Apollo Technologies, Inc.
1850 South Cobb Industrial Boulevard SE
Smyrna, GA 30082

Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc.
HSI No. 10333

March 4, 2014

O'BRIEN & GERE

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QUALIFIED GROUNDWATER SCIENTIST CERTIFICATION

I certify that I am qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Maureen T. Hoke, P.E.
Vice President

Date: 3/4/2014
Registration No.: 32501
State: Georgia

1. INTRODUCTION

This Voluntary Investigation and Remediation Plan (VIRP) is being submitted to the Georgia Department of Natural Resources, Environmental Protection Division (EPD) on behalf of Apollo Technologies, Inc. (Apollo) to enroll the Apollo facility located in Smyrna, Georgia, in EPD's Voluntary Remediation Program (VRP). The facility is listed as Site No. 10333 on the Georgia Hazardous Site Inventory (HSI), and is currently undergoing corrective action under the Georgia Hazardous Site Response Act (HSRA). A VRP Application and Checklist are included in Appendix A.

1.1. SITE LOCATION AND DESCRIPTION

Apollo's Smyrna facility (The site) consists of six parcels located at the intersection of South Cobb Industrial Boulevard and Martin Court in Smyrna, Georgia. The following addresses are associated with the site/parcels: 1834, 1840, 1850, and 1860 South Cobb Industrial Boulevard, and 4830 Martin Court. The approximate location and general layout of the site are depicted on Figures 1 and 2, respectively. The site is owned by the Callas Family Partnership, L.P. (1850 South Cobb Industrial Boulevard) and AMC Ventures, Inc. (remaining addresses/parcels). A legal description and plat map for the site are included in Appendix B.

2. BACKGROUND

Apollo has operated on the site as a contract formulator and packager of aerosol products since the late 1970s. Apollo acquired the 1850 South Cobb Industrial Boulevard parcel in the late 1970s, and constructed an approximately 20,000 square foot (ft^2) production facility. The production facility was expanded to approximately 40,000 ft^2 in the mid 1980s. In the late 1990s, Apollo acquired the 4830 Martin Court parcel and constructed a warehouse near a pre-existing office building. Together, the pre-existing office building and the warehouse measure approximately 60,000 ft^2. The remaining parcels have been acquired by Apollo since the late 1990s. An equipment storage building, employee break building, and sales office/warehouse building occupy the 1834, 1840, and 1860 South Cobb Industrial Boulevard parcels, respectively.

A tank farm, used for storage of large quantities of production chemicals, is located adjacent to the production facility. Bulk liquid chemicals are delivered directly to the tank farm from tanker trucks. Smaller quantities of production chemicals are stored in containers of various sizes (totes, drums, etc.) in either the production facility or in the warehouse building.

During production, process chemicals are delivered from the tank farm and/or small quantity containers to a batch mixing room located in the production facility, via a permanent piping system. Once the mixing process has been completed, process chemicals are delivered to the various production lines throughout the production facility utilizing a combination of temporary and permanent piping. Once production is complete, finished products are stocked in the warehouse prior to being shipped offsite for distribution

As a result of historic operation of the production facility, incidental drips and spills of raw materials may have resulted in an impact to soil and groundwater on, and immediately down-gradient of the site. The original discovery of constituents of concern (COCs) on the site occurred after facility inspections conducted in June and July 1992 by the EPD's Municipal Permitting Program (MPP) and Cobb County representatives. During these inspections, water samples reportedly containing methylene chloride and chlorinated ethane constituents were collected, and hexane was noted to be leaking from a tank and was observed on water surfaces, in the vicinity of the tank farm secondary containment.

The facility was listed on the HSI in 1994 (Site No. 10333) as a result of environmental assessment activities conducted between 1992 and 1994. Investigation and corrective action activities have been ongoing at the site since the initial investigation conducted in 1992, and are discussed in Section 3.0, below.

3. SUMMARY OF PREVIOUS INVESTIGATIONS AND CORRECTIVE ACTIONS

Apollo has engaged various consultants to address onsite soil and groundwater impacts since the original discovery of COCs on the site in 1992. Due to the number of submittals and the duration of assessment and corrective action activities, the following chronological summary provides an overview of the assessment and corrective action activities conducted to date.

- June and July 1992 - Two inspections were conducted by EPD's MPP and Cobb County representatives. During these inspections water samples that had an "organic" odor were collected from a storm drain feature and from an area outside the tank farm's secondary containment structure. The water samples collected reportedly contained methylene chloride and chlorinated ethane constituents.
- July 1992 - EPD's MPP and Cobb County representatives returned to the site and conducted a third inspection. During this inspection, hexane was observed leaking from an above ground storage tank, as well as within and outside the tank farm's secondary containment structure.
- September 1992 - EPD issued a Consent Order requiring that items noted during the June/July 1992 inspections be addressed, to Apollo.
- December 1992 - EPD issued an Administrative Order resulting from the June/July 1992 inspections.
- February 1993 - EPD's MPP returned to the site and collected seven soil samples and ten surface water samples.
- March 1994 - Law Engineering and Environmental Services (LAW) conducted an investigation that included the installation of one groundwater monitoring well (MW-1) and six soil borings. Four of the six soil samples and the one groundwater sample collected contained volatile organic compounds (VOCs) in excess of the laboratory detection limits.
- May/June 1995 - Dobbs Environmental, Inc. (Dobbs) installed two groundwater monitoring wells (MW-2 and MW-3). Monitoring wells MW-1, MW-2, and MW-3 were used to evaluate groundwater flow direction at the site. Based on the estimated flow direction, Dobbs installed two groundwater recovery wells (RW-1 and RW-2) down gradient (south) of the tank farm and storm water catch basin.
- 1995 - Following the installation of groundwater recovery wells RW-1 and RW-2, Dobbs initiated corrective action, consisting of groundwater recovery and treatment using groundwater recovery wells RW-1, RW-2, and groundwater monitoring well MW-3. Groundwater recovery and treatment is currently ongoing. Treatment consists of air stripping for VOC removal, followed by discharge to the Cobb County sewer system. Emissions from the air stripper are treated by vapor phase carbon prior to discharge to the atmosphere.
- October 1997 - Dobbs installed bedrock groundwater monitoring well (DW-1) in the bedrock, between groundwater recovery wells RW-1 and RW-2.
- 1998 - Corrective action, consisting of soil vapor extraction (SVE), was initiated using six extraction wells in the tank farm area. Corrective action utilizing the SVE system is currently ongoing. Recovered vapors are routed through a carbon filter prior to atmospheric discharge.
- September 2004 - Groundwater monitoring well MW-4 was installed on the site, east of groundwater recovery well RW-1.
- 2005 - The groundwater recovery system was expanded to include bedrock groundwater monitoring well DW-1.
- September 2006 - Three groundwater monitoring wells (MW-5, MW-6, and MW-7) were installed to further characterize the groundwater plume. MW-5 was installed on the site east of MW-4. MW-6 was installed off site on the adjacent property to the south. MW-7 was installed on the site west-southwest of RW-2.
- May 2008 - EPD performed an inspection and identified three Areas of Concern (AOC): the former truck unloading area (FTUA), former container storage area (FCSA), and closed batch room sump (CBRS). Subsequently, EPD issued Administrative Order EPD-HW-1760, dated July 6, 2010, which included requirements to investigate the soils in each AOC.

- March 2010 - The groundwater recovery system was expanded to include groundwater monitoring well MW-4.
- 2011 - Two additional groundwater monitoring wells (MW-8 and MW-9) were installed to further characterize the groundwater plume. MW-8 was installed west of MW-7 and MW-9 was installed down gradient (south) of MW-5.
- June 2011 – Peachtree Environmental, Inc. (Peachtree) completed a soil investigation of the FTUA and FCSA that were previously identified as AOCs by EPD. A total of twenty-one soil samples were collected from eight soil borings. The results of the soil investigation were submitted to EPD in a Site Assessment Activities Summary Report, dated September 2011. Due to access limitations, the CBRS was not investigated.
- September and October 2012 - AMEC Environment & Infrastructure, Inc. (AMEC) installed five groundwater monitoring wells (MW-10, MW-11, MW-12, MW-13, and MW-15) during a Phase II Environmental Site Assessment (ESA). Groundwater monitoring wells MW-10, MW-11, and MW-12 were installed to characterize the western edge of the groundwater plume. MW-13 was installed to characterize the groundwater plume down gradient (south) of MW-7. MW-14 was proposed on an offsite location and was not installed. MW-15 was installed to characterize the groundwater plume along the southern property boundary north of MW-6. Additionally, seventy-nine soil samples were collected from twenty-seven soil borings to characterize the extent of impacted soil on the site.
- March 2013 – O'Brien & Gere Engineers, Inc. (O'Brien & Gere) completed a soil investigation in the CBRS. A total of seven soil samples were collected from eleven soil borings. The results of the soil investigation were summarized in a May 8, 2013, letter report.
- June 2013 – A Consolidated Site Assessment/Closure Report (CSACR) was prepared by O'Brien & Gere and submitted to EDP on Apollo's behalf in response to Administrative Order EPD-HW-1760. The CSACR consolidated and summarized previously completed soil investigations conducted by Peachtree, AMEC, and O'Brien & Gere in the FTUA, FCSA, and CBRS.
- October 2013 – EPD issued a comment letter, dated October 2, 2013, in response to the CSACR. On October 25, 2013, O'Brien & Gere completed an additional investigation, which consisted of collecting ten soil samples from three soil borings. The results of this investigation were summarized in a CSACR Amendment, dated November 15, 2013.
- December 2013 – EPD issued a letter withdrawing Administrative Order EPD-HW-1760.

4. RESULTS OF PREVIOUS INVESTIGATIONS

The following sections detail the known extent of contamination at the site based on the analytical results from the various investigations conducted to access soil, groundwater, and surface water at the site.

4.1. SOIL

As described above in Section 3.0, the results of soil investigations conducted by Peachtree, AMEC, and O'Brien & Gere were consolidated and submitted to EPD in the CSACR, dated June 2013, and subsequent Amendment to this report, dated November 15, 2013. The results of soil sampling are summarized on Table 1 and depicted on Figures 3 through 6.

A total of 123 soil samples have been collected from fifty-two soil borings during investigations conducted since 2011. Based on a review of the consolidated data from these investigations, the extent of soil impact has been delineated within the site boundary. Additionally, as depicted on Figures 3 and 6, the extent of soil impacted above applicable Relative Risk Reduction Standards (RRS) is limited to sub-slab soils in the vicinity of the batch room in the main production building.

4.2. OVERBURDEN GROUNDWATER

Semi-annual groundwater monitoring has been conducted at the site since 1995. The results of the most recent groundwater monitoring event, conducted in December 2013, are summarized in Table 2 and detailed in the December 2013 Semi-Annual Groundwater Monitoring Report submitted to EPD on January 24, 2014. The total VOC plume is depicted on Figure 7. The horizontal extent of COCs in the groundwater plume has been delineated in the overburden groundwater to the north, east, and west; however, it appears that the horizontal extent has not yet been fully defined to the south, as low levels of VOC constituents were detected in the southern most (down gradient) groundwater monitoring well, MW-6. Based on the laboratory analytical results from the December 2013 groundwater monitoring event, concentrations of seven VOC constituents: 1,1-dichloroethene, 1,2-dichloroethane, cis-1,2-dichloroethene, acetone, trichloroethene, tetrachloroethene, and vinyl chloride, exceed applicable RRS in at least one monitoring well installed in the in the overburden.

4.3. BEDROCK GROUNDWATER

One bedrock groundwater monitoring well (DW-1) is currently installed at the site. The results of the most recent groundwater monitoring event, conducted in December 2013, are summarized on Table 2. The groundwater analytical results reported for groundwater collected from bedrock groundwater monitoring well DW-1 appear to indicate that the extent of the contaminant plume in the bedrock groundwater has not yet been fully defined. However, it should be noted that bedrock groundwater monitoring well DW-1 is incorporated into the groundwater recovery system, and the active pumping of the groundwater recovery system may have drawn COCs from the overburden groundwater into the bedrock groundwater. Based on the laboratory analytical results from December 2013 groundwater monitoring event, concentrations of five VOC constituents: 1,2-dichloroethane, 1,1-dichloroethene, trichloroethene, tetrachloroethene, and vinyl chloride, exceed applicable RRS in bedrock groundwater.

4.4. SURFACE WATER

A stormwater channel runs along the western and southern site boundaries. The channel is approximately 3 feet wide and varies in depth from approximately 1 inch to as much as 1 foot. The channel originates from a buried pipe flowing from the north (up-gradient of site) to the south near the western site boundary. The channel bends to the east, near the southwestern site boundary, flowing into a buried pipe located in a wooded area along the southern site boundary. This stormwater channel is not depicted on the USGS topographic map (Figure 1).

VOCs have been detected in the stormwater channel during historic sampling events conducted since 2005. Two surface water samples were collected from the channel during the most recent groundwater monitoring event, conducted in December 2013, by O'Brien & Gere. Sample SW-1 was collected from the up-gradient portion of the channel following discharge from the buried pipe along the western site boundary. Sample SW-2 was collected from the down-gradient portion of the channel prior to the water entering the buried pipe along the

southern site boundary. Based on the laboratory analytical results, VOCs were detected at concentrations that exceed laboratory detection limits during the most recent groundwater monitoring event. The analytical results of the most recent groundwater monitoring event are summarized on Table 3.

5. CONSTITUENTS OF CONCERN

As noted in Sections 2.0 and 3.0, environmental assessment activities have been ongoing at the site since 1992. The tables below provide a summary of COCs and the media in which they have been detected at the site to date:

SOIL Constituent	Constituent	Constituent	Constituent
1,1,1-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2-dichloroethane (total)
acetone	cis-1,2-dichloroethene	cyclohexane	ethylbenzene
isopropylbenzene	m+p-xylenes	methyl acetate	methylcyclohexane
methylene chloride	o-xylene	tetrachloroethene	toluene
trichloroethene	xylenes (total)	bis(2-ethylhexyl)phthalate	
GROUNDWATER Constituent	**Constituent**	**Constituent**	**Constituent**
1,1,1-trichloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene
1,2,3-trimethylbenzene	1,2,4-trimethylbenzene	1,2-dichloroethane	1,2-dichloroethane
1,3,5-trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	1,4-dioxane
2-butanone	2-hexanone	4-methyl-2-pentanone	acetone
benzene	carbon disulfide	freon-113	chlorobenzene
chloroform	cis-1,2-dichloroethene	cyclohexane	p-isopropyltoluene
ethylbenzene	isopropylbenzene	methylcyclohexane	methylene chloride
tetrachlorethene	toluene	trans-1,2-dichloroethene	trichloroethene
vinyl chloride	m+p-xylenes	o-xylene	xylene (total)
SURFACE WATER Constituent	**Constituent**	**Constituent**	**Constituent**
1,1-dichloroethane	1,1-dichloroethene	cis-1,2-dichloroethene	acetone
tetrachlorethene	trichloroethene	vinyl chloride	

5.1. DELINEATION CRITERIA

Per Section 12-8-108 of the Georgia VRP Act, COCs in soil and groundwater will be delineated to default residential cleanup standards. Accordingly, the default residential use (Type 1 RRS) will be used as the delineation criteria. The Type 1 RRS for COCs detected in soil and groundwater are summarized on Table 4.

5.2. CLEANUP CRITERIA

The site, and immediately adjacent properties, are currently used for industrial purposes and planned future use of the site will continue to be industrial in nature. Based on this, non-residential RRS are appropriate. Accordingly, Apollo intends to remediate soil and groundwater to comply with the non-residential RRS (the greater of Type 3 and Type 4 RRS). O'Brien & Gere has calculated Type 3 and Type 4 RRS for the COCs referenced above. The Type 3 and 4 RRS were calculated in accordance with Rule 391-3-19.07 of the Hazardous Site Response Rules. Standard parameters and assumptions for use in calculating RRS were those provided in Table 3 of Appendix III of Rule 391-3-19. Input parameters, references for input parameters, and RRS calculations are provided in tables in Appendix C. Type 3 and Type 4 RRS for COCs are summarized on Table 4.

6. PRELIMINARY CONCEPTUAL SITE MODEL

A preliminary Conceptual Site Model (CSM) has been developed from a review of published literature and using data obtained from the reports of previous investigation activities. The preliminary CSM will be updated and refined, as additional information is collected. The preliminary CSM details the site's surface and subsurface conditions, known or suspected sources of contamination, potential contamination transport mechanisms, the known extent of contamination, and exposure pathways for potential receptors.

6.1. GEOLOGY

The site is located within the Southern Piedmont Geologic Region, and is mapped as being underlain by the Lithonia Gneiss, consisting of biotite-quartz-feldspar gneiss, quartz rich garnetiferous layers, and migmatitic biotite-muscovite, microcline-quartz gneiss. Residual soils present in this area have been formed by in-place chemical and physical weathering of the parent rock types. Weathering is facilitated by fractures, joints, and the presence of less resistant rock types. The typical soil profile in this geologic setting consists of clayey fine sandy silts near the ground surface, transitioning to silty sands that generally become harder with depth to the top of the parent rock. Based on borings advanced at the site, soils consist of clayey, sandy silts near the ground surface, transitioning to silty sands to the top of rock, which is consistent with the typical regional soil profile. Figures 8 through 10 depict cross sections of the subsurface conditions.

According to the portion of United States Geologic Survey (USGS) Topographic Map of Northwest Atlanta, Georgia, presented as Figure 1, the site slopes gently to the south and southeast, toward a drainage swale located southeast of the site that drains to an unnamed tributary of Nickajack Creek, located approximately 1 mile south of the site. Ground surface elevations over the site range from approximately 900 ft above mean sea level (msl) along the northern boundary of the site, to approximately 870 ft above msl at the southeastern corner of the site, with a steep embankment located between the northern and southern portions of the site.

6.2. GROUNDWATER FLOW

In the Piedmont Geologic Region, groundwater generally occurs under water table conditions, and is stored in the overlying mantle of residuum and in the structural features (i.e., joints, fractures, faults) present in the underlying rock. Recharge to the water table occurs primarily through precipitation infiltrating the upper soils and percolating downward, under the influence of gravity, to the groundwater table. Typically, the water table is not a level surface, but a subdued reflection of the land surface. Depth to the water table is variable, and is dependent on many factors, including, but not necessarily limited to: the amount of rainfall, the permeability of the soil, the extent of fracturing in the underlying rock, and the amount of groundwater being pumped in the area. Also, buildings, pavements, and other impervious or low permeability features, may locally restrict recharge to the underlying water table.

Groundwater potentiometric data and maps have been included in numerous previous submittals to EPD. The most recent potentiometric surface map from December 2013 (Figure 11) indicates that overburden groundwater elevations at the site generally decline towards the south-southeast in the overburden, which is consistent with previous monitoring events.

The site is situated on the southern flank of a topographic ridge that trends east to west and slopes generally toward the south and southeast. Thus, groundwater hydraulic gradient appears to generally mimic surface topography, and is oriented in a south-southeasterly direction across the site toward an unnamed tributary of Nickajack Creek, southeast of the site.

6.3. POTENTIAL RECEPTORS AND EXPOSURE PATHWAYS

6.3.1. Land Usage

According to information obtained from the Cobb County GIS Portal online, the property is currently zoned heavy industrial (HI). Properties designated HI are established for heavy industrial uses such as intensive automobile repair and service, heavy manufacturing, chemical manufacturing and storage, petroleum or petrochemical storage, warehousing and storage. The 2013 Cobb County Future Land Use Map depicts the property, and surrounding properties, in an area that has been designated as industrial compatible (IC). Areas

designated as IC can support light industrial, office/warehouse, and distribution uses. Typical land uses for these areas include professional parks and distribution centers. Based on the current zoning and planned future use information, it is reasonable to anticipate that land use at the site, and in the surrounding area, will remain industrial in nature for the foreseeable future.

6.3.2. Water Usage

Based on the information provided by Apollo, potable water is supplied to the site, and surrounding area, by the Cobb County Water System (CCWS). The CCWS withdraws water from the Chattahoochee River at a point located over 2 miles away and up-stream from where the Chattahoochee River meets Nickajack Creek.

The nearest drinking water well is reportedly located greater than 1 mile from the facility. A water well survey will be conducted as part of the proposed investigation plan, to confirm that there are not drinking water wells in the vicinity of the site.

6.3.3. Environmental Receptors

The site is located in a highly developed area and is surrounded by industrial and commercial property. The closest residential development is approximately 750 feet southeast of the assumed down gradient extent of the groundwater contamination plume. The residential area is likely to be hydraulically separated from the groundwater contamination plume by an unnamed tributary of Nickajack Creek, which is the anticipated groundwater discharge point.

Because of the industrially developed nature of the site and adjacent properties, recreational and ecological receptors have not been considered. Further, because the site is located in an industrial area and the contaminated groundwater plume is unlikely to extend beneath residentially developed areas, potential exposures would be limited to non-residential human receptors. Additionally, due to the lack of impacted surface soil on the site, potential exposure to trespassers is unlikely. Potential human receptors include on-site workers, utility workers, and construction workers.

Based on available information, it is unclear if an ecological habitat reconnaissance has been performed. Non-paved portions of the site and the unnamed stream may provide potential habitat for ecological receptors. At this time, ecological receptors have not been considered. However, if deemed necessary based on future information, ecological receptors may be included in the CSM, as it is refined.

6.3.4. Environmental Exposure Pathways

To be considered complete, an exposure pathway must have a contaminant source, a release/transport mechanism, an exposure medium, an exposure route, and a receptor. Based on a review of the available information the following has been defined:

<u>Contaminant Source</u>

- Drips and spills of chemicals

<u>Release/Transport Mechanism</u>

- Drips and spills caused chemicals to be released to soil on the site
- Potential leaching to groundwater
- Potential groundwater infiltration to surface water
- Potential volatilization to soil gas

<u>Exposure Medium</u>

- Subsurface soils
- Groundwater
- Surface water
- Air

Exposure Route

- Oral (ingestion)
- Dermal (absorption)
- Inhalation

Receptors

- On-site worker
- Utility worker
- Construction worker

Based on the current and likely future use of the site, the potentially complete exposure pathways include:

- Inhalation of chemicals volatized into soil gas (indoor air vapor intrusion) by on-site workers
  - Inhalation of chemicals, introduced by vapor intrusion, by onsite workers is not currently thought to present unacceptable exposure due to operation of the SVE system and building ventilation systems. However, vapor intrusion modeling will be conducted to further evaluate this potentially complete exposure pathway.
- Ingestion and absorption of subsurface soil by utility or construction worker
  - The extent of impacted soil is limited to sub-slab soils under the production facility. There is currently no contact with subsurface soil; therefore, ingestion and absorption of subsurface soil by utility or construction workers is not currently thought to present unacceptable exposure. Additionally, if utility or construction work is planned in areas of impacted soil, engineering controls can be put in place to avoid unacceptable exposure to construction workers.

No potentially complete exposure pathways associated with the stormwater channel were identified. Recent monitoring events have identified VOCs in the surface water. Conservatively, surface water in the stormwater channel may potentially be a point of exposure (POE) for groundwater at the site. Additionally, each of the established surface water monitoring points will be designated as a Point of Demonstration (POD) to evaluate the effectiveness of remedial activities and demonstrate protection of human health and the environment.

