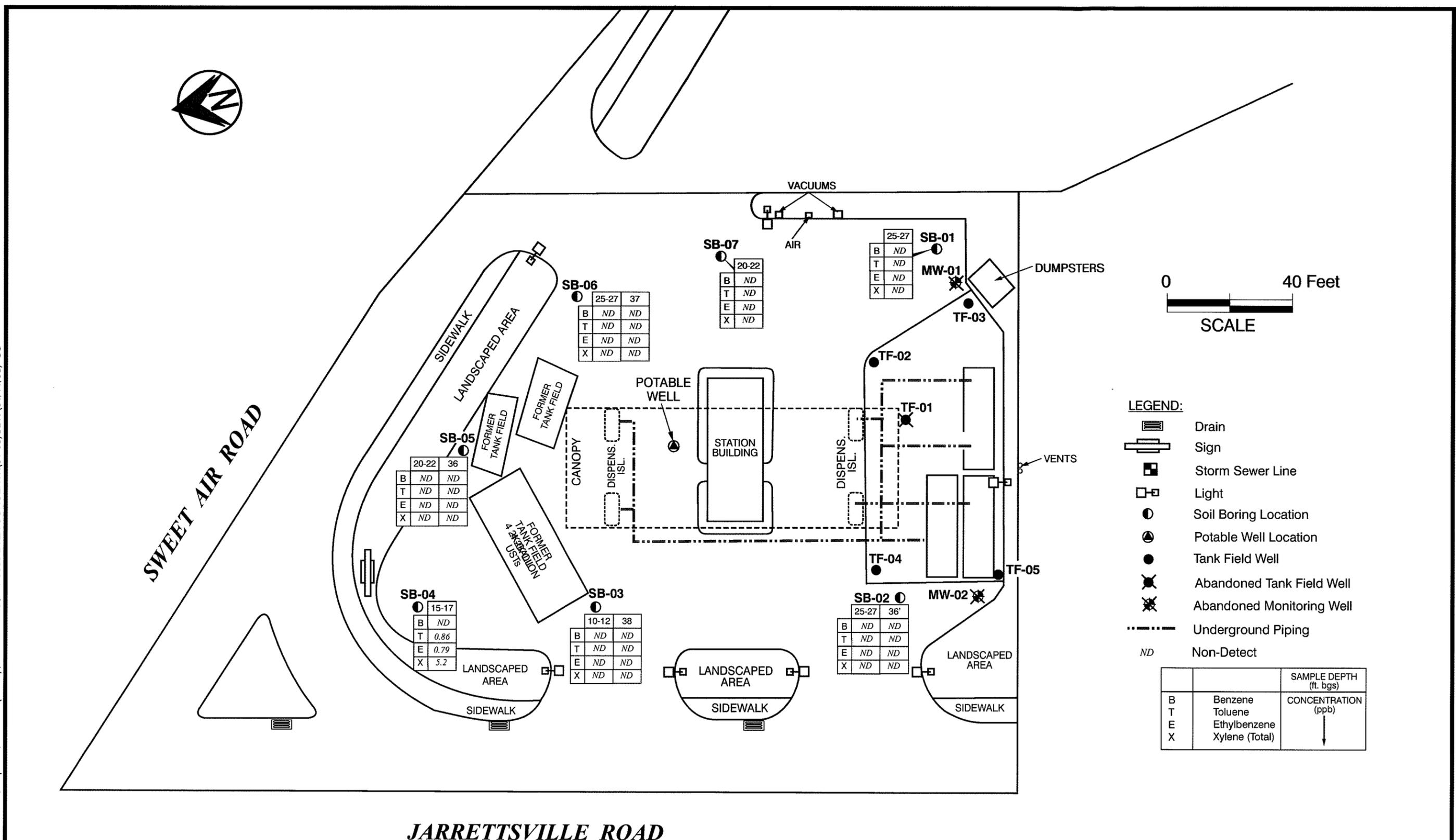


LEGEND:

- Drain
- Sign
- Storm Sewer Line
- Light
- Monitoring Well Location
- Potable Well Location
- Tank Field Well
- Abandoned Tank Field Well
- Abandoned Monitoring Well
- Underground Piping

JARRETTSVILLE ROAD

FIGURE 3
SITE PLAN
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND



LEGEND:

- Drain
- Sign
- Storm Sewer Line
- Light
- Soil Boring Location
- Potable Well Location
- Tank Field Well
- Abandoned Tank Field Well
- Abandoned Monitoring Well
- Underground Piping
- ND Non-Detect

		SAMPLE DEPTH (ft. bgs)
B	Benzene	CONCENTRATION (ppb) ↓
T	Toluene	
E	Ethylbenzene	
X	Xylene (Total)	

FIGURE 4
TOTAL BTEX CONCENTRATION MAP-SOIL
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

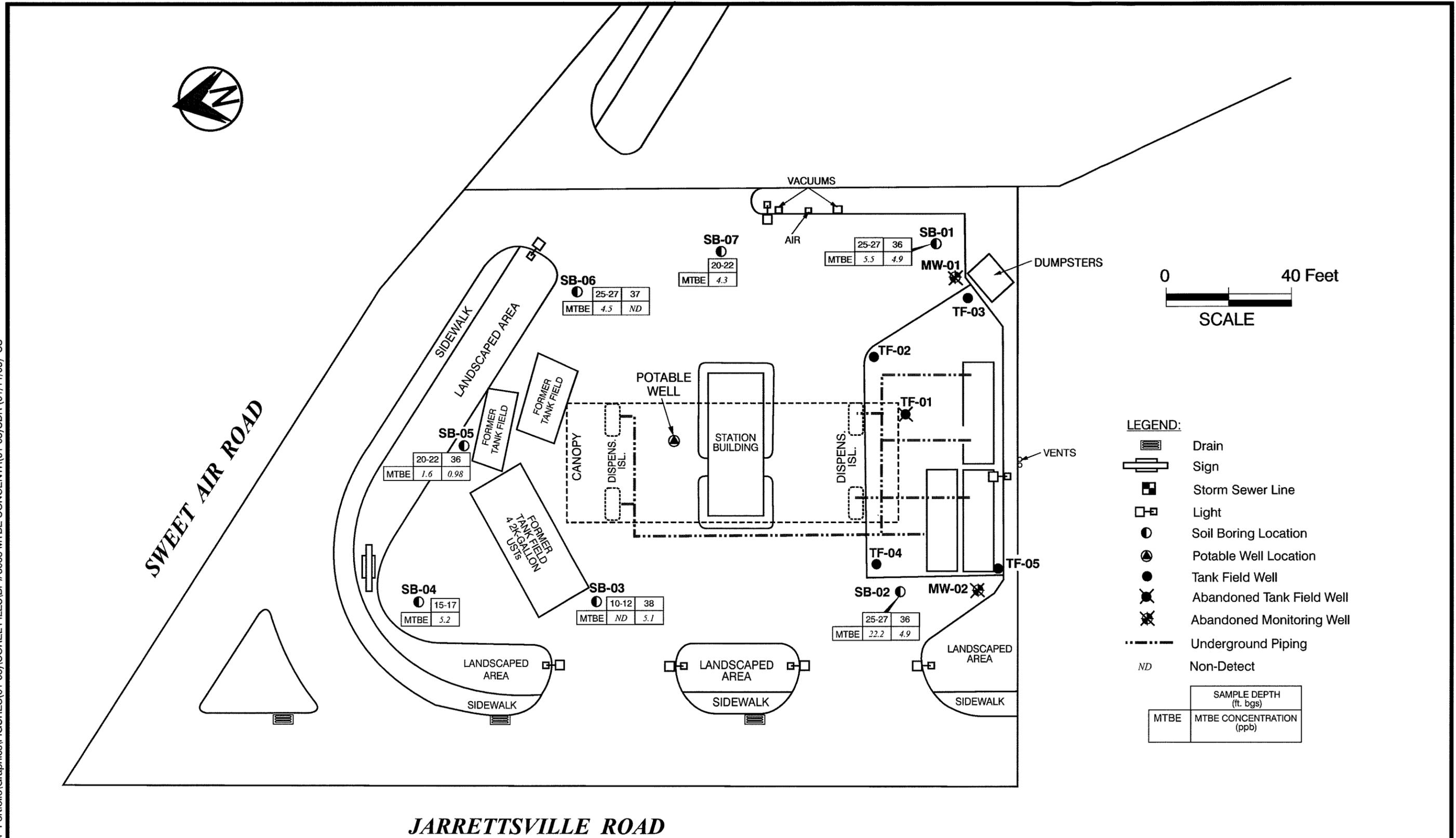


FIGURE 5
MTBE CONCENTRATION MAP SOIL
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

P:\Gaithersburg\BP Portfolio\Graphics\Figures\01-05\COREL FILES\BP#3033 SOIL BORING(01-05)CDR (01/11/05).SS

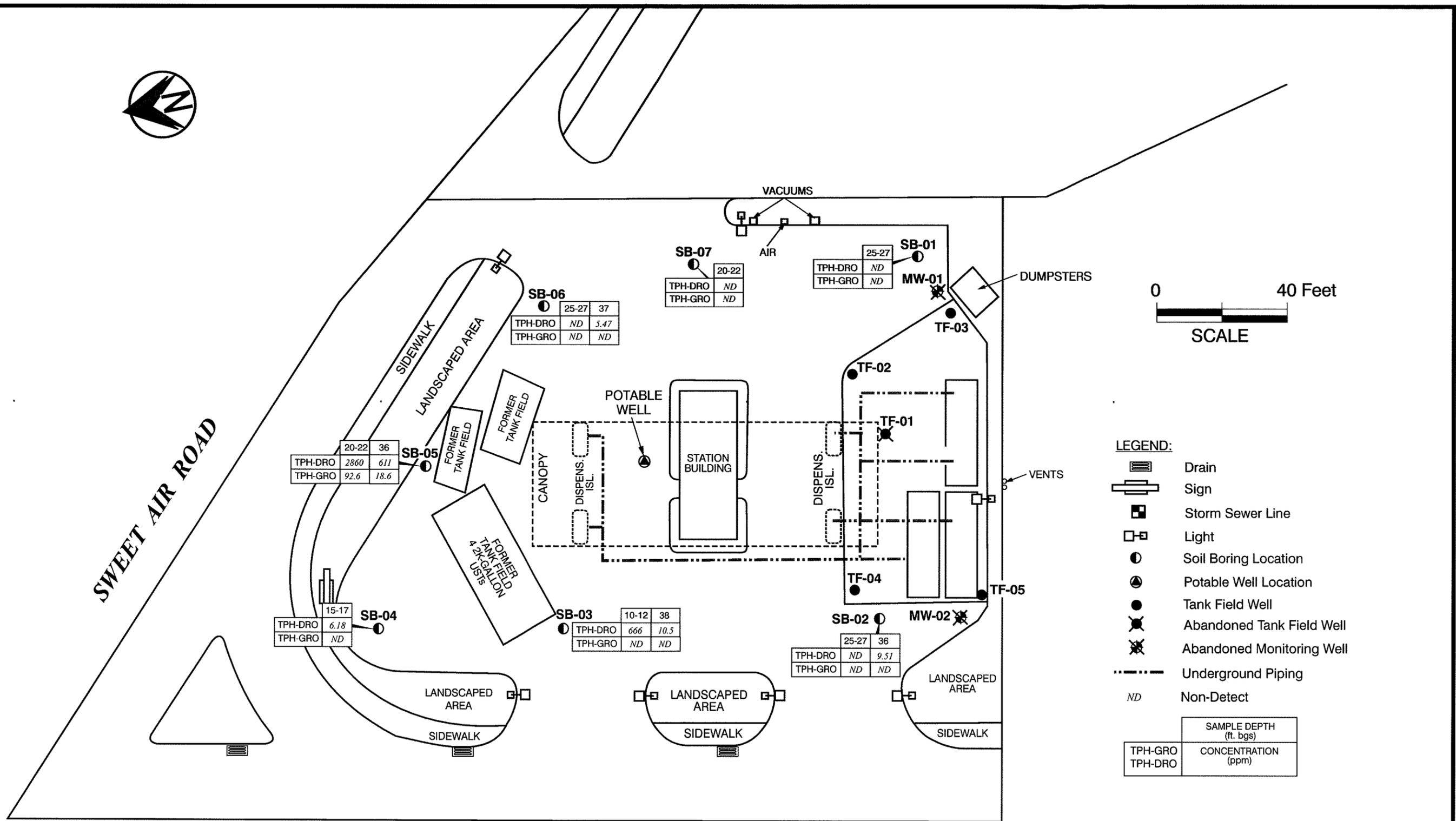
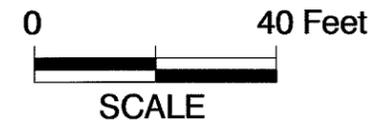
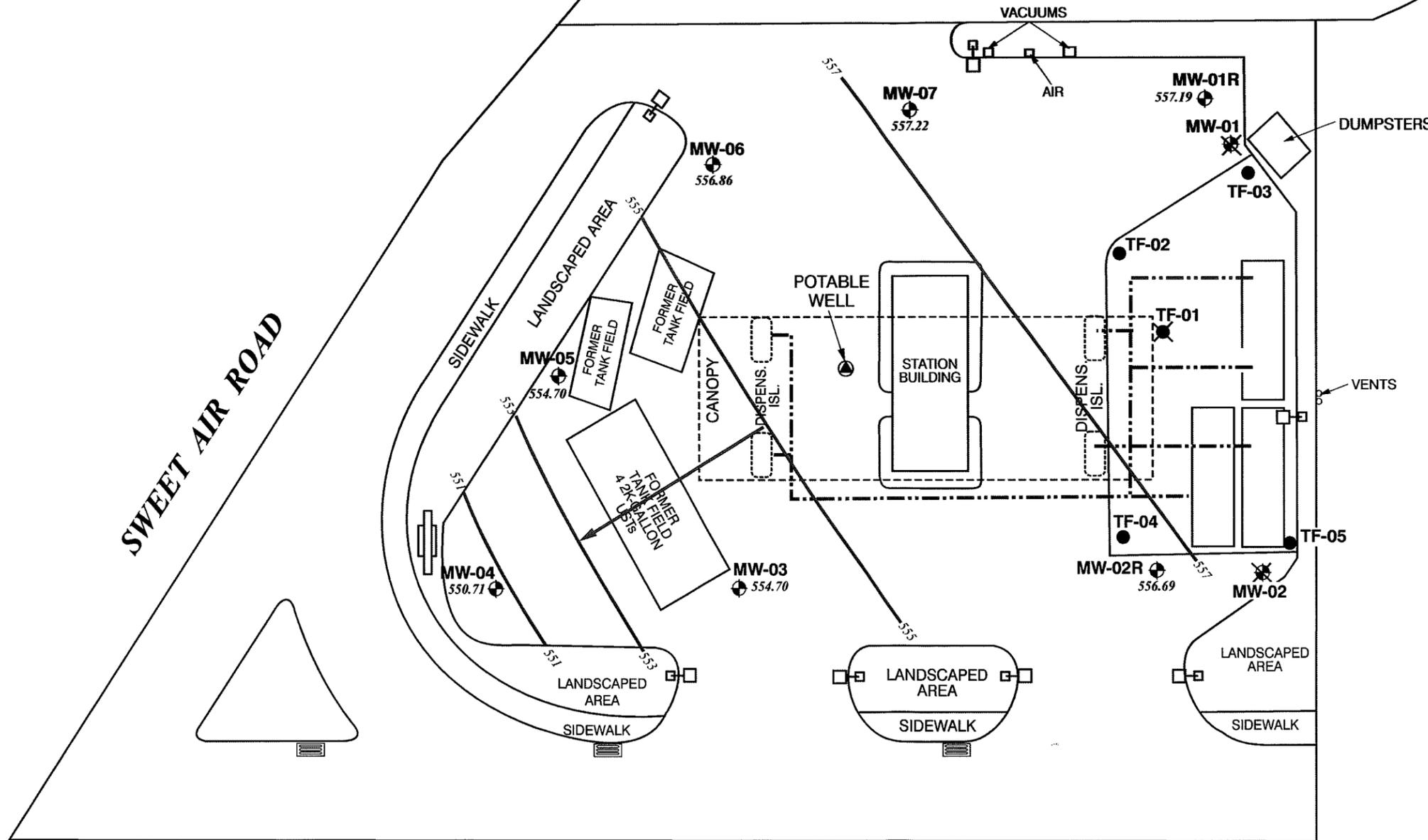


FIGURE 6
TPH CONCENTRATION MAP SOIL
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