7. PROPOSED VOLUNTARY INVESTIGATION AND REMEDIATION PLAN

It is Apollo's objective to remove the site from the HSI by remediating contaminated media to comply with non-residential RRS. To meet this objective Apollo proposes to implement the investigation and remediation activities presented in the following sections. A phased approach to remediation is proposed so the remedial strategy can be refined prior to site wide implementation. This should allow for a more efficient and effective remedial program.

7.1. PROPOSED INVESTIGATION ACTIVITIES

7.1.1. Soil

As described in Section 4.1, based on a review of consolidated data from soil investigations conducted by Peachtree, AMEC, and O'Brien & Gere, the extent of soil impacted above the RRS is limited to sub-slab soils in the vicinity of the batch room in the main production facility. Due to access limitations and the difficulty of completing additional investigation activities within the production facility without serious disruption to operation of the facility, no additional soil investigations are proposed in this area at this time. However, Apollo may propose additional investigation in this area if deemed necessary by future performance monitoring, or if site conditions allow access to currently inaccessible areas of concern.

7.1.2. Overburden Groundwater Zone

The installation of up to three additional groundwater monitoring wells in the overburden is proposed. Prior to installation of the proposed wells, a membrane interface probe (MIP) investigation will be conducted to characterize the subsurface distribution of COCs. If the subsurface distribution warrants, the results of the MIP investigation will be used to locate the proposed groundwater monitoring wells. MIP investigation locations are proposed as depicted on Figure 12 and described below:

- The area north of MW-7 between MW-8 and RW-2
- The area between RW-1 and MW-4
- The area between MW-9 and MW-15

7.1.3. Bedrock Groundwater Zone

To further investigate the extent of groundwater plume in the bedrock aquifer, two bedrock groundwater monitoring wells are proposed. The locations of the proposed bedrock groundwater monitoring wells are depicted on Figure 12. These wells will be installed as double cased wells to isolate the impacted overburden groundwater zone from the bedrock groundwater zone. Groundwater analytical data from the two proposed bedrock wells will be used to assess whether the active pumping in DW-1 has drawn COCs from the overburden groundwater zone into the bedrock groundwater zone, and to evaluate the migration of the overburden groundwater plume in the bedrock groundwater zone. Additional bedrock wells may be proposed, as needed, to characterize the extent of contamination in the bedrock groundwater zone.

7.2. PROPOSED PRELMINARY REMEDIATION ACTIVITIES

7.2.1. Soil

Corrective action, consisting of SVE, has been on-going at the site since 1998. Apollo proposes continued operation of the existing SVE system. Additionally, the potential expansion of the SVE system with vertical and/or horizontal SVE wells in the subsurface beneath the existing production facility building will be investigated. If expansion of the SVE system proves practical, the approach will be refined and documented in the final remediation plan.

Because of the access limitation, large scale excavation of sub-slab soils is not reasonably practical. Also, due to the access limitations and the difficulty of completing remedial activities within the production facility without serious disruption to operation of the facility, traditional soil remediation techniques, including expansion of the SVE system and/or excavation, is likely not reasonably practical. If traditional remediation techniques prove to be impractical, Type 5 RRS could be implemented. Type 5 RRS allow, in instances where application of Type 1

through Type 4 RRS are not practical, the use of engineering controls to control COCs and the associated threats to human health and environment at the site.

7.2.2. Groundwater

Corrective action, consisting of groundwater recovery, has been on-going at the site since 1995. Apollo proposes continued operation of the existing groundwater recovery system. Further, Apollo proposes to evaluate the expansion of the groundwater recovery system to provide additional hydraulic control to limit migration of the groundwater plume. If expansion of the groundwater recovery system proves practical, the approach will be refined and documented in the final remediation plan.

Apollo also proposes the use of *in-situ* chemical oxidation (ISCO) to address high concentrations of COCs in the overburden groundwater zone. ISCO is typically considered a viable remedial technology for chlorinated VOCs and the documented COCs at the site typically respond favorably to ISCO. However, the effective implementation of ISCO is dependent on numerous site-specific conditions. Accordingly, we are proposing a phased approach consisting of initial pilot testing prior to full-scale implementation.

The pilot test will be implemented in an area up-gradient of groundwater monitoring wells MW-1 and MW-3. Prior to the pilot test, a MIP investigation will be conducted to characterize the subsurface distribution of COCs in the pilot test area. The pilot test would involve the injection of permanganate solution into the overburden using direct push technology (DPT). At each injection point, the permanganate solution would be applied to the subsurface coinciding with the impacted zone identified during the MIP investigation.

Once the pilot test is completed, it will be necessary to monitor subsurface conditions to document when the oxidant has dissipated and whether VOC concentrations respond to ISCO. Three forms of monitoring may occur. First, field monitoring of pH, dissolved oxygen (DO), ORP and groundwater color (for potassium permanganate) will be completed to document when the permanganate has dissipated. Second, groundwater samples will be periodically collected to evaluate whether groundwater VOC concentrations respond following the pilot test. These groundwater samples will also be analyzed for selected metals to evaluate whether the oxidant has mobilized metals in the groundwater. Third, subsurface soil samples may be collected to evaluate whether overburden VOC concentrations in soil have been sufficiently reduced by the oxidant injections.

If the results of the pilot test show ISCO is a viable solution for the site, they will be used to develop the plan for site-wide implementation of ISCO as corrective action for impacted groundwater. The details of the site-wide implementation of ISCO will be developed and documented in the final remediation plan. Alternatively, if ISCO is not a viable solution for the site, an addendum to this VIRP will be submitted to EPD, detailing an alternative remedial strategy to be investigated prior to submission of the final remedial plan.

7.3. FINAL REMEDIAL PLAN AND COST ESTIMATE SUBMITTAL

A final remedial plan for the site will be prepared and submitted for EPD approval, following the development of an appropriate site wide remedial strategy. The final remedial plan will include a cost estimate for implementation of the selected remedial strategy and associated continuing actions.

8. SCHEDULE AND CONTINUED MONITORING PLAN

The VRP specifically identifies four milestones (task and schedule for completion) that are required in each VIRP. These milestones are identified on the conceptual milestone schedule included in Appendix D. The conceptual milestone schedule will be regularly updated throughout implementation of the VIRP. A proposed schedule for the investigation and remedial activities detailed in this VIRP, assuming an approval date of April 7, 2014, is included in the table below:

Task	Start	Completion
Notice of VIRP Approval	April 7, 2014	April 7, 2014
Evaluation of SVE System	April 14, 2014	May 16, 2014
Supplemental Groundwater Investigation	April 21, 2014	June 6, 2014
ISCO Pilot Test	May 12, 2014	September 12, 2014
Semi-Annual Monitoring Event and Reporting[1]	June 9, 2014	July 28, 2014
Evaluation of Hydraulic Controls	June 23, 2014	August 25, 2014
First Progress Report	September 1, 2014	October 3, 2014

[1] Future monitoring reporting will be incorporated into semi-annual progress reports.

Upon acceptance into the VRP, Apollo will proceed with the investigation and remediation activities presented in this VIRP. A progress report, including an updated CSM, will be submitted within 6 months of acceptance into the VRP. Subsequent semi-annual progress reports will be submitted routinely for the duration of investigation and remediation activities under the VRP. On-going semi-annual groundwater monitoring required under HSRA will continue, and the associated reporting will be incorporated into future semi-annual progress reports under the VRP.

Each semi-annual monitoring event will include the following activities:

- Groundwater monitoring and recovery wells will be gauged.
- Surface water samples will be collected from the two designated sampling locations and submitted for laboratory analysis of VOCs using Method 8260B.
- Groundwater samples will be collected from select groundwater monitoring and recovery wells and submitted for laboratory analysis of VOCs using Method 8260B. The existing network consists of seventeen monitoring and recovery wells. However, Apollo recently requested permission to remove groundwater monitoring wells MW-2 and MW-5 from the sampling plan because historic data has shown an absence of contamination over an extended period. Additional wells may be recommended for removal from the sampling plan as additional data is obtained and evaluated.
- Remediation system performance monitoring (water and air sampling) will be conducted. During performance monitoring, water and air samples will be submitted for laboratory analysis of VOCs using Method 8260B and Method TO-18, respectively.

Each semi-annual progress report may include the following:

- Discussion of groundwater monitoring activities;
- Tabulated analytical data comparing detected concentrations to delineation and cleanup criteria;
- Potentiometric surface maps;
- Graphs depicting COC concentration trends;

- Discussion of remediation system operation;
- Discussion of investigation activities conducted under the VRP;
- Discussion of remedial activities conducted under the VRP;
- Updated CSM and discussion relative to its relationship to future investigation and remedial activities; and
- Schedule for continued VIRP implementation.

Following the completion of required groundwater monitoring, a VRP compliance status report will be submitted to EPD, certifying compliance with cleanup criteria and requesting delisting from the HSI.

9. PRELIMINARY COST ESTIMATE

The VRP allows for the submittal of a Final Cost Estimate once the investigation and remedial strategies have been finalized (up to 30 months after entering the program). The preliminary cost estimate provided in the table below includes the investigation and remedial activities detailed in this VIRP, as well as the cost associated with continuing actions, consisting of 5 years of semi-annual monitoring and progress reports:

Task	Estimated Cost
Evaluation of SVE System	$15,000
Supplemental Groundwater Investigation	$75,000
ISCO Pilot Test	$90,000
Semi-Annual Monitoring Event and Reporting[1]	$28,000
Evaluation of Hydraulic Controls	$20,000
1st Progress Report	$12,000
5 Years of Semi-Annual Monitoring and Progress Reports (9 events)	$360,000
Subtotal	$600,000
15% Contingency	$90,000
Total	**$690,000**

[1] Future monitoring reports will be incorporated into semi-annual progress reports.

The cost estimate will be updated throughout implementation of the VIRP. A final cost estimate will be submitted with the final remedial plan.

10. REPORT LIMITATIONS

The information presented in this report is based, in part, on the information derived from historic reports prepared by others, referenced herein, specifically with respect to background information, historical site conditions, and laboratory data. As O'Brien & Gere has relied on the data compiled by others for the purposes of this report, O'Brien & Gere does not guarantee the accuracy or validity of such information.

11. REFERENCES

- Revised Site Assessment Work Plan, prepared by Peachtree Environmental, Inc., dated May 2011.
- Site Assessment Activities Summary Report, prepared by Peachtree Environmental, Inc., dated September 2011.
- Semi-annual Groundwater Monitoring Report for the Apollo Industries Facility, prepared by Peachtree Environmental, Inc., dated December 2011.
- Report of Phase I Environmental Site Assessment, prepared by AMEC Environmental and Infrastructure, dated April 12, 2012.
- Report of Phase II Environmental Site Assessment, prepared by AMEC Environmental and Infrastructure, Dated November 2012.
- Final Limited Subsurface Investigation – Former Sump Area, Apollo Technologies, Inc. Facility – Smyrna, Georgia prepared by O'Brien & Gere, dated May 8, 2013.
- Consolidated Site Assessment/Closure Report – Smyrna, GA Facility, prepared by O'Brien & Gere, dated June 20, 2013.
- Consolidated Site Assessment/Closure Report Amendment, prepared by O'Brien & Gere, dated November 15, 2013.
- December 2013 Semi-Annual Groundwater Monitoring Report – Smyrna Facility, prepared by O'Brien & Gere, dated January 24, 2014

Tables

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

	Sample Location		FTUA-B1		FTUA-B2			FTUA-B3			
	Sample Depth (feet bgs)		0-2	5	0-2	5	10	0-2	5	10	15
	Sample Date		6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*								
1,1,1-Trichloroethane	20,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
1,1-Dichloroethane	400,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
1,1-Dichloroethene	700	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
1,2-Dichloroethene (Total)	500	µg/kg	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acetone	400,000	µg/kg	<83	<16	<12	<20	<19	<13	<15	**24**	<18
cis-1,2-Dichloroethene	7,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	**24**	<8.5	<8.8
Cyclohexane	20,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	**18**	<7.7	<8.5	<8.8
Ethylbenzene	70,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Isopropylbenzene (Cumene)	21,880	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
m+p-Xylenes	1,000,000	µg/kg	<8.3	<1.6	<1.2	<2.0	<1.9	<1.3	<1.5	<1.7	<1.8
Methyl acetate	NE	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Methylcyclohexane	NE	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Methylene chloride (Dichloromethane)	500	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
o-Xylene	1,000,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Tetrachloroethene (PCE)	500	µg/kg	<4.1	<8.1	<6.2	**24**	<9.7	<6.3	<7.7	<8.5	<8.8
Toluene	100,000	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Trichloroethene (TCE)	500	µg/kg	<4.1	<8.1	<6.2	<9.8	<9.7	<6.3	<7.7	<8.5	<8.8
Xylenes, Total	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

		Sample Location	FTUA-B4			CSA-B5		CSA-B6			CSA-B7	
		Sample Depth (feet bgs)	5	10	15	0-2	15	0-2	10	15	0-2	14
		Sample Date	6/25/2011	6/25/2011	6/25/2011	6/25/2011	6/25/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*									
1,1,1-Trichloroethane	20,000	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
1,1-Dichloroethane	400,000	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
1,1-Dichloroethene	700	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
1,2-Dichloroethene (Total)	500	µg/kg	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acetone	400,000	µg/kg	<12	<14	<17	<170	<140	<170	<200	<160	**190**	<160
cis-1,2-Dichloroethene	7,000	µg/kg	**58**	<7.1	<8.6	<8.4	<7.0	<8.4	**38**	<8.0	<8.4	<8.1
Cyclohexane	20,000	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Ethylbenzene	70,000	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Isopropylbenzene (Cumene)	21,880	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
m+p-Xylenes	1,000,000	µg/kg	<1.2	<1.4	<1.7	<17	<14	<17	<20	<16	<17	<16
Methyl acetate	NE	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Methylcyclohexane	NE	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Methylene chloride (Dichloromethane)	500	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
o-Xylene	1,000,000	µg/kg	<6.1	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Tetrachloroethene (PCE)	500	µg/kg	<6.1	**34**	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Toluene	100,000	µg/kg	**7.9**	<7.1	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Trichloroethene (TCE)	500	µg/kg	<6.1	**92**	<8.6	<8.4	<7.0	<8.4	<9.8	<8.0	<8.4	<8.1
Xylenes, Total	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
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Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

	Sample Location		CSA-B8			MW-12			S-1				
	Sample Depth (feet bgs)		0-2	5	10	2.5	12.5	17.5	1	6	11	17	21
	Sample Date		9/9/2011	9/9/2011	9/9/2011	10/3/2012	10/3/2012	10/3/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*										
1,1,1-Trichloroethane	20,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
1,1-Dichloroethane	400,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
1,1-Dichloroethene	700	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
1,2-Dichloroethene (Total)	500	µg/kg	NR	NR	NR	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
Acetone	400,000	µg/kg	<200	**160**	<140	< 110	< 100	< 110	**79,000**	< 12,000	< 54,000	**420 J**	< 49,000
cis-1,2-Dichloroethene	7,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
Cyclohexane	20,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
Ethylbenzene	70,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	**13,000**	**1,500**	**3,000**	**5.6**	**3,700**
Isopropylbenzene (Cumene)	21,880	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	**3,200**	< 4.6	< 2,400
m+p-Xylenes	1,000,000	µg/kg	<10	<14	<14	< 5.4	< 5.2	< 5.5	**60,000**	**9,300**	12,000	**27**	**15,000**
Methyl acetate	NE	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 1,900	< 590	< 2,700	< 4.6	< 2,400
Methylcyclohexane	NE	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	**3,500**	**3,700**	**4,500**	**8.4**	< 2,400
Methylene chloride (Dichloromethane)	500	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	< 7,500	< 2,400	< 11,000	< 18	< 9,800
o-Xylene	1,000,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	**22,000**	**8,700**	**5,900**	**14**	**5,400**
Tetrachloroethene (PCE)	500	µg/kg	**110**	**160**	<7.2	< 5.4	< 5.2	< 5.5	**190,000**	**160,000**	**110,000**	**130**	**68,000**
Toluene	100,000	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	**66,000**	**6,100**	**9,300**	**23**	**21,000**
Trichloroethene (TCE)	500	µg/kg	<10	<7.1	<7.2	< 5.4	< 5.2	< 5.5	**7,600**	**1,300**	< 2,700	**5.1**	**2,600**
Xylenes, Total	1,000,000	µg/kg	NR	NR	NR	< 5.4	< 5.2	< 5.5	**82,000**	**18,000**	**18,000**	**40**	**21,000**
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA	< 1,900	< 350	**820**	< 1,900	**1,400**

Notes:
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NR - Not Reported
NE - not established
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Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-2				S-3		S-4		S-5			
Sample Depth (feet bgs)			3	7	11	19	4	7	4	6	4	7.5	12.5	17.5
Sample Date			8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*											
1,1,1-Trichloroethane	20,000	µg/kg	**260 J**	< 4.3	**6.7**	**20**	< 2,200	< 2,300	**32,000**	**180,000**	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
1,1-Dichloroethane	400,000	µg/kg	**29**	< 4.3	< 4.8	< 5.0	< 2,200	< 2,300	< 2,500	< 1,700	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
1,1-Dichloroethene	700	µg/kg	< 4.9	< 4.3	< 4.8	< 5.0	< 2,200	< 2,300	< 2,500	**3700**	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
1,2-Dichloroethene (Total)	500	µg/kg	**370**	< 4.3	**19**	**37**	< 2,200	< 2,300	< 2,500	< 1,700	< 6.5 UJ	< 53 UJ	< 7.2	< 5.7
Acetone	400,000	µg/kg	**16,000**	< 86	< 96	< 99	**1,600,000**	**940,000**	**970,000**	**150,000**	150 J	< 110 UJ	< 140	< 110
cis-1,2-Dichloroethene	7,000	µg/kg	**370**	< 4.3	**19**	**37**	< 2,200	< 2,300	< 2,500	< 1,700	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
Cyclohexane	20,000	µg/kg	**81**	< 4.3	< 4.8	< 5.0	**17,000**	< 2,300	< 2,500	< 1,700	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
Ethylbenzene	70,000	µg/kg	**44**	< 4.3	< 4.8	< 5.0	**86,000**	**49,000**	< 2,500	**18,000**	< 6.5	< 5.3	< 7.2	< 5.7
Isopropylbenzene (Cumene)	21,880	µg/kg	< 4.9	< 4.3	< 4.8	< 5.0	**3,400**	**3,000**	< 2,500	**2,200**	< 6.5	< 5.3	< 7.2	< 5.7
m+p-Xylenes	1,000,000	µg/kg	**1,400**	< 4.3	< 4.8	**5.4**	**260,000**	**150,000**	**6,500**	**69,000**	< 6.5	< 5.3	< 7.2	< 5.7
Methyl acetate	NE	µg/kg	< 4.9	< 4.3	< 4.8	< 5.0	< 2,200	**10,000**	< 2,500	< 1,700	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
Methylcyclohexane	NE	µg/kg	**32**	< 4.3	< 4.8	< 5.0	**3,900**	**4,900**	< 2,500	**20,000**	< 6.5	< 5.3	< 7.2	< 5.7
Methylene chloride (Dichloromethane)	500	µg/kg	**42**	< 17	< 19	< 20	< 9,000	< 9,300	**24,000**	< 6,900	< 6.5 UJ	< 5.3 UJ	< 7.2	< 5.7
o-Xylene	1,000,000	µg/kg	**540**	< 4.3	< 4.8	< 5.0	**50,000**	**27,000**	**2,600**	**18,000**	< 6.5	< 5.3	< 7.2	< 5.7
Tetrachloroethene (PCE)	500	µg/kg	**2,400**	< 4.3	**11**	**38**	**310,000**	**370,000**	**40,000**	**270,000**	< 6.5	< 5.3	< 7.2	< 5.7
Toluene	100,000	µg/kg	**400**	< 4.3	< 4.8	**6.4**	**79,000**	**76,000**	**9,300**	**71,000**	< 6.5	< 5.3	< 7.2	< 5.7
Trichloroethene (TCE)	500	µg/kg	**1,000**	< 4.3	**25**	**57**	**180,000**	**190,000**	**54,000**	**230,000**	< 6.5	< 5.3	< 7.2	< 5.7
Xylenes, Total	1,000,000	µg/kg	**1,900**	< 4.3	< 4.8	**8.4**	**310,000**	**180,000**	**9,100**	**87,000**	< 6.5	< 5.3	< 7.2	< 5.7
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	< 360	< 360	< 370	< 370	< 9,800	< 8,900	< 18,000	< 17,000	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
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Data Flags:
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Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-6				S-7			S-8	S-9	S-10
Sample Depth (feet bgs)			4	7.5	12.5	17.5	2	8	13	3	2	2
Sample Date			9/28/2012	9/28/2012	9/28/2012	9/28/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*									
1,1,1-Trichloroethane	20,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	**78**	**25**	< 190	< 6.0	< 1,500	**6.4**
1,1-Dichloroethane	400,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	< 3.9	< 190	< 6.0	< 1,500	**19**
1,1-Dichloroethene	700	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	< 3.9	< 190	< 6.0	< 1,500	< 3.2
1,2-Dichloroethene (Total)	500	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	**17**	**7.2**	< 190	< 6.0	**5,400**	**65**
Acetone	400,000	µg/kg	< 120	< 100	< 130	< 140	**83**	< 77	< 3,700	< 120	< 30,000	< 63
cis-1,2-Dichloroethene	7,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	**17**	**7.2**	< 190	< 6.0	**5,400**	**65**
Cyclohexane	20,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	< 3.9	< 190	< 6.0	< 1,500	< 3.2
Ethylbenzene	70,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**10**	**320**	< 6.0	**1,900**	< 3.2
Isopropylbenzene (Cumene)	21,880	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	< 3.9	< 190	< 6.0	< 1,500	< 3.2
m+p-Xylenes	1,000,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**26**	**900**	< 6.0	**9,800**	**6.4**
Methyl acetate	NE	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	< 3.9	< 190	< 6.0	< 1,500	< 3.2
Methylcyclohexane	NE	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**15**	< 190	< 6.0	**2,700**	< 3.2
Methylene chloride (Dichloromethane)	500	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 23	< 15	< 750	< 24	< 6,000	< 13
o-Xylene	1,000,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**23**	**470**	< 6.0	**7,400**	**6.0**
Tetrachloroethene (PCE)	500	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	**210**	**2,300**	**4,700**	< 6.0	**53,000**	**6.1**
Toluene	100,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**59**	**270**	< 6.0	< 1,500	< 3.2
Trichloroethene (TCE)	500	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	**270 J**	**140**	< 190	< 6.0	**3,100**	**9.1**
Xylenes, Total	1,000,000	µg/kg	< 6.0	< 5.0	< 6.3	< 6.9	< 3.8	**49**	**1,400**	< 6.0	**17,000**	**12**
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	< 420	< 390	< 430	< 470	< 9,000	< 1,800	< 3,600	< 2,200	< 9,000	< 3,800

Notes:
RRS - The higher of the Type III and Type IV Non-Residential
Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-11					S-12		S-13	S-14
Sample Depth (feet bgs)			2	7	12	17	22	3	6	4	3
Sample Date			8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012	10/2/2012	10/2/2012	8/4/2012	10/2/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*								
1,1,1-Trichloroethane	20,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
1,1-Dichloroethane	400,000	µg/kg	< 3.2	< 3.4	< 3.1	**6.1**	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
1,1-Dichloroethene	700	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
1,2-Dichloroethene (Total)	500	µg/kg	< 3.2	< 3.4	< 3.1	**5.0**	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Acetone	400,000	µg/kg	< 64	< 68	< 62	< 67	< 67	< 100	< 64	< 74	< 66 UL
cis-1,2-Dichloroethene	7,000	µg/kg	< 3.2	< 3.4	< 3.1	**5.0**	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Cyclohexane	20,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Ethylbenzene	70,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Isopropylbenzene (Cumene)	21,880	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
m+p-Xylenes	1,000,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Methyl acetate	NE	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Methylcyclohexane	NE	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Methylene chloride (Dichloromethane)	500	µg/kg	< 13	< 14	< 12	< 13	< 13	< 5.1	< 3.2	< 15	< 3.3 UL
o-Xylene	1,000,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Tetrachloroethene (PCE)	500	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Toluene	100,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Trichloroethene (TCE)	500	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
Xylenes, Total	1,000,000	µg/kg	< 3.2	< 3.4	< 3.1	< 3.4	< 3.3	< 5.1	< 3.2	< 3.7	< 3.3 UL
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	< 360	< 360	< 370	< 370	< 380	< 360	< 370	< 350	< 340

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-15				S-16			
Sample Depth (feet bgs)			7.5	12.5	17.5	22.5	3	7.5	17.5	22.5
Sample Date			10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*							
1,1,1-Trichloroethane	20,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
1,1-Dichloroethane	400,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
1,1-Dichloroethene	700	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
1,2-Dichloroethene (Total)	500	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**56**	< 5.0	**7.2**
Acetone	400,000	µg/kg	< 87	< 83	< 110	< 110	< 89	< 92	< 100	< 110
cis-1,2-Dichloroethene	7,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**56**	< 5.0	**7.2**
Cyclohexane	20,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Ethylbenzene	70,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Isopropylbenzene (Cumene)	21,880	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
m+p-Xylenes	1,000,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Methyl acetate	NE	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Methylcyclohexane	NE	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Methylene chloride (Dichloromethane)	500	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
o-Xylene	1,000,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**5.8**	< 5.0	< 5.5
Tetrachloroethene (PCE)	500	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**15**	< 5.0	< 5.5
Toluene	100,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	< 4.6	< 5.0	< 5.5
Trichloroethene (TCE)	500	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**46**	< 5.0	< 5.5
Xylenes, Total	1,000,000	µg/kg	< 4.3	< 4.1	< 5.4	< 5.3	< 4.5	**5.8**	< 5.0	< 5.5
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	< 390	< 380	< 380	< 400	< 370	< 360	< 410	< 430

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

	Sample Location		S-17				S-18			
	Sample Depth (feet bgs)		4	7.5	12.5	17.5	2	7.5	12.5	17.5
	Sample Date		9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*							
1,1,1-Trichloroethane	20,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
1,1-Dichloroethane	400,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
1,1-Dichloroethene	700	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
1,2-Dichloroethene (Total)	500	µg/kg	< 5.0	< 5.7	< 6.1	**6.8**	< 2.4	< 6.8	< 5.2	< 5.9
Acetone	400,000	µg/kg	< 100	< 110	< 120	< 99	< 48	< 140	< 100	< 120
cis-1,2-Dichloroethene	7,000	µg/kg	< 5.0	< 5.7	< 6.1	**6.8**	< 2.4	< 6.8	< 5.2	< 5.9
Cyclohexane	20,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Ethylbenzene	70,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	**3.5**	< 6.8	< 5.2	< 5.9
Isopropylbenzene (Cumene)	21,880	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
m+p-Xylenes	1,000,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	**66**	< 6.8	< 5.2	< 5.9
Methyl acetate	NE	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Methylcyclohexane	NE	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Methylene chloride (Dichloromethane)	500	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
o-Xylene	1,000,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	**4.4**	< 6.8	< 5.2	< 5.9
Tetrachloroethene (PCE)	500	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Toluene	100,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Trichloroethene (TCE)	500	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	< 2.4	< 6.8	< 5.2	< 5.9
Xylenes, Total	1,000,000	µg/kg	< 5.0	< 5.7	< 6.1	< 4.9	**70.4**	< 6.8	< 5.2	< 5.9
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	< 380	< 410	< 430	< 440

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-19				S-20			
Sample Depth (feet bgs)			3	7.5	12.5	16	4	7.5	12.5	16
Sample Date			9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*							
1,1,1-Trichloroethane	20,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
1,1-Dichloroethane	400,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
1,1-Dichloroethene	700	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
1,2-Dichloroethene (Total)	500	µg/kg	**22**	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
Acetone	400,000	µg/kg	< 96	< 110	< 110	< 110 UJ	**150**	< 120	< 110	< 95
cis-1,2-Dichloroethene	7,000	µg/kg	**22**	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
Cyclohexane	20,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
Ethylbenzene	70,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Isopropylbenzene (Cumene)	21,880	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
m+p-Xylenes	1,000,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Methyl acetate	NE	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
Methylcyclohexane	NE	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Methylene chloride (Dichloromethane)	500	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5 UJ	< 4.3	< 5.9	< 5.7	< 4.8
o-Xylene	1,000,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Tetrachloroethene (PCE)	500	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	**13**	< 5.9	< 5.7	< 4.8
Toluene	100,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Trichloroethene (TCE)	500	µg/kg	**6.9**	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
Xylenes, Total	1,000,000	µg/kg	< 4.8	< 5.5	< 5.6	< 5.5	< 4.3	< 5.9	< 5.7	< 4.8
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	< 380	< 420	< 410	< 430	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

	Sample Location		S-21				S-22			
	Sample Depth (feet bgs)		6	8	12.5	17.5	5	7.5	12.5	17.5
	Sample Date		9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*							
1,1,1-Trichloroethane	20,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
1,1-Dichloroethane	400,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
1,1-Dichloroethene	700	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
1,2-Dichloroethene (Total)	500	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	**18**	< 6.5
Acetone	400,000	µg/kg	< 98	< 120	< 110	< 120	< 100	< 110	< 130	< 130
cis-1,2-Dichloroethene	7,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	**18**	< 6.5
Cyclohexane	20,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Ethylbenzene	70,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Isopropylbenzene (Cumene)	21,880	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
m+p-Xylenes	1,000,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Methyl acetate	NE	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Methylcyclohexane	NE	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Methylene chloride (Dichloromethane)	500	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
o-Xylene	1,000,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Tetrachloroethene (PCE)	500	µg/kg	**74**	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Toluene	100,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
Trichloroethene (TCE)	500	µg/kg	**5.0**	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	**8.5**	< 6.5
Xylenes, Total	1,000,000	µg/kg	< 4.9	< 6.0	< 5.3	< 6.0	< 5.0	< 5.6	< 6.6	< 6.5
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Sample Location			S-23				S-24	S-25	S-26	S-27	OB-2	OBG-5
Sample Depth (feet bgs)			3.5	7.5	12.5	17	3	2	3	3	0-3.5	3.5-7
Sample Date			10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	10/2/2012	3/23/2013	3/24/2013
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*									
1,1,1-Trichloroethane	20,000	µg/kg	< 4.1 UJ	< 4.1 UJ	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**320 J**	**26,000**
1,1-Dichloroethane	400,000	µg/kg	< 4.1 UJ	< 4.1 UJ	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<530	<11,000
1,1-Dichloroethene	700	µg/kg	**8.7 J**	**11 J**	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<530	<11,000
1,2-Dichloroethene (Total)	500	µg/kg	**11 J**	**20 J**	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	NR	NR
Acetone	400,000	µg/kg	< 83 UJ	< 82 UJ	< 120	< 88	< 92	< 85	< 110	< 97	**32,000**	**720,000**
cis-1,2-Dichloroethene	7,000	µg/kg	**11 J**	**20 J**	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<530	<11,000
Cyclohexane	20,000	µg/kg	< 4.1 UJ	< 4.1 UJ	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<1,100	<21,000
Ethylbenzene	70,000	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**280 J**	**12,000**
Isopropylbenzene (Cumene)	21,880	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<530	<11,000
m+p-Xylenes	1,000,000	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	NR	NR
Methyl acetate	NE	µg/kg	< 4.1 UJ	< 4.1 UJ	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<1,100	<21,000
Methylcyclohexane	NE	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	<1,100	**5,300 J**
Methylene chloride (Dichloromethane)	500	µg/kg	< 4.1 UJ	< 4.1 UJ	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 9.7	<530	<11,000
o-Xylene	1,000,000	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	NR	NR
Tetrachloroethene (PCE)	500	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**8,200**	**220,000**
Toluene	100,000	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**2,100**	**43,000**
Trichloroethene (TCE)	500	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**7,100**	**110,000**
Xylenes, Total	1,000,000	µg/kg	< 4.1	< 4.1	< 6.1	< 4.4	< 4.6	< 4.2	< 5.3	< 4.9	**1,500**	**55,000**
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	< 340	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
** - RRS is associated with soils from the ground surface to 2 feet bgs
Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

		Sample Location	OBG-7	OBG-9	OBG-9	OBG-12		OBG-13
		Sample Depth (feet bgs)	0-2	0-2	2-4	0-2	5	0-3.5
		Sample Date	3/25/2013	3/26/2013	3/27/2013	10/25/2013	10/25/2013	10/25/2013
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*					
1,1,1-Trichloroethane	20,000	µg/kg	**4,300 J**	**23,000 J**	**510,000**	<47,000	<64,000	<25,000
1,1-Dichloroethane	400,000	µg/kg	<11,000	<260,000	<100,000	<47,000	<64,000	<25,000
1,1-Dichloroethene	700	µg/kg	<11,000	<260,000	<100,000	<47,000	<64,000	<25,000
1,2-Dichloroethene (Total)	500	µg/kg	NR	NR	NR	NR	NR	NR
Acetone	400,000	µg/kg	**1,000,000**	**1,600,000 J**	**610,000 J**	**1,000,000**	**3,700,000**	**3,200,000**
cis-1,2-Dichloroethene	7,000	µg/kg	<11,000	<260,000	<100,000	<47,000	<64,000	<25,000
Cyclohexane	20,000	µg/kg	<22,000	<530,000	<210,000	<93,000	<130,000	**9,800 J**
Ethylbenzene	70,000	µg/kg	**4,000 J**	<260,000	<100,000	**45,000 J**	**66,000**	**46,000**
Isopropylbenzene (Cumene)	21,880	µg/kg	<11,000	<260,000	<100,000	<47,000	<64,000	<25,000
m+p-Xylenes	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR
Methyl acetate	NE	µg/kg	<22,000	<530,000	<210,000	<93,000	<130,000	<50,000
Methylcyclohexane	NE	µg/kg	<22,000	<530,000	<210,000	<93,000	<130,000	<50,000
Methylene chloride (Dichloromethane)	500	µg/kg	<11,000	**120,000 J**	<100,000	<47,000	<64,000	<25,000
o-Xylene	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR
Tetrachloroethene (PCE)	500	µg/kg	**52,000**	**5,500,000**	**2,400,000**	**1,100,000**	**1,700,000**	**270,000**
Toluene	100,000	µg/kg	**7,600 J**	**290,000**	**88,000 J**	**66,000**	**90,000**	**76,000**
Trichloroethene (TCE)	500	µg/kg	**39,000**	**4,200,000**	**1,100,000**	**210,000**	**310,000**	**140,000**
Xylenes, Total	1,000,000	µg/kg	**19,000**	<530,000	<210,000	**190,000**	**300,000**	**180,000**
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
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Data Flags:
< -less than reporting limit
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BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
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Table 1 - Summary of Soil Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

		Sample Location	OBG-14						
		Sample Depth (feet bgs)	0-4	5	10	15	20	27	30
		Sample Date	10/25/2013	10/25/2013	10/25/2013	10/25/2013	10/25/2013	10/25/2013	10/25/2013
Chemical Name	RRS	Unit	*Volatile Organic compounds (VOCs) per EPA Method 8260B*						
1,1,1-Trichloroethane	20,000	µg/kg	<190	<450	<5.0	<5.0	<5.2	<210	**2.9 J**
1,1-Dichloroethane	400,000	µg/kg	<190	<450	<5.0	<5.0	<5.2	<210	**1.4 J**
1,1-Dichloroethene	700	µg/kg	<190	<450	<5.0	<5.0	<5.2	<210	**1.7 J**
1,2-Dichloroethene (Total)	500	µg/kg	NR	NR	NR	NR	NR	NR	NR
Acetone	400,000	µg/kg	<1,900	<4500	**33 J**	**21 J**	<52	<2,100	**32 J**
cis-1,2-Dichloroethene	7,000	µg/kg	<190	<450	<5.0	<5.0	**2.0**	**86 J**	**48**
Cyclohexane	20,000	µg/kg	**3,200**	**11,000**	<9.9	<9.9	<10	<420	<9.1
Ethylbenzene	70,000	µg/kg	**420**	**1,300**	<5.0	<5.0	<5.2	<210	<4.6
Isopropylbenzene (Cumene)	21,880	µg/kg	**76 J**	**240 J**	<5.0	<5.0	<5.2	<210	<4.6
m+p-Xylenes	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR	NR
Methyl acetate	NE	µg/kg	<370	<910	<9.9	<9.9	<10	<420	<9.1
Methylcyclohexane	NE	µg/kg	**1,800**	**8,200**	<9.9	<9.9	<10	<420	<9.1
Methylene chloride (Dichloromethane)	500	µg/kg	<190	<450	<5.0	<5.0	<5.2	<210	<4.6
o-Xylene	1,000,000	µg/kg	NR	NR	NR	NR	NR	NR	NR
Tetrachloroethene (PCE)	500	µg/kg	<190	<450	<5.0	<5.0	<5.2	**370**	**22**
Toluene	100,000	µg/kg	<190	<450	<5.0	<5.0	<5.2	<210	<4.6
Trichloroethene (TCE)	500	µg/kg	<190	<450	<5.0	<5.0	<5.2	**83 J**	**41**
Xylenes, Total	1,000,000	µg/kg	**2,100**	**6,500**	<9.9	<9.9	<10	<420	<9.1
bis(2-Ethylhexyl)phthalate	50,000	µg/kg	NA	NA	NA	NA	NA	NA	NA

Notes:
RRS - The higher of the Type III and Type IV Non-Residential Risk Reduction Standards
µg/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
NA - Not Analyzed
NR - Not Reported
NE - not established
bgs - below ground surfce
* - RRS is associated with soils greater than 2 feet bgs
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Data Flags:
< -less than reporting limit
BOLD - greater than reporting limit
BOLD and Highlighted - Exceeds the Applicable Regulatory Standard
J - detected, estimated value
JH - detected, estimated value biased high

Table 2 - Summary of Groundwater Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)																																		
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Disulfide	Chlorinated Fluorocarbon (freon 113)	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Cyclohexane	Cymene (p-isopropyltoluene)	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (m,p)	o-Xylene	Xylene (total)
Applicable Regulatory Standards (ug/L)		13600	5	4000	524	NE	NE	5	NE	NE	600	75	10.4	11800	NE	4230	45600	8.7	4000	1000000	140	30000	80	200	17500	NE	700	1050	NE	454	98	5240	161	5	3	10000	10000	10000
MW-1	7/13/1995	**140,000**	< 500	**1,690**	**53,816**	-	-	**1,690**	-	-	**500**	**500**	-	-	-	< 500	**95,204**	< 500	< 500	-	< 500	< 500	**67 E**	-	-	-	**78.5 E**	< 500	-	**141,054**	**16,293**	**6,752**	-	< 5	< 500	**696 T**	**696 T**	-
	3/22/1996	**200,000**	-	**4,500**	**13,000**	-	-	-	-	-	< 50	< 50	-	-	-	-	**55,000**	**6 J**	< 50	-	-	**260**	**15**	-	-	-	-	-	-	**160,000**	**2,300**	**39,000**	-	**17**	-	-	-	-
	8/15/1997	**500,000**	< 25,000	< 25,000	**390,000**	-	-	< 5	-	-	< 25,000	< 25,000	-	-	-	< 50,000	< 500,000	< 25,000	< 25,000	-	< 25,000	< 5	< 5	-	-	-	< 25,000	< 25,000	-	**390,000**	< 25,000	**48,000**	-	< 5	< 5	< 25000T	< 25000T	-
	11/27/2000	**64,000**	-	**1,900**	**7,600**	-	-	< 5	-	-	-	-	-	-	-	-	**8,100**	-	-	-	-	**11**	< 5	-	-	-	-	-	-	**29,000**	**1,100**	**29,000**	-	**410**	< 5	-	-	-
	7/20/2001	**74,000**	< 5	**1,100**	**6,700**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	**7.3**	-	< 5	< 5	< 5	-	-	-	**23**	-	-	**8,300**	**1,100**	**22,000**	-	**940**	< 5	**95 T**	**95 T**	-
	2/5/2002	**6,100**	< 5	**1,800**	**6,800**	-	-	< 5	-	-	-	-	-	-	-	< 10	**9,000**	< 5	< 5	-	< 5	< 5	< 5	-	-	-	**29**	-	-	**4,300**	**570**	**25,000**	-	**2,600**	< 5	**120 T**	**120 T**	-
	7/23/2002	**65,000**	< 5	**750**	**4,900**	-	-	**11**	-	-	-	-	-	-	-	**21**	**2,900**	< 5	< 5	-	< 5	< 5	**5.2**	-	-	-	**27**	-	-	**16,000**	**910**	**20,000**	-	**670**	< 5	**110 T**	**110 T**	-
	12/18/2002	**96,000**	< 5	**1,200**	**6,400**	-	-	< 5	-	-	-	-	-	-	-	**18**	**19,000**	< 5	< 5	-	< 5	< 5	< 5	-	-	-	**35**	-	-	**15,000**	**1,800**	**26,000**	-	**1,400**	**7**	**130 T**	**130 T**	-
	6/5/2003	**45,000**	< 5	**550**	**3,400**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	-	-	-	**31**	-	-	**3,500**	**810**	**15,000**	-	**2,400**	< 5	**120 T**	**120 T**	-
	12/10/2003	**73,000**	< 2,500	< 2,500	**15,000**	-	-	< 2,500	-	-	< 2,500	< 2,500	-	-	-	< 5,000	< 10,000	< 2,500	< 2,500	< 5,000	< 2,500	< 5,000	< 2,500	-	-	-	< 2,500	< 2,500	< 2,500	**4,800**	**2,900**	**25,000**	-	< 2,500	< 1,000	< 5,000	< 2,500	-
	6/17/2004	**42,000**	< 5	**320**	**2,200**	-	-	< 5	-	-	< 5	< 5	-	-	-	**24**	< 20	< 5	< 5	< 10	**9**	< 10	< 5	-	-	-	**33**	< 5	< 5	**5,900**	**320**	**14,000**	-	**930**	< 2	**96**	**42**	-
	1/25/2005	**30,000**	< 2,500	**15,000**	< 2,500	-	-	< 2,500	-	-	< 2,500	< 2,500	-	-	-	< 5,000	< 10,000	< 2,500	< 2,500	< 5,000	< 2,500	< 5,000	< 2,500	-	-	-	< 2,500	< 2,500	< 2,500	< 2,500	< 2300	**6,900**	-	**5,000**	< 1,000	< 5,000	< 2,500	-
	12/13/2005	**22,000**	< 2,500	**5,800**	**2,600**	-	-	< 2,500	-	-	< 2,500	< 2,500	-	-	-	< 5,000	**480,000**	< 2,500	< 2,500	< 5,000	< 2,500	< 5,000	< 2,500	-	-	-	< 2,500	< 2,500	< 2,500	**3,400**	< 2,500	**11,000**	-	< 2,500	< 1,000	< 5,000	< 2,500	-
	7/10/2006	**9,300**	< 2,500	**9,600**	< 2,500	-	-	< 2,500	-	-	< 2,500	< 2,500	-	-	-	< 5,000	**1,000,000**	< 2,500	< 2,500	< 5,000	< 2,500	< 5,000	< 2,500	-	-	-	< 2,500	< 2,500	< 2,500	< 2,500	< 2,500	**7,300**	-	**2,500**	< 2,500	< 5,000	< 2,500	-
	2/14/2007	**5,800**	< 5	**18,000**	**3,100**	-	-	< 5	-	-	< 5	< 5	-	-	-	**610**	**3,900,000**	< 5	< 5	< 10	**42**	< 10	< 5	-	-	-	**73**	**5.4**	**7**	< 5	**580**	**9,300**	-	**410**	**970**	**190**	**76**	-
	8/6/2007	**4,000**	< 250	**22,000**	**3,200**	-	-	< 250	-	-	< 250	< 250	-	-	-	< 500	**12,000,000**	< 250	< 250	< 500	< 250	< 500	< 250	-	-	-	< 250	< 250	< 250	**7,500**	**580**	**9,700**	-	< 250	**790**	< 500	< 250	-
	2/28/2008	**1,600**	< 5	**18,000**	**2,000**	-	-	< 5	-	-	-	-	-	-	-	**830**	**900,000**	-	-	-	**43**	< 10	< 5	-	-	-	**95**	< 5	**14**	< 5	**11**	**5,700**	-	**16**	**1,200**	**270**	**150**	-
	11/26/2008	**2,900**	< 250	**27,000**	**6,900**	-	-	< 250	-	-	< 250	< 250	-	-	-	**570**	**7,000,000**	< 250	< 250	< 500	< 250	< 500	< 250	-	-	-	< 250	< 250	< 250	**980**	< 250	**9,600**	-	< 250	**6,000**	< 500	< 250	-
	9/10/2009	**35,000**	< 250	**25,000**	**9,400**	-	-	**38**	-	-	< 250	< 250	-	-	-	< 500	**3,200,000**	< 250	< 250	**170 J**	< 250	< 9.9	< 7.6	-	-	-	**160 J**	< 250	< 250	**4,400**	< 8.6	**12,000**	-	**54**	**2,900**	**220 J**	**220 J**	-
	3/17/2010	**1,700**	< 5	**36,000**	**12,000**	-	-	< 5	-	-	< 5	< 5	-	-	-	**320**	**2,600,000**	< 5	< 5	**31**	**37**	**17**	< 5	**120,000**	**27**	-	**56**	< 5	< 5	**65**	**7.3**	**6,500**	**110**	< 5	**3,600**	**200**	**150**	-
	9/16/2010	**2,900**	< 5	**8,500**	**2,500**	-	-	< 5	-	-	< 5	< 5	-	-	-	**140**	**1,200,000**	< 5	< 5	< 10	**41**	< 10	< 5	**49,000**	**23**	-	**65**	< 5	**6.5**	< 5	**6.4**	**6,300**	**89**	**88**	**4,100**	**180**	**150**	-
	4/8/2011	**1,400**	< 5	**9,400**	**1,500**	-	-	**9**	-	-	< 5	< 5	-	**570**	**12**	**140**	**420,000**	< 5	< 5	**12**	**24**	< 10	< 5	**16,000**	**38**	-	**64**	< 5	**6.5**	**230**	< 5	**4,900**	**16**	**23**	**2,800**	**210**	**140**	-
	4/8/2011 (DUP)	**1,300**	< 5	**13,000**	**1,400**	-	-	**8**	-	-	< 5	< 5	-	**390**	**12**	**150**	**1,600,000**	< 5	< 5	< 10	**22**	< 10	< 5	**16,000**	**28**	-	**63**	< 5	< 5	**130**	< 5	**3,400**	**13**	**20**	**3,000**	**200**	**120**	-
	10/21/2011	**3,800**	< 5	**6,800**	**930**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	**82**	**460,000**	< 5	< 5	< 10	**10**	< 10	< 5	**14,000**	< 5	-	**27**	< 5	< 5	**490**	< 5	**2,900**	< 5	**27**	**750**	**73**	**52**	-
	8/6/2012	**4,800**	-	**1,500**	**280**	-	-	< 5	**3,509**	-	-	-	**9**	-	-	**32**	**92,000**	-	-	< 10	**9.6**	< 10	< 5	**3,500**	-	-	**29**	-	< 5	**190**	**19**	**2,600**	**9.4**	**110**	**150**	**87**	**58**	-
	6/14/2013	**240**	< 10	**560**	**18**	< 10	< 10	< 10	-	< 10	< 10	< 10	-	< 100	-	< 100	**780**	< 10	-	< 10	< 10	< 50	< 50	**200**	-	< 10	**19**	< 10	-	< 50	< 10	**410**	< 10	< 10	**92**	-	-	**93**
	12/5/2013	**57**	< 1	**120**	**3.1**	< 1	**3.6**	< 1	-	**1.3**	< 1	< 1	< 100	< 10	< 10	< 10	**260**	< 1	< 1	**3.6**	< 1	< 5	< 5	**120**	**9.3**	< 1	**6.5**	< 1	**2.3**	< 5	**5.1**	**26**	< 1	**28**	**49**	-	-	**26**
MW-2	7/13/1995	**16**	< 10	**13**	< 5	-	-	**7.1 E**	-	-	< 10	< 10	-	-	-	< 10	**262**	< 10	< 10	-	< 10	< 10	< 10	-	-	-	< 10	< 10	-	**47**	**5 E**	-	-	< 5	< 10	< 10T	< 10T	-
	3/22/1996	**3**	< 10	**2**	< 5	-	-	-	-	-	< 10	< 10	-	-	-	< 10	**17**	< 10	< 10	-	< 10	-	-	-	-	-	< 10	< 10	-	**9**	**3**	**1**	-	< 5	-	< 5	< 5	-
	8/15/1997	< 5	< 5	< 5	< 100	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 100	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	< 5	-	< 10	< 5	< 5	-	< 5	< 5	< 5T	< 5T	-
	11/27/2000	-	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	-	< 5	< 5	< 10	< 5	< 5	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 5	< 10	< 5	-
	7/20/2001	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	< 5	< 5	-	< 5	< 5	< 10	< 5	-
	2/5/2002	< 5	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	< 5	< 5	-	< 5	< 5	< 5T	< 5T	-
	7/23/2002	< 5	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	< 5	< 5	-	< 5	< 5	< 5T	< 5T	-
	12/18/2002	< 5	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	< 5	< 5	-	< 5	< 5	< 5T	< 5T	-
	6/5/2003	< 5	< 5	< 5	**29**	-	-	< 5	-	-	-	-	-	-	-	< 10	**29**	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	< 5	< 5	-	< 5	< 5	< 5T	< 5T	-
	12/10/2003	< 5	< 5	< 5	< 20	-	-	< 5	-	-	-	-	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 5T	< 5T	-
	6/17/2004	< 5	< 5	< 5	< 20	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	1/25/2005	< 5	< 5	< 5	< 20	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	12/13/2005	< 5	< 5	< 5	< 50	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	**19**	< 5	-	< 5	< 2	< 10	< 5	-
	7/10/2006	< 5	< 5	< 5	< 50	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	2/14/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	8/6/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	2/28/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	11/26/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	9/10/2009	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	3/16/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	9/17/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	4/8/2011	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	10/21/2011	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 10	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	9/28/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/11/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/3/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3