SWEET AIR ROAD

JARRETTSVILLE ROAD

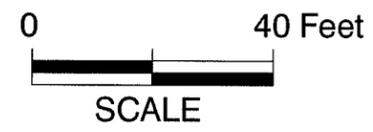
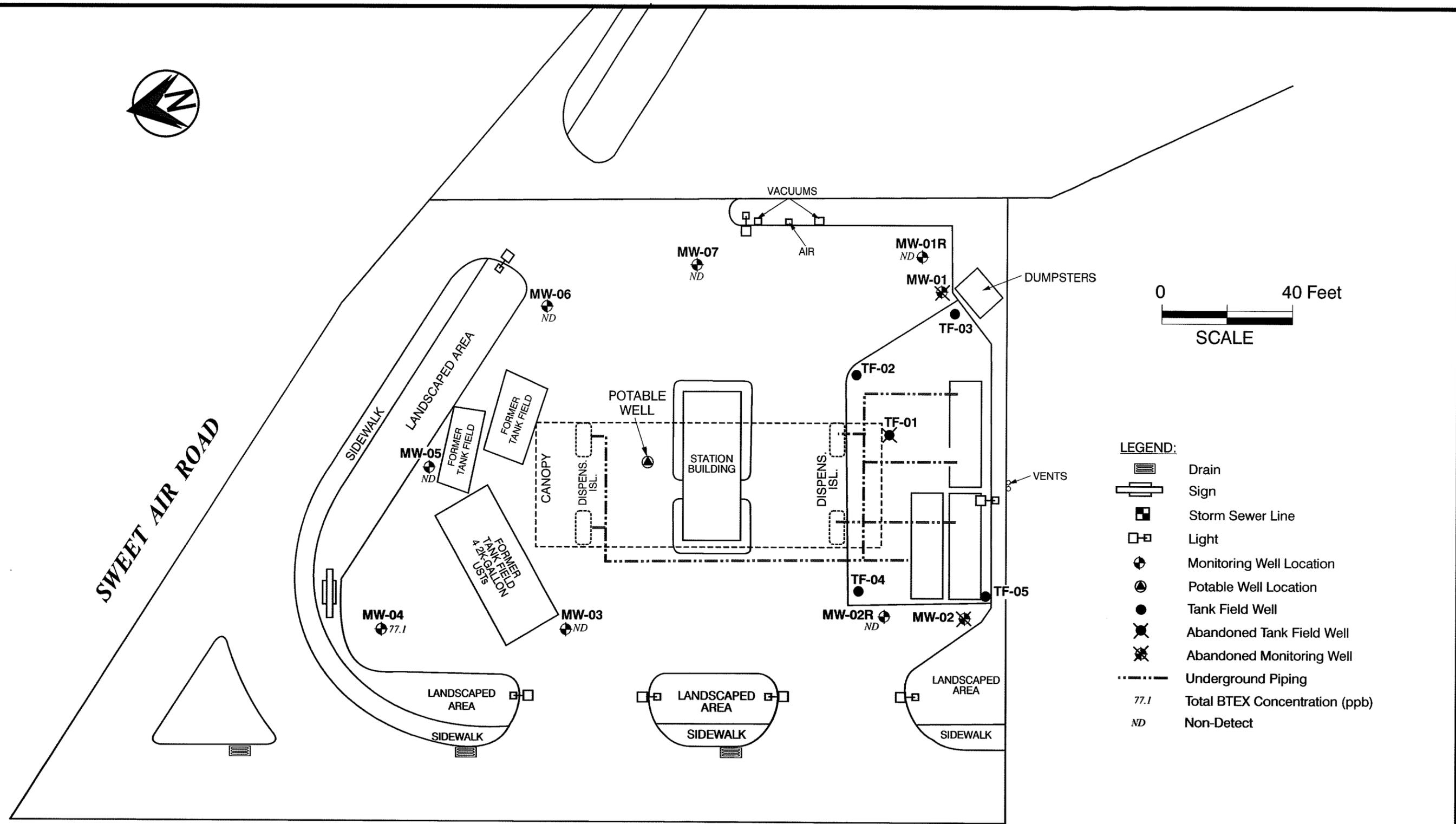


LEGEND:

- Drain
- Sign
- Storm Sewer Line
- Light
- Monitoring Well Location
- Potable Well Location
- Tank Field Well
- Abandoned Tank Field Well
- Abandoned Monitoring Well
- Underground Piping
- Groundwater Contour (ft msl)
- Direction of Groundwater Flow

FIGURE 7
GROUNDWATER CONTOUR MAP
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

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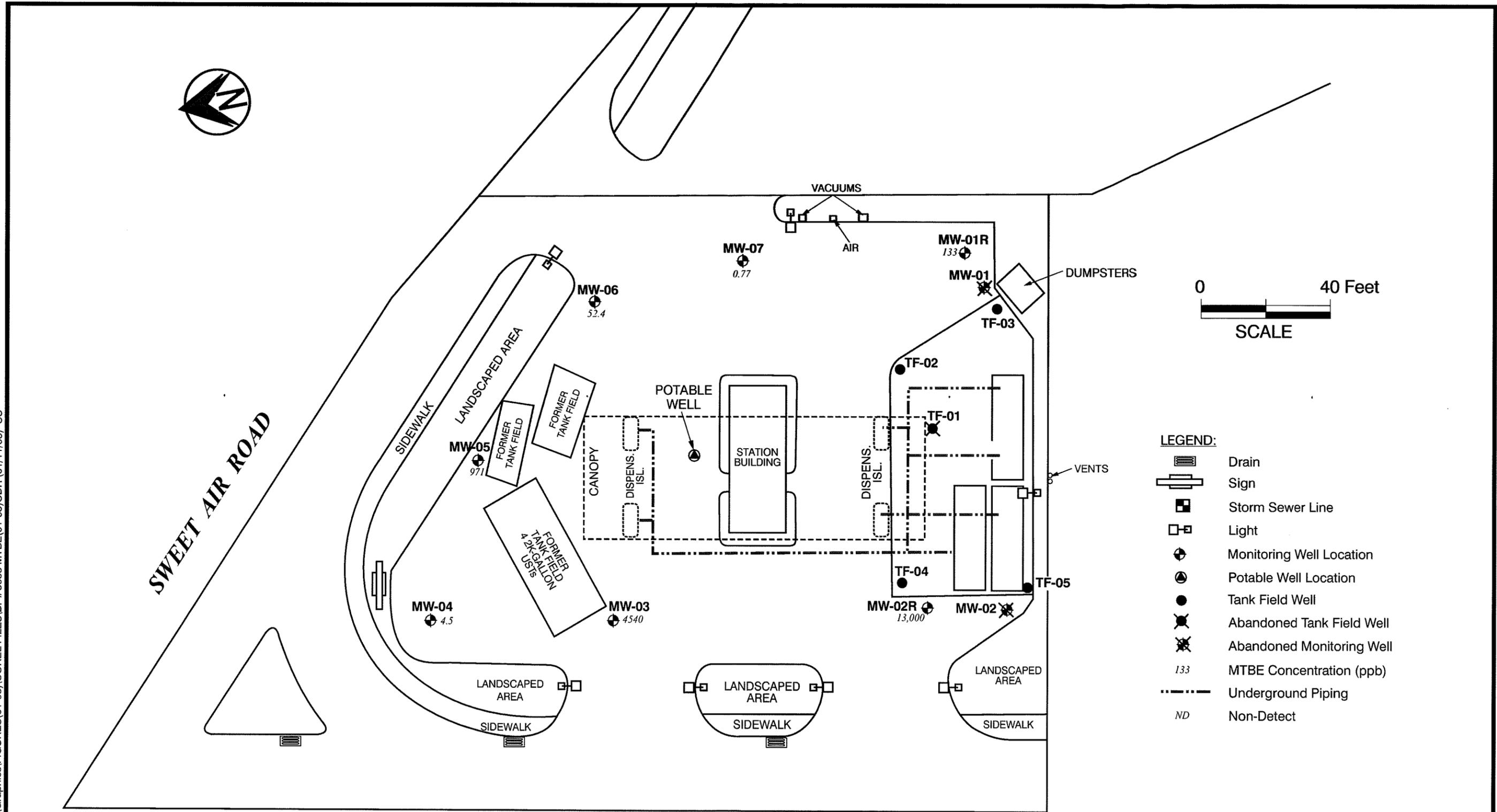


- LEGEND:**
- Drain
 - Sign
 - Storm Sewer Line
 - Light
 - Monitoring Well Location
 - Potable Well Location
 - Tank Field Well
 - Abandoned Tank Field Well
 - Abandoned Monitoring Well
 - Underground Piping
 - 77.1 Total BTEX Concentration (ppb)
 - ND Non-Detect

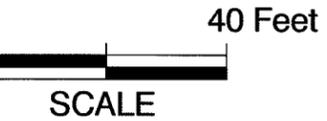
JARRETTSVILLE ROAD

FIGURE 8
TOTAL BTEX PLOT-GROUNDWATER
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND





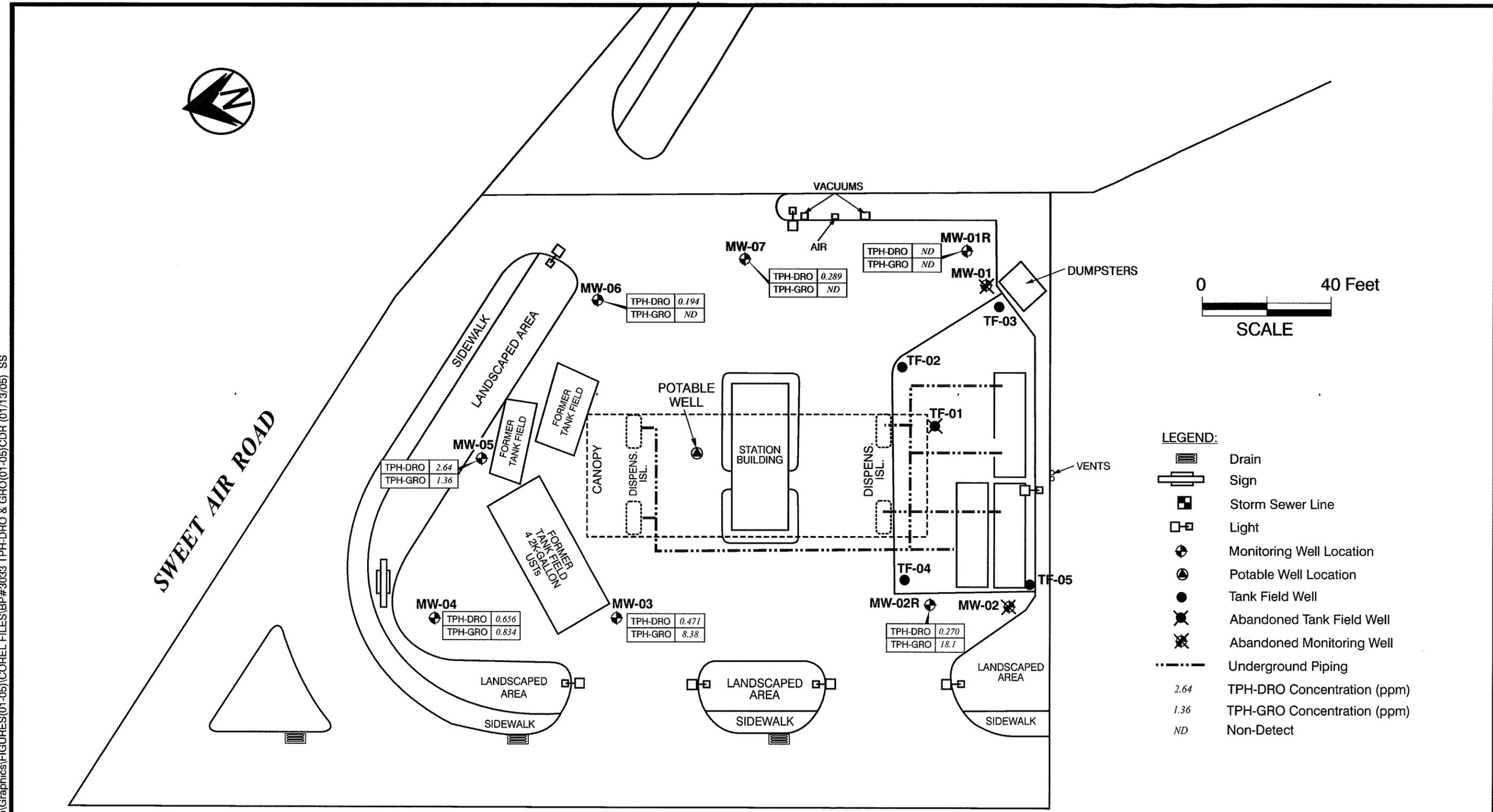
JARRETTSVILLE ROAD



- LEGEND:**
- Drain
 - Sign
 - Storm Sewer Line
 - Light
 - Monitoring Well Location
 - Potable Well Location
 - Tank Field Well
 - Abandoned Tank Field Well
 - Abandoned Monitoring Well
 - 133 MTBE Concentration (ppb)
 - Underground Piping
 - ND Non-Detect

FIGURE 9
MTBE PLOT-GROUNDWATER
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

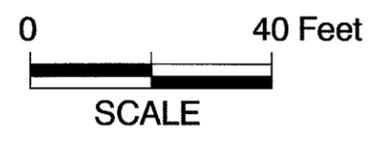
P:\Gaithersburg\BP Portfolio\Graphics\FIGURES\01-05\COREL FILES\BP#3033 TPH-DRO & GRO(01-05)CDR (01/13/05) SS



LEGEND:

- Drain
- Sign
- Storm Sewer Line
- Light
- Monitoring Well Location
- Potable Well Location
- Tank Field Well
- Abandoned Tank Field Well
- Abandoned Monitoring Well
- Underground Piping

2.64 TPH-DRO Concentration (ppm)
 1.36 TPH-GRO Concentration (ppm)
 ND Non-Detect



JARRETTSVILLE ROAD

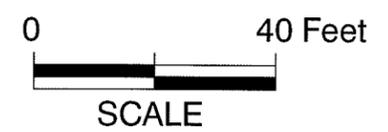
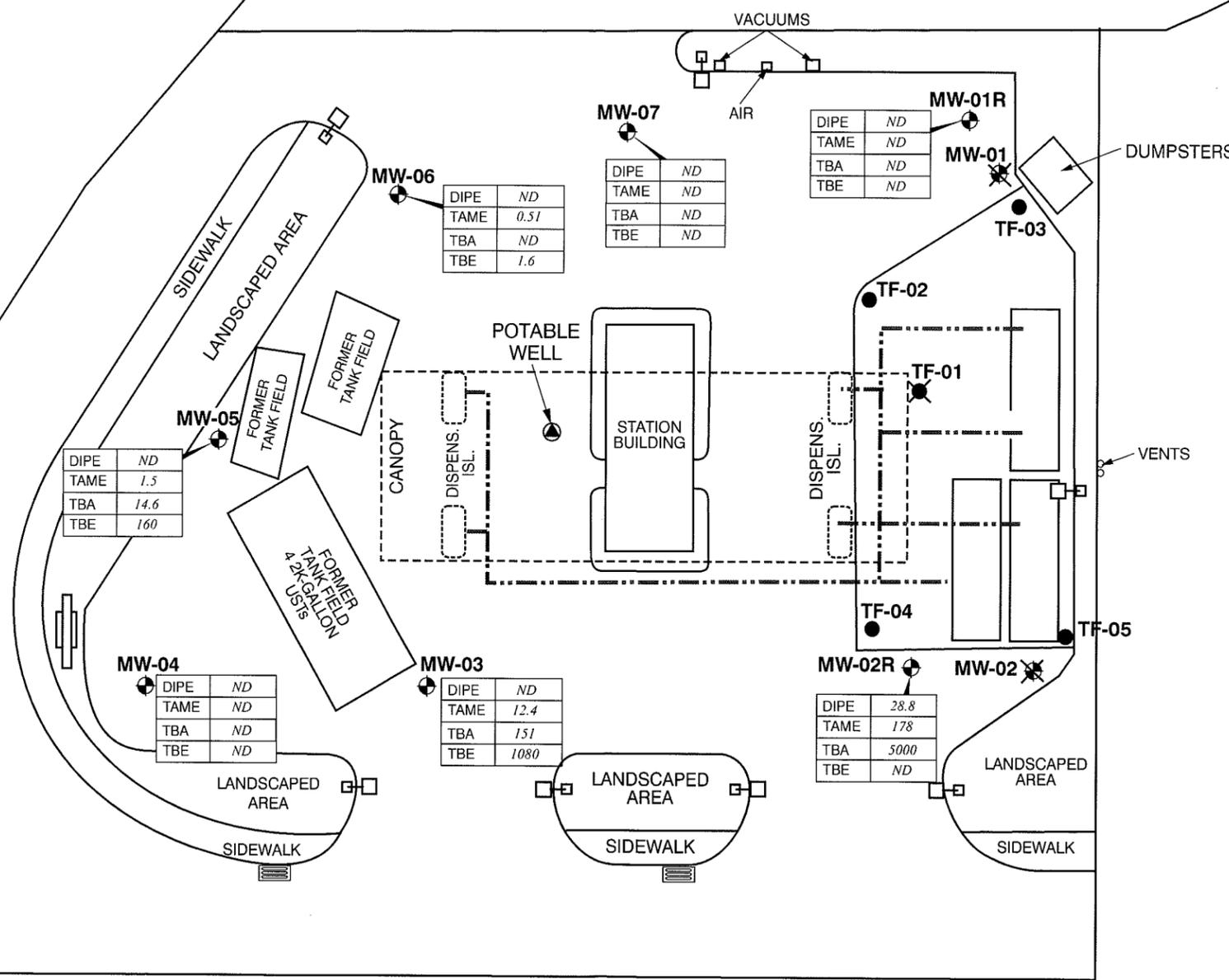
FIGURE 10
TPH-DRO & TPH-GRO PLOT-GROUNDWATER
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND





SWEET AIR ROAD

JARRETTSVILLE ROAD



- LEGEND:**
- Drain
 - Sign
 - Storm Sewer Line
 - Light
 - Monitoring Well Location
 - Potable Well Location
 - Tank Field Well
 - Abandoned Tank Field Well
 - Abandoned Monitoring Well
 - Abandoned Tank Field Well
 - Underground Piping
 - 28.8 DIPE Concentration (ppb)
 - 178 TAME Concentration (ppb)
 - 5000 TBA Concentration (ppb)
 - 1.6 TBE Concentration (ppb)
 - ND Non-Detect

FIGURE 11
OTHER OXYGENATES PLOT-GROUNDWATER
BP SERVICE STATION # 3033
14243 JARRETTSVILLE PIKE
PHOENIX, MARYLAND

P:\Gaithersburg\BP Portfolio\Graphics\FIGURES(01-05)\COREL FILES\BP#3033 NON MTBE(01-05)\CDR (01/13/05).SS



Appendix A
HEAT Data

Appendix B
Potable Water Well and MW01/MW02 Laboratory Analytical Data Report



New Jersey

12/29/04

Technical Report for

BP Amoco Corporation

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: N85143

Sampling Date: 12/01/04

Report to:

URS Corporation

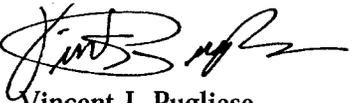
Jenny_Raczko@urscorp.com

ATTN: Jenny Raczko

Total number of pages in report: 12



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

BP Amoco Corporation

Job No: N85143

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
N85143-1	12/01/04	12:00 S	12/03/04	AQ	Ground Water	03033-MW-01
N85143-2	12/01/04	11:45 S	12/03/04	AQ	Ground Water	03033-MW-02
N85143-3	12/01/04	11:15 S	12/03/04	DW	Drinking Water Inf	03033-POT-INF
N85143-4	12/01/04	11:10 S	12/03/04	DW	Drinking Water Eff	03033-POT-EFF