NOTES:
ug/L - micrograms per liter
RW - Recovery wells
DW - Deep wells
Applicable Regulatory Standards are derived from the higher of the Type III and IV Non-Residential Risk Reduction Standards
DL - Detection Limit
NE - Not established
- not analyzed/not reported
< - less than reporting limit
Bold - Exceeds the Laboratory Detection Limit
Bold and Highlighted - Exceeds Applicable Regulatory Standard.

Table 2 - Summary of Groundwater Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)																																				
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Disulfide	Chlorinated Fluorocarbon (freon 113)	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Cyclohexane	Cymene (p-isopropyltoluene)	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (m,p)	o-Xylene	Xylene (total)
Applicable Regulatory Standards (ug/L)		13600	5	4000	524	NE	NE	5	NE	NE	600	75	10.4	11800	NE	4230	45600	8.7	4000	1000000	140	30000	80	200	17500	NE	700	1050	NE	454	98	5240	161	5	3	10000	10000	10000
MW-3	7/13/1995	-	-	-	-	-	-	-	-	-	< 500	< 500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/13/1995	**203,981**	< 500	**4,298**	**24,101**	-	-	**34,101**	-	-	-	-	-	-	-	< 500	**89,065**	< 500	< 500	-	< 500	< 500	**53.5 E**	-	-	-	< 500	< 500	-	**77,212**	**721**	**29,809**	-	< 5	< 500	**171 ET**	**171 ET**	-
	3/22/1996	**25,000**	**5**	**560**	**4,500**	-	-	**51**	-	-	< 10	< 10	-	-	-	< 10	**46,000**	< 10	< 10	-	< 10	**12**	**8**	-	-	-	**26**	< 10	-	**1,000**	**2,100**	**3,200**	-	**790**	-	**130 T**	**130 T**	-
	8/15/1997	**43,000**	< 2,500	**3,600**	**100,000**	-	-	< 5	-	-	< 2,500	< 2,500	-	-	-	< 5,000	**100,000**	< 2,500	< 2,500	-	< 2,500	< 5	< 5	-	-	-	< 2,500	< 2,500	-	**110,000**	< 2,500	**3,100**	-	< 5	< 5	< 2500T	< 2500T	-
	11/27/2000	**11,000**	-	**10,000**	**42,000**	-	-	**29**	-	-	-	-	-	-	-	-	**42,000**	-	-	-	-	**350**	**7.5**	-	-	-	-	-	-	**52,000**	**560**	**2,400**	-	**660**	< 5	-	-	-
	7/20/2001	**34,000**	**5**	**25,000**	< 5	-	-	**72**	-	-	-	-	-	-	-	**53**	< 5	< 5	< 5	-	< 5	**1,100**	**30**	-	-	-	**79**	-	-	**130,000**	**530**	**6,500**	-	**1,400**	**730**	**380 T**	**380 T**	-
	2/5/2002	**29,000**	< 5	**24,000**	**560,000**	-	-	< 5	-	-	-	-	-	-	-	**140**	**560,000**	< 5	< 5	-	< 5	**1,400**	**11**	-	-	-	**72**	-	-	**160,000**	**370**	**4,600**	-	**1,700**	**1,400**	**360 T**	**360 T**	-
	7/23/2002	**13,000**	< 5	**33,000**	**110,000**	-	-	**74**	-	-	-	-	-	-	-	**72**	**110,000**	< 5	< 5	-	< 5	**2,700**	< 5	-	-	-	**83**	-	-	**150,000**	**230**	**7,300**	-	**1,100**	**1,400**	**420 T**	**420 T**	-
	12/18/2002	**3,400**	< 5	**7,200**	**83,000**	-	-	**20**	-	-	-	-	-	-	-	**24**	**83,000**	< 5	< 5	-	< 5	**190**	< 5	-	-	-	**13**	-	-	**28,000**	**80**	**1,500**	-	**180**	**3,600**	**74 T**	**74 T**	-
	6/5/2003	**2,900**	< 5	**7**	< 5	-	-	**6.9**	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	**160**	**6.9**	-	-	-	< 5	-	-	**1,200**	**310**	**180**	-	**140**	**130**	**44 T**	**44 T**	-
	12/10/2003	**700**	< 5	**780**	< 20	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	**18**	< 5	-	-	-	< 5	< 5	< 5	**260**	**46**	**41**	-	**26**	**570**	< 10	< 5	-
	6/17/2004	**1,400**	< 5	**1,900**	**3,100**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**3,100**	< 5	< 5	< 10	< 5	**310**	< 5	-	-	-	< 5	< 5	< 5	**2,200**	**18**	**180**	-	**50**	**190**	**21**	**6.4**	-
	1/25/2005	**1,700**	< 500	**2,500**	< 2000	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 2000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	< 500	< 500	-	< 500	< 200	< 1,000	< 500	-
	12/13/2005	**3,400**	< 500	**17,000**	**59,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**59,000**	< 500	< 500	< 1,000	< 500	**1,600**	< 500	-	-	-	< 500	< 500	< 500	**6,500**	< 500	**1,200**	-	< 500	**2,800**	< 1,000	< 500	-
	7/10/2006	< 5	< 5	**8**	**4,300**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**4,300**	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	**9.3**	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	2/14/2007	**1,200**	< 5	**1,600**	**2,600**	-	-	**7.3**	-	-	< 5	< 5	-	-	-	< 10	**18,000**	< 5	< 5	< 10	< 5	**210**	**7.5**	-	-	-	< 5	< 5	< 5	**440**	**100**	**130**	-	**140**	**160**	**15**	**20**	-
	8/6/2007	**11,000**	**5**	**15,000**	**7,300**	-	-	**22**	-	-	< 5	< 5	-	-	-	**34**	**270,000**	< 5	< 5	< 10	< 5	**840**	< 5	-	-	-	**55**	< 5	**5.2**	**14,000**	**250**	**4,100**	-	**960**	**1,500**	**190**	**60**	-
	2/28/2008	**970**	< 5	**2,300**	**1,500**	-	-	**7.4**	-	-	-	-	-	-	-	**11**	**85,000**	-	-	-	< 5	**880**	**5**	-	-	-	**17**	< 5	< 5	**1,900**	**280**	**980**	-	**250**	< 2	**62**	**220**	-
	11/26/2008	**7,200**	< 100	**9,800**	**8,500**	-	-	< 100	-	-	< 100	< 100	-	-	-	< 200	**150,000**	< 100	< 100	< 200	< 100	**1,700**	< 100	-	-	-	< 100	< 100	< 100	**17,000**	**270**	**5,000**	-	**710**	**2,400**	**230**	< 100	-
	9/10/2009	**2,400**	< 5	**3,200**	**1,200**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**44,000**	**0.25 J**	< 5	**27**	< 5	< 10	< 5	-	-	-	**14**	**4.6 J**	< 5	**280**	**93**	**800**	-	**500**	**700**	**55**	**18**	-
	3/17/2010	**5,300**	< 5	**5,300**	**2,500**	-	-	**11**	-	-	< 5	< 5	-	-	-	**18**	**160,000**	< 5	< 5	**21**	< 5	**2,000**	< 5	**3,400**	< 5	-	**24**	< 5	< 5	**2,200**	**130**	**2,100**	< 5	**190**	**1,600**	**90**	**27**	-
	9/17/2010	**810**	< 5	**1,900**	**2,500**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	**19,000**	< 5	< 5	< 10	< 5	**120**	< 5	**1,400**	< 5	-	**7.4**	< 5	< 5	**27**	**6.4**	**250**	< 5	**7.7**	**470**	**40**	**13**	-
	4/8/2011	**500**	< 5	**410**	**130**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	**720**	< 5	< 5	< 10	< 5	**28**	< 5	**320**	< 5	-	< 5	< 5	< 5	< 5	**5.8**	**67**	< 5	**7.4**	**80**	**10**	**5.4**	-
	10/21/2011	**85**	< 5	**170**	**21**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	**11**	**86,000**	< 5	< 5	< 10	< 5	< 10	< 5	**230**	< 5	-	< 5	< 5	< 5	< 5	< 5	**85**	< 5	< 5	**15**	**13**	**5.4**	-
	10/3/2012	**2,500**	-	**2,300**	**1,500**	-	-	**6.1**	**3205**	-	-	-	-	-	-	**12**	**39,000**	-	-	**44**	< 5	**240**	< 5	**3,200**	-	-	**22**	-	**6.3**	< 5	**12**	**630**	**5.1**	**45**	**870**	**120**	**42**	-
	6/14/2013	**240**	< 50	**4,000**	**240**	< 50	< 50	< 50	-	< 50	< 50	< 50	-	< 500	-	< 500	**15,000**	< 50	-	< 50	< 50	**270**	< 250	**1,700**	-	< 50	< 50	< 50	-	< 250	< 50	**640**	< 50	< 50	**1,200**	-	-	< 150
	12/5/2013	**2,900**	< 250	**2,900**	**1,700**	< 250	< 250	< 250	-	< 250	< 250	< 250	< 25000	< 2500	< 2500	< 2500	**49000 J4**	< 250	< 250	< 250	< 250	< 1200	< 1200	**5,100**	< 250	< 250	< 250	< 250	< 250	< 1200	< 250	< 1200	< 250	< 250	**1,600**	-	-	< 750
MW-4	1/25/2005	**3,400**	< 500	< 500	< 500	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 500	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**1,700**	< 500	-	< 500	< 200	< 1,000	< 500	-
	12/13/2005	**2,200**	< 500	< 500	**7,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**7,000**	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**1,200**	< 500	-	< 500	< 200	< 1,000	< 500	-
	7/10/2006	**2,000**	< 500	< 500	< 500	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 5,000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**1,500**	< 500	-	< 500	< 200	< 1,000	< 500	-
	2/14/2007	**3,600**	**8**	< 5	**18,000**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	**9.4**	< 5	**2,000**	< 5	-	**32**	< 2	< 10	**5.2**	-
	8/6/2007	**2,300**	**5.5**	**33**	**19,000**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 50	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	**5.5**	< 5	**1,700**	< 5	-	**21**	< 2	< 10	**6.1**	-
	2/28/2008	**3,500**	**8**	**63**	**27,000**	-	-	**7.5**	-	-	-	-	-	-	-	< 10	< 50	-	-	-	-	< 10	< 5	-	-	-	< 5	< 5	**16**	< 5	**2,200**	< 5	-	**35**	< 2	< 10	**15**	-
	11/26/2008	**1,400**	< 500	< 500	**13,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 5,000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**1,200**	< 500	-	< 500	< 200	< 1,000	< 500	-
	9/10/2009	**2,900**	< 500	< 13	**18,000**	-	-	**24**	-	-	< 500	< 500	-	-	-	< 500	< 550	< 500	< 500	**2,500**	< 500	< 20	< 5	-	-	-	< 500	< 500	< 500	< 96	**2,200**	< 15	-	< 12	< 19	< 1,000	**42 J**	-
	3/16/2010	**2,200**	**5.1**	**46**	**28,000**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	**1,900**	< 5	< 10	< 5	< 5	**12**	-	< 5	< 5	< 5	< 5	**1,700**	< 5	< 5	**23**	< 2	< 10	< 5	-
	9/20/2010	**470**	< 5	**23**	**4,600**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	**390**	< 5	< 10	< 5	**15**	< 5	-	< 5	< 5	< 5	< 5	**460**	< 5	< 5	**20**	< 2	< 10	< 5	-
	4/8/2011	**2,500**	< 5	**90**	**9,100**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	**840**	< 5	< 10	< 5	**42**	< 5	-	< 5	< 5	< 5	< 5	**920**	< 5	< 5	**120**	< 2	< 5	**9.1**	-
	10/21/2011	**890**	< 5	**88**	**3,200**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**69**	< 5	-	< 5	< 5	< 5	< 5	**420**	< 5	< 5	**110**	< 2	< 5	**5.5**	-
	8/7/2012	**1,700**	-	**61**	**9,400**	-	-	< 5	**13**	-	-	-	< 5	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	**13**	-	-	< 5	-	< 5	< 5	**620**	< 5	< 5	**69**	< 2	< 5	< 5	-
	6/13/2013	**1,600**	< 200	< 200	**8,600**	< 200	< 200	< 200	-	< 200	< 200	< 200	-	< 2000	-	< 2000	< 10000	< 200	-	**600**	< 200	< 1000	< 1000	< 200	-	< 200	< 200	< 200	-	< 1000	**1,500**	< 1000	< 200	< 200	< 200	-	-	< 600
	12/5/2013	**2,100**	< 25	**120**	**14,000**	< 25	< 25	< 25	-	< 25	< 25	< 25	< 2500	< 250	< 250	< 250	< 1200	< 25	< 25	**1,600**	< 25	< 120	< 120	**39**	< 25	< 25	< 25	< 25	< 25	< 120	**1,600**	< 120	< 25	**120**	< 25	-	-	< 75
MW-5	2/14/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	8/6/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	2/28/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 50	-	-	-	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	11/26/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	9/10/2009	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	3/16/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	9/17/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	4/8/2011	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	10/21/2011	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	9/27/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/11/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/3/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3

NOTES:
ug/L - micrograms per liter
RW - Recovery wells
DW - Deep wells
Applicable Regulatory Standards are derived from the higher of the Type III and IV Non-Residential Risk Reduction Standards
DL - Detection Limit
NE - Not established
- not analyzed/not reported
< - less than reporting limit
Bold - Exceeds the Laboratory Detection Limit
Bold and Highlighted - Exceeds Applicable Regulatory Standard.

Table 2 - Summary of Groundwater Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)																																		
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Disulfide	Chlorinated Fluorocarbon (freon 113)	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Cyclohexane	Cymene (p-isopropyltoluene)	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (m,p)	o-Xylene	Xylene (total)
Applicable Regulatory Standards (ug/L)		13600	5	4000	524	NE	NE	5	NE	NE	600	75	10.4	11800	NE	4230	45600	8.7	4000	1000000	140	30000	80	200	17500	NE	700	1050	NE	454	98	5240	161	5	3	10000	10000	10000
MW-6	2/14/2007	< 5	< 5	< 5	< 5	-	-	-	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	8/6/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	2/28/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 50	-	-	-	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	11/26/2008	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	9/10/2009	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5	< 2	< 10	< 5	-
	3/17/2010	< 5	< 5	< 5	**14**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	4/8/2011	< 5	< 5	**5.1**	**69**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**12**	< 10	< 5	-
	10/21/2011	**6.4**	< 5	**12**	**120**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**12**	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**6**	**35**	< 10	< 5	-
	9/27/2012	**6.5**	-	**21**	**160**	-	-	< 5	**10**	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	**10**	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	**7**	**65**	< 5	< 5	-
	6/12/2013	**2.8**	< 1	**5.3**	**84**	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	**6.6**	< 1	< 5	< 5	**3.3**	-	< 1	< 1	< 1	-	< 5	**5.9**	< 5	< 1	**2**	**16**	-	-	< 3
	12/4/2013	< 1	< 1	**4.3**	**20**	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	**2.8**	< 1	< 5	< 5	**1.6**	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	**14**	-	-	< 3
MW-7	2/14/2007	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	**55**	< 5	-	**41**	**1,200**	< 10	< 5	-
	8/6/2007	**6.3**	< 5	**6.5**	**11**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**4,200**	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	**5.2**	< 5	< 5	**35**	-	< 5	**2,100**	< 10	< 5	-
	2/28/2008	< 5	< 5	< 5	**77**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 50	-	-	-	< 5	< 10	< 5	-	-	-	**7.3**	< 5	< 5	< 5	**660**	**55**	-	**400**	**4,500**	**16**	**5.4**	-
	11/26/2008	< 5	< 5	< 5	**160**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	**2,000**	**30**	-	**710**	**2,200**	**12**	< 5	-
	9/10/2009	< 5	< 5	< 5	**34**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	**1.4 J**	< 10	**1.4 J**	< 10	< 5	-	-	-	**6.2**	< 5	< 5	< 5	< 5	**34**	-	**5.1**	**2,700**	**10 J**	**4.9 J**	-
	3/16/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**190**	< 5	-	< 5	< 5	< 5	< 5	< 5	**5.7**	< 5	< 5	**290**	< 10	< 5	-
	9/16/2010	< 5	< 5	< 5	**8.8**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**1,600**	< 5	-	< 5	< 5	< 5	< 5	< 5	**22**	< 5	< 5	**960**	**8.6**	< 5	-
	4/8/2011	< 5	< 5	< 5	**67**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**10,000**	< 5	-	**6.7**	< 5	< 5	< 5	**920**	**40**	**19**	**820**	**3,200**	**15**	**6.1**	-
	10/21/2011	< 5	< 5	< 5	**11**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**1,000**	< 5	-	< 5	< 5	< 5	< 5	< 5	**10**	< 5	< 5	**540**	**12**	< 5	-
	10/21/2011 (DUP)	< 5	< 5	< 5	**10**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**1,100**	< 5	-	< 5	< 5	< 5	< 5	< 5	**10**	< 5	< 5	**600**	**12**	< 5	-
	9/27/2012	< 5	-	< 5	**30**	-	-	< 5	**1,600**	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	**1,600**	-	-	< 5	-	< 5	< 5	< 5	**15**	< 5	< 5	**850**	< 5	< 5	-
	6/13/2013	< 1	< 1	< 1	**57**	< 1	**1.4**	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	**7,200**	-	< 1	**3.8**	< 1	-	< 5	**370**	**22**	**13**	**430**	**3,200**	-	-	**10**
	12/5/2013	< 1	< 1	< 1	**33**	< 1	**1**	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	**1,900**	**1.6**	< 1	**2.3**	< 1	< 1	< 5	**48**	**14**	**5.8**	**120**	**760**	-	-	**6.3**
MW-8	9/28/2012	**16**	-	< 5	**37**	-	-	< 5	**41**	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	**7.2**	**41**	-	-	< 5	-	< 5	< 5	**480**	< 5	< 5	**1,100**	< 2	< 5	< 5	-
	6/12/2013	**8.9**	< 1	**3.3**	**26**	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	**5**	**28**	-	< 1	< 1	< 1	-	< 5	**540**	< 5	< 1	**1,000**	< 1	-	-	< 3
	12/4/2013	**5.2**	< 1	**2.2**	**25**	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	**22**	< 1	< 1	< 1	< 1	< 1	< 5	**420**	< 5	< 1	**710**	< 1	-	-	< 3
MW-9	9/27/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/11/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/3/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
MW-10	10/8/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/12/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/4/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
MW-11	10/8/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/12/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/4/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
MW-12	10/8/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	< 150	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	-
	6/12/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/3/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
MW-13	10/8/2012	< 5	-	< 5	< 5	-	-	< 5	**5.5**	-	-	-	< 5	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	**5.5**	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	**5.9**	< 5	< 5	-
	10/8/2012 (DUP)	< 5	-	< 5	< 5	-	-	< 5	**6.1**	-	-	-	< 5	-	-	< 10	< 50	-	-	< 10	< 5	< 10	< 5	**6.1**	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	**4.7**	< 5	< 5	-
	6/12/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	< 5	< 5	**11**	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	**4.1**	-	-	< 3
	12/4/2013	< 1	< 1	**1**	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	< 5	< 5	**9**	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	**3.5**	-	-	< 3
MW-15	10/8/2012	< 5	-	< 5	< 5	-	-	< 5	< 5	-	-	-	**29**	-	-	< 10	< 50	-	-	< 10	< 5	**78**	< 5	< 5	-	-	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	**3.7**	< 5	< 5	-
	6/12/2013	< 1	< 1	**1.7**	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	**42**	< 5	< 1	-	< 1	< 1	< 1	-	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3
	12/4/2013	< 1	< 1	**1.4**	< 1	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	**64**	< 5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 1	< 5	< 1	< 1	< 1	-	-	< 3

NOTES:
ug/L - micrograms per liter
RW - Recovery wells
DW - Deep wells
Applicable Regulatory Standards are derived from the higher of the Type III and IV Non-Residential Risk Reduction Standards
DL - Detection Limit
NE - Not established
- not analyzed/not reported
< - less than reporting limit
Bold - Exceeds the Laboratory Detection Limit
Bold and Highlighted - Exceeds Applicable Regulatory Standard.