Report of Analysis

Client Sample ID: 03033-MW-01	Date Sampled: 12/01/04
Lab Sample ID: N85143-1	Date Received: 12/03/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K95361.D	1	12/13/04	QWX	n/a	n/a	VK3363
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX, MTBE, TBA, DIPE, TAME, ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	22.4	1.0	0.28	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	6.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.16	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-119%
17060-07-0	1,2-Dichloroethane-D4	87%		68-129%
2037-26-5	Toluene-D8	90%		83-118%
460-00-4	4-Bromofluorobenzene	94%		82-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-02	Date Sampled: 12/01/04
Lab Sample ID: N85143-2	Date Received: 12/03/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K95215.D	1	12/09/04	QWX	n/a	n/a	VK3357
Run #2	K95267.D	50	12/10/04	QWX	n/a	n/a	VK3359

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	
1634-04-4	Methyl Tert Butyl Ether	18700 ^a	50	14	ug/l	
75-65-0	Tert Butyl Alcohol	3500 ^a	1300	300	ug/l	
108-20-3	Di-Isopropyl ether	49.9	5.0	0.51	ug/l	
994-05-8	tert-Amyl Methyl Ether	238	5.0	0.16	ug/l	
637-92-3	tert-Butyl Ethyl Ether	2.9	5.0	0.57	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	108%	79-119%
17060-07-0	1,2-Dichloroethane-D4	105%	99%	68-129%
2037-26-5	Toluene-D8	103%	104%	83-118%
460-00-4	4-Bromofluorobenzene	107%	107%	82-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	
Lab Sample ID:	N85143-3	Date Sampled: 12/01/04
Matrix:	DW - Drinking Water Inf	Date Received: 12/03/04
Method:	EPA 524.2 REV 4.1	Percent Solids: n/a
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A06541.D	1	12/07/04	MFH	n/a	n/a	V3A260
Run #2	3A06581.D	25	12/08/04	MFH	n/a	n/a	V3A262

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	28.2		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	1.6		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	Date Sampled:	12/01/04
Lab Sample ID:	N85143-3	Date Received:	12/03/04
Matrix:	DW - Drinking Water Inf	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	599 ^a		13	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%	95%	72-115%
460-00-4	4-Bromofluorobenzene	83%	79%	68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	Date Sampled:	12/01/04
Lab Sample ID:	N85143-3	Date Received:	12/03/04
Matrix:	DW - Drinking Water Inf	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-EFF	Date Sampled:	12/01/04
Lab Sample ID:	N85143-4	Date Received:	12/03/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A06582.D	1	12/09/04	MFH	n/a	n/a	V3A262
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-EFF	Date Sampled:	12/01/04
Lab Sample ID:	N85143-4	Date Received:	12/03/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.32		0.50	0.080	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	0.12		1.0	0.092	ug/l	J
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	0.12	10000	0.50	0.061	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	93%		72-115%
460-00-4	4-Bromofluorobenzene	85%		68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Project Name **BP Amoco**
 BP BU/RM CO Portfolio: **Mid Atlantic**
 BP Laboratory Contract Number: _____
 Requested Due Date (mm/dd/yy) **STANDARD**

N 85143

Page 1 of 1

Date: **12/1/04**

On-site Time: **0900** Temp: **51°F**
 Off-site Time: **1300** Temp: **51°F**
 Sky Conditions: **Cloudy**
 Meteorological Events: **Rain, Wind**
 Wind Speed: **N/A** Direction: **N/A**

Send To: _____
 Lab Name: **Accutest Labs**
 Lab Address: **2235 Route 130, Bldg. B**
 Dayton, NJ 08810
 Lab PM: **Diane Komer**
 Tele/Fax: **732-329-0200**
 Report Type & QC Level: **Level 1**
 BP/GEM Account No.: _____

BP/GEM Facility No.: **03033**
 BP/GEM Facility Address: **14234 Jarrettsville Pike**
 Site ID No.: **Phoenix, MD**
 Site Lat/Long: _____
 California Global ID #: _____
 BP/GEM PM Contact: **NICK DANERAK**
 Address: **200 Orchard Ridge Dr, #101**
 Gaithersburg, MD 20878
 Tele/Fax: _____

Consultant/Contractor: **URS**
 Address: **200 Orchard Ridge Dr, #101**
 Gaithersburg, MD 20878
 e-mail EDD: _____
 Consultant/Contractor Project No.: _____
 Consultant Tele/Fax: **301-258-9780**
 Consultant/Contractor PM: **TONY APANAVAGE**
 Invoice to: **(Consultant) or BP/GEM (Circle one)**
 BP/GEM Work Release No.: _____

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments		
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	ETEX (8021)	MTBE	Naphthalene	TPH-GRO (3015)	TPH-DRO (3015)	BTEX		MTBE	TBA
1	03033-MW0A	1200	X				-1	4			X					X	X	X	X		2061
2	03033-MW0B	1145	X				-2	4			X					X	X	X	X		
3	03033-POT-1WF	1115	X				-3	4			X										
4	03033-POT-EFF	1100	X				-4	4			X										
5																					
6																					
7																					
8																					
9																					

Sampler's Name: **STROIK/APANAVAGE**
 Sampler's Company: **URS**
 Shipment Date: _____
 Shipment Method: **Courier**
 Shipment Tracking No.: _____
 Special Instructions: **NO TB 12/1/04**

Relinquished By / Affiliation: **Noelle Stroik**
 Date: **12/2** Time: **1600**
 Accepted By / Affiliation: **[Signature]**
 Date: **12/3/04** Time: **11:20**
 Date: **12/3/04** Time: **16:45**

For Lab Use Only:
 Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt **44** °F/C Trip Blank Yes No

Appendix C

Boring Logs

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-01R

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
1 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/6/2004

START TIME
1005

END TIME
1130

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7 FEET	Brownish tan with orange micaceous clayey SILT dry		0.3	24"/22"	0	5-7 FEET
	6						
	8						
	10						
	10-12 FEET	Brownish tan with orange and black micaceous clayey SILT with some crystalline quartz and muscovite dry		0.1	24"/22"	0	10-12 FEET
	12						
	14						
	15-17 FEET	Brownish tan with orange and black micaceous clayey SILT some crystalline quartz and muscovite dry		0	24"/21"	0	15-17 FEET
	16						
	18						
	20						
	20-22 FEET	Brownish tan with black micaceous clayey SILT few crystalline quartz and muscovite >50% mica content dry		0	24"/21"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)							HOLE NUMBER
PROJECT #03033 14243 Jarrettsville Pike Phoenix, MD				LOGGED BY RUSSELL MEYER		MW-01R	
DRILLING COMPANY: BL Myers				DATE 12/6/2004	START TIME 1005	END TIME 1130	SHEET SHEETS 2 OF 2
ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 2 5	25-27 FEET Tannish brown with black and orange micaceous clayey SILT dry		0.1	24"18"	0	25-27 FEET
	2 7						
	2 9						
		30-32 FEET SPLIT SPOON REFUSAL soil consistence approaching saprolitic consistancy					30-32 FEET
	3 1	Drilling will continue with stratigraphic changed noted from cuttings					
	3 3						
	3 5						
	3 7						
		Grey quartz based crystalline saprolite moist	▼				
	3 9						
	4 1						
	4 3						
		Tannish brown muscovite based saprolite moist					
	4 5						
	4 7						
	4 9	Drilling Terminated @50'					

DRILLING LOG (Air Rotary)

HOLE NUMBER

MW-02R

PROJECT

#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY

RUSSELL MEYER

SHEET

SHEETS

1 OF 2

DRILLING COMPANY:

BL Myers

DATE

12/8/2004

START TIME

1450

END TIME

1540

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7	5-7 FEET Greyish brown with black micaceous silty SAND with some larger quartz crystals moist		0.6	24"/22"	0	5-7 FEET
	6						
	8						
	10	10-12 FEET Beigish brown with black micaceous clayey SILT with many intermittent smokey quartz crystals dry		0.5	24"/21"	0	10-12 FEET
	12						
	14						
	15-17	15-17 FEET Medium brown with black and gold micaceous clayey SILT with few crystalline smokey quartz dry		0.6	24"/23"	0	15-17 FEET
	16						
	18						
	20	20-22 FEET Golden brown and tannish orange micaceous clayey SILT dry biotite dry		0.8	12"/12"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-02R

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
2 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/8/2004

START TIME
1450

END TIME
1540

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b)						
	2 5	25-27 FEET Tannish brown with black micaceous clayey SILT few crystalline quartz dry		1.4	24"/21"	0	25-27 FEET
	2 7						
	2 9						
		30-32 FEET SPLIT SPOON REFUSAL Drilling will continue with stratigraphic changed noted from cuttings					30-32 FEET
	3 1						
	3 3						
	3 5						
		Tannish beige micaceous clayey SILT					
	3 7						
	3 9						
	4 1						
		Greyish brown micaceous clayey SILT					
	4 3	Beigish grey crystalline quartz and muscovite					
	4 5	Drilling terminated at 45 FEET					
	4 7						
	4 9						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-03

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
1 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/8/2004

START TIME
930

END TIME
1030

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7 FEET	Medium brown silty CLAY few mica flakes moist-dry		10.4	24"/23"	0	5-7 FEET
	6						
	8						
	10						
	10-12 FEET	Greyish brown with black and piunkish orange micaceous silty CLAY dry		114	24"/23"	0	10-12 FEET
	12						
	14						
	15-17 FEET	Greyish brown with black and orange micaceous clayey SILT dry		35.3	24"/21"	0	15-17 FEET
	16						
	18						
	20						
	20-22 FEET	Tannish brown with black and orange micaceous clayey SILT dry 16" Grey crystalline smokey quartz		8.3	24"/19"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)							HOLE NUMBER
PROJECT #03033 14243 Jarrettsville Pike Phoenix, MD					LOGGED BY RUSSELL MEYER		MW-03
DRILLING COMPANY: BL Myers					DATE 12/8/2004	START TIME 930	SHEET SHEETS 2 OF 2
					END TIME 1030		
ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 2 5	25-27 FEET SPLIT SPOON REFUSAL micaceous clayey SILT dry soil consistence approaching saprolitic consistancy Drilling will continue with stratigraphic changed noted from cuttings					25-27 FEET
	2 7						
	2 9						
	3 1						
	3 3						
	3 5		▼				
	3 7						
	3 9	Tannish brown micaceous clayey SILT of saprolitic consistancy					
	4 1	Driller noted fracture at 40 FEET					
	4 3						
	4 5	Drilling terminated at 46 FEET					
	4 7						
	4 9						

DRILLING LOG (Air Rotary)							WELL NUMBER
PROJECT #03033 14243 Jarrettsville Pike Phoenix, MD					LOGGED BY RUSSELL MEYER		SHEET 1 OF 2
DRILLING COMPANY: BL Myers					DATE 12/6/2004	START TIME 1340	END TIME 1420
ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7 FEET	Olive and tannish brown micaceous clayey SILT few crystalline quartz dry		0.1	8"6"	0	5-7 FEET
	6						
	8						
	10	10-12 FEET Brownish beige with olive and black micaceous clayey SILT few crystalline quartz dry		0	24"123"	0	10-12 FEET
	12						
	14						
	15-17 FEET	Greyish beige with black micaceous clayey SILT almost saprolite with some crystalline quartz and muscovite dry		0.1	24"18"	0	15-17 FEET
	16						
	18						
	20-22 FEET	Crystalline smokey quartz some biotite crystals dry		0	6"3"	0	20-22 FEET
	20						
	22						
	24						

DRILLING LOG (Air Rotary)

HOLE NUMBER

MW-04

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
1 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/6/2004

START TIME
1340

END TIME
1420

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b)						
	2 5	25-27 FEET SPLIT SPOON REFUSAL micaceous clayey SILT dry soil consistence approaching saprolitic consistancy Drilling will continue with stratigraphic changed noted from cuttings					25-27 FEET
	2 7						
	2 9						
	3 1						
	3 3	Grey quartz based crystalline saprolite moist	▼				
	3 5						
	3 7	Tannish brown muscovite based saprolite moist					
	3 9						
	4 1						
	4 3						
	4 5	Drilling terminated @45'					
	4 7						
	4 9						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-05

SHEET SHEETS
1 OF 2

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

DRILLING COMPANY:
BL Myers

DATE **12/8/2004** START TIME **1315** END TIME **1400**

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	6	5-7 FEET Tannish brown with black and gold micaceous clayey SILT few quartz crystals dry		2.4	24"/21"	0	5-7 FEET
	8						
	10	10-12 FEET Tannish brown with black and gold micaceous clayey SILT dry		3.7	24"/24"	0	10-12 FEET
	12						
	14						
	16	15-17 FEET Tannish brown with black micaceous clayey SILT some crystalline smokey quartz dry		33.2	24"/8"	0	15-17 FEET
	18						
	20	20-22 FEET Tannish brown with black and gold micaceous clayey SILT few crystalline quartz and biotite dry		72	12"/11"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-05

SHEET SHEETS
2 OF 2

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

DRILLING COMPANY:
BL Myers

DATE
12/8/2004

START TIME
1315

END TIME
1400

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b)						
	2 5	25-27 FEET SPLIT SPOON REFUSAL Drilling will continue with stratigraphic changed noted from cuttings					25-27 FEET
	2 7						
	2 9						
	3 1						
	3 3						
	3 5	Greyish beige micaceous clayey SILT	▼				
		Brownish beige micaceous clayey SILT					
	3 7						
	3 9						
		Greyish beige micaceous clayey SILT					
	4 1						
		Brownish beige micaceous clayey SILT					
	4 3						
	4 5	Drilling terminated at 45 FEET					
	4 7						
	4 9						

DRILLING LOG (Air Rotary)

HOLE NUMBER

MW-06

PROJECT

#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY

RUSSELL MEYER

SHEET

SHEETS

1 OF 2

DRILLING COMPANY:

BL Myers

DATE

12/8/2004

START TIME

1115

END TIME

1300

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7 FEET	Brownish red with black and tan micaceous silty CLAY moist-dry		0.7	24"/23"	0	5-7 FEET
	6						
	8						
	10						
	10-12 FEET	Pinkish/Reddish brown micaceous clayey SILT with dense (1/2-3/4") lenses of biotite dry		0.4	24"/23"	0	10-12 FEET
	12						
	14						
	15-17 FEET	Tannish brown with black and red micaceous clayey SILT dry		0.2	24"/21"	0	15-17 FEET
	16						
	18						
	20						
	20-22 FEET	Tannish brown with black micaceous clayey SILT dry 16" Grey crystalline smokey quartz		0.4	24"/23"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-06

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
2 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/8/2004

START TIME
1115

END TIME
1300

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 2 5	25-27 FEET Tannish Brown with black micaceous clayey SILT dry		1.1	24"/21"	0	25-27 FEET
	2 7						
	2 9						
	3 1	30-32 FEET Tannish brown micaceous silty CLAY 6" Tannish brown with black and gold micaceous clayey SILT moist		0.3	24"/22"	0	30-32 FEET
	3 3						
	3 5	35-37 FEET SPLIT SPOON REFUSAL Brown micaceous clayey SILT wet Drilling will continue with stratigraphic changed noted from cuttings	▼				35-37 FEET
	3 7						
	3 9						
	4 1	Greyish beige micaceous saprolite					
	4 3	Grey crystalline quartz and muscovite					
	4 5	Drilling terminated at 45 FEET					
	4 7						
	4 9						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-07

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
1 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/6/2004

START TIME
1200

END TIME
1245

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b) 0						0-5 FEET Cleared with air knife
	2						
	4						
	5-7 FEET	Tannish brown with red, orange, and black micaceous clayey SILT dry		0.4	24"/23"	0	5-7 FEET
	6						
	8						
1	10						
	10-12 FEET	Brownish black micaceous clayey SILT(3") Grey crystalline quartz and muscovite dry		0	12"/7"	0	10-12 FEET
	12						
	14						
	15-17 FEET	Greyish olive with black abd tannish brown micaceous clayey SILT almost saprolite dry		0.1	24"/21"	0	15-17 FEET
	16						
	18						
2	20						
	20-22 FEET	Greyish olive with black SAPROLITE dry		0.1	6"/3"	0	20-22 FEET
	22						
	24						

DRILLING LOG (Air Rotary)

HOLE NUMBER
MW-07

PROJECT
#03033 14243 Jarrettsville Pike Phoenix, MD

LOGGED BY
RUSSELL MEYER

SHEET SHEETS
1 OF 2

DRILLING COMPANY:
BL Myers

DATE
12/6/2004

START TIME
1200

END TIME
1245

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	DTW	FIELD SCREENING RESULTS (PPM)	DRIVEN/ RECOVERED	BLOW COUNT	REMARKS
	(b)						
	2 5	25-27 FEET SPLIT SPOON REFUSAL soil consistence approaching saprolitic consistency Drilling will continue with stratigraphic changed noted from cuttings					25-27 FEET
	2 7						
	2 9						
	3 1						
	3 3						
	3 5						
	3 7	Grey quartz based crystalline saprolite moist	▼				
	3 9						
	4 1						
	4 3						
	4 5	Tannish brown muscovite based saprolite moist Grey quartz based crystalline saprolite moist					
	4 7						
	4 9	Drilling Terminated @50'					

Appendix D
Laboratory Analytical Data Reports—Soil



01/04/05

Technical Report for

BP Amoco Corporation

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: N85364

Sampling Date: 12/06/04

Report to:

URS Corporation

Jenny_Raczko@urscorp.com

ATTN: Jenny Raczko

Total number of pages in report: 14



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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2.2: N85364-2: 03033-MW07-20'-22'	7
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Sample Summary

BP Amoco Corporation

Job No: N85364

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
N85364-1	12/06/04	10:30	12/07/04	SO	Soil	03033-MW01R-25'-27'
N85364-2	12/06/04	12:15 RM	12/07/04	SO	Soil	03033-MW07-20'-22'
N85364-3	12/06/04	13:50 RM	12/07/04	SO	Soil	03033-MW04-15'-17'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: 03033-MW01R-25'-27'	
Lab Sample ID: N85364-1	Date Sampled: 12/06/04
Matrix: SO - Soil	Date Received: 12/07/04
Method: SW846 8260B	Percent Solids: 91.9
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G75959.D	1	12/14/04	SJM	n/a	n/a	VG3946
Run #2							