Table 2 - Summary of Groundwater Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)																																		
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Disulfide	Chlorinated Fluorocarbon (freon 113)	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Cyclohexane	Cymene (p-isopropyltoluene)	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (m,p)	o-Xylene	Xylene (total)
Applicable Regulatory Standards (ug/L)		13600	5	4000	524	NE	NE	5	NE	NE	600	75	10.4	11800	NE	4230	45600	8.7	4000	1000000	140	30000	80	200	17500	NE	700	1050	NE	454	98	5240	161	5	3	10000	10000	10000
DW-1	11/5/1997	**3,000**	< 250	< 250	**1,900**	-	-	< 5	-	-	< 250	< 250	-	-	-	< 250	**54,000**	< 250	< 250	-	< 250	< 5	< 5	-	-	-	< 250	< 250	-	**28,000**	**320**	< 250	-	< 5	< 5	**250 T**	**250 T**	-
	11/27/2000	**780**	-	< 5	**850**	-	-	< 5	-	-	-	-	-	-	-	< 5	-	-	-	-	-	< 5	< 5	-	-	-	-	-	-	< 5	**140**	< 5	-	-	< 5	-	-	-
	7/20/2001	**490**	< 5	**11**	**540**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	-	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	**140**	< 5	-	**8.4**	< 5	< 5T	< 5T	-
	2/5/2002	**1,200**	< 5	**9.2**	**1,700**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	-	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	**300**	< 5	-	**5.4**	< 5	< 5T	< 5T	-
	7/23/2002	**460**	< 5	< 5	**750**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	-	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	**150**	< 5	-	< 5	< 5	< 5T	< 5T	-
	12/18/2002	**1,000**	< 5	**1,600**	**11**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	-	-	< 5	< 5	< 5	-	-	-	< 5	-	-	< 5	**240**	< 5	-	< 5	< 5	< 5T	< 5T	-
	6/5/2003	**5,000**	< 5	**100**	**11,000**	-	-	**7.6**	-	-	-	-	-	-	-	< 10	< 5	< 5	-	-	< 5	< 5	< 5	-	-	-	< 5	-	-	**14**	**2,000**	< 5	-	**40**	< 5	**6 T**	**6 T**	-
	12/10/2003	**12,000**	< 500	< 500	**15,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 2000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**3,600**	< 500	-	< 500	< 200	< 1,000	< 500	-
	6/17/2004	**4,200**	< 5	**120**	**6,500**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	< 10	< 5	-	-	-	< 5	< 5	< 5	< 5	**1,200**	< 5	-	**23**	< 2	< 10	< 5	-
	1/25/2005	**6,200**	< 500	< 500	**12,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 2000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**2,300**	< 500	-	< 500	< 200	< 1,000	< 500	-
	12/13/2005	**1,500**	< 500	**5,800**	**5,700**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**39,000**	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	**3,600**	**760**	< 500	-	< 500	**740**	< 1,000	< 500	-
	7/10/2006	**610**	< 500	**12,000**	**3,900**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**150,000**	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	**6,300**	< 500	**980**	-	< 500	**1,700**	< 1,000	< 500	-
	2/14/2007	**26**	< 5	**160**	**60**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**380**	< 5	< 5	< 10	< 5	< 5	< 5	-	-	-	< 5	< 5	< 5	< 5	**31**	**13**	-	**13**	**13**	< 10	< 5	-
	8/6/2007	**550**	< 5	**7,300**	**2,300**	-	-	**9.1**	-	-	< 5	< 5	-	-	-	< 10	**330,000**	< 5	< 5	< 10	< 5	**860**	< 5	-	-	-	< 5	< 5	< 5	**3,900**	**270**	**950**	-	**79**	**820**	**15**	**6.2**	-
	2/28/2008	**490**	< 5	**7,100**	**2,300**	-	-	**15**	-	-	-	-	-	-	-	< 10	**150,000**	-	-	-	-	**16,000**	< 5	-	-	-	**11**	< 5	**6**	**2,000**	**370**	**1,200**	-	**130**	**1,200**	**40**	**17**	-
	11/26/2008	**290**	< 5	**3,600**	**1,600**	-	-	**9.7**	-	-	< 5	< 5	-	-	-	< 10	**140,000**	< 5	< 5	< 10	< 5	**1,300**	< 5	-	-	-	**5.8**	< 5	< 5	**850**	**240**	**660**	-	**100**	**770**	**21**	**9.2**	-
	9/10/2009	**360**	< 5	**3,400**	**1,200**	-	-	**7.9**	-	-	< 5	< 5	-	-	-	< 10	**48,000**	< 5	< 5	**68**	< 5	< 10	< 5	-	-	-	**5.8**	< 5	< 5	**430**	**230**	**550**	-	**120**	**700**	**15**	**8.3**	-
	3/17/2010	**370**	< 5	**2,100**	**1,400**	-	-	**6.2**	-	-	< 5	< 5	-	-	-	< 10	**14,000**	< 5	< 5	**55**	< 5	**1,700**	< 5	**190**	< 5	-	< 5	< 5	< 5	**260**	**280**	**360**	< 5	**520**	**520**	< 10	< 5	-
	9/17/2010	**310**	< 5	**1,400**	**1,000**	-	-	**5.8**	-	-	< 5	< 5	-	< 50	< 10	< 10	**11,000**	< 5	< 5	**59**	< 5	**1,000**	< 5	**160**	< 500	-	< 5	< 5	< 5	**130**	**340**	**360**	< 5	**140**	**310**	**11**	**5**	-
	4/8/2011	**350**	< 5	**1,500**	**1,100**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	**10,000**	< 5	< 5	**68**	< 5	**730**	< 5	**160**	< 5	-	< 5	< 5	< 5	**120**	**370**	**310**	< 5	**140**	**290**	**13**	**7.2**	-
	10/21/2011	**240**	< 5	**780**	**760**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	**3,500**	< 5	< 5	< 10	< 5	**630**	< 5	**97**	< 5	-	< 5	< 5	< 5	**46**	**300**	**220**	< 5	**110**	**150**	**15**	**6.5**	-
	10/2/2012	**230**	-	**680**	**840**	-	-	**5.4**	**69**	-	-	-	< 150	-	-	< 10	**2,500**	-	-	**76**	< 5	**1,200**	< 5	**69**	-	-	< 5	-	< 5	**32**	**260**	**290**	< 5	**49**	**140**	**9.8**	< 5	-
	6/13/2013	**250**	< 1	**530**	**680**	< 1	**1**	**7**	-	< 1	< 1	< 1	-	**11**	-	< 10	**770**	< 1	-	**79**	< 1	**880**	< 5	**56**	-	< 1	**5**	< 1	-	**24**	**340**	**400**	**1.1**	**40**	**110**	-	-	**26**
	12/5/2013	**410**	< 1	**930**	**1,200**	< 1	**1.1**	**9.5**	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	**77**	< 1	< 1	**130**	< 1	**1,400**	< 5	**80**	**1.9**	< 1	**6.3**	< 1	**3.2**	**37**	**540**	**490**	**1**	**51**	**180**	-	-	**30**
	12/5/2013 (DUP)	**390**	< 1	**900**	**1,100**	< 1	**1**	**10**	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	**83**	< 1	< 1	**130**	< 1	**1,400**	< 5	**85**	**1.9**	< 1	**6.3**	< 1	**3.1**	**38**	**540**	**470**	< 1	**52**	**190**	-	-	**31**
RW-1	7/13/1995	**16,249**	< 500	**4,435**	**9,113**	-	-	**9,113**	-	-	< 500	< 500	-	-	-	< 500	**3,705**	< 500	< 500	-	< 500	< 500	**62.5 E**	-	-	-	< 500	< 500	-	**11,604**	**290 E**	< 500	-	< 5	< 500	**293 ET**	**293 ET**	-
	3/22/1996	**13,000**	< 10	**2,200**	**6,400**	-	-	**1**	-	-	< 10	< 10	-	-	-	< 10	**120**	< 10	< 10	-	< 10	-	**2**	-	-	-	< 10	< 10	-	**3,800**	**470**	**34**	-	**33**	-	**30 T**	**30 T**	-
	8/15/1997	**680**	< 25	**160**	< 500	-	-	< 5	-	-	< 25	< 25	-	-	-	< 50	< 500	< 25	< 25	-	< 25	< 5	< 5	-	-	-	< 25	< 25	-	< 50	**130**	< 25	-	< 5	< 5	< 25T	< 25T	-
	11/5/1997	**18,000**	< 250	**4,500**	**77,000**	-	-	< 5	-	-	< 250	< 250	-	-	-	< 500	**77,000**	< 250	< 250	-	< 250	< 5	< 5	-	-	-	< 250	< 250	-	**61,000**	**1,100**	**440**	-	< 5	< 5	< 250T	< 250T	-
	11/27/2000	**11,000**	-	**8,400**	**23,000**	-	-	**32**	-	-	-	-	-	-	-	-	**23,000**	-	-	-	-	**720**	< 5	-	-	-	-	-	-	**21,000**	**1,000**	**770**	-	**480**	**1,700**	-	-	-
	7/20/2001	**280**	< 5	**210**	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	**30**	**48**	-	-	-	< 5	-	-	**100**	**110**	**25**	-	**81**	**43**	**5.6 T**	**5.6 T**	-
	2/5/2002	**6,000**	< 5	**4,100**	**800**	-	-	< 5	-	-	-	-	-	-	-	< 10	**800**	< 5	< 5	-	< 5	**650**	< 5	-	-	-	< 5	-	-	**1,200**	**800**	**390**	-	**360**	**1,000**	**53 T**	**53 T**	-
	7/23/2002	**10,000**	< 5	**6,500**	< 5	-	-	**11**	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	**7.1**	-	-	-	< 5	-	-	**610**	**270**	**140**	-	**350**	**930**	**40 T**	**40 T**	-
	12/18/2002	**13,000**	< 5	**6,900**	< 5	-	-	**11**	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	**1,200**	< 5	-	-	-	< 5	-	-	**1,100**	**720**	**240**	-	**260**	**1,000**	**56 T**	**56 T**	-
	6/5/2003	**6,600**	< 5	**5,200**	< 5	-	-	**13**	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	**650**	< 5	-	-	-	**8.7**	-	-	**320**	**930**	**320**	-	**380**	< 5	**96 T**	**96 T**	-
	12/10/2003	**12,000**	< 5	**11,000**	< 20	-	-	**13**	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	< 1,000	< 5	-	-	-	**7.1**	< 5	**6.2**	**190**	< 500	< 500	-	< 500	**2,500**	**45**	**40**	-
	6/17/2004	**11,000**	< 5	**5,700**	< 20	-	-	**14**	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	**170**	< 5	-	-	-	**8.5**	< 5	< 5	**270**	**480**	**300**	-	**300**	**970**	**51**	**78**	-
	1/25/2005	**9,100**	< 500	**6,900**	< 2000	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	< 2000	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	< 500	**630**	< 500	-	< 500	**1,000**	< 1,000	< 500	-
	12/13/2005	**6,300**	< 500	**11,000**	**17,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**17,000**	< 500	< 500	**1,200**	< 5	< 1,000	< 500	-	-	-	< 500	< 500	< 500	**1,400**	**520**	**860**	-	< 500	**1,700**	-	< 500	-
	7/10/2006	**4,600**	< 500	**5,200**	**15,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**15,000**	< 500	< 500	< 1,000	< 500	< 1,000	< 500	-	-	-	< 500	< 500	< 500	**860**	< 500	**780**	-	< 500	**640**	< 1,000	< 500	-
	2/14/2007	**5,300**	< 5	**7,900**	**16,000**	-	-	**19**	-	-	< 5	< 5	-	-	-	**15**	**37,000**	< 5	< 5	**600**	< 5	**1,500**	< 5	-	-	-	**20**	< 5	**5.5**	**1,700**	**560**	**860**	-	**300**	**1,400**	**82**	**73**	-
	8/6/2007	**2,500**	< 5	**5,400**	**11,000**	-	-	**15**	-	-	< 5	< 5	-	-	-	< 10	**55,000**	< 5	< 5	< 10	< 5	**1,600**	< 5	-	-	-	**12**	< 5	< 5	**2,300**	**160**	**640**	-	**190**	**790**	**54**	**50**	-
	2/28/2008	**4,700**	< 5	**4,700**	**14,000**	-	-	**17**	-	-	-	-	-	-	-	< 10	**53,000**	< 5	-	-	< 5	**3,000**	< 5	-	-	-	**16**	< 5	**6.2**	**2,200**	**310**	**710**	-	**190**	**870**	**68**	**69**	-
	11/26/2008	**3,900**	< 500	**3,400**	**15,000**	-	-	< 500	-	-	< 500	< 500	-	-	-	< 1,000	**43,000**	< 500	< 500	< 1,000	< 500	**3,700**	< 500	-	-	-	< 500	< 500	< 500	**4,400**	< 500	**810**	-	< 500	**820**	< 1,000	< 500	-
	9/10/2009	**5,400**	< 5	**3,200**	**15,000**	-	-	**17**	-	-	**0.49 J**	< 5	-	-	-	< 10	**50,000**	**0.8 J**	< 5	**300**	< 5	< 10	< 5	-	-	-	**16**	**4.8 J**	**9.6**	**3,200**	**110**	**890**	-	**230**	**800**	**72**	**76**	-
	3/17/2010	**2,000**	< 5	**1,400**	**8,800**	-	-	**8.6**	-	-	< 5	< 5	-	-	-	< 10	**19,000**	< 5	< 5	**98**	< 5	**2,900**	< 5	**410**	< 5	-	**6.1**	< 5	< 5	**2,200**	**70**	**490**	< 5	**460**	**460**	**31**	**36**	-
	9/20/2010	**810**	< 500	**1,800**	**1,800**	-	-	< 500	-	-	< 500	< 500	-	< 50	< 10	< 1,000	**49,000**	< 500	< 500	< 1,000	< 500	**3,900**	< 500	< 500	< 500	-	< 500	< 500	< 500	**1,600**	< 500	**1,400**	< 500	< 500	**1,800**	< 500	< 500	-
	9/20/2010 (DUP)	**760**	< 250	**1,500**	**2,700**	-	-	< 250	-	-	< 250	< 250	-	< 50	< 10	< 500	**49,000**	< 250	< 250	< 500	< 250	**4,700**	< 250	< 250	< 250	-	< 250	< 250	< 250	**1,600**	< 250	**1,200**	< 250	< 250	**1,700**	< 250	< 250	-
	4/8/2011	**1,600**	< 5	**2,400**	**9,500**	-	-	**14**	-	-	< 5	< 5	-	**120**	< 10	**14**	**53,000**	< 5	< 5	**130**	< 5	**2,900**	< 5	**530**	< 5	-	**9.6**	< 5	< 5	**4,000**	**78**	**1,200**	< 5	**150**	**880**	**45**	**51**	-
	10/21/2011	**2,200**	< 5	**2,300**	**11,000**	-	-	**12**	-	-	< 5	< 5	-	**84**	< 10	< 10	**37,000**	< 5	< 5	< 10	< 5	**3,500**	< 5	**400**	< 5	-	**9.4**	< 5	< 5	**3,100**	**60**	**1,100**	< 5	**150**	**1,300**	**38**	**43**	-
	10/3/2012	**190**	-	**210**	**1,100**	-	-	< 5	**54**	-	-	-	-	-	-	< 10	**1,900**	-	-	**36**	< 5	**320**	< 5	**54**	-	-	< 5	-	< 5	**250**	**22**	**110**	< 5	**19**	**190**	**8.1**	**9.9**	-
	6/13/2013	**160**	< 100	**1,200**	**1,700**	< 100	< 100	< 100	-	< 100	< 100	< 100	-	< 1000	-	< 1000	**10,000**	< 100	-	**120**	< 100	**1,100**	< 500	**160**	-	< 100	< 100	< 100	-	**1,200**	< 100	**840**	< 100	< 100	**1,200**	-	-	< 300
	12/5/2013	**760**	< 1	**1,400**	< 1	**1.4**	**1.5**	**12**	-	< 1	< 1	< 1	< 100	**38**	< 10	< 10	**2,500**	< 1	< 1	**110**	< 1	**1,400**	< 5	**390**	**19**	**1.2**	**7.2**	< 1	**4.8**	**200**	**82**	**440**	**2.6**	**140**	**680**	-	-	**100**

NOTES:
ug/L - micrograms per liter
RW - Recovery wells
DW - Deep wells
Applicable Regulatory Standards are derived from the higher of the Type III and IV Non-Residential Risk Reduction Standards
DL - Detection Limit
NE - Not established
- not analyzed/not reported
< - less than reporting limit
Bold - Exceeds the Laboratory Detection Limit
Bold and Highlighted - Exceeds Applicable Regulatory Standard.

Table 2 - Summary of Groundwater Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)																																				
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Disulfide	Chlorinated Fluorocarbon (freon 113)	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethylene	Cyclohexane	Cymene (p-isopropyltoluene)	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (m,p)	o-Xylene	Xylene (total)
Applicable Regulatory Standards (ug/L)		13600	5	4000	524	NE	NE	5	NE	NE	600	75	10.4	11800	NE	4230	45600	8.7	4000	1000000	140	30000	80	200	17500	NE	700	1050	NE	454	98	5240	161	5	3	10000	10000	10000
RW-2	7/13/1995	**377**	< 500	**62**	< 5	-	-	**192**	-	-	< 500	< 500	-	-	-	< 500	**3,792**	< 500	< 500	-	< 500	< 500	< 500	-	-	-	< 500	< 500	-	**1,306**	**335**	< 500	-	< 5	< 500	< 500T	< 500T	-
	3/22/1996	**84**	< 10	**28**	**44**	-	-	-	-	-	< 10	< 10	-	-	-	< 10	**760**	< 10	< 10	-	< 10	-	-	-	-	-	< 10	< 10	-	**370**	**15**	**2**	-	**8**	-	< 10T	< 10T	-
	8/15/1997	**170**	< 5	**20**	< 100	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 100	< 5	< 5	-	< 5	< 5	< 5	-	-	-	< 5	< 5	-	**65**	**15**	< 5	-	< 5	< 5	< 5T	< 5T	-
	11/5/1997	**540**	< 25	**82**	< 500	-	-	< 5	-	-	< 25	< 25	-	-	-	< 25	< 500	< 25	< 25	-	< 25	< 5	< 5	-	-	-	< 25	< 25	-	**600**	**50**	< 25	-	< 5	< 5	< 25T	< 25T	-
	11/27/2000	**63**	-	**7.9**	< 5	-	-	< 5	-	-	-	-	-	-	-	-	< 5	-	-	-	-	< 5	**7.2**	-	-	-	-	-	-	< 5	**44**	< 5	-	< 5	< 5	-	-	-
	7/20/2001	**25**	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	**9**	-	-	-	< 5	-	-	< 5	**21**	< 5	-	< 5	< 5	< 5T	< 5T	-
	2/5/2002	**58**	< 5	**12**	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	**19**	-	-	-	< 5	-	-	< 5	**53**	< 5	-	< 5	< 5	< 5T	< 5T	-
	7/23/2002	**33**	< 5	**24**	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	**6.4**	-	-	-	< 5	-	-	< 5	**35**	< 5	-	< 5	< 5	< 5T	< 5T	-
	12/18/2002	**130**	< 5	< 5	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	**6.1**	**19**	-	-	-	< 5	-	-	< 5	**1,209**	< 5	-	**5.4**	**6.2**	< 5T	< 5T	-
	6/5/2003	**48**	< 5	**130**	< 5	-	-	< 5	-	-	-	-	-	-	-	< 10	< 5	< 5	< 5	-	< 5	< 5	**14**	-	-	-	< 5	-	-	< 5	**110**	< 5	-	**6.8**	< 5	< 5T	< 5T	-
	12/10/2003	**120**	< 5	**290**	**210**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**210**	< 5	< 5	< 10	< 5	< 5	**19**	-	-	-	< 5	< 5	< 5	**6.3**	**200**	< 5	-	**11**	**4.5**	< 10	< 5	-
	6/17/2004	**160**	< 5	**230**	< 20	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	**47**	**11**	-	-	-	< 5	< 5	< 5	**38**	**180**	< 5	-	**41**	**10**	< 10	< 5	-
	1/25/2005	**92**	< 5	**180**	< 20	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 20	< 5	< 5	< 10	< 5	**33**	**10**	-	-	-	< 5	< 5	< 5	**32**	**87**	< 5	-	**28**	**10**	< 10	< 5	-
	12/13/2005	**150**	< 5	**540**	< 50	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 500	**71**	**10**	-	-	-	< 5	< 5	< 5	**15**	**160**	< 5	-	**110**	**44**	< 10	< 5	-
	7/10/2006	**59**	< 5	**180**	< 50	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	**30**	< 5	-	-	-	< 5	< 5	< 5	**8.5**	**91**	< 5	-	**60**	**7.7**	< 10	< 5	-
	2/14/2007	**61**	< 5	**280**	**210**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**340**	< 5	< 5	< 10	< 5	**43**	**9.1**	-	-	-	< 5	< 5	< 5	**12**	**100**	< 5	-	**75**	**15**	< 10	**12**	-
	8/6/2007	**77**	< 5	**220**	**270**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**600**	< 5	< 5	< 10	< 5	**26**	**6.8**	-	-	-	< 5	< 5	< 5	< 5	**110**	< 5	-	**110**	**31**	< 10	< 5	-
	2/28/2008	**65**	< 5	**220**	**190**	-	-	< 5	-	-	-	-	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	**17**	**7.5**	-	-	-	< 5	< 5	< 5	< 5	**90**	< 5	-	**94**	**21**	< 10	< 5	-
	11/26/2008	**69**	< 5	**140**	**250**	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**990**	< 5	< 5	< 10	< 5	**21**	< 5	-	-	-	< 5	< 5	< 5	**274**	**100**	< 5	-	**130**	**29**	< 10	< 5	-
	9/10/2009	**43**	< 5	**93**	**100**	-	-	< 5	-	-	< 5	**0.76 J**	-	-	-	< 10	< 50	< 5	< 5	< 10	< 5	< 10	**6.5**	-	-	-	< 5	< 5	< 5	< 5	**69**	< 5	-	**100**	**23**	< 10	< 5	-
	3/17/2010	< 5	< 5	< 5	< 5	-	-	< 5	-	-	< 5	< 5	-	-	-	< 10	**190**	< 5	< 5	< 10	< 5	< 10	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 10	< 5	-
	9/17/2010	**95**	< 5	**37**	**510**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	**34**	< 5	**10**	< 5	**6.6**	< 5	-	< 5	< 5	< 5	**5.8**	**81**	< 5	< 5	**7.5**	**6.7**	< 10	< 5	-
	4/8/2011	**19**	< 5	**89**	**57**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	**77**	< 5	< 5	< 10	< 5	< 10	< 5	**86**	< 5	-	< 5	< 5	< 5	< 5	**59**	< 5	< 5	**100**	**22**	< 5	< 5	-
	10/21/2011	**12**	< 5	**81**	**32**	-	-	< 5	-	-	< 5	< 5	-	< 50	< 10	< 10	< 50	< 5	< 5	< 10	< 5	< 10	< 5	**120**	< 5	-	< 5	< 5	< 5	< 5	**40**	< 5	< 5	**60**	**18**	< 5	< 5	-
	10/2/2012	**15**	-	**100**	**38**	-	-	< 5	**160**	-	-	-	-	-	-	< 10	< 50	-	-	< 10	< 5	**41**	< 5	**160**	-	-	< 5	-	< 5	< 5	**71**	< 5	< 5	**110**	**22**	< 5	< 5	-
	6/13/2013	**13**	< 1	**38**	**16**	< 1	< 1	< 1	-	< 1	< 1	< 1	-	< 10	-	< 10	< 50	< 1	-	< 1	< 1	**15**	< 5	**250**	-	< 1	< 1	< 1	-	< 5	**92**	< 5	< 1	**130**	**6.5**	-	-	< 3
	12/4/2013	**13**	< 1	**46**	**30**	< 1	< 1	< 1	-	< 1	< 1	< 1	< 100	< 10	< 10	< 10	< 50	< 1	< 1	< 1	< 1	**36**	< 5	**320**	< 1	< 1	< 1	< 1	< 1	< 5	**83**	< 5	< 1	**130**	**14**	-	-	< 3

NOTES:
ug/L - micrograms per liter
RW - Recovery wells
DW - Deep wells
Applicable Regulatory Standards are derived from the higher of the Type III and IV Non-Residential Risk Reduction Standards
DL - Detection Limit
NE - Not established
- not analyzed/not reported
< - less than reporting limit
Bold - Exceeds the Laboratory Detection Limit
Bold and Highlighted - Exceeds Applicable Regulatory Standard.