Run #	Initial Weight
Run #1	4.9 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.26	ug/kg	
108-88-3	Toluene	ND	1.1	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.63	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.47	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	5.5	1.1	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		67-119%
17060-07-0	1,2-Dichloroethane-D4	68%		58-128%
2037-26-5	Toluene-D8	86%		75-121%
460-00-4	4-Bromofluorobenzene	96%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW01R-25'-27'	
Lab Sample ID: N85364-1	Date Sampled: 12/06/04
Matrix: SO - Soil	Date Received: 12/07/04
Method: SW846 8015	Percent Solids: 91.9
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16227.D	1	12/13/04	ST	n/a	n/a	GPF624
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	80%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW01R-25'-27'	
Lab Sample ID:	N85364-1	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846-8015 SW846 3550B	Percent Solids: 91.9
Project:	URSMDb: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ39997.D	1	12/21/04	DCA	12/08/04	OP18947	GYZ1121
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	3.6	1.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		32-146%		
16416-32-3	Tetracosane-d50	114%		40-149%		
438-22-2	5a-Androstane	98%		35-152%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW07-20'-22'	
Lab Sample ID:	N85364-2	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846 8260B	Percent Solids: 92.0
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G75960.D	1	12/14/04	SJM	n/a	n/a	VG3946
Run #2							

Run #	Initial Weight
Run #1	4.8 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.27	ug/kg	
108-88-3	Toluene	ND	1.1	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.64	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	4.3	1.1	0.37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		67-119%
17060-07-0	1,2-Dichloroethane-D4	65%		58-128%
2037-26-5	Toluene-D8	88%		75-121%
460-00-4	4-Bromofluorobenzene	102%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW07-20'-22'	
Lab Sample ID:	N85364-2	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846 8015	Percent Solids: 92.0
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16233.D	1	12/13/04	ST	n/a	n/a	GPF624
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	79%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW07-20'-22'	
Lab Sample ID:	N85364-2	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846-8015 SW846 3550B	Percent Solids: 92.0
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ39998.D	1	12/21/04	DCA	12/08/04	OP18947	GYZ1121
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	3.6	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		32-146%
16416-32-3	Tetracosane-d50	108%		40-149%
438-22-2	5a-Androstane	95%		35-152%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW04-15'-17'	
Lab Sample ID: N85364-3	Date Sampled: 12/06/04
Matrix: SO - Soil	Date Received: 12/07/04
Method: SW846 8260B	Percent Solids: 89.6
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G75961.D	1	12/14/04	SJM	n/a	n/a	VG3946
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.26	ug/kg	
108-88-3	Toluene	0.86	1.1	0.26	ug/kg	J
100-41-4	Ethylbenzene	0.79	1.1	0.63	ug/kg	J
1330-20-7	Xylene (total)	5.2	2.2	0.47	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	5.2	1.1	0.37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		67-119%
17060-07-0	1,2-Dichloroethane-D4	67%		58-128%
2037-26-5	Toluene-D8	88%		75-121%
460-00-4	4-Bromofluorobenzene	102%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW04-15'-17'	
Lab Sample ID:	N85364-3	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846 8015	Percent Solids: 89.6
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16234.D	1	12/13/04	ST	n/a	n/a	GPF624
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	79%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW04-15'-17'	
Lab Sample ID:	N85364-3	Date Sampled: 12/06/04
Matrix:	SO - Soil	Date Received: 12/07/04
Method:	SW846-8015 SW846 3550B	Percent Solids: 89.6
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ39999.D	1	12/21/04	DCA	12/08/04	OP18947	GYZ1121
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	6.18	3.7	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	115%		32-146%
16416-32-3	Tetracosane-d50	118%		40-149%
438-22-2	5a-Androstane	103%		35-152%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Chain of Custody Record

N85364

Page 1 of 1

Project Name BP Site #03033 Phoenix, MD
 BP BU/RM CO Portfolio: Mid Atlantic
 BP Laboratory Contract Number: _____
 Requested Due Date (mm/dd/yy) Standard

Date: 12/6/2004

On-site Time:	8	50 Temp:	45 F
Off-site Time:	15	30 Temp:	48 F
Sky Conditions:	Cloudy		
Meteorological Events:	Occasional Mist/Rain		
Wind Speed:	20 MPH	Direction:	E/NE

Send To: <u>Sample Management</u>	BP/GEM Facility No.: <u>3033</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>Accutest Labs</u>	BP/GEM Facility Address: <u>14243 Jarrettsville Pike Phoenix, MD</u>	Address: <u>200 Orchard Ridge Dr., #101</u>
Lab Address: <u>2235 Route 130, Bldg. B</u>	Site ID No. _____	<u>Gaithersburg, MD 20878</u>
<u>Dayton, NJ 08810</u>	Site Lat/Long: _____	e-mail EDD: <u>kara_miller@urscorp.com</u>
Lab PM: <u>Diane Komar</u>	California Global ID #: _____	Consultant/Contractor Project No.: _____
Tele/Fax: <u>732-329-0200</u>	BP/GEM PM Contact: <u>Nick Onufrak</u>	Consultant Tele/Fax: <u>301-258-9780</u>
Report Type & QC Level: <u>Level 1</u>	Address: <u>200 Orchard Ridge Dr., #101</u>	Consultant/Contractor PM: <u>Ed Carpenetti</u>
BP/GEM Account No.: _____	<u>Gaithersburg, MD 20878</u>	Invoice to: <u>Consultant or BP/GEM (Circle one)</u>
Lab Bottle Order No. _____	Tele/Fax: <u>301-258-9780</u>	BP/GEM Work Release No.: _____

Item No.	Sample Description	Time	Matrix			Laboratory No.	No. of containers	Preservatives					Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments			Air	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	BTEX (8021)	MTBE	Naphthalene	TPH-GRO (3015)	TPH-DRO (3015)	
1	03033-MW01R-25-27	1030	X				2	X				X	X	X	X			PID=0.1 ppm
2	03033-MW07-20-22	1215	X				2	X				X	X	X	X			PID=0.1 ppm
3	03033-MW04-15-17	1350	X				2	X				X	X	X	X			PID=0.1 ppm
4																		
5																		
6																		
7																		
8																		
9																		

Sampler's Name:	Russell Meyer	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	URS	<i>[Signature]</i>	12-7-04	1000	<i>[Signature]</i>	12/7	1125
Shipment Date:	12/7/04	<i>[Signature]</i>	12/7	1135	<i>[Signature]</i>	12/7/04	1130
Shipment Method:	Courier	<i>[Signature]</i>	12/7/04	1200	<i>[Signature]</i>	12/7/04	1200
Shipment Tracking No.:							

Special Instructions: _____
 For Lab Use Only:
 Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 46 °F/C Trip Blank Yes No

N85364: Chain of Custody
 Page 1 of 1



01/04/05

Technical Report for

BP Amoco Corporation

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: N86177

Sampling Date: 12/08/04

Report to:

URS Corporation

Jenny_Raczko@urscorp.com

ATTN: Jenny Raczko

Total number of pages in report: 29



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

BP Amoco Corporation

Job No: N86177

URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
N86177-1	12/08/04	09:40 RM	12/14/04	SO	Soil	03033-MW03-10'-12'
N86177-2	12/08/04	10:10 RM	12/14/04	SO	Soil	03033-MW03-38'
N86177-3	12/08/04	11:35 RM	12/14/04	SO	Soil	03033-MW06-25'-27'
N86177-4	12/08/04	12:05 RM	12/14/04	SO	Soil	03033-MW06-37'
N86177-5	12/08/04	13:30 RM	12/14/04	SO	Soil	03033-MW05-20'-22'
N86177-6	12/08/04	13:45 RM	12/14/04	SO	Soil	03033-MW05-36'
N86177-7	12/08/04	15:20 RM	12/14/04	SO	Soil	03033-MW02R-25'-27'
N86177-8	12/08/04	15:35 RM	12/14/04	SO	Soil	03033-MW02R-36'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID: 03033-MW03-10'-12'		Date Sampled: 12/08/04
Lab Sample ID: N86177-1		Date Received: 12/14/04
Matrix: SO - Soil		Percent Solids: 84.5
Method: SW846 8260B		
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76089.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.2 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.27	ug/kg	
108-88-3	Toluene	ND	1.1	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.64	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-119%
17060-07-0	1,2-Dichloroethane-D4	98%		58-128%
2037-26-5	Toluene-D8	92%		75-121%
460-00-4	4-Bromofluorobenzene	92%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW03-10'-12' Lab Sample ID: N86177-1 Matrix: SO - Soil Method: SW846 8015 Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	Date Sampled: 12/08/04 Date Received: 12/14/04 Percent Solids: 84.5
---	---

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16323.D	1	12/16/04	ST	n/a	n/a	GPF627
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	14	2.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	78%		28-154%		

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL - Method Detection Limit	J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	------------------------------	--

Report of Analysis

Client Sample ID: 03033-MW03-10'-12'	Date Sampled: 12/08/04
Lab Sample ID: N86177-1	Date Received: 12/14/04
Matrix: SO - Soil	Percent Solids: 84.5
Method: SW846-8015 SW846 3545	Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40231.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1128
Run #2	YZ40256.D	10	12/30/04	DCA	12/15/04	OP19032	GYZ1128

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2	30.2 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	666 ^a	39	11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	114%	89%	32-146%
16416-32-3	Tetracosane-d50	109%	75%	40-149%
438-22-2	5a-Androstane	99%	90%	35-152%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW03-38'	Date Sampled: 12/08/04
Lab Sample ID: N86177-2	Date Received: 12/14/04
Matrix: SO - Soil	Percent Solids: 93.1
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76092.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.1 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.25	ug/kg	
108-88-3	Toluene	ND	1.1	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.60	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	5.1	1.1	0.35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-119%
17060-07-0	1,2-Dichloroethane-D4	85%		58-128%
2037-26-5	Toluene-D8	91%		75-121%
460-00-4	4-Bromofluorobenzene	101%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW03-38'	Date Sampled: 12/08/04
Lab Sample ID: N86177-2	Date Received: 12/14/04
Matrix: SO - Soil	Percent Solids: 93.1
Method: SW846 8015	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16427.D	1	12/21/04	ST	n/a	n/a	GPF630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	78%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW03-38'	Date Sampled:	12/08/04
Lab Sample ID:	N86177-2	Date Received:	12/14/04
Matrix:	SO - Soil	Percent Solids:	93.1
Method:	SW846-8015 SW846 3545		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40211.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	10.5	3.5	0.99	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	111%		32-146%
16416-32-3	Tetracosane-d50	111%		40-149%
438-22-2	5a-Androstane	100%		35-152%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW06-25'-27'	
Lab Sample ID: N86177-3	Date Sampled: 12/08/04
Matrix: SO - Soil	Date Received: 12/14/04
Method: SW846 8260B	Percent Solids: 91.3
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76093.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.26	ug/kg	
108-88-3	Toluene	ND	1.1	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	4.5	1.1	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-119%
17060-07-0	1,2-Dichloroethane-D4	93%		58-128%
2037-26-5	Toluene-D8	92%		75-121%
460-00-4	4-Bromofluorobenzene	101%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW06-25'-27'		
Lab Sample ID:	N86177-3	Date Sampled:	12/08/04
Matrix:	SO - Soil	Date Received:	12/14/04
Method:	SW846 8015	Percent Solids:	91.3
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16325.D	1	12/16/04	ST	n/a	n/a	GPF627
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	80%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW06-25'-27'	
Lab Sample ID:	N86177-3	Date Sampled: 12/08/04
Matrix:	SO - Soil	Date Received: 12/14/04
Method:	SW846-8015 SW846 3545	Percent Solids: 91.3
Project:	URSMDb: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40212.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1127
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	3.7	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		32-146%
16416-32-3	Tetracosane-d50	102%		40-149%
438-22-2	5a-Androstane	91%		35-152%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW06-37'	Date Sampled: 12/08/04
Lab Sample ID: N86177-4	Date Received: 12/14/04
Matrix: SO - Soil	Percent Solids: 95.3
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76094.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.25	ug/kg	
108-88-3	Toluene	ND	1.0	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.59	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-119%
17060-07-0	1,2-Dichloroethane-D4	84%		58-128%
2037-26-5	Toluene-D8	91%		75-121%
460-00-4	4-Bromofluorobenzene	102%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW06-37'	Date Sampled: 12/08/04
Lab Sample ID: N86177-4	Date Received: 12/14/04
Matrix: SO - Soil	Percent Solids: 95.3
Method: SW846 8015	
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16326.D	1	12/16/04	ST	n/a	n/a	GPF627
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	2.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	79%		28-154%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW06-37'	Date Sampled:	12/08/04
Lab Sample ID:	N86177-4	Date Received:	12/14/04
Matrix:	SO - Soil	Percent Solids:	95.3
Method:	SW846-8015 SW846 3545	Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40226.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1128
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	5.47	3.5	0.98	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		32-146%
16416-32-3	Tetracosane-d50	106%		40-149%
438-22-2	5a-Androstane	95%		35-152%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW05-20'-22'	
Lab Sample ID:	N86177-5	Date Sampled: 12/08/04
Matrix:	SO - Soil	Date Received: 12/14/04
Method:	SW846 8260B	Percent Solids: 91.7
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76095.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.26	ug/kg	
108-88-3	Toluene	ND	1.1	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6	1.1	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-119%
17060-07-0	1,2-Dichloroethane-D4	91%		58-128%
2037-26-5	Toluene-D8	89%		75-121%
460-00-4	4-Bromofluorobenzene	103%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW05-20'-22'	
Lab Sample ID:	N86177-5	Date Sampled: 12/08/04
Matrix:	SO - Soil	Date Received: 12/14/04
Method:	SW846 8015	Percent Solids: 91.7
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	PF16371.D	1	12/18/04	ST	n/a	n/a	GPF628
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	25.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	92.6	49	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	77%		28-154%		

(a) Dilution required due to sample matrix (turbidity).

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW05-20'-22'	
Lab Sample ID:	N86177-5	Date Sampled: 12/08/04
Matrix:	SO - Soil	Date Received: 12/14/04
Method:	SW846-8015 SW846 3545	Percent Solids: 91.7
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40227.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1128
Run #2	2Y3729.D	20	12/30/04	KLS	12/15/04	OP19032	G2Y107

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2	30.3 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2860 ^a	72	20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	128%	102%	32-146%
16416-32-3	Tetracosane-d50	125%	82%	40-149%
438-22-2	5a-Androstane	194% ^b	81%	35-152%

(a) Result is from Run# 2
 (b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW05-36'	Date Sampled:	12/08/04
Lab Sample ID:	N86177-6	Date Received:	12/14/04
Matrix:	SO - Soil	Percent Solids:	96.9
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76096.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.24	ug/kg	
108-88-3	Toluene	ND	1.0	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.58	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	0.98	1.0	0.34	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-119%
17060-07-0	1,2-Dichloroethane-D4	89%		58-128%
2037-26-5	Toluene-D8	91%		75-121%
460-00-4	4-Bromofluorobenzene	88%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW05-36'	
Lab Sample ID: N86177-6	Date Sampled: 12/08/04
Matrix: SO - Soil	Date Received: 12/14/04
Method: SW846 8015	Percent Solids: 96.9
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16333.D	1	12/16/04	ST	n/a	n/a	GPF627
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	18.6	11	2.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	79%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW05-36'	Date Sampled:	12/08/04
Lab Sample ID:	N86177-6	Date Received:	12/14/04
Matrix:	SO - Soil	Percent Solids:	96.9
Method:	SW846-8015 SW846 3545	Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40228.D	1	12/29/04	DCA	12/15/04	OP19032	GYZ1128
Run #2	YZ40255.D	10	12/30/04	DCA	12/15/04	OP19032	GYZ1128

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	611 ^a	34	9.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	12% ^b	86%	32-146%
16416-32-3	Tetracosane-d50	111%	92%	40-149%
438-22-2	5a-Androstane	140%	98%	35-152%

- (a) Result is from Run# 2
- (b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW02R-25'-27'	Date Sampled:	12/08/04
Lab Sample ID:	N86177-7	Date Received:	12/14/04
Matrix:	SO - Soil	Percent Solids:	90.7
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76097.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	4.8 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.27	ug/kg	
108-88-3	Toluene	ND	1.1	0.26	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.65	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	22.2	1.1	0.38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		67-119%
17060-07-0	1,2-Dichloroethane-D4	89%		58-128%
2037-26-5	Toluene-D8	93%		75-121%
460-00-4	4-Bromofluorobenzene	91%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW02R-25'-27'	
Lab Sample ID:	N86177-7	Date Sampled: 12/08/04
Matrix:	SO - Soil	Date Received: 12/14/04
Method:	SW846 8015	Percent Solids: 90.7
Project:	URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PF16428.D	1	12/21/04	ST	n/a	n/a	GPF630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	2.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	79%		28-154%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW02R-36'	
Lab Sample ID: N86177-8	Date Sampled: 12/08/04
Matrix: SO - Soil	Date Received: 12/14/04
Method: SW846 8260B	Percent Solids: 95.9
Project: URSMDB: S/S 03033, 14234 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G76098.D	1	12/18/04	SJM	n/a	n/a	VG3952
Run #2							

Run #	Initial Weight
Run #1	4.8 g
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.1	0.26	ug/kg	
108-88-3	Toluene	ND	1.1	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.61	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	4.9	1.1	0.36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		67-119%
17060-07-0	1,2-Dichloroethane-D4	92%		58-128%
2037-26-5	Toluene-D8	93%		75-121%
460-00-4	4-Bromofluorobenzene	97%		67-132%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Chain of Custody Record

N86177

Page 1 of 1

Project Name BP Site #03033 Phoenix, MD
 BP BU/RM CO Portfolio: Mid Atlantic
 BP Laboratory Contract Number: _____

On-site Time: <u>0900</u>	Temp: <u>55°F</u>
Off-site Time: <u>145</u>	Temp: <u>57°F</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>75 MPH</u>	Direction: <u>NE</u>

Date: 12-8-04 Requested Due Date (mm/dd/yy) Standard

Send To: <u>Sample Management</u>	BP/GEM Facility No.: <u>3033</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>Accutest Labs</u>	BP/GEM Facility Address: <u>14243 Jarrettsville Pike Phoenix, MD</u>	Address: <u>200 Orchard Ridge Dr., #101</u>
Lab Address: <u>2235 Route 130, Bldg. B</u>	Site ID No.:	<u>Gaithersburg, MD 20878</u>
<u>Dayton, NJ 08810</u>	Site Lat/Long:	e-mail EDD: <u>kara.miller@urscorp.com</u>
Lab PM: <u>Diane Komar</u>	California Global ID #:	Consultant/Contractor Project No.:
Tele/Fax: <u>732-329-0200</u>	BP/GEM PM Contact: <u>Nick Onufrak</u>	Consultant Tele/Fax: <u>301-258-9780</u>
Report Type & QC Level: <u>Level 1</u>	Address: <u>200 Orchard Ridge Dr., #101</u>	Consultant/Contractor PM: <u>Ed Carpenetti</u>
BP/GEM Account No.:	<u>Gaithersburg, MD 20878</u>	Invoice to: <u>Consultant or BP/GEM (Circle one)</u>
Lab Bottle Order No.:	Tele/Fax: <u>301-258-9780</u>	BP/GEM Work Release No.:

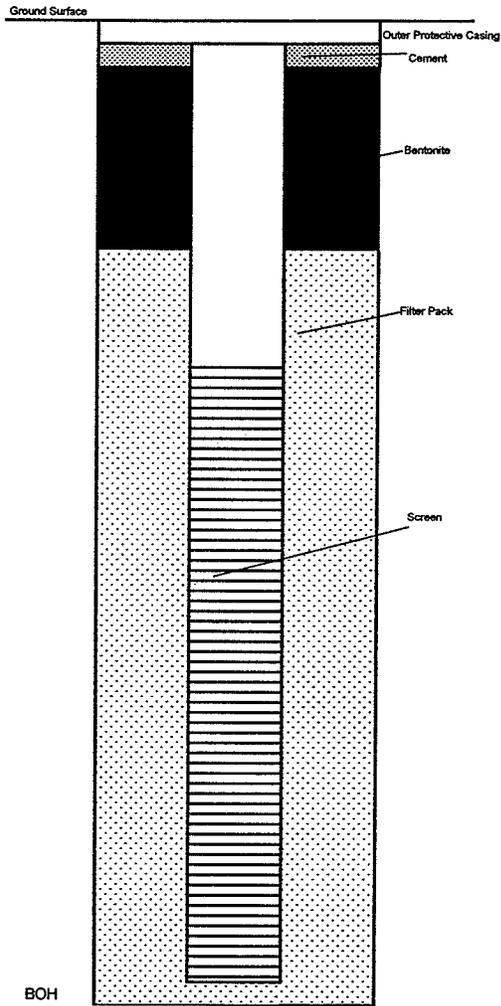
Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	B/TEX (8021)	MTBE	Naphthalene	TPH-GRO (3015)	TPH-DRO (3015)	EPA Method 18	
1	03033-MW03-10'-12'	0940	X				-1	2	X				X	X	X	X			
2	03033-MW03-38'	1010	X				-2	2	X				X	X	X	X			
3	03033-MW06-25'-27'	1125	X				-3	2	X				X	X	X	X			
4	03033-MW06-37'	1205	X				-4	2	X				X	X	X	X			Save samples for possible additional analysis
5	03033-MW05-20'-22'	1330	X				-5	2	X				X	X	X	X			
6	03033-MW05-36'	1345	X				-6	2	X				X	X	X	X			
7	03033-MW02R-25'-27'	1520	X				-7	2	X				X	X	X	X			
8	03033-MW02R-36'	1535	X				-8	2	X				X	X	X	X			
9																			

Sampler's Name: <u>Russell Meyer</u>	Relinquished By / Affiliation: _____	Date: _____	Time: _____	Accepted By / Affiliation: _____	Date: _____	Time: _____
Sampler's Company: <u>URS</u>						
Shipment Date: <u>12-14-04</u>		<u>12/14</u>	<u>1440</u>		<u>12/14</u>	<u>1140</u>
Shipment Method: <u>Courier</u>		<u>12/14</u>	<u>1640</u>		<u>12/14</u>	<u>1640</u>
Shipment Tracking No.:						
Special Instructions: <u>Save samples from MW-04 for possible additional analysis</u>						
For Lab Use Only:						
Custody Seals In Place Yes ___ No ___	Temperature Blank Yes ___ No ___	Cooler Temperature on Receipt <u>20</u> °F/C	Trip Blank Yes ___ No ___			

Appendix E
Monitoring Well Completion Logs and State Completion Reports

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER:	MW-01R	LOCATION:	BP/Amoco Site #03033
PROJECT:	Monitoring well installation	DRILLER:	BL Myers
DATE WELL COMPLETED:		DRILLING METHOD:	Air Rotary
		INSPECTOR:	Russell Meyer
		DEPTH TO GROUNDWATER (GW):	38 feet



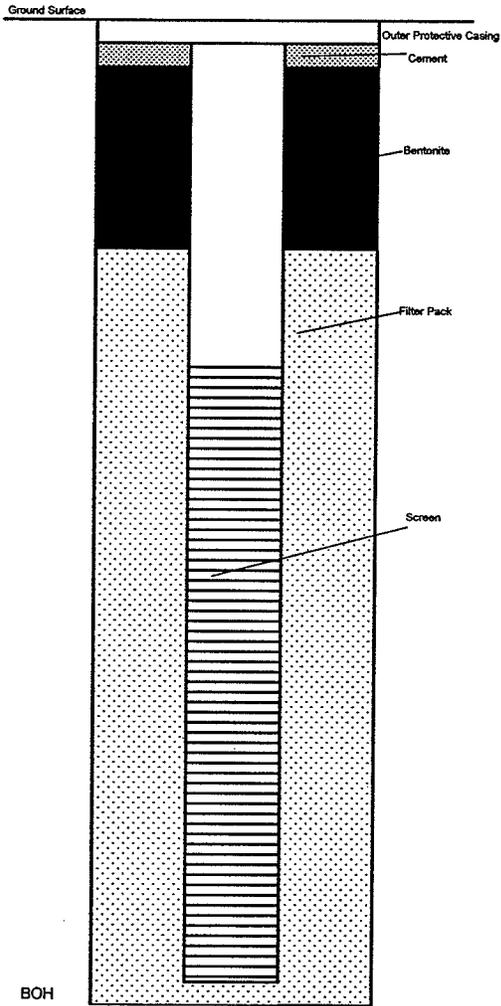
TOP OF RISER PIPE TO GROUND SURFACE:	6.00 inches
TYPE OF SURFACE SEAL:	Concrete
DEPTH OF SEAL:	1.00 feet
I.D. OF SURFACE CASING:	12.00 inches
TYPE OF SURFACE CASING:	Steel
I.D. OF RISER PIPE:	4.00 inches
TYPE OF RISER PIPE:	PVC
TYPE OF GROUT:	Portland Cement Grout
DEPTH TO TOP OF SEAL:	21.00 feet
TYPE OF SEAL:	Bentonite Pellet
DEPTH TO TOP OF FILTER PACK:	23.00 feet
TYPE OF FILTER PACK:	#2 Filter Sand
DEPTH TO TOP OF SCREEN:	25.00 feet
TYPE OF SCREEN:	PVC
SLOT SIZE AND LENGTH:	0.02
I.D. OF SCREEN:	4.00 inches
DEPTH TO BOTTOM OF SCREEN:	50.00 feet
BOREHOLE DIAMETER:	10.25 inches
BOTTOM OF HOLE:	50.00 feet
WELL DATA COLLECTED ON 12/19/04	
DEPTH TO WATER (TOC PVC):	32.36 feet
DEPTH TO WELL BOTTOM (TOC PVC):	49.50 feet
WATER COLUMN	17.14 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-01R

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER:	MW-02R	LOCATION: BP/Amoco Site #03033	DRILLER: BL Myers
PROJECT:	Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:		INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 35 feet



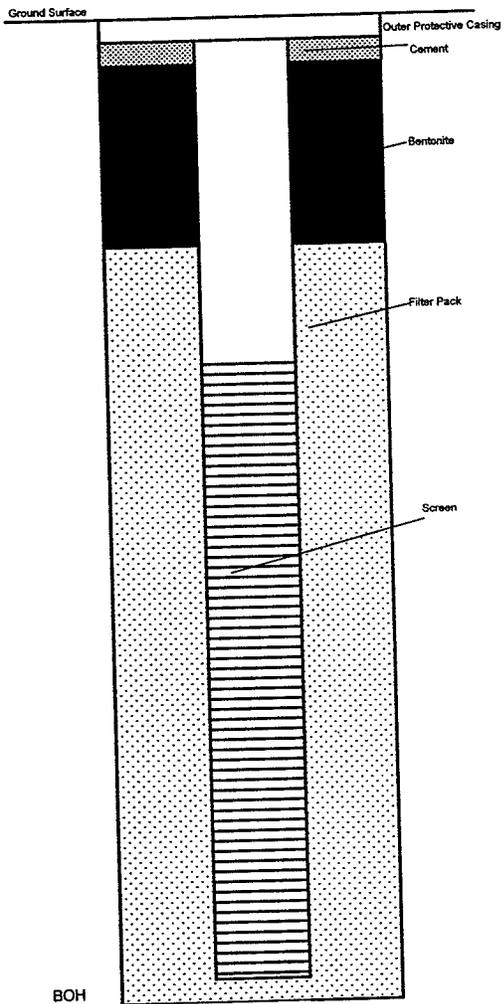
TOP OF RISER PIPE TO GROUND SURFACE:	6.00 inches
TYPE OF SURFACE SEAL:	Concrete
DEPTH OF SEAL:	1.00 feet
I.D. OF SURFACE CASING:	12.00 inches
TYPE OF SURFACE CASING:	Steel
I.D. OF RISER PIPE:	4.00 inches
TYPE OF RISER PIPE:	PVC
TYPE OF GROUT:	Portland Cement Grout
DEPTH TO TOP OF SEAL:	21.00 feet
TYPE OF SEAL:	Bentonite Pellet
DEPTH TO TOP OF FILTER PACK:	22.00 feet
TYPE OF FILTER PACK:	#2 Filter Sand
DEPTH TO TOP OF SCREEN:	25.00 feet
TYPE OF SCREEN:	PVC
SLOT SIZE AND LENGTH:	0.02
I.D. OF SCREEN:	4.00 inches
DEPTH TO BOTTOM OF SCREEN:	45.00 feet
BOREHOLE DIAMETER:	10.25 inches
BOTTOM OF HOLE:	45.00 feet
WELL DATA COLLECTED ON 12/19/04	
DEPTH TO WATER (TOC PVC):	30.51 feet
DEPTH TO WELL BOTTOM (TOC PVC):	44.62 feet
WATER COLUMN	14.11 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-02R

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER:	MW-03	LOCATION: BPI/Amoco Site #03033	DRILLER: BL Myers
PROJECT:	Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:		INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 35 feet



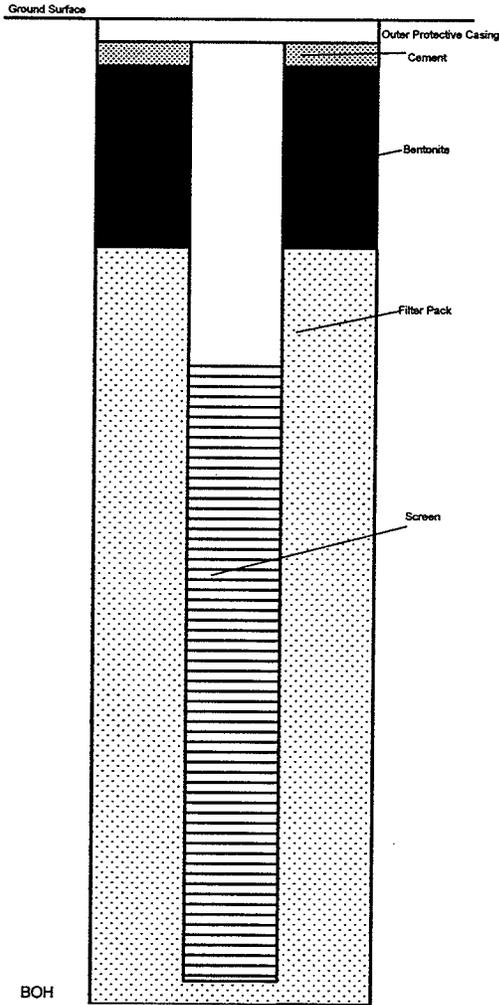
TOP OF RISER PIPE TO GROUND SURFACE:	6.00 inches
TYPE OF SURFACE SEAL:	Concrete
DEPTH OF SEAL:	1.00 feet
I.D. OF SURFACE CASING:	12.00 inches
TYPE OF SURFACE CASING:	Steel
I.D. OF RISER PIPE:	4.00 inches
TYPE OF RISER PIPE:	PVC
TYPE OF GROUT:	Portland Cement Grout
DEPTH TO TOP OF SEAL:	22.00 feet
TYPE OF SEAL:	Bentonite Pellet
DEPTH TO TOP OF FILTER PACK:	23.00 feet
TYPE OF FILTER PACK:	#2 Filter Sand
DEPTH TO TOP OF SCREEN:	26.00 feet
TYPE OF SCREEN:	PVC
SLOT SIZE AND LENGTH:	0.02
I.D. OF SCREEN:	4.00 inches
DEPTH TO BOTTOM OF SCREEN:	46.00 feet
BOREHOLE DIAMETER:	10.25 inches
BOTTOM OF HOLE:	46.00 feet
WELL DATA COLLECTED ON 12/19/04	
DEPTH TO WATER (TOC PVC):	31.42 feet
DEPTH TO WELL BOTTOM (TOC PVC):	45.57 feet
WATER COLUMN	14.15 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-03

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER:	MW-04	LOCATION: BP/Amoco Site #03033	DRILLER: BL Myers
PROJECT:	Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:		INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 32 feet



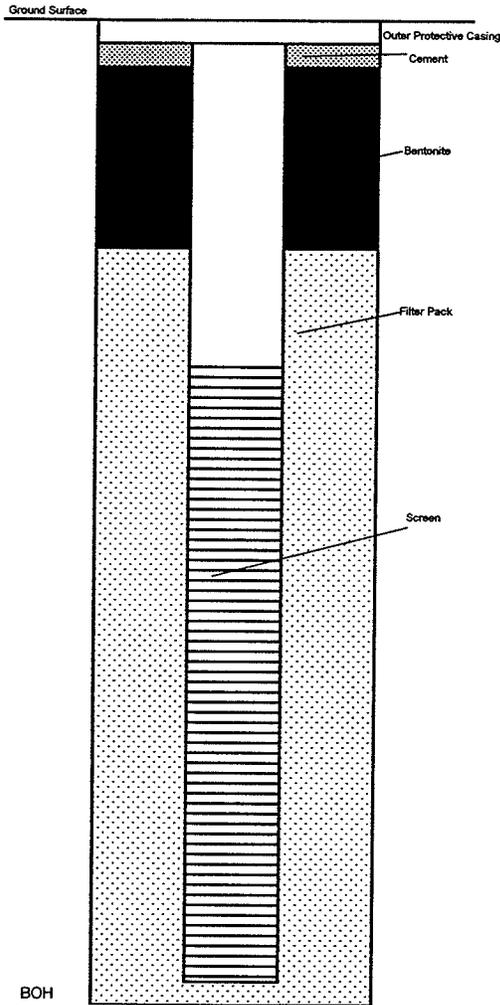
TOP OF RISER PIPE TO GROUND SURFACE:	6.00 inches
TYPE OF SURFACE SEAL:	Concrete
DEPTH OF SEAL:	1.00 feet
I.D. OF SURFACE CASING:	12.00 inches
TYPE OF SURFACE CASING:	Steel
I.D. OF RISER PIPE:	4.00 inches
TYPE OF RISER PIPE:	PVC
TYPE OF GROUT:	Portland Cement Grout
DEPTH TO TOP OF SEAL:	21.00 feet
TYPE OF SEAL:	Bentonite Pellet
DEPTH TO TOP OF FILTER PACK:	23.00 feet
TYPE OF FILTER PACK:	#2 Filter Sand
DEPTH TO TOP OF SCREEN:	25.00 feet
TYPE OF SCREEN:	PVC
SLOT SIZE AND LENGTH:	0.02
I.D. OF SCREEN:	4.00 inches
DEPTH TO BOTTOM OF SCREEN:	45.00 feet
BOREHOLE DIAMETER:	10.25 inches
BOTTOM OF HOLE:	45.00 feet
WELL DATA COLLECTED ON 12/19/04	
DEPTH TO WATER (TOC PVC):	31.24 feet
DEPTH TO WELL BOTTOM (TOC PVC):	44.19 feet
WATER COLUMN	12.95 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-04

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER: MW-05	LOCATION: BP/Amoco Site #03033	DRILLER: BL Myers
PROJECT: Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:	INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 35 feet