Table 3 - Summary of Surface Water Analytical Data - Volatile Organic Compounds
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Monitoring Well / Sample ID	Sample Date	Analytical Results (ug/L)						
		1,1-Dichloroethane	**1,1-Dichloroethene**	**cis-1,2-Dichloroethene**	**Acetone**	**Tetrachloroethene**	**Trichloroethene**	**Vinyl Chloride**
SW-1	1/25/2005	**15**	<5	<5	<50	<5	<5	<2
	12/13/2005	**14**	**5.5**	**9.9**	<50	**8.3**	**7.5**	<2
	7/10/2006	**9.3**	<5	<5	<50	<5	**9.9**	<2
	2/14/2007	**17**	**5.1**	<5	<50	<5	<5	<2
	8/6/2007	**10**	<5	<5	<50	<5	<5	<2
	2/28/2008	**19**	**5.9**	<5	**2,400**	<5	<5	<2
	11/26/2008	**14**	**5.7**	<5	<50	<5	<5	<2
	9/10/2009	**13**	<5	<5	<50	<5	<5	<2
	3/16/2010	**13**	**5**	<5	<50	<5	<5	<2
	9/16/2010	**10**	<5	<5	<50	<5	<5	<2
	4/8/2011	**14**	<5	<5	<50	<5	<5	<2
	10/21/2011	**7.8**	<5	<5	<50	<5	<5	<2
	10/8/2012	**7.5**	-	-	-	-	-	-
	6/11/2013	**4.8**	**1**	**1.1**	<50	<1	<1	<1
	12/4/2013	**8.6**	**2**	**2**	<50	<1	<1	<1
SW-2	1/25/2005	**6.4**	<5	**23**	<50	**5.8**	**5.3**	**4.4**
	12/13/2005	**6.1**	<5	**6.7**	<50	**5.3**	**5**	<2
	7/10/2006	**6.2**	<5	**5.4**	<50	**5.2**	**8.9**	<2
	2/14/2007	**6.4**	<5	**11**	<50	**7.4**	**9**	<2
	8/6/2007	<5	<5	<5	<50	<5	**5.7**	<2
	2/28/2008	**6.6**	<5	**5.6**	**130**	**7.6**	**8.8**	<2
	11/26/2008	<5	<5	<5	<50	<5	**10**	<2
	9/10/2009	<5	<5	<5	<50	<5	**5.5**	<2
	3/16/2010	**5.2**	<5	**5.5**	<50	<5	**5.8**	<2
	9/16/2010	<5	<5	<5	<50	<5	**6.2**	<2
	4/8/2011	**5.2**	<5	<5	<50	<5	**5.1**	<2
	10/21/2011	<5	<5	<5	<50	<5	<5	<2
	10/8/2012	<5	-	-	-	-	-	-
	6/11/2013	**2.6**	<1	**2.6**	<50	**1.3**	**5.1**	<1
	12/4/2013	**4.6**	**1.1**	**3.3**	<50	**1.1**	**5.3**	<1

NOTES:

ug/L - micrograms per liter

- not analyzed/not reported

< - less than reporting limit

Bold - Exceeds the Laboratory Detection Limit

Table 4 - Sumamry of Risk Reduction Standards
Voluntary Investigation and Remediation Plan
Apollo Technologies, Inc. - Smyrna Facility

Constituent	CAS No.	Soil			Groundwater		
		Type 1 RRS (mg/kg)	Type 3 RRS (mg/kg)	Type 4 RRS (mg/kg)	Type 1 RRS (mg/L)	Type 3 RRS (mg/L)	Type 4 RRS (mg/L)
1,1,1-Trichloroethane	71-55-6	2.00E+01	2.00E+01	4.78E+00	2.00E-01	2.00E-01	1.36E+01
1,1,2-Trichloroethane	79-00-5				5.00E-03	5.00E-03	5.83E-04
1,1-Dichloroethane	75-34-3	4.00E+02	4.00E+02	1.14E+00	4.00E+00	4.00E+00	4.64E-02
1,1-Dichloroethene	75-35-4	7.00E-01	7.00E-01	1.88E-01	5.00E-03	5.00E-03	5.24E-01
1,2-Dichloroethane	107-06-2	5.00E-01	5.00E-01	1.42E-03	5.00E-03	5.00E-03	2.86E-03
1,4-Dioxane	123-91-1				DL	DL	1.04E-02
2-Butanone	78-93-3				2.00E+00	2.00E+00	1.18E+01
4-Methyl-2-Pentanone	108-10-1				2.00E+00	2.00E+00	4.23E+00
Acetone	67-64-1	4.00E+02	4.00E+02	9.35E+00	4.00E+00	4.00E+00	4.56E+01
Benzene	71-43-2				5.00E-03	5.00E-03	8.72E-03
Carbon Disulfide	75-15-0				4.00E+00	4.00E+00	1.70E+00
Chlorobenzene	108-90-7				1.00E-01	1.00E-01	1.36E-01
Chloroform	67-66-3				8.00E-02	8.00E-02	3.42E-03
cis-1,2-Dichloroethene	156-59-2	7.00E+00	7.00E+00	6.01E-02	7.00E-02	7.00E-02	2.04E-01
Cyclohexane	110-82-7	2.00E+01	2.00E+01	1.15E+01	0.005 [1]	0.005 [1]	1.75E+01
Ethylbenzene	100-41-4	7.00E+01	7.00E+01	7.85E-01	7.00E-01	7.00E-01	2.91E-02
Freon-113 (Trichloro-1,2,2-trifluoroethane,1,1,2-)	76-13-1				1.00E+03	1.00E+03	8.52E+01
Isopropylbenzene	98-82-8	2.19E+01	2.19E+01	1.72E+00	0.005 [1]	0.005 [1]	1.05E+00
Methylene Chloride	75-09-2	5.00E-01	5.00E-01	1.16E-01	5.00E-03	5.00E-03	4.54E-01
Tetrachloroethene	127-18-4	5.00E-01	5.00E-01	4.46E-02	5.00E-03	5.00E-03	9.81E-02
Toluene	108-88-3	1.00E+02	1.00E+02	3.63E+00	1.00E+00	1.00E+00	5.24E+00
trans-1,2-Dichloroethene	156-60-5				1.00E-01	1.00E-01	1.61E-01
Trichloroethene	79-01-6	5.00E-01	5.00E-01	1.87E-03	5.00E-03	5.00E-03	5.24E-03
Vinyl Chloride	75-01-4				2.00E-03	2.00E-03	3.27E-03
Xylenes (Total)	1330-20-7	1.00E+03	1.00E+03	9.85E+00	1.00E+01	1.00E+01	2.88E-01
1,3-Dichlorobenzene	541-73-1				6.00E-01	6.00E-01	6.00E-01
1,4-Dichlorobenzene	106-46-7				7.50E-02	7.50E-02	5.30E-01
bis(2-ethylhexyl)phthalate	117-81-7	5.00E+01	5.00E+01	4.89E+01			

mg milligrams
kg kilograms
RRS Risk Reduction Standard
CAS Chemical Abstract Service

Notes:

[1] Detection limit used for Groundwater Type 1 RRS. Chemical does not have a value in HSRA Appendix III Table 2.

Figures

\\Atlantasvr\projects\Apollo-Tech.1880651262.Smyrna-Gw-Monit\Docs\Reports

FIGURE 1

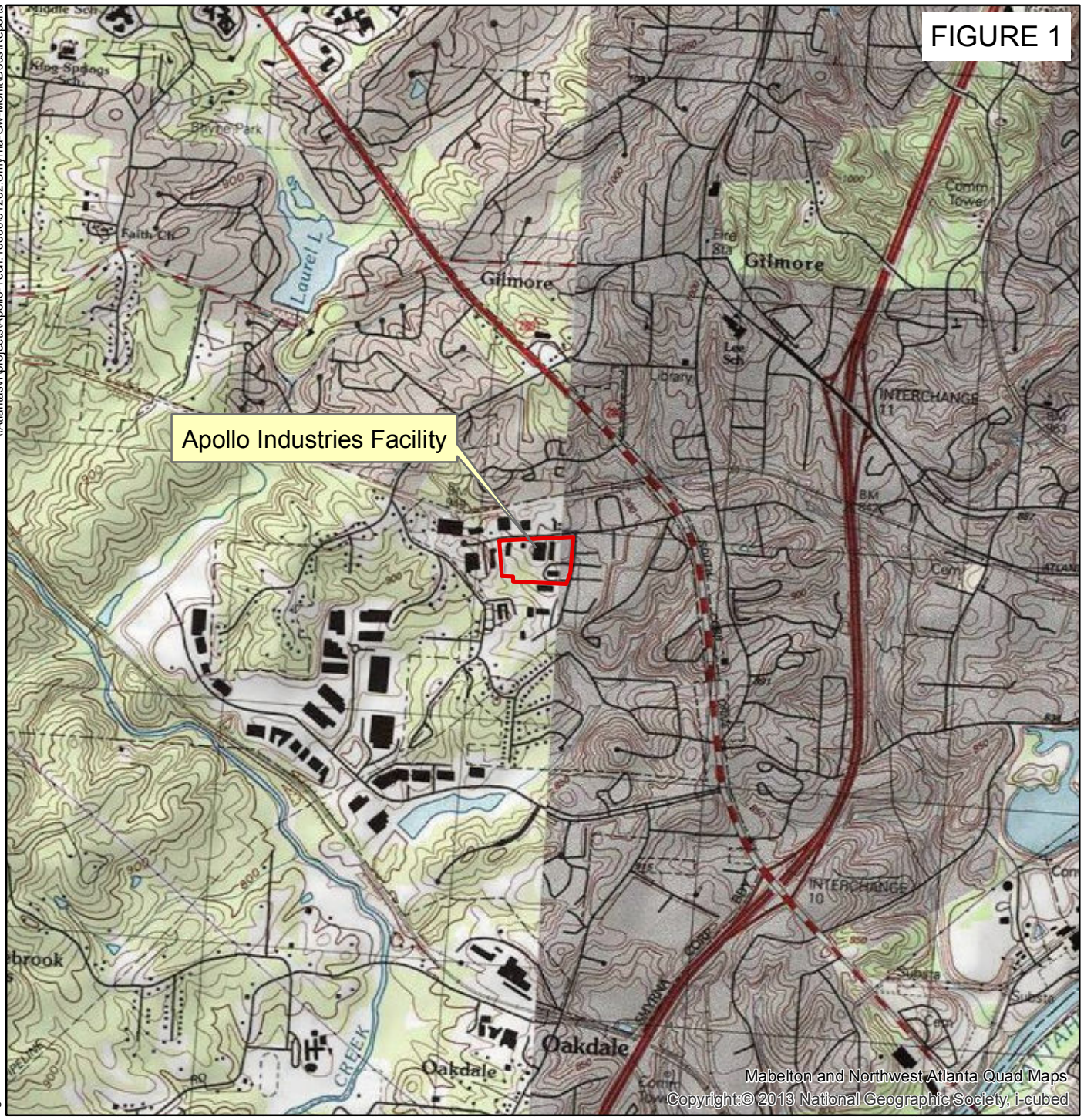


Figure 1--Site Location

MAP LOCATION

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

SITE LOCATION MAP

N

0 1,000 2,000 4,000 6,000 8,000

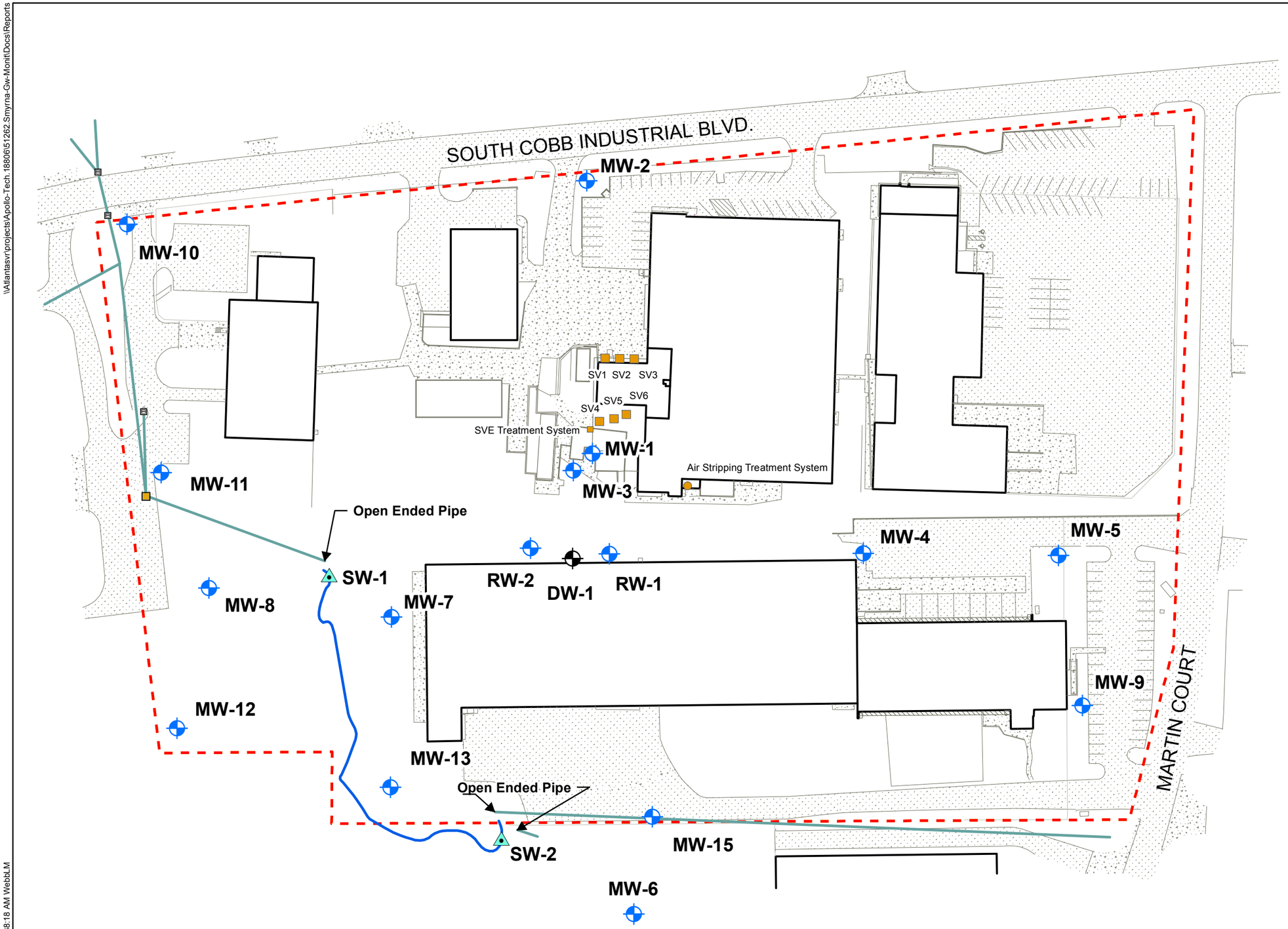
Feet

02/21/14
FILE NO. 51537

1:24,000

O'BRIEN & GERE

FIGURE 2



LEGEND

- Deep Monitoring Well
- Shallow Monitoring Well
- Surface Water Sample Location
- Drop Inlet
- Catch Basin
- Stormwater Channel
- Stormwater Pipe
- Remediation System
- Property_Boundary

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

SITE PLAN

0 50 100 200
Feet

03/04/14
FILE NUM 51537

O'BRIEN & GERE

Source: Historic mapping prepared by others provided for use by Apollo.
This document was developed in color. Reproduction in B/W may not represent the data as intended.

\\Atlantasvr\projects\Apollo-Tech.188061\51262.Smyrna-Gw-Monit\Docs\Reports

PLOTDATE: 08/02/13 7:38:18 AM WebbLM

\\Atlantasvr\projects\Apollo-Tech 1880\61537 Apollo-Smyrna-V\Docs

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-7 0-5 8/4/2012	S-7 5-10 8/4/2012	S-7 10-15 8/4/2012
DRO, mg/kg				
Diesel Range Organics	NE	920 J	NA	NA
Metals, Total, mg/kg				
Barium	1000	86.7	68.7	78.4
Chromium	1200	15.7	14.0	20.3
TOC, mg/kg				
Total Organic Carbon (TOC)	NE	4000	NA	558
Pesticides, ug/kg		BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL
VOCs, ug/kg				
Discrete Sample Depth (ft.):		**2**	**8**	**13**
1,1,1-Trichloroethane	20000	78	25	< 190
1,2-Dichloroethene (Total)	500	17	7.2	< 190
Acetone	400000	83	< 7.2	< 3750
cis-1,2-Dichloroethene	7000	17	7.2	< 190
Ethylbenzene	70000	< 3.8	10	320
m+p-Xylenes	1000000	< 3.8	26	900
Methylcyclohexane	NE	< 3.8	15	< 190
o-Xylene	1000000	< 3.8	25	470
Tetrachloroethene (PCE)	500	210	**2300**	**4700**
Toluene	100000	< 3.8	59	270
Trichloroethene (TCE)	500	270 J	140	460
Xylenes, Total	1000000	< 3.8	49	1400

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-19 0-5 9/28/2012	S-19 5-10 9/28/2012	S-19 10-15 9/28/2012	S-19 15-20 9/28/2012
Metals, Total, mg/kg					
Barium	1000	55.1	80.5	105	139
Chromium	1200	23.7	22.3	22.7	26.0
Lead	400	11.4	< 6.12	< 5.96	< 6.15
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**3**	**7.5**	**12.5**	**16**
1,2-Dichloroethene (Total)	500	22	< 5.5	< 5.6	< 5.5 UJ
cis-1,2-Dichloroethene	7000	22	< 5.5	< 5.6	< 5.5 UJ
Trichloroethene (TCE)	500	6.9	< 5.5	< 5.6	< 5.5
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-18 3-5 9/28/2012	S-18 5-10 9/28/2012	S-18 10-15 9/28/2012	S-18 15-20 9/28/2012
Metals, Total, mg/kg					
Barium	1000	81.4	81.9	114	120
Chromium	1200	25.1	29.3	20.1	19.7
Lead	400	5.96	7.14	< 6.09	< 6.61
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**2**	**7.5**	**12.5**	**17.5**
m+p-Xylenes	1000000	66	< 6.8	< 5.2	< 5.9
o-Xylene	1000000	44	< 6.8	< 5.2	< 5.9
Xylenes, Total	1000000	70.4	< 6.8	< 5.2	< 5.9
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-21 5-6 9/28/2012	S-21 5-10 9/28/2012	S-21 10-15 9/28/2012	S-21 15-20 9/28/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**6**			
Tetrachloroethene (PCE)	500	74	< 6.0	< 5.3	< 6.0
Trichloroethene (TCE)	500	5.8	< 6.0	< 5.3	< 6.0
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-17 4-5 9/28/2012	S-17 5-10 9/28/2012	S-17 10-15 9/28/2012	S-17 15-20 9/28/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):					**17.5**
1,2-Dichloroethene (Total)	500	< 5.0	< 5.7	< 6.1	6.8
cis-1,2-Dichloroethene	7000	< 5.0	< 5.7	< 6.1	6.8
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-22 5-6 9/28/2012	S-22 9-10 9/28/2012	S-22 10-15 9/28/2012	S-22 17-18 9/28/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):				**12.5**	
1,2-Dichloroethene (Total)	500	< 5.0	< 5.6	18	< 6.5
cis-1,2-Dichloroethene	7000	< 5.0	< 5.6	18	< 6.5
Trichloroethene (TCE)	500	< 5.0	< 5.6	8.5	< 6.5
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-9 0-3 8/4/2012
DRO, mg/kg		
Diesel Range Organics	NE	710 J
Metals, Total, mg/kg		
Barium	1000	140
Chromium	109	28.9
TOC, mg/kg		
Total Organic Carbon (TOC)	NE	2280
Pesticides, ug/kg		BRL
SVOCs, ug/kg		BRL
VOCs, ug/kg		
Discrete Sample Depth (ft.):		**2**
1,2-Dichloroethene (Total)	500	**5400**
cis-1,2-Dichloroethene	7000	5400
Ethylbenzene	70000	1900
m+p-Xylenes	1000000	9800
Methylcyclohexane	NE	2700
o-Xylene	1000000	7400
Tetrachloroethene (PCE)	500	**53000**
Trichloroethene (TCE)	500	**3100**
Xylenes, Total	1000000	17000