TOP OF RISER PIPE TO GROUND SURFACE: 6.00 inches

TYPE OF SURFACE SEAL: Concrete
 DEPTH OF SEAL: 1.00 feet

I.D. OF SURFACE CASING: 12.00 inches
 TYPE OF SURFACE CASING: Steel

I.D. OF RISER PIPE: 4.00 inches
 TYPE OF RISER PIPE: PVC

TYPE OF GROUT: Portland Cement Grout

DEPTH TO TOP OF SEAL: 21.00 feet
 TYPE OF SEAL: Bentonite Pellet

DEPTH TO TOP OF FILTER PACK: 22.00 feet
 TYPE OF FILTER PACK: #2 Filter Sand

DEPTH TO TOP OF SCREEN: 25.00 feet
 TYPE OF SCREEN: PVC
 SLOT SIZE AND LENGTH: 0.02
 I.D. OF SCREEN: 4.00 inches

DEPTH TO BOTTOM OF SCREEN: 45.00 feet
 BOREHOLE DIAMETER: 10.25 inches

BOTTOM OF HOLE: 45.00 feet

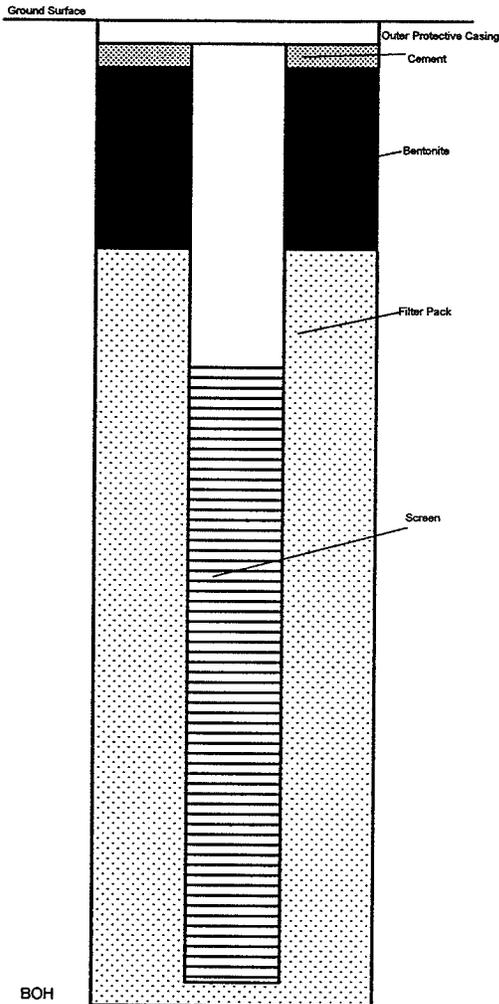
WELL DATA COLLECTED ON 12/19/04
 DEPTH TO WATER (TOC PVC): 32.75 feet
 DEPTH TO WELL BOTTOM (TOC PVC): 44.89 feet
 WATER COLUMN: 12.14 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-05

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER: MW-06	LOCATION: BP/Amoco Site #03033	DRILLER: BL Myers
PROJECT: Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:	INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 35 feet



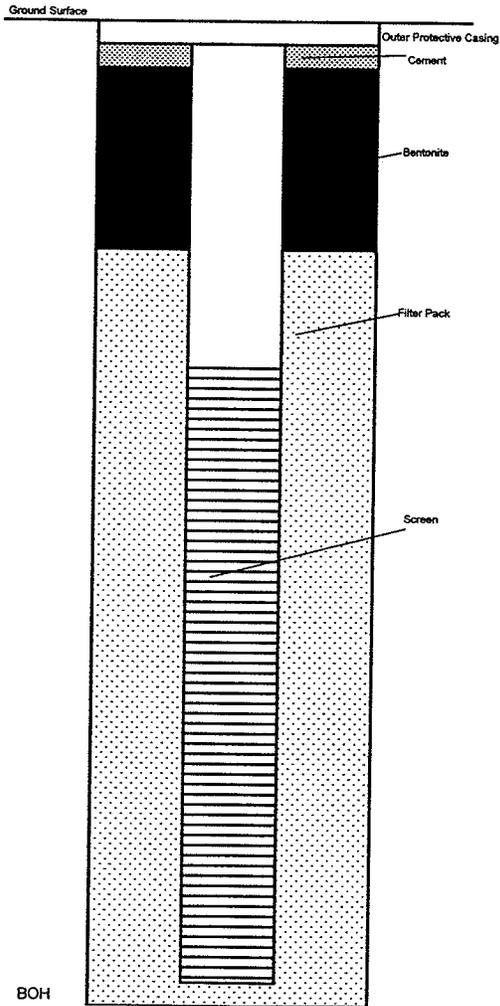
TOP OF RISER PIPE TO GROUND SURFACE:	6.00 inches
TYPE OF SURFACE SEAL:	Concrete
DEPTH OF SEAL:	1.00 feet
I.D. OF SURFACE CASING:	12.00 inches
TYPE OF SURFACE CASING:	Steel
I.D. OF RISER PIPE:	4.00 inches
TYPE OF RISER PIPE:	PVC
TYPE OF GROUT:	Portland Cement Grout
DEPTH TO TOP OF SEAL:	21.00 feet
TYPE OF SEAL:	Bentonite Pellet
DEPTH TO TOP OF FILTER PACK:	22.00 feet
TYPE OF FILTER PACK:	#2 Filter Sand
DEPTH TO TOP OF SCREEN:	25.00 feet
TYPE OF SCREEN:	PVC
SLOT SIZE AND LENGTH:	0.02
I.D. OF SCREEN:	4.00 inches
DEPTH TO BOTTOM OF SCREEN:	45.00 feet
BOREHOLE DIAMETER:	10.25 inches
BOTTOM OF HOLE:	45.00 feet
WELL DATA COLLECTED ON 12/19/04	
DEPTH TO WATER (TOC PVC):	31.41 feet
DEPTH TO WELL BOTTOM (TOC PVC):	44.51 feet
WATER COLUMN	13.10 feet

PROJECT:
Monitoring well installation

HOLE NO.:
MW-06

WELL CONSTRUCTION DIAGRAM

HOLE NUMBER: MW-07	LOCATION: BP/Amoco Site #03033	DRILLER: BL Myers
PROJECT: Monitoring well installation	14243 Jarrettsville Pike Phoenix, MD	DRILLING METHOD: Air Rotary
DATE WELL COMPLETED:	INSPECTOR: Russell Meyer	DEPTH TO GROUNDWATER (GW) 36 feet



TOP OF RISER PIPE TO GROUND SURFACE: 6.00 inches

TYPE OF SURFACE SEAL: Concrete
 DEPTH OF SEAL: 1.00 feet

I.D. OF SURFACE CASING: 12.00 inches
 TYPE OF SURFACE CASING: Steel

I.D. OF RISER PIPE: 4.00 inches
 TYPE OF RISER PIPE: PVC

TYPE OF GROUT: Portland Cement Grout

DEPTH TO TOP OF SEAL: 21.00 feet
 TYPE OF SEAL: Bentonite Pellet

DEPTH TO TOP OF FILTER PACK: 23.00 feet
 TYPE OF FILTER PACK: #2 Filter Sand

DEPTH TO TOP OF SCREEN: 25.00 feet
 TYPE OF SCREEN: PVC
 SLOT SIZE AND LENGTH: 0.02
 I.D. OF SCREEN: 4.00 inches

DEPTH TO BOTTOM OF SCREEN: 50.00 feet
 BOREHOLE DIAMETER: 10.25 inches

BOTTOM OF HOLE: 50.00 feet

WELL DATA COLLECTED ON 12/19/04
 DEPTH TO WATER (TOC PVC): 32.52 feet
 DEPTH TO WELL BOTTOM (TOC PVC): 49.05 feet
 WATER COLUMN: 16.53 feet

PROJECT: Monitoring well installation

HOLE NO.: MW-07

WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY
PLEASE TYPE

COUNTY NUMBER

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
BA-94-8573

ST/CO USE ONLY
DATE Received
MM DD YY
8 13

DATE WELL COMPLETED
MM DD YY
12 10 01

Depth of Well
22 50 26
(TO NEAREST FOOT)

OWNER BP Amoco
STREET OR RFD 14323 Jorrelville Place TOWN Jacksonville
SUBDIVISION _____ SECTION _____ LOT _____

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Asphaltic Gravel	0	1	
Brown soft weathered schist	1	30	
Brown weathered schist	30	36	
Grey schist	36	50	

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 5 NO. OF POUNDS 500
 GALLONS OF WATER 35
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 23 ft.
 (enter 0 if from surface)

CASING RECORD

case types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)
 PL 4 25
 60 61 63 64 66 70

OTHER CASING (if used)

E A C H C A S I N G	diameter		depth (feet)	
	inch	from	to	

SCREEN RECORD

screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)

E A C H S C R E E N	1		2		3	
	8	9	11	15	17	21
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2						
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GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) W Q
 70 72 74 75 76
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

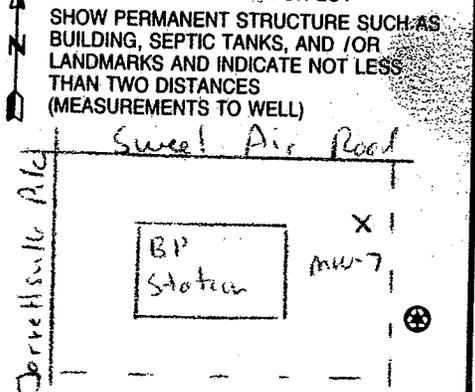
PUMPING TEST

HOURS PUMPED (nearest hour) NOT
 PUMPING RATE (gal. per min.) pumped
 METHOD USED TO MEASURE PUMPING RATE _____
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING _____ ft.
 WHEN PUMPING _____ ft.
 TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) _____
 PUMP HORSE POWER _____
 PUMP COLUMN LENGTH (nearest ft.) _____
 CASING HEIGHT (circle appropriate box and enter casing height)
 + above } LAND SURFACE
 - below } (nearest foot)

LOCATION OF WELL ON LOT



WELL COMPLETION REPORT
 FILL IN THIS FORM COMPLETELY
 PLEASE TYPE

45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER

1 2 3 6
 (THIS NUMBER IS TO BE PUNCHED
 IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY
 DATE Received
 MM DD YY
 8 13

DATE WELL COMPLETED

MM DD YY
 12 10 04

Depth of Well

22 45 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 BA-94-8574
 28 29 30 31 32 33 34 35 36 37

OWNER BP Amoco
 STREET OR RFD 14323 Jarrellville Pike TOWN Jacksonville
 SUBDIVISION _____ SECTION _____ LOT _____

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
 COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Asph. 11 Gravel	0	1	
Brown soft weathered schist	1	30	
Brown weathered schist	30	45	

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one) CEMENT BENTONITE CLAY
 NO. OF BAGS 5 NO. OF POUNDS 500
 GALLONS OF WATER 35
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 23 ft.
 (enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 4 Total depth of main casing (nearest foot) 25
 60 61 63 64 66 70

OTHER CASING (if used) diameter inch depth (feet) from to
 EACH CASING _____

screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)
 1 2 3
PL 25 45
 8 9 11 15 17 21
 23 24 26 30 32 36
 38 39 41 45 47 51
 SLOT SIZE 1 020 2 _____ 3 _____
 DIAMETER OF SCREEN 4 (NEAREST INCH)
 from _____ to _____

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68
23 45 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) W Q
 70 72 74 75 76
 TELESCOPE LOG OTHER DATA
 CASING INDICATOR

C 3

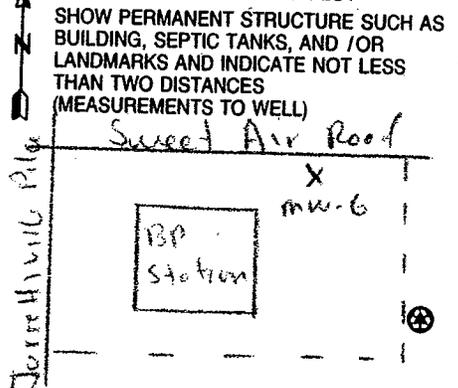
PUMPING TEST

HOURS PUMPED (nearest hour) NOT
 PUMPING RATE (gal. per min.) PUMPED
 METHOD USED TO MEASURE PUMPING RATE _____
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 17 ft. 20 ft.
 WHEN PUMPING 22 ft. 25 ft.
 TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. 29
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
 PUMP HORSE POWER 37 41
 PUMP COLUMN LENGTH (nearest ft.) 43 47
 CASING HEIGHT (circle appropriate box and enter casing height)
 + above } LAND SURFACE
 - below } 0 (nearest foot)
 49 50 51

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO

CIRCLE APPROPRIATE LETTER
 A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
 E ELECTRIC LOG OBTAINED
 P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD 421

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MWD 561

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C1 | 9237

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" BA-94-8575

OWNER: BP Amoco STREET OR RFD: 14343 Jarrett Hills Pike TOWN: Jacksonville SUBDIVISION: SECTION: LOT:

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes entries for Asphalt + Gravel, Brown soft weathered schist, and Brown weathered schist.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay) NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (PL, ST, CO, PL, OT) Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

screen type or open hole (ST, BR, HO, PL, OT) insert appropriate code below

C 2

DEPTH (nearest ft.)

Table for screen depth with columns: 1-5, 8-11, 15-17, 23-24, 26, 30-32, 36, 38-39, 41, 45-47, 51. Includes slot size and diameter of screen.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

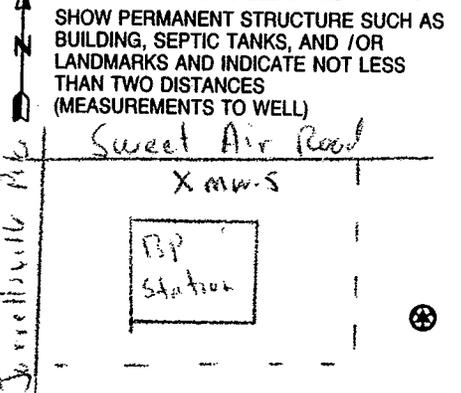
PUMPING TEST

HOURS PUMPED (nearest hour) NOT 8 9 PUMPING RATE (gal. per min.) Pumped 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 WHEN PUMPING 22 25 TYPE OF PUMP USED (for test) A air, P piston, T turbine, C centrifugal, R rotary, O other, J jet, S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above, - below LAND SURFACE (nearest foot) 50 51

LOCATION OF WELL ON LOT



C11 9235 (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

MM DD YY 12 8 04

22 46 26 (TO NEAREST FOOT)

BA-94-8577

OWNER BP Amoco STREET OR RFD 14343 Jarro Hsville Pkcs TOWN Jacksonville SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 5 NO. OF POUNDS 500

GALLONS OF WATER 35

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 24 ft. (enter 0 if from surface)

CASING RECORD

ST CO PL OT STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 4 Total depth of main casing (nearest foot) 26

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole insert appropriate code below ST BR HO PL OT STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Asphalt Gravel, Brown soft weathered schist, Brown weathered schist, Gray Schist.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) NOT

PUMPING RATE (gal. per min.) PUMPED

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE 0 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES Y NO N

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 MWD 421 DRILLERS SIGNATURE

LIC. NO. 1 MWD 561

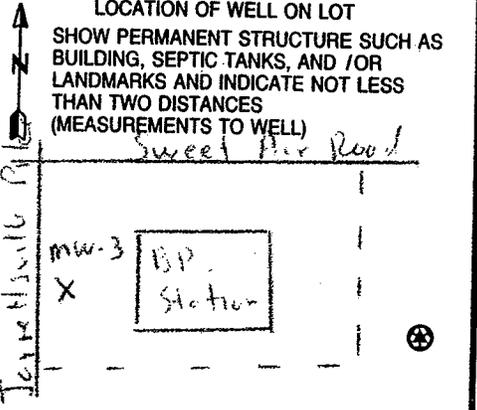
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Table with columns: DEPTH (nearest ft.), A, C, H, S, R, E, N. Rows include PL 26 46, 8 9 11 15 17 21, 23 24 26 30 32 36, 38 39 41 45 47 51, SLOT SIZE 1 2 3, DIAMETER OF SCREEN 4 (NEAREST INCH) 56 60

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 24 46

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA



C1 9234 (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY 8 13

DATE WELL COMPLETED MM DD YY 12 8 04 Depth of Well 22 45 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" PA-94-8579 28 29 30 31 32 33 34 35 36 37

OWNER B.P. Amico STREET OR RFD 14323 Jarrellsville Pike TOWN Jacksonville SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Asphalt & Gravel, Brown soft weathered schist, Brown weathered schist.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 5 NO. OF POUNDS 500 GALLONS OF WATER 35 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 18 ft.

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 4 Total depth of main casing (nearest foot) 20

OTHER CASING (if used)

Table with columns: EACH CASING, diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole (ST) (BR) (HO) (PL) (OT)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER (A) A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED (E) ELECTRIC LOG OBTAINED (P) TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MUD 421

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MUD 561

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Table with columns: C 2 DEPTH (nearest ft.), 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

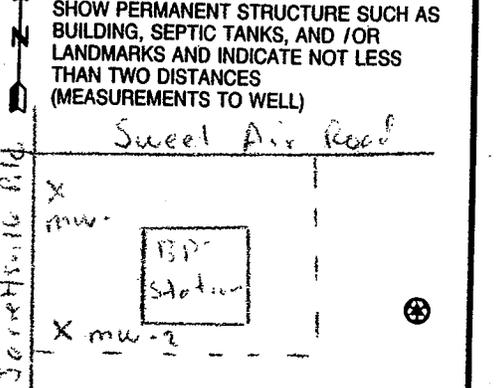
PUMPING TEST

HOURS PUMPED (nearest hour) NOT 8 9 PUMPING RATE (gal. per min.) PUMPED 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 ft. WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) (A) air (P) piston (T) turbine (C) centrifugal (R) rotary (O) other (describe below) (J) jet (S) submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES) (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) (+) above () below LAND SURFACE (nearest foot) 0 51

LOCATION OF WELL ON LOT



C1 9227

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE RECEIVED MM DD YY

12 8 04

22 50 26 (TO NEAREST FOOT)

BA-94-8580

OWNER R.P. Amico STREET OR RFD 14323 Jarrettsville TOWN Jacksonton SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (B) CEMENT BENTONITE CLAY NO. OF BAGS 5 NO. OF POUNDS 500 GALLONS OF WATER 35 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 23 ft.

C3

PUMPING TEST

HOURS PUMPED (nearest hour) NOT 8 9 PUMPING RATE (gal. per min.) PUMPED 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 ft. WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Asphalt & Gravel, Brown soft wetland schist, Brown wetland schist, Gray Schist.