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-16 3-4 10/2/2012	S-16 5-10 10/2/2012	S-16 15-20 10/2/2012	S-16 20-25 10/2/2012
Metals, Total, mg/kg					
Barium	1000	90.9	64.6	80.3	90.9
Chromium	1200	18.4	14.6	14.5	15.6
Lead	400	10.8	< 5.20	9.45	< 6.23
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**3**	**7.5**	**17.5**	**22.5**
1,2-Dichloroethene (Total)	500	< 4.5	56	< 5.0	7.2
cis-1,2-Dichloroethene	7000	< 4.5	56	< 5.0	7.2
o-Xylene	1000000	< 4.5	5.8	< 5.0	< 5.5
Tetrachloroethene (PCE)	500	< 4.5	15	< 5.0	< 5.5
Trichloroethene (TCE)	500	< 4.5	46	< 5.0	< 5.5
Xylenes, Total	1000000	< 4.5	5.8	< 5.0	< 5.5
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-12 3-4 10/2/2012	S-12 5-7 10/2/2012
Metals, Total, mg/kg			
Barium	1000	83.7	85.4
Chromium	1200	16.3	18.2
Pesticides, ug/kg		BRL	BRL
SVOCs, ug/kg		BRL	BRL
VOCs, ug/kg		BRL	BRL
No RRS Exceedances			

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-27 3-4 10/2/2012
VOCs, ug/kg		
Discrete Sample Depth (ft.):		**3**

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-15 5-10 10/2/2012	S-15 10-15 10/2/2012	S-15 15-20 10/2/2012	S-15 20-25 10/2/2012
Metals, Total, mg/kg					
Barium	1000	90.5	116	144	177
Chromium	1200	20.3	20.3	23.8	23.7
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg		BRL	BRL	BRL	BRL
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-24 2-4 10/2/2012
Metals, Total, mg/kg		
Barium	1000	86.3
Chromium	1200	18.2
Pesticides, ug/kg		BRL
SVOCs, ug/kg		BRL
VOCs, ug/kg		BRL
No RRS Exceedances		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-11 0-5 8/4/2012	S-11 5-10 8/4/2012	S-11 10-15 8/4/2012	S-11 15-20 8/4/2012	S-11 20-25 8/4/2012
Metals, Total, mg/kg						
Barium	1000	127	99.0	81.9	119	103
Chromium	1200	18.9	21.1	21.3	20.2	16.7
Pesticides, ug/kg		BRL	BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL	BRL
VOCs, ug/kg						
Discrete Sample Depth (ft.):		**2**	**7**	**12**	**17**	**22**
1,1-Dichloroethane	400000	< 3.2	< 3.4	< 3.1	6.1	< 3.3
1,2-Dichloroethene (Total)	500	< 3.2	< 3.4	< 3.1	5.0	< 3.3
cis-1,2-Dichloroethene	7000	< 3.2	< 3.4	< 3.1	5.0	< 3.3
No RRS Exceedances						

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-8 0-5 8/4/2012
Metals, Total, mg/kg		
Barium	1000	177
Chromium	1200	48.8
Lead	400	11.1
Pesticides, ug/kg		BRL
SVOCs, ug/kg		BRL
VOCs, ug/kg		BRL
No RRS Exceedances		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-6 4-5 9/28/2012	S-6 5-10 9/28/2012	S-6 10-15 9/28/2012	S-6 15-20 9/28/2012
Metals, Total, mg/kg					
Barium	1000	111	60.7	69.2	104
Chromium	1200	19.7	14.7	16.1	20.2
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg		BRL	BRL	BRL	BRL
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-20 4-5 9/28/2012	S-20 5-10 9/28/2012	S-20 10-15 9/28/2012	S-20 15-20 9/28/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**4**			
Acetone	400000	15.6	<120	<119	<95
Tetrachloroethene (PCE)	500	13	< 5.9	<5.7	<4.8
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-5 4-5 9/28/2012	S-5 5-10 9/28/2012	S-5 10-15 9/28/2012	S-5 15-20 9/28/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):		6			
Acetone	400000	160 J	BRL	BRL	BRL
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-1 0-5 8/4/2012	S-1 5-10 8/4/2012	S-1 10-15 8/4/2012	S-1 15-20 8/4/2012	S-1 20-25 8/4/2012
DRO, mg/kg						
Diesel Range Organics	NE	19000 J	NA	NA	NA	NA
Metals, Total, mg/kg						
Barium	1000	133	94.8	78.9	120	87.7
Chromium	1200	35.0	16.2	16.5	12.6	12.9
Lead	400	7.51	< 5.19	< 5.38	< 5.60	< 5.89
Pesticides, ug/kg						
4,4'-DDD	2800	< 3.8	< 3.6	4.3	< 3.8	< 4.1
4,4'-DDE	1980	< 3.8	< 3.6	11	< 3.8	7.5
4,4'-DDT	2840	< 3.8	< 3.6	23	< 3.8	22
SVOCs, ug/kg						
Bis(2-Ethylhexyl)phthalate	50000	< 1900	< 350	820	< 1900	1400
TOC, mg/kg						
Total Organic Carbon (TOC)	NE	5560	NA	1740	NA	< 500
VOCs, ug/kg						
Discrete Sample Depth (ft.):		**4**	**6**	**11**	**17**	**21**
Acetone	400000	76000	< 12000	< 54000	420 J	< 49000
Ethylbenzene	70000	13000	1500	3000	5.6	3700
Isopropylbenzene (Cumene)	21580	< 1900	< 590	3200	< 4.6	< 2400
m+p-Xylenes	1000000	60000	9300	12000	27	15000
Methylcyclohexane	NE	3500	3700	4300	8.4	< 2400
o-Xylene	1000000	22000	8700	5900	14	6400
Tetrachloroethene (PCE)	500	**190000**	**160000**	**110000**	130	**68000**
Toluene	100000	66000	6100	9300	23	21000
Trichloroethene (TCE)	500	**7600**	**1200**	< 2700	5.1	**3600**
Xylenes, Total	1000000	82000	19000	16000	40	21000

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-2 0-5 8/4/2012	S-2 5-10 8/4/2012	S-2 10-15 8/4/2012	S-2 15-20 8/4/2012
Metals, Total, mg/kg					
Barium	1000	84.2	75.6	90.5	104
Chromium	1200/109**	16.4	13.7	17.1	18.8
Pesticides, ug/kg		BRL	BRL	BRL	BRL
SVOCs, ug/kg		BRL	BRL	BRL	BRL
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**3**	**7**	**11**	**19**
1,1,1-Trichloroethane	20000	260 J	< 4.3	6.7	20
1,1-Dichloroethene	400000	29	< 4.3	< 4.8	< 5.0
1,2-Dichloroethene (Total)	500	370	< 4.3	19	37
Acetone	400000	160000	< 96	< 96	< 99
cis-1,2-Dichloroethene	7000	370	< 4.3	19	37
Cyclohexane	20000	81	< 4.3	< 4.8	< 5.0
Ethylbenzene	70000	44	< 4.3	< 4.8	< 5.0
m+p-Xylenes	1000000	1400	< 4.3	< 4.8	5.4
Methylcyclohexane	NE	32	< 4.3	< 4.8	< 5.0
Methylene chloride	500	42	< 17	< 19	< 20
o-Xylene	1000000	540	< 4.3	< 4.8	< 5.0
Tetrachloroethene (PCE)	500	**2400**	< 4.3	< 4.8	38
Toluene	100000	400	< 4.3	< 4.8	6.4
Trichloroethene (TCE)	500	**1000**	< 4.3	29	57
Xylenes, Total	1000000	1900	< 4.3	< 4.8	8.4

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-3 0-5 8/4/2012	S-3 5-7 8/4/2012
DRO, mg/kg			
Diesel Range Organics	NE	NA	8700 J
Metals, Total, mg/kg			
Barium	1000	91.0	74.9
Chromium	1200	19.1	18.0
TOC, mg/kg			
Total Organic Carbon (TOC)	NE	13000	7080
Pesticides, ug/kg		BRL	BRL
SVOCs, ug/kg		BRL	BRL
VOCs, ug/kg			
Discrete Sample Depth (ft.):		**4**	**7**
Acetone	400000	**1600000**	**940000**
Cyclohexane	20000	17000	< 2300
Ethylbenzene	70000	**86000**	49000
Methylcyclohexane	NE	5400	3000
Isopropylbenzene (Cumene)	21580	9400	3000
m+p-Xylenes	1000000	290000	150000
Methyl acetate	NE	< 2200	10000
Methylcyclohexane	NE	3900	4900
o-Xylene	1000000	50000	27000
Tetrachloroethene (PCE)	500	**310000**	**370000**
Toluene	100000	79000	76000
Trichloroethene (TCE)	500	**180000**	**190000**
Xylenes, Total	1000000	310000	180000

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-4 0-5 8/4/2012	S-4 5-7 8/4/2012
Metals, Total, mg/kg			
Barium	1000	77.5	74.1
Chromium	1200	15.6	16.7
Pesticides, ug/kg			
4,4'-DDE	2800	11	< 3.5
4,4'-DDT	2840	20 JH	< 3.5
TOC, mg/kg			
Total Organic Carbon (TOC)	NE	2810	1480
SVOCs, ug/kg		BRL	BRL
VOCs, ug/kg			
Discrete Sample Depth (ft.):		**4**	**6**
1,1,1-Trichloroethane	20000	**32000**	**180000**
1,1-Dichloroethene	700	< 2500	**3700**
Acetone	400000	**970000**	150000
Ethylbenzene	70000	< 2500	10000
Isopropylbenzene (Cumene)	21580	< 2500	2200
m+p-Xylenes	1000000	6300	69000
Methylcyclohexane	NE	< 2500	20000
Methylene chloride	500	**24000**	< 4900
o-Xylene	1000000	2600	18000
Tetrachloroethene (PCE)	500	**40000**	**270000**
Toluene	100000	9300	71000
Trichloroethene (TCE)	500	**54000**	**230000**
Xylenes, Total	1000000	9100	67000

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-10 0-3 8/4/2012
Metals, Total, mg/kg		
Barium	1000	173
Chromium	109	38.5
Lead	400	8.48
Pesticides, ug/kg		BRL
SVOCs, ug/kg		BRL
VOCs, ug/kg		
Discrete Sample Depth (ft.):		**2**
1,1,1-Trichloroethane	20000	6.4
1,1-Dichloroethene	400000	19
1,2-Dichloroethene (Total)	500	65
cis-1,2-Dichloroethene	7000	65
m+p-Xylenes	1000000	6.4
o-Xylene	1000000	6.0
Tetrachloroethene (PCE)	500	6.1
Trichloroethene (TCE)	500	9.1
Xylenes, Total	1000000	12
No RRS Exceedances		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-12 3-4 10/2/2012	S-12 5-7 10/2/2012
Metals, Total, mg/kg			
Barium	1000	83.7	85.4
Chromium	1200	16.3	18.2
Pesticides, ug/kg		BRL	BRL
SVOCs, ug/kg		BRL	BRL
VOCs, ug/kg		BRL	BRL
No RRS Exceedances			

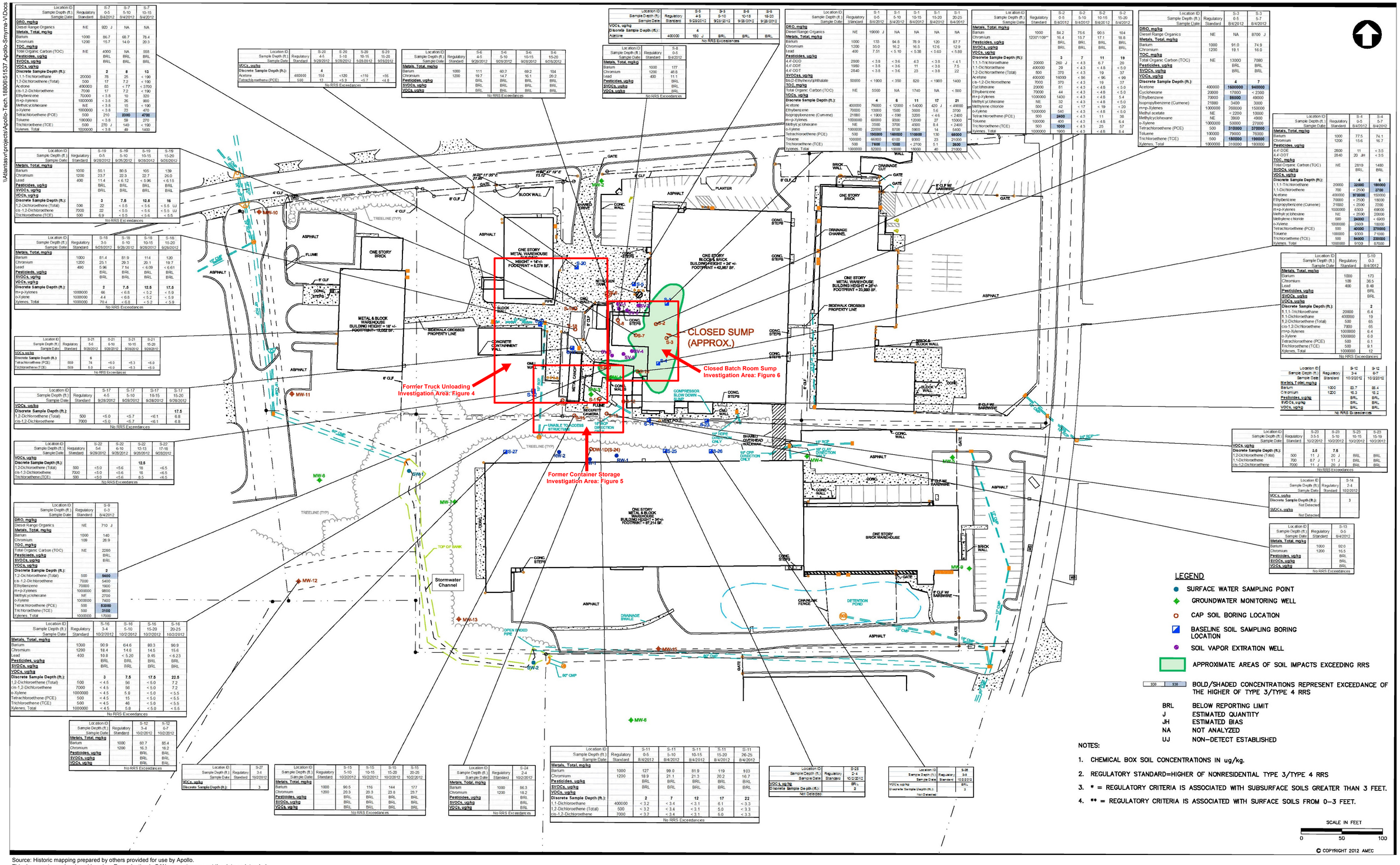
Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-23 3.5-5 10/2/2012	S-23 5-10 10/2/2012	S-23 10-15 10/2/2012	S-23 15-19 10/2/2012
VOCs, ug/kg					
Discrete Sample Depth (ft.):		**3.5**	**7.5**		
1,2-Dichloroethene (Total)	500	11 J	20 J	BRL	BRL
1,1-Dichloroethene	700	8.7 J	11 J	BRL	BRL
cis-1,2-Dichloroethene	7000	11 J	20 J	BRL	BRL
No RRS Exceedances					

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-14 2-4 10/2/2012
VOCs, ug/kg		
Discrete Sample Depth (ft.):		**3**
Not Detected		
SVOCs, ug/kg		
Not Detected		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-13 0-3 8/4/2012
Metals, Total, mg/kg		
Barium	1000	92.0
Chromium	1200	16.5
Pesticides, ug/kg		BRL
SVOCs, ug/kg		BRL
VOCs, ug/kg		BRL
No RRS Exceedances		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-25 2-4 10/2/2012
VOC s, ug/kg		BRL
Discrete Sample De pth (ft.) :		**3**
Not Detected		

Location ID Sample Depth (ft.) Sample Date	Regulatory Standard	S-26 3-5 10/2/2012
VOCs, ug/kg		BRL
Discrete Sample Depth (ft.):		**3**
Not Detected		



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SOIL ANALYTICAL RESULTS

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

SCALE AS SHOWN

FILE NO.
51537
DATE
03/04/14

FIGURE 3

O'BRIEN & GERE

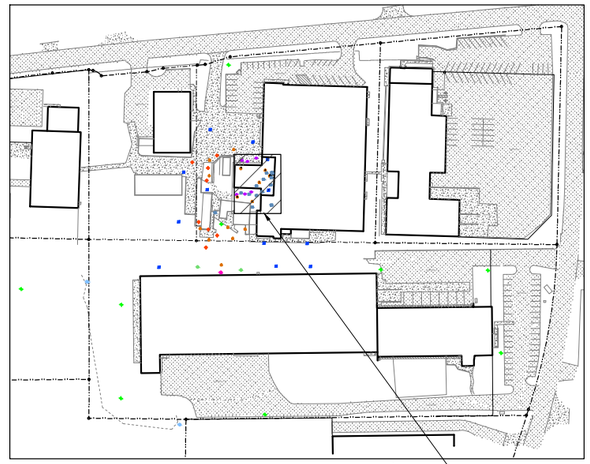
FIGURE 4

LEGEND

- GROUNDWATER MONITORING WELL
- CAP SOIL BORING LOCATION
- BASELINE SOIL SAMPLING BORING LOCATION
- SOIL ASSESSMENT LOCATION

NOTE:

1. SUBSTANCES NOT LISTED WERE NOT DETECTED.



KEY PLAN
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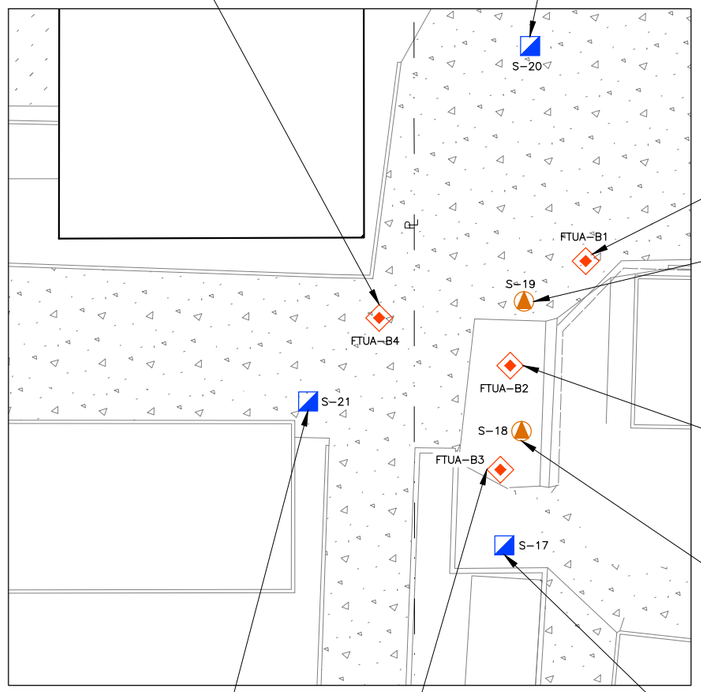

SAMPLE LOCATION FTUA-B4

Sample Depth (feet bgs)			5	10	15
Chemical Name	RRS	Unit	6/25/2011	6/25/2011	6/25/2011
cis-1,2-Dichloroethene	7,000	µg/kg	**58**	<7.1	<8.6
Tetrachloroethene (PCE)	500	µg/kg	<6.1	**34**	<8.6
Toluene	100,000	µg/kg	**7.9**	<7.1	<8.6
Trichloroethene (TCE)	500	µg/kg	<6.1	**92**	<8.6

SAMPLE LOCATION S-20

Sample Depth (feet bgs)			4	7.5	12.5	16
Chemical Name	RRS	Unit	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Acetone	400,000	µg/kg	**150**	< 120	< 110	< 95
Tetrachloroethene (PCE)	500	µg/kg	**13**	< 5.9	< 5.7	< 4.8

SAMPLE LOCATION FTUA-B1

Sample Depth (feet bgs)			0-2	5
Chemical Name	RRS	Unit	6/25/2011	6/25/2011
VOCs	Varies	µg/kg	BRL	BRL

SAMPLE LOCATION S-19

Sample Depth (feet bgs)			3	7.5	12.5	16
Chemical Name	RRS	Unit	9/28/2012	9/28/2012	9/28/2012	9/28/2012
1,2-Dichloroethene (Total)	500	µg/kg	**22**	< 5.5	< 5.6	< 5.5 UJ
cis-1,2-Dichloroethene	7,000	µg/kg	**22**	< 5.5	< 5.6	< 5.5 UJ
Trichloroethene (TCE)	500	µg/kg	**6.9**	< 5.5	< 5.6	< 5.5

SAMPLE LOCATION FTUA-B2

Sample Depth (feet bgs)			0-2	5	10
Chemical Name	RRS	Unit	6/25/2011	6/25/2011	6/25/2011
Tetrachloroethene (PCE)	500	µg/kg	<6.2	**24**	<9.7

SAMPLE LOCATION S-18

Sample Depth (feet bgs)			2	7.5	12.5	17.5
Chemical Name	RRS	Unit	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Ethylbenzene	70,000	µg/kg	**3.5**	< 6.8	< 5.2	< 5.9
m+p-Xylenes	1,000,000	µg/kg	**66**	< 6.8	< 5.2	< 5.9
o-Xylene	1,000,000	µg/kg	**4.4**	< 6.8	< 5.2	< 5.9
Xylenes, Total	1,000,000	µg/kg	**70.4**	< 6.8	< 5.2	< 5.9

SAMPLE LOCATION S-17

Sample Depth (feet bgs)			4	7.5	12.5	17.5
Chemical Name	RRS	Unit	9/28/2012	9/28/2012	9/28/2012	9/28/2012
1,2-Dichloroethene (Tota	500	µg/kg	< 5.0	< 5.7	< 6.1	**6.8**
cis-1,2-Dichloroethene	7,000	µg/kg	< 5.0	< 5.7	< 6.1	**6.8**

SAMPLE LOCATION S-21

Sample Depth (feet bgs)			6	8	12.5	17.5
Chemical Name	RRS	Unit	9/28/2012	9/28/2012	9/28/2012	9/28/2012
Tetrachloroethene (PCE)	500	µg/kg	**74**	< 6.0	< 5.3	< 6.0
Trichloroethene (TCE)	500	µg/kg	**5.0**	< 6.0	< 5.3	< 6.0

SAMPLE LOCATION FTUA-B3

Sample Depth (feet bgs)			0-2	5	10	15
Chemical Name	RRS	Unit	6/25/2011	6/25/2011	6/25/2011	6/25/2011
Acetone	400,000	µg/kg	<13	<15	**24**	<18
cis-1,2-Dichloroethene	7,000	µg/kg	<6.3	**24**	<8.5	<8.8
Cyclohexane	20,000	µg/kg	**18**	<7.7	<8.5	<8.8