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 4 Total depth of main casing (nearest foot) 25

Table for OTHER CASING (if used) with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole (ST) (BR) (HO) (PL) (OT)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. MWD 421 DRILLERS SIGNATURE

LIC. NO. MWD 561

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

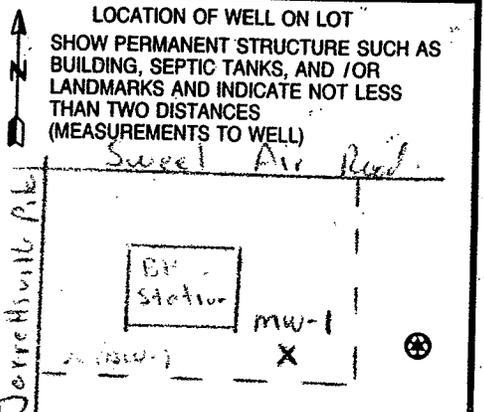
Table for C2 DEPTH (nearest ft.) with columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes SLOT SIZE 1 020 2 3 and DIAMETER OF SCREEN 4 (NEAREST INCH) from 23 to 50

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES) (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot) 50 51



Appendix F
Monitoring Well Abandonment Reports

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 12-9-04 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) unknown

* PERMIT NUMBER OF REPLACEMENT WELL BA - 94 - 8579

* PERSON ABANDONING WELL: Stephen Sacl

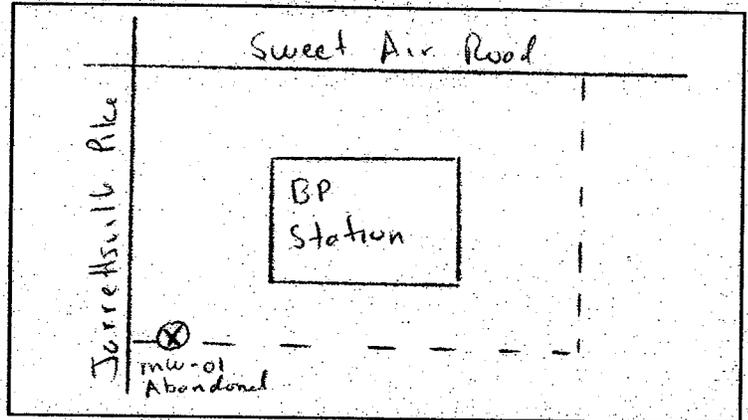
WELL DRILLERS LICENSE NUMBER: 421

CIRCLE: MWD/MSD/MGD

* OWNER'S NAME: BP Amoco

SITE LOCATION MAP

* WELL LOCATION:
 COUNTY: Baltimore County
 NEAREST TOWN: Jacksonville
 TAX MAP 35 BLOCK _____ PARCEL 217
 SUBDIVISION: _____
 SECTION: _____ LOT: _____
 NEAREST ROAD: 14323 Jarrettsville Pike



* TYPE OF WELL BEING ABANDONED:

- DRILLED JETTED
- BORED/AUGERED HAND DUG
- OTHER (specify) _____

* USE CODE:

- DOMESTIC MUNICIPAL/PUBLIC
- IRRIGATION INDUSTRIAL
- TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:

- STEEL PLASTIC
- CONCRETE OTHER (specify) _____

* SIZE OF CASING: 4 INCHES IN DIAMETER

* DEPTH OF WELL: 35 FEET DEEP

* WAS ANY CASING REMOVED? YES NO
 if yes, length removed, in feet: _____

* WAS CASING RIPPED OR PERFORATED? YES NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Cement Grout	0	30
Bentonite chips	30	35

VOLUME OF MATERIAL USED

200 lb Portland cement
 50 lb Bentonite chips

SIGNATURE-MASTER/WELL DRILLER/SUPERVISING SANITARIAN Stephen Sacl

LICENSE # 421

CIRCLE ONE MWD/MSD/MGD

DATE 12-21-04

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 12-9-04 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any): Unknown

* PERMIT NUMBER OF REPLACEMENT WELL: BA - 94 - 8580

* PERSON ABANDONING WELL: Stephen Saul

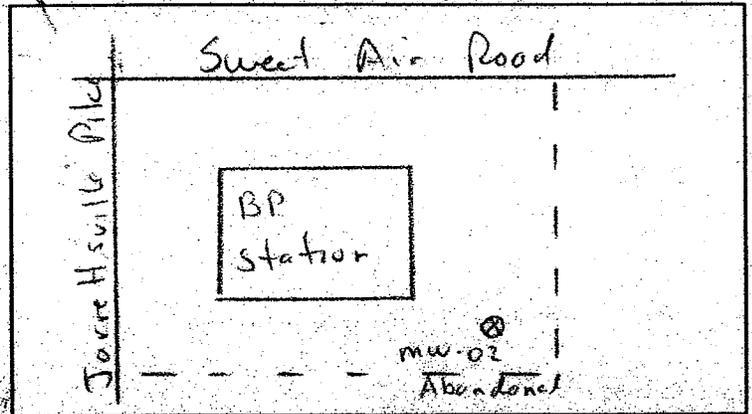
WELL DRILLERS LICENSE NUMBER: 421

CIRCLE: MWD/MSD/MGD

* OWNER'S NAME: BP Amoco

SITE LOCATION MAP

* WELL LOCATION:
 COUNTY: Baltimore County
 NEAREST TOWN: Jacksonville
 TAX MAP 35 BLOCK PARCEL 217
 SUBDIVISION: _____
 SECTION: _____ LOT: _____
 NEAREST ROAD: 14323 Jarre Hill Pike



* TYPE OF WELL BEING ABANDONED:

- DRILLED JETTED
- BORED/AUGERED HAND DUG
- OTHER (specify) _____

* USE CODE:

- DOMESTIC MUNICIPAL/PUBLIC
- IRRIGATION INDUSTRIAL
- TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:

- STEEL PLASTIC
- CONCRETE OTHER (specify) _____

* SIZE OF CASING: 4 INCHES IN DIAMETER

* DEPTH OF WELL: 35 FEET DEEP

* WAS ANY CASING REMOVED? YES NO
 if yes, length removed, in feet: _____

* WAS CASING RIPPED OR PERFORATED? YES NO

LOG OF SEALING MATERIAL

MATERIAL	* FEET	
	FROM	TO
Cement Grout	0	30
Bentonite Chips	30	35
VOLUME OF MATERIAL USED		
200 lb Portland Cement		
50 lb Bentonite Chips		

SIGNATURE: Stephen Saul MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE # 421

CIRCLE ONE MWD/MSD/MGD

DATE 12-21-04

Appendix G
Potable Water Well Re-Sampling Data



02/02/05

Technical Report for

BP Amoco Corporation

URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: N86769

Sampling Date: 12/17/04

Report to:

URS Corporation

Jenny_Raczko@urscorp.com

ATTN: Jenny Raczko

Total number of pages in report: 24



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

BP Amoco Corporation

Job No: N86769

URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
N86769-1	12/17/04	15:10	12/21/04	DW	Drinking Water Eff	03033-POT-EFF-14237
N86769-2	12/17/04	15:15	12/21/04	DW	Drinking Water Inf	03033-POT-INF-14237-1
N86769-3	12/17/04	15:30	12/21/04	DW	Drinking Water Inf	03033-POT-INF-14237D
N86769-4	12/17/04	16:00	12/21/04	DW	Drinking Water Eff	03033-POT-EFF
N86769-5	12/17/04	16:05	12/21/04	DW	Drinking Water	03033-POT-MID
N86769-6	12/17/04	16:10	12/21/04	DW	Drinking Water Eff	03033-POT-INF

Report of Analysis

Client Sample ID:	03033-POT-EFF-14237	Date Sampled:	12/17/04
Lab Sample ID:	N86769-1	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C7265.D	1	12/31/04	KNV	n/a	n/a	V1C255
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	0.18		0.50	0.098	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-EFF-14237	Date Sampled:	12/17/04
Lab Sample ID:	N86769-1	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.1		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%		72-115%
460-00-4	4-Bromofluorobenzene	108%		68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	03033-POT-INF-14237-1	
Lab Sample ID:	N86769-2	Date Sampled: 12/17/04
Matrix:	DW - Drinking Water Inf	Date Received: 12/21/04
Method:	EPA 524.2 REV 4.1	Percent Solids: n/a
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A07360.D	1	12/31/04	MFH	n/a	n/a	V3A294
Run #2 ^a	3A07395.D	1	01/03/05	MFH	n/a	n/a	V3A296

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF-14237-1	Date Sampled:	12/17/04
Lab Sample ID:	N86769-2	Date Received:	12/21/04
Matrix:	DW - Drinking Water Inf	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.5		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%	99%	72-115%
460-00-4	4-Bromofluorobenzene	95%	91%	68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF-14237-1	Date Sampled:	12/17/04
Lab Sample ID:	N86769-2	Date Received:	12/21/04
Matrix:	DW - Drinking Water Inf	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL RL	MDL	Units	Q
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(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF-14237D		
Lab Sample ID:	N86769-3	Date Sampled:	12/17/04
Matrix:	DW - Drinking Water Inf	Date Received:	12/21/04
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A07356.D	1	12/31/04	MFH	n/a	n/a	V3A294
Run #2 ^a	3A07396.D	1	01/03/05	MFH	n/a	n/a	V3A296

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	0.45		0.50	0.092	ug/l	J
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	19.7		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF-14237D	Date Sampled:	12/17/04
Lab Sample ID:	N86769-3	Date Received:	12/21/04
Matrix:	DW - Drinking Water Inf	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.40		0.50	0.080	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	0.17	1000	0.50	0.050	ug/l	J
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	110%	109%	72-115%
460-00-4	4-Bromofluorobenzene	92%	104%	68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

2.3
2

Client Sample ID: 03033-POT-INF-14237D	Date Sampled: 12/17/04
Lab Sample ID: N86769-3	Date Received: 12/21/04
Matrix: DW - Drinking Water Inf	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

VOA List

CAS No.	Compound	Result	MCL RL	MDL	Units	Q
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(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-EFF	Date Sampled:	12/17/04
Lab Sample ID:	N86769-4	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C7266.D	1	12/31/04	KNV	n/a	n/a	V1C255
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	03033-POT-EFF	Date Sampled:	12/17/04
Lab Sample ID:	N86769-4	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	111%		72-115%
460-00-4	4-Bromofluorobenzene	109%		68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-MID	Date Sampled:	12/17/04
Lab Sample ID:	N86769-5	Date Received:	12/21/04
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C7267.D	1	12/31/04	KNV	n/a	n/a	V1C255
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	03033-POT-MID	Date Sampled:	12/17/04
Lab Sample ID:	N86769-5	Date Received:	12/21/04
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.4		0.50	0.080	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	0.12		1.0	0.092	ug/l	J
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	0.12	10000	0.50	0.061	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	108%		72-115%
460-00-4	4-Bromofluorobenzene	104%		68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	Date Sampled:	12/17/04
Lab Sample ID:	N86769-6	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C7264.D	1	12/31/04	KNV	n/a	n/a	VIC255
Run #2	1C7268.D	10	12/31/04	KNV	n/a	n/a	VIC255

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	3.2	ug/l	
78-93-3	2-Butanone	ND		5.0	2.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.048	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.071	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.36	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.092	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.23	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.038	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.046	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.037	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.058	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.026	ug/l	
75-00-3	Chloroethane	ND		0.50	0.13	ug/l	
67-66-3	Chloroform	ND		0.50	0.098	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.039	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.031	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.057	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.073	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.30	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.072	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.090	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.15	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.064	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.12	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.15	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.36	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.11	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	Date Sampled:	12/17/04
Lab Sample ID:	N86769-6	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.046	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.025	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.046	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.15	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.17	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.028	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.12	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.049	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	215 ^a		5.0	0.80	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.44	ug/l	
91-20-3	Naphthalene	ND		0.50	0.033	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.051	ug/l	
100-42-5	Styrene	ND	100	0.50	0.032	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.060	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.076	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.096	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.11	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.023	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.041	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.44	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.050	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.19	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.16	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.092	ug/l	
95-47-6	o-Xylene	ND		0.50	0.061	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	111%	113%	72-115%
460-00-4	4-Bromofluorobenzene	108%	108%	68-118%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-POT-INF	Date Sampled:	12/17/04
Lab Sample ID:	N86769-6	Date Received:	12/21/04
Matrix:	DW - Drinking Water Eff	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA List

CAS No.	Compound	Result	MCL RL	MDL	Units	Q
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(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Chain of Custody Record

N86769

Page 1 of 1

Project Name BP
 BP BU/RM CO Portfolio: Mid Atlantic
 BP Laboratory Contract Number: _____

On-site Time: <u>1440</u>	Temp: <u>50°</u>
Off-site Time: <u>1630</u>	Temp: <u>500</u>
Sky Conditions: <u>clear</u>	
Meteorological Events: _____	
Wind Speed: _____	Direction: _____

Date: 12/17/2004

Requested Due Date (mm/dd/yy) 3 DAY TAT

Send To: <u>Sample Management</u>	BP/GEM Facility No.: <u>3055</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>Accutest Labs</u>	BP/GEM Facility Address: <u>14237 jarrettsville pike, phoenix md.</u>	Address: <u>200 Orchard Ridge Dr., #101</u>
Lab Address: <u>2235 Route 130, Bldg. B</u>	Site ID No. <u>md</u>	Gaithersburg, MD 20878
<u>Dayton, NJ 08810</u>	Site Lat/Long: _____	e-mail EDD: <u>kara_miller@urcorp.com</u>
Lab PM: <u>Diane Komar</u>	California Global ID #: _____	Consultant/Contractor Project No.: _____
Tele/Fax: <u>732-329-0200</u>	BP/GEM PM Contact: <u>Nick Onufrak</u>	Consultant Tele/Fax: <u>301-258-9780</u>
Report Type & QC Level: <u>Level 1</u>	Address: <u>200 Orchard Ridge Dr., #101</u>	Consultant/Contractor PM: <u>Eric Belling</u>
BP/GEM Account No.: _____	Gaithersburg, MD 20878	Invoice to: <u>Consultant or BP/GEM (Circle one)</u>
Lab Bottle Order No.: _____	Tele/Fax: <u>301-258-9780</u>	BP/GEM Work Release No.: _____

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives					Requested Analysis				Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	BTEX (8021)	MTBE	Naphthalene	TPH-GRO (3015)	TPH-DRO (3015)	
1	03033-pot-eff-14243	1510	x				-1	3										operating well
2	03033-pot-inf-14243	1515	x				-2	5										operating well
3	03033-pot-inf-14248-1	1530	x				-3	5										original well
4	03033-pot-eff-14257D	1600	x				-4	5										station
5	03033-pot-mid	1605	x				-5	5										station
6	03033-pot-inf	1610	x				-6	5										station
7																		
8																		
9																		

Sampler's Name: <u>Matt Ridley</u>	Relinquished By / Affiliation: _____	Date: _____	Time: _____	Accepted By / Affiliation: _____	Date: _____	Time: _____
Sampler's Company: <u>URS</u>	_____	_____	_____	_____	_____	_____
Shipment Date: <u>12/16/04</u>	_____	_____	_____	_____	_____	_____
Shipment Method: <u>Carrier</u>	_____	_____	_____	_____	_____	_____
Shipment Tracking No: <u>NA</u>	_____	_____	_____	_____	_____	_____
Special Instructions: <u>(*) each cont. includes</u>	<u>10 TEF BLANKS (no bp/ed)</u>					
For Lab Use Only: _____	_____					
Custody Seals In Place Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Blank Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Cooler Temperature on Receipt <input checked="" type="checkbox"/> °F/C	Trip Blank Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

WELL ID'S CHANGED → DIANE KOMAR (ACCUTEST) APPROVED BY: TONY APANAGALE (URS)

[Signature]
12/16/05



N86769

Chain of Custody Record

Project Name BP
 BP BU/RM CO Portfolio: Mid Atlantic
 BP Laboratory Contract Number: _____
 Requested Due Date (mm/dd/yy) 3 DAY TAT

On-site Time: <u>1440</u>	Temp: <u>50°</u>
Off-site Time: <u>1630</u>	Temp: <u>50°</u>
Sky Conditions: <u>clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Date: 12/17/2004

Send To: <u>Sample Management</u>	BP/GEM Facility No.: <u>3033</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>Accutest Labs</u>	BP/GEM Facility Address: <u>14237 jarrettsville pike, phoenix md.</u>	Address: <u>200 Orchard Ridge Dr., #101</u>
Lab Address: <u>2235 Route 130, Bldg. B</u>	Site ID No. <u>md</u>	<u>Gaithersburg, MD 20878</u>
<u>Dayton, NJ 08810</u>	Site Lat/Long:	e-mail EDD: <u>kara_miller@urscorp.com</u>
Lab PM: <u>Diane Komar</u>	California Global ID #:	Consultant/Contractor Project No.:
Tele/Fax: <u>732-329-0200</u>	BP/GEM PM Contact: <u>Nick Onufrak</u>	Consultant Tele/Fax: <u>301-258-9780</u>
Report Type & QC Level: <u>Level 1</u>	Address: <u>200 Orchard Ridge Dr., #101</u>	Consultant/Contractor PM: <u>Eric Belling</u>
BP/GEM Account No.:	<u>Gaithersburg, MD 20878</u>	Invoice to: <u>Consultant or BP/GEM (Circle one)</u>
Lab Bottle Order No.:	Tele/Fax: <u>301-258-9780</u>	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	BTEX (802.1)	MTBE	Naphthalene	TPH-GRO (9015)		TPH-DRO (9015)
1	* <u>14237</u> <u>14228</u> 03033-pot-eff- 14228	1510	x				<u>1</u>	<u>3</u>			x							operating well
2	03033-pot-eff- 14228	1515	x				<u>2</u>				x							operating well
3	03033-pot-eff- 14228	1530	x				<u>3</u>				x							original well
4	03033-pot-eff- 14228	1600	x				<u>4</u>				x							station
5	03033-pot-mid	1605	x				<u>5</u>				x							station
6	03033-pot-eff	1610	x				<u>6</u>				x							station
7																		
8																		
9																		

Sampler's Name: <u>Matt Ridley</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>12/17/04</u>	Time: <u>1100</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>12/17/04</u>	Time: <u>1605</u>
Sampler's Company: <u>URS</u>						
Shipment Date: <u>12/16/04</u>						
Shipment Method: <u>Carrier</u>						
Shipment Tracking No: <u>NA</u>						

Special Instructions: (*) actual count - station
 For Lab Use Only: * ALL SAMPLE IDs revised as per Ed Caspietti - DKrom 1/26/05
 Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 0 °F/C Trip Blank Yes No

NEW SAMPLE IDs
 #1 - 03033-pot-eff-14228, #2 - 03033-pot-eff-14228-1, #3 - 03033-pot-eff-14228-2, #4 - 03033-pot-eff-14228-3





ACCUTEST Job Change Order

N86769_1/26/2005

Requested Date: 1/26/2005 Received Date: 12/21/2004
 Account Name: BP Arnoco Corporation Due Date: 12/27/2004
 Project Description: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phn Deliverable: COMMB
 CSR: DK TAT (Days): 1

Sample #: N86769-1	Change: Revise sample ID from 03033-pot-eff-14243 TO - 03033-pot-eff-14228, collection time 15:10
03033-POT-EFF-14228	
Sample #: N86769-2	Change: Revise sample ID from 03033-pot-inf-14243 TO - 03033-pot-inf-14228-1, collection time 15:15
03033-POT-INF-14228-1	
Sample #: N86769-3	Change: Revise sample ID from 03033-pot-eff-14243-1 TO - 03033-pot-eff-14228-1, collection time 15:30
03033-POT-INF-14228-2	
Sample #: N86769-6	Change: Revise sample ID from 03033-pot-eff-14243 TO - 03033-pot-inf, collection time 16:10
03033-POT-INF	

Above Changes Per: Ed Carpinetti Date: 1/26/2005

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

N86769: Chain of Custody
 Page 3 of 5

Job Change Order

N86769_1/26/2005

Requested Date:	1/26/2005	Received Date:	12/21/2004
Account Name:	BP Amoco Corporation	Due Date:	12/27/2004
Project Description:	URSMDB: S/S 03033, 14243 Jarrettsville Pike,	Deliverable:	COMMB
CSR:	DK	TAT (Days):	1

Sample #: N86769-1 **Change:** Revice sample ID from 03033-pot-eff-14243 TO - 03033-pot-eff-14228, collection time 15:10

03033-POT-EFF-14228

Sample #: N86769-2 **Change:** Revice sample ID from 03033-pot-inf-14243 TO - 03033-pot-inf-14228-1 , collection time 15:15

03033-POT-INF-14228-1

Sample #: N86769-3 **Change:** Revice sample ID from 03033-pot-eff-14243-1 TO - 03033-pot-eff-14228-1, collection time 15:30

03033-POT-INF-14228-2

Sample #: N86769-6 **Change:** Revice sample ID from 03033-pot-eff-14243 TO - 03033-pot-inf, collection time 16:10

03033-POT-INF

Above Changes Per: Ed Carpinetti

Date: 1/26/2005

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

N86769: Chain of Custody

Page 4 of 5

Job Change Order

N86769_2/1/2005

3.1
3

Requested Date:	2/1/2005	Received Date:	12/21/2004
Account Name:	BP Amoco Corporation	Due Date:	12/27/2004
Project Description:	URSMDB: S/S 03033, 14243 Jarrettsville Pike,	Deliverable:	COMMB
CSR:	DK	TAT (Days):	1

Sample #: N86769-1 **Change:** Revise sample ID as per Tony Appanage to - 03033-pot-eff-14237 - reissue a revised report

03033-POT-EFF-14228

Sample #: N86769-2 **Change:** Revise sample ID to - 03033-pot-inf-14237 - reissue a revised report

03033-POT-INF-14228-1

Sample #: N86769-3 **Change:** Revise sample ID to - 03033-pot-inf-14237D - reissue a revised report

03033-POT-INF-14228-2

Above Changes Per: Tony Appanavage

Date: 2/1/2005

N86769: Chain of Custody

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

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Page 1 of 1

Appendix H
Laboratory Analytical Data Reports—Groundwater



01/11/05

Technical Report for

BP Amoco Corporation

URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD

Accutest Job Number: N87560

Sampling Date: 12/29/04

Report to:

URS Corporation

Jenny_Raczko@urscorp.com

ATTN: Jenny Raczko

Total number of pages in report: 33



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Sample Summary

BP Amoco Corporation

URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD

Job No: N87560

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
N87560-1	12/29/04	09:30 RM	01/04/05	AQ	Ground Water	03033-MW-01R
N87560-2	12/29/04	10:20 RM	01/04/05	AQ	Ground Water	03033-MW-02R
N87560-3	12/29/04	11:00 RM	01/04/05	AQ	Ground Water	03033-MW-03
N87560-4	12/29/04	11:50 RM	01/04/05	AQ	Ground Water	03033-MW-04
N87560-5	12/29/04	12:10 RM	01/04/05	AQ	Ground Water	03033-MW-05
N87560-6	12/29/04	12:55 RM	01/04/05	AQ	Ground Water	03033-MW-06
N87560-7	12/29/04	13:30 RM	01/04/05	AQ	Ground Water	03033-MW-07

Report of Analysis

Page 1 of 2

Client Sample ID:	03033-MW-01R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-1	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91586.D	1	01/07/05	ZLM	n/a	n/a	VA2873
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
1634-04-4	Methyl Tert Butyl Ether	133	1.0	0.28	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	6.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.16	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.57	ug/l	
79-34-5	1,1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-01R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-1	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-119%
17060-07-0	1,2-Dichloroethane-D4	107%		68-129%
2037-26-5	Toluene-D8	105%		83-118%
460-00-4	4-Bromofluorobenzene	101%		82-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-01R	Date Sampled: 12/29/04
Lab Sample ID: N87560-1	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8015	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27510.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	89%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-01R	Date Sampled: 12/29/04
Lab Sample ID: N87560-1	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015 SW846 3510C	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40399.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.10	0.051	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		43-132%		
16416-32-3	Tetracosane-d50	91%		41-138%		
438-22-2	5a-Androstane	84%		45-131%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-02R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-2	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91591.D	10	01/07/05	ZLM	n/a	n/a	VA2873
Run #2	A91552.D	100	01/06/05	ZLM	n/a	n/a	VA2871

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	23	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane	ND	10	1.1	ug/l	
75-25-2	Bromoform	ND	40	1.7	ug/l	
74-83-9	Bromomethane	ND	20	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	25	ug/l	
75-15-0	Carbon disulfide	ND	20	2.3	ug/l	
56-23-5	Carbon tetrachloride	ND	10	1.5	ug/l	
108-90-7	Chlorobenzene	ND	10	2.3	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	0.81	ug/l	
74-87-3	Chloromethane	ND	10	1.3	ug/l	
108-20-3	Di-Isopropyl ether	28.8	50	5.1	ug/l	J
124-48-1	Dibromochloromethane	ND	10	1.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	1.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	8.1	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	2.4	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	1.7	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	0.71	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	0.80	ug/l	
100-41-4	Ethylbenzene	ND	10	2.7	ug/l	
591-78-6	2-Hexanone	ND	50	7.3	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13000 ^a	100	28	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	5.9	ug/l	
75-09-2	Methylene chloride	ND	20	2.0	ug/l	
100-42-5	Styrene	ND	50	1.2	ug/l	
75-65-0	Tert Butyl Alcohol	5000	250	60	ug/l	
994-05-8	tert-Amyl Methyl Ether	178	50	1.6	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	50	5.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	1.4	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-02R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-2	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	10	3.7	ug/l	
108-88-3	Toluene	ND	10	1.4	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	1.7	ug/l	
79-01-6	Trichloroethene	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	10	6.6	ug/l	
1330-20-7	Xylene (total)	ND	10	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	79-119%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	68-129%
2037-26-5	Toluene-D8	105%	105%	83-118%
460-00-4	4-Bromofluorobenzene	101%	101%	82-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-02R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-2	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27511.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	18.1	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	91%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-02R	Date Sampled:	12/29/04
Lab Sample ID:	N87560-2	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015 SW846 3510C		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40400.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.270	0.10	0.051	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	84%		43-132%		
16416-32-3	Tetracosane-d50	84%		41-138%		
438-22-2	5a-Androstane	78%		45-131%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-03	Date Sampled:	12/29/04
Lab Sample ID:	N87560-3	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91592.D	2.5	01/07/05	ZLM	n/a	n/a	VA2873
Run #2	A91596.D	50	01/07/05	ZLM	n/a	n/a	VA2873

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.7	ug/l	
71-43-2	Benzene	ND	2.5	0.79	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.28	ug/l	
75-25-2	Bromoform	ND	10	0.43	ug/l	
74-83-9	Bromomethane	ND	5.0	0.37	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	6.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.57	ug/l	
56-23-5	Carbon tetrachloride	ND	2.5	0.39	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.58	ug/l	
75-00-3	Chloroethane	ND	2.5	1.8	ug/l	
67-66-3	Chloroform	ND	2.5	0.20	ug/l	
74-87-3	Chloromethane	ND	2.5	0.33	ug/l	
108-20-3	Di-Isopropyl ether	ND	13	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.45	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.33	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.86	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.5	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.61	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.42	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.18	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.20	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.67	ug/l	
591-78-6	2-Hexanone	ND	13	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4540 ^a	50	14	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	13	1.5	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.51	ug/l	
100-42-5	Styrene	ND	13	0.30	ug/l	
75-65-0	Tert Butyl Alcohol	151	63	15	ug/l	
994-05-8	tert-Amyl Methyl Ether	12.4	13	0.40	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1080 ^a	250	28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.34	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-03		Date Sampled: 12/29/04
Lab Sample ID: N87560-3		Date Received: 01/04/05
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	2.5	0.93	ug/l	
108-88-3	Toluene	ND	2.5	0.35	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.41	ug/l	
79-01-6	Trichloroethene	ND	2.5	0.34	ug/l	
75-01-4	Vinyl chloride	ND	2.5	1.7	ug/l	
1330-20-7	Xylene (total)	ND	2.5	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	79-119%
17060-07-0	1,2-Dichloroethane-D4	108%	105%	68-129%
2037-26-5	Toluene-D8	104%	104%	83-118%
460-00-4	4-Bromofluorobenzene	101%	102%	82-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-03	Date Sampled: 12/29/04
Lab Sample ID: N87560-3	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8015	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27512.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.38	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	93%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-03 Lab Sample ID: N87560-3 Matrix: AQ - Ground Water Method: SW846-8015 SW846 3510C Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	Date Sampled: 12/29/04 Date Received: 01/04/05 Percent Solids: n/a
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	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40401.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.471	0.10	0.051	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		43-132%		
16416-32-3	Tetracosane-d50	87%		41-138%		
438-22-2	5a-Androstane	82%		45-131%		

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL - Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
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Report of Analysis

Client Sample ID:	03033-MW-04	Date Sampled:	12/29/04
Lab Sample ID:	N87560-4	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91589.D	1	01/07/05	ZLM	n/a	n/a	VA2873
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	17.8	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	7.8	10	2.5	ug/l	J
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	2.1	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.5	1.0	0.28	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	6.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.16	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-04	Date Sampled: 12/29/04
Lab Sample ID: N87560-4	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	57.2	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-119%
17060-07-0	1,2-Dichloroethane-D4	108%		68-129%
2037-26-5	Toluene-D8	106%		83-118%
460-00-4	4-Bromofluorobenzene	104%		82-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-04	Date Sampled:	12/29/04
Lab Sample ID:	N87560-4	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27513.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.834	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	90%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-04	Date Sampled: 12/29/04
Lab Sample ID: N87560-4	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015 SW846 3510C	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40402.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.656	0.10	0.051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-132%
16416-32-3	Tetracosane-d50	86%		41-138%
438-22-2	5a-Androstane	77%		45-131%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-05	Date Sampled:	12/29/04
Lab Sample ID:	N87560-5	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91590.D	1	01/07/05	ZLM	n/a	n/a	VA2873
Run #2	A91595.D	10	01/07/05	ZLM	n/a	n/a	VA2873

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
1634-04-4	Methyl Tert Butyl Ether	971 ^a	10	2.8	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
75-65-0	Tert Butyl Alcohol	14.6	25	6.0	ug/l	J
994-05-8	tert-Amyl Methyl Ether	1.5	5.0	0.16	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	160	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-05	Date Sampled:	12/29/04
Lab Sample ID:	N87560-5	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	99%	79-119%
17060-07-0	1,2-Dichloroethane-D4	106%	105%	68-129%
2037-26-5	Toluene-D8	104%	104%	83-118%
460-00-4	4-Bromofluorobenzene	101%	102%	82-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-05		
Lab Sample ID:	N87560-5	Date Sampled:	12/29/04
Matrix:	AQ - Ground Water	Date Received:	01/04/05
Method:	SW846 8015	Percent Solids:	n/a
Project:	URSMDb: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27514.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	1.36	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	90%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-05 Lab Sample ID: N87560-5 Matrix: AQ - Ground Water Method: SW846-8015 SW846 3510C Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	Date Sampled: 12/29/04 Date Received: 01/04/05 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40403.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2.64	0.10	0.051	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		43-132%		
16416-32-3	Tetracosane-d50	89%		41-138%		
438-22-2	5a-Androstane	90%		45-131%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	03033-MW-06	Date Sampled:	12/29/04
Lab Sample ID:	N87560-6	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91587.D	1	01/07/05	ZLM	n/a	n/a	VA2873
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	0.42	2.0	0.23	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
1634-04-4	Methyl Tert Butyl Ether	52.4	1.0	0.28	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	6.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	0.51	5.0	0.16	ug/l	J
637-92-3	tert-Butyl Ethyl Ether	1.6	5.0	0.57	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	03033-MW-06	Date Sampled:	12/29/04
Lab Sample ID:	N87560-6	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-119%
17060-07-0	1,2-Dichloroethane-D4	108%		68-129%
2037-26-5	Toluene-D8	104%		83-118%
460-00-4	4-Bromofluorobenzene	102%		82-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-06	
Lab Sample ID:	N87560-6	Date Sampled: 12/29/04
Matrix:	AQ - Ground Water	Date Received: 01/04/05
Method:	SW846 8015	Percent Solids: n/a
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27520.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	88%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-07	Date Sampled:	12/29/04
Lab Sample ID:	N87560-7	Date Received:	01/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A91588.D	1	01/07/05	ZLM	n/a	n/a	VA2873
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	0.66	2.0	0.23	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.51	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.77	1.0	0.28	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	6.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.16	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	

ND = Not detected MDL - Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 03033-MW-07	Date Sampled: 12/29/04
Lab Sample ID: N87560-7	Date Received: 01/04/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-119%
17060-07-0	1,2-Dichloroethane-D4	108%		68-129%
2037-26-5	Toluene-D8	104%		83-118%
460-00-4	4-Bromofluorobenzene	101%		82-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-07		Date Sampled:	12/29/04
Lab Sample ID:	N87560-7		Date Received:	01/04/05
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	SW846 8015			
Project:	URSMDb: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM27521.D	1	01/05/05	ST	n/a	n/a	GLM1072
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.033	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	88%		53-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	03033-MW-07	
Lab Sample ID:	N87560-7	Date Sampled: 12/29/04
Matrix:	AQ - Ground Water	Date Received: 01/04/05
Method:	SW846-8015 SW846 3510C	Percent Solids: n/a
Project:	URSMDB: S/S 03033, 14243 Jarrettsville Pike, Phoenix, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ40405.D	1	01/06/05	DCA	01/05/05	OP19148	GYZ1132
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.289	0.10	0.051	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		43-132%		
16416-32-3	Tetracosane-d50	90%		41-138%		
438-22-2	5a-Androstane	84%		45-131%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SW

N87560

Chain of Custody Record

Project Name BP--#03033
 BP BU/RM CO Portfolio: Mid Atlantic
 BP Laboratory Contract Number: _____

On-site Time:	7 45	Temp:	35 F
Off-site Time:	14 30	Temp:	50 F
Sky Conditions:	Scattered Clouds		
Meteorological Events:	None		
Wind Speed:	20-25 MPH	Direction:	SW

Date: 12/29/2004 Requested Due Date (mm/dd/yy) APRIL 3 DAY TAT

Send To: Sample Management	BP/GEM Facility No.: #03033	Consultant/Contractor: URS
Lab Name: Accutest Labs	BP/GEM Facility Address: 14243 Jarrettsville Pike Phoenix, MD	Address: 200 Orchard Ridge Dr., #101 Gaithersburg, MD 20878
Lab Address: 2235 Route 130, Bldg. B Dayton, NJ 08810	Site ID No.	e-mail EDD: kara_miller@urscorp.com
Lab PM: Diane Komar	BP/GEM PM Contact: Nick Onufrak	Consultant/Contractor Project No.:
Tele/Fax: 732-329-0200	Address: 200 Orchard Ridge Dr., #101 Gaithersburg, MD 20878	Consultant Tele/Fax: 301-258-9780
Report Type & QC Level: Level 1	BP/GEM Account No.:	Consultant/Contractor PM: Ed Carpenetti
BP/GEM Account No.:	Tele/Fax: 301-258-9780	Invoice to: Consultant or BP/GEM (Circle one)
Lab Bottle Order No.:		BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives					Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Total VOC (8260)	MTBE	Oxy S	TPH-GRO (#015)	TPH-DRO (#015)		
1	03033-MW-01R	930	X				- 1	7					X	X	X	X	X		EX4, 2057
2	03033-MW-02R	1020	X				- 2	7					X	X	X	X	X		
3	03033-MW-03	1100	X				- 3	7					X	X	X	X	X		
4	03033-MW-04	1150	X				- 4	7					X	X	X	X	X		
5	03033-MW-05	1210	X				- 5	7					X	X	X	X	X		
6	03033-MW-06	1255	X				- 6	7					X	X	X	X	X		
7	03033-MW-07	1330	X				- 7	7					X	X	X	X	X		
8																			
9																			

Sampler's Name: Russell Meyer	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: URS		12-30-04	0900		12-29-04	0800
Shipment Date:		1-4-05	1130		1-4-05	1130
Shipment Method:		1-4-05	1600		1-4-05	1600
Shipment Tracking No.:						
Special Instructions: 3 DAY TAT	ALL SAMPLES RECEIVED PRESERVED AS APPLICABLE					
For Lab Use Only:						
Custody Seals In Place Yes ___ No ___	Temperature Blank Yes ___ No ___	Cooler Temperature on Receipt <input checked="" type="checkbox"/> F/C	Trip Blank Yes ___ No ___			

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