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GA

SOIL ANALYTICAL RESULTS FORMER TRUCK UNLOADING AREA

1"=30' 30 0 30 60

1"=250' 250 0 250 500

FILE NO. 18806-51537-Figure 4.dwg
FEBRUARY 2014

O'BRIEN & GERE

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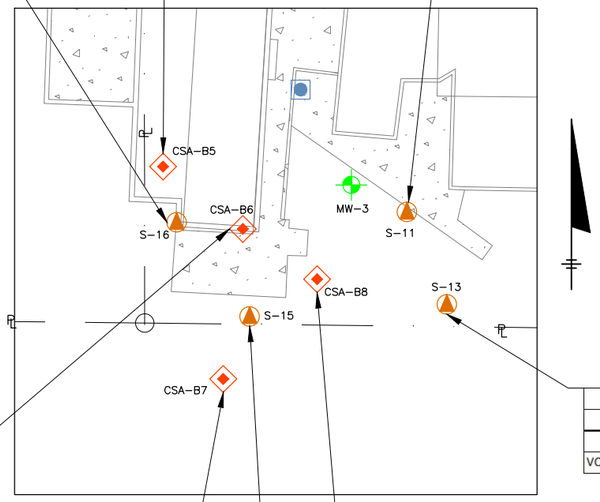
FIGURE 5

SAMPLE LOCATION S-16						
Sample Depth (feet bgs)			3	7.5	17.5	22.5
Chemical Name	RRS	Unit	10/2/2012	10/2/2012	10/2/2012	10/2/2012
1,2-Dichloroethene (Total)	500	µg/kg	< 4.5	**56**	< 5.0	**7.2**
cis-1,2-Dichloroethene	7,000	µg/kg	< 4.5	**56**	< 5.0	**7.2**
o-Xylene	1,000,000	µg/kg	< 4.5	**5.8**	< 5.0	< 5.5
Tetrachloroethene (PCE)	500	µg/kg	< 4.5	**15**	< 5.0	< 5.5
Trichloroethene (TCE)	500	µg/kg	< 4.5	**46**	< 5.0	< 5.5
Xylenes, Total	1,000,000	µg/kg	< 4.5	**5.8**	< 5.0	< 5.5

SAMPLE LOCATION CSA-B5			
Sample Depth (feet bgs)			0-2
Chemical Name	RRS	Unit	6/25/2011
VOCs	Varies	µg/kg	BRL

SAMPLE LOCATION S-11							
Sample Depth (feet bgs)			2	7	12	17	22
Chemical Name	RRS	Unit	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012
1,1-Dichloroethane	400,000	µg/kg	< 3.2	< 3.4	< 3.1	**6.1**	< 3.3
1,2-Dichloroethene (Total)	500	µg/kg	< 3.2	< 3.4	< 3.1	**5.0**	< 3.3
cis-1,2-Dichloroethene	7,000	µg/kg	< 3.2	< 3.4	< 3.1	**5.0**	< 3.3



SAMPLE LOCATION S-13			
Sample Depth (feet bgs)			4
Chemical Name	RRS	Unit	8/4/2012
VOCs	Varies	µg/kg	BRL

SAMPLE LOCATION CSA-B6					
Sample Depth (feet bgs)			0-2	10	15
Chemical Name	RRS	Unit	9/9/2011	9/9/2011	9/9/2011
cis-1,2-Dichloroethene	7,000	µg/kg	<8.4	**38**	<8.0

SAMPLE LOCATION CSA-B8					
Sample Depth (feet bgs)			0-2	5	10
Chemical Name	RRS	Unit	9/9/2011	9/9/2011	9/9/2011
Acetone	400,000	µg/kg	<200	**160**	<140
Tetrachloroethene (PCE)	500	µg/kg	**110**	**160**	<7.2

SAMPLE LOCATION CSA-B7				
Sample Depth (feet bgs)			0-2	14
Chemical Name	RRS	Unit	9/9/2011	9/9/2011
Acetone	400,000	µg/kg	**190**	<160

SAMPLE LOCATION S-15			
Sample Depth (feet bgs)			7.5
Chemical Name	RRS	Unit	10/2/2012
VOCs	Varies	µg/kg	BRL

LEGEND

- GROUNDWATER MONITORING WELL
- CAP SOIL BORING LOCATION
- BASELINE SOIL SAMPLING BORING LOCATION
- SOIL ASSESSMENT LOCATION

NOTE:

1. SUBSTANCES NOT LISTED WERE NOT DETECTED.

KEY PLAN
1"=250'–0"

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GA

SOIL ANALYTICAL RESULTS FORMER CONTAINER STORAGE AREA

1"=30' 30 0 30 60

1"=250' 250 0 250 500

FILE NO. 18806–51537–Figure 05.dwg
FEBRUARY 2014

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I:\Apollo–Tech.18806\51537.Apollo–Smyrna–V\Docs\DWG\Sheets\18806–50672–Figure 05.dwg Feb 25, 2014 – 11:16am

FIGURE 6

SAMPLE LOCATION S-2

Sample Depth (feet bgs)			3	7	11	19
Chemical Name	RRS	Unit	8/4/2012	8/4/2012	8/4/2012	8/4/2012
1,1,1-Trichloroethane	20,000	µg/kg	**260 J**	< 4.3	**6.7**	**20**
1,1-Dichloroethane	400,000	µg/kg	**29**	< 4.3	< 4.8	< 5.0
1,2-Dichloroethene (Total)	500	µg/kg	**370**	< 4.3	**19**	**37**
Acetone	400,000	µg/kg	**16,000**	< 86	< 96	< 99
cis-1,2-Dichloroethene	7,000	µg/kg	**370**	< 4.3	**19**	**37**
Cyclohexane	20,000	µg/kg	**81**	< 4.3	< 4.8	< 5.0
Ethylbenzene	70,000	µg/kg	**44**	< 4.3	< 4.8	< 5.0
m+p-Xylenes	1,000,000	µg/kg	**1,400**	< 4.3	< 4.8	**5.4**
Methylcyclohexane	NE	µg/kg	**32**	< 4.3	< 4.8	< 5.0
Methylene chloride (Dichloromethane)	500	µg/kg	**42**	< 17	< 19	< 20
o-Xylene	1,000,000	µg/kg	**540**	< 4.3	< 4.8	< 5.0
Tetrachloroethene (PCE)	500	µg/kg	**2,400**	< 4.3	**11**	**38**
Toluene	100,000	µg/kg	**400**	< 4.3	< 4.8	**6.4**
Trichloroethene (TCE)	500	µg/kg	**1,000**	< 4.3	**25**	**57**
Xylenes, Total	1,000,000	µg/kg	**1,900**	< 4.3	< 4.8	**8.4**

SAMPLE LOCATION OBG-7

Sample Depth (feet bgs)			0-2
Chemical Name	RRS	Unit	3/25/2013
1,1,1-Trichloroethane	20,000	µg/kg	**4,300 J**
Acetone	400,000	µg/kg	**1,000,000**
Ethylbenzene	70,000	µg/kg	**4,000 J**
Tetrachloroethene (PCE)	500	µg/kg	**52,000**
Toluene	100,000	µg/kg	**7,600 J**
Trichloroethene (TCE)	500	µg/kg	**39,000**
Xylenes, Total	1,000,000	µg/kg	**19,000**

SAMPLE LOCATION S-7

Sample Depth (feet bgs)			2	8
Chemical Name	RRS	Unit	8/4/2012	8/4/2012
1,1,1-Trichloroethane	20,000	µg/kg	**78**	**25**
1,2-Dichloroethene (Total)	500	µg/kg	**17**	**7.2**
Acetone	400,000	µg/kg	**83**	< 77
cis-1,2-Dichloroethene	7,000	µg/kg	**17**	**7.2**
Ethylbenzene	70,000	µg/kg	< 3.8	**10**
m+p-Xylenes	1,000,000	µg/kg	< 3.8	**26**
Methylcyclohexane	NE	µg/kg	< 3.8	**15**
o-Xylene	1,000,000	µg/kg	< 3.8	**23**
Tetrachloroethene (PCE)	500	µg/kg	**210**	**2,300**
Toluene	100,000	µg/kg	< 3.8	**59**
Trichloroethene (TCE)	500	µg/kg	**270 J**	**140**
Xylenes, Total	1,000,000	µg/kg	< 3.8	**49**

SAMPLE LOCATION S-9

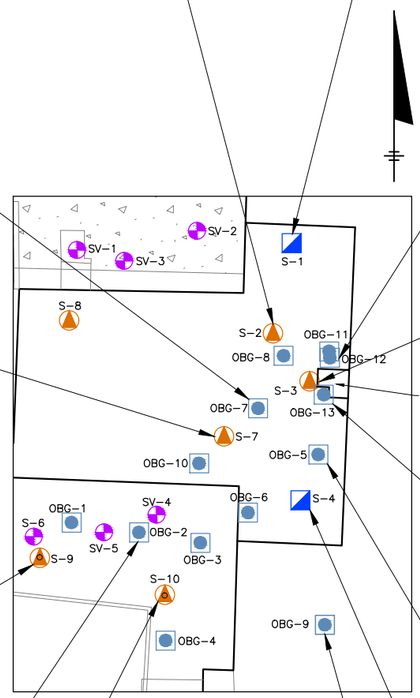
Sample Depth (feet bgs)			2
Chemical Name	RRS	Unit	8/4/2012
1,2-Dichloroethene (Total)	500	µg/kg	**5,400**
cis-1,2-Dichloroethene	7,000	µg/kg	**5,400**
Ethylbenzene	70,000	µg/kg	**1,900**
m+p-Xylenes	1,000,000	µg/kg	**9,800**
Methylcyclohexane	NE	µg/kg	**2,700**
o-Xylene	1,000,000	µg/kg	**7,400**
Tetrachloroethene (PCE)	500	µg/kg	**53,000**
Trichloroethene (TCE)	500	µg/kg	**3,100**
Xylenes, Total	1,000,000	µg/kg	**17,000**

SAMPLE LOCATION OBG-2

Sample Depth (feet bgs)			0-3.5
Chemical Name	RRS	Unit	3/23/2013
1,1,1-Trichloroethane	20,000	µg/kg	**320 J**
Acetone	400,000	µg/kg	**32,000**
Ethylbenzene	70,000	µg/kg	**280 J**
Tetrachloroethene (PCE)	500	µg/kg	**8,200**
Toluene	100,000	µg/kg	**2,100**
Trichloroethene (TCE)	500	µg/kg	**7,100**
Xylenes, Total	1,000,000	µg/kg	**1,500**

SAMPLE LOCATION S-10

Sample Depth (feet bgs)			2
Chemical Name	RRS	Unit	8/4/2012
1,1,1-Trichloroethane	20,000	µg/kg	**6.4**
1,1-Dichloroethane	400,000	µg/kg	**19**
1,2-Dichloroethene (Total)	500	µg/kg	**65**
cis-1,2-Dichloroethene	7,000	µg/kg	**65**
m+p-Xylenes	1,000,000	µg/kg	**6.4**
o-Xylene	1,000,000	µg/kg	**6.0**
Tetrachloroethene (PCE)	500	µg/kg	**6.1**
Trichloroethene (TCE)	500	µg/kg	**9.1**
Xylenes, Total	1,000,000	µg/kg	**12**



SAMPLE LOCATION S-1

Sample Depth (feet bgs)			0-1	6	11	17	21
Chemical Name	RRS	Unit	8/4/2012	8/4/2012	8/4/2012	8/4/2012	8/4/2012
Acetone	400,000	µg/kg	**79,000**	< 12,000	< 54,000	**420 J**	< 49,000
Ethylbenzene	70,000	µg/kg	**13,000**	**1,500**	**3,000**	**5.6**	**3,700**
Isopropylbenzene (Cumene)	21,880	µg/kg	< 1,900	< 590	**3,200**	< 4.6	< 2,400
m+p-Xylenes	1,000,000	µg/kg	**60,000**	**9,300**	12,000	**27**	**15,000**
Methylcyclohexane	NE	µg/kg	**3,500**	**3,700**	**4,500**	**8.4**	< 2,400
o-Xylene	1,000,000	µg/kg	**22,000**	**8,700**	**5,900**	**14**	**5,400**
Tetrachloroethene (PCE)	500	µg/kg	**190,000**	**160,000**	**110,000**	**130**	**68,000**
Toluene	100,000	µg/kg	**66,000**	**6,100**	**9,300**	**23**	**21,000**
Trichloroethene (TCE)	500	µg/kg	**7,600**	**1,300**	< 2,700	**5.1**	**2,600**
Xylenes, Total	1,000,000	µg/kg	**82,000**	**18,000**	**18,000**	**40**	**21,000**

SAMPLE LOCATION OBG-12

Sample Depth (feet bgs)			0-2	5
Chemical Name	RRS	Unit	10/25/2013	10/25/2013
Acetone	400,000	µg/kg	**1,000,000**	**3,700,000**
Ethylbenzene	70,000	µg/kg	**45,000 J**	**66,000**
Tetrachloroethene (PCE)	500	µg/kg	**1,100,000**	**1,700,000**
Toluene	100,000	µg/kg	**66,000**	**90,000**
Trichloroethene (TCE)	500	µg/kg	**210,000**	**310,000**
Xylenes, Total	1,000,000	µg/kg	**190,000**	**300,000**

SAMPLE LOCATION S-3

Sample Depth (feet bgs)			4	7
Chemical Name	RRS	Unit	8/4/2012	8/4/2012
Acetone	400,000	µg/kg	**1,600,000**	**940,000**
Cyclohexane	20,000	µg/kg	**17,000**	< 2,300
Ethylbenzene	70,000	µg/kg	**86,000**	**49,000**
Isopropylbenzene (Cumene)	21,880	µg/kg	**3,400**	**3,000**
m+p-Xylenes	1,000,000	µg/kg	**260,000**	**150,000**
Methyl acetate	NE	µg/kg	< 2,200	**10,000**
Methylcyclohexane	NE	µg/kg	**3,900**	**4,900**
o-Xylene	1,000,000	µg/kg	**50,000**	**27,000**
Tetrachloroethene (PCE)	500	µg/kg	**310,000**	**370,000**
Toluene	100,000	µg/kg	**79,000**	**76,000**
Trichloroethene (TCE)	500	µg/kg	**180,000**	**190,000**
Xylenes, Total	1,000,000	µg/kg	**310,000**	**180,000**

SAMPLE LOCATION OBG-13

Sample Depth (feet bgs)			0-3.5
Chemical Name	RRS	Unit	10/25/2013
Acetone	400,000	µg/kg	**3,200,000**
Cyclohexane	20,000	µg/kg	**9,800 J**
Ethylbenzene	70,000	µg/kg	**46,000**
Tetrachloroethene (PCE)	500	µg/kg	**270,000**
Toluene	100,000	µg/kg	**76,000**
Trichloroethene (TCE)	500	µg/kg	**140,000**
Xylenes, Total	1,000,000	µg/kg	**180,000**

SAMPLE LOCATION OBG-5

Sample Depth (feet bgs)			3.5-7
Chemical Name	RRS	Unit	3/24/2013
1,1,1-Trichloroethane	20,000	µg/kg	**26,000**
Acetone	400,000	µg/kg	**720,000**
Ethylbenzene	70,000	µg/kg	**12,000**
Methylcyclohexane	NE	µg/kg	**5,300 J**
Tetrachloroethene (PCE)	500	µg/kg	**220,000**
Toluene	100,000	µg/kg	**43,000**
Trichloroethene (TCE)	500	µg/kg	**110,000**
Xylenes, Total	1,000,000	µg/kg	**55,000**

SAMPLE LOCATION OBG-9

Sample Depth (feet bgs)			0-2	2-4
Chemical Name	RRS	Unit	3/26/2013	3/27/2013
1,1,1-Trichloroethane	20,000	µg/kg	**23,000 J**	**510,000**
Acetone	400,000	µg/kg	**1,600,000 J**	**610,000 J**
Methylene chloride	500	µg/kg	**120,000 J**	<100,000
Tetrachloroethene (PCE)	500	µg/kg	**5,500,000**	**2,400,000**
Toluene	100,000	µg/kg	**290,000**	**88,000 J**
Trichloroethene (TCE)	500	µg/kg	**4,200,000**	**1,100,000**

SAMPLE LOCATION S-4

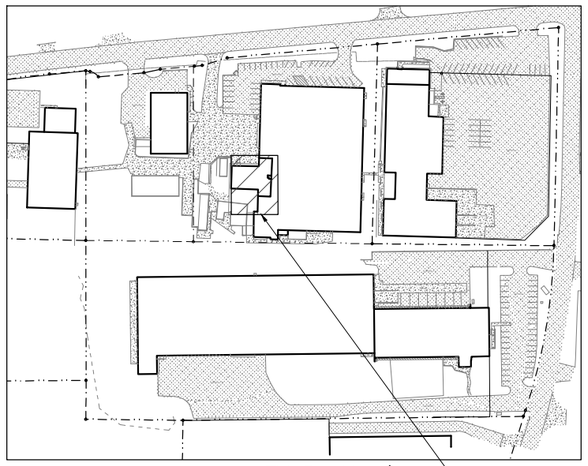
Sample Depth (feet bgs)			4	6
Chemical Name	RRS	Unit	8/4/2012	8/4/2012
1,1,1-Trichloroethane	20,000	µg/kg	**32,000**	**180,000**
1,1-Dichloroethene	700	µg/kg	< 2,500	**3,700**
Acetone	400,000	µg/kg	**970,000**	**150,000**
Ethylbenzene	70,000	µg/kg	< 2,500	**18,000**
Isopropylbenzene (Cumene)	21,880	µg/kg	< 2,500	**2,200**
m+p-Xylenes	1,000,000	µg/kg	**6,500**	**69,000**
Methylcyclohexane	NE	µg/kg	< 2,500	**20,000**
Methylene chloride (Dichloromethane)	500	µg/kg	**24,000**	< 6,900
o-Xylene	1,000,000	µg/kg	**2,600**	**18,000**
Tetrachloroethene (PCE)	500	µg/kg	**40,000**	**270,000**
Toluene	100,000	µg/kg	**9,300**	**71,000**
Trichloroethene (TCE)	500	µg/kg	**54,000**	**230,000**
Xylenes, Total	1,000,000	µg/kg	**9,100**	**87,000**

LEGEND

- GROUNDWATER MONITORING WELL
- CAP SOIL BORING LOCATION
- BASELINE SOIL SAMPLING BORING LOCATION
- SOIL VAPOR EXTRACTION WELL
- SUPPLEMENTAL SOIL BORING LOCATION

NOTE:

1. SUBSTANCES NOT LISTED WERE NOT DETECTED.



KEY PLAN
1"=250'–0"

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GA

SOIL ANALYTICAL RESULTS CLOSED BATCH ROOM SUMP

1"=30' 30 0 30 60

FILE NO. 18806–51537–Figure 6.dwg
FEBRUARY 2014

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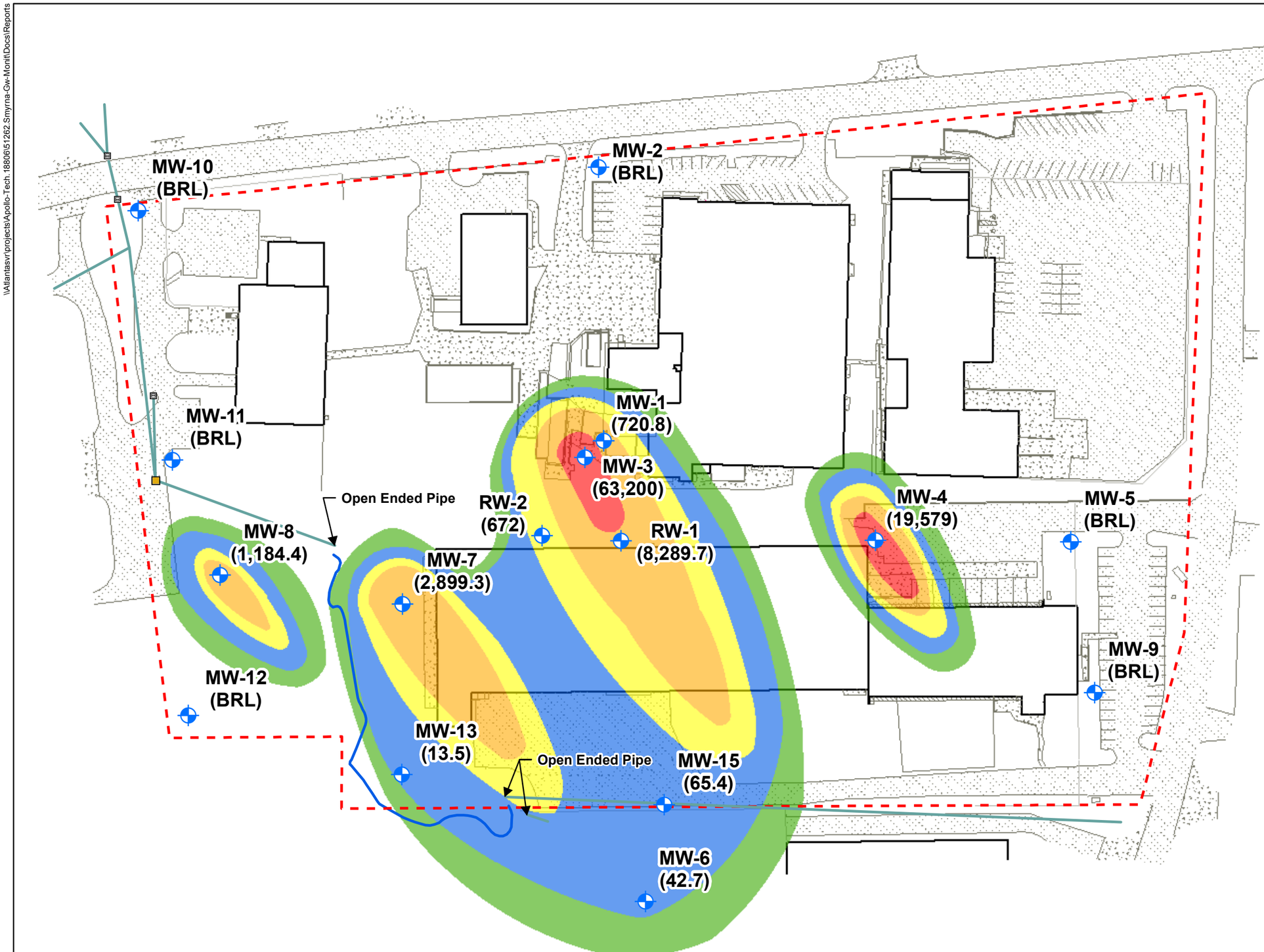
FIGURE 7



LEGEND

- Monitoring Well
- Catch Basin
- Drop Inlet
- Stormwater Pipe
- Stormwater Channel
- Property_Boundary

Total VOC Concentrations

- 0.1-10 (µg/L)
- 10-100 (µg/L)
- 100-1,000 (µg/L)
- 1,000-10,000 (µg/L)
- >10,000 (µg/L)

(17,680) Concentration in µg/L
(BRL) Below Reporting Limits

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

APPROXIMATE TOTAL VOC CONCENTRATION IN GROUNDWATER DECEMBER 2013

0 50 100 200
Feet

03/04/14
FILE NUM 51537

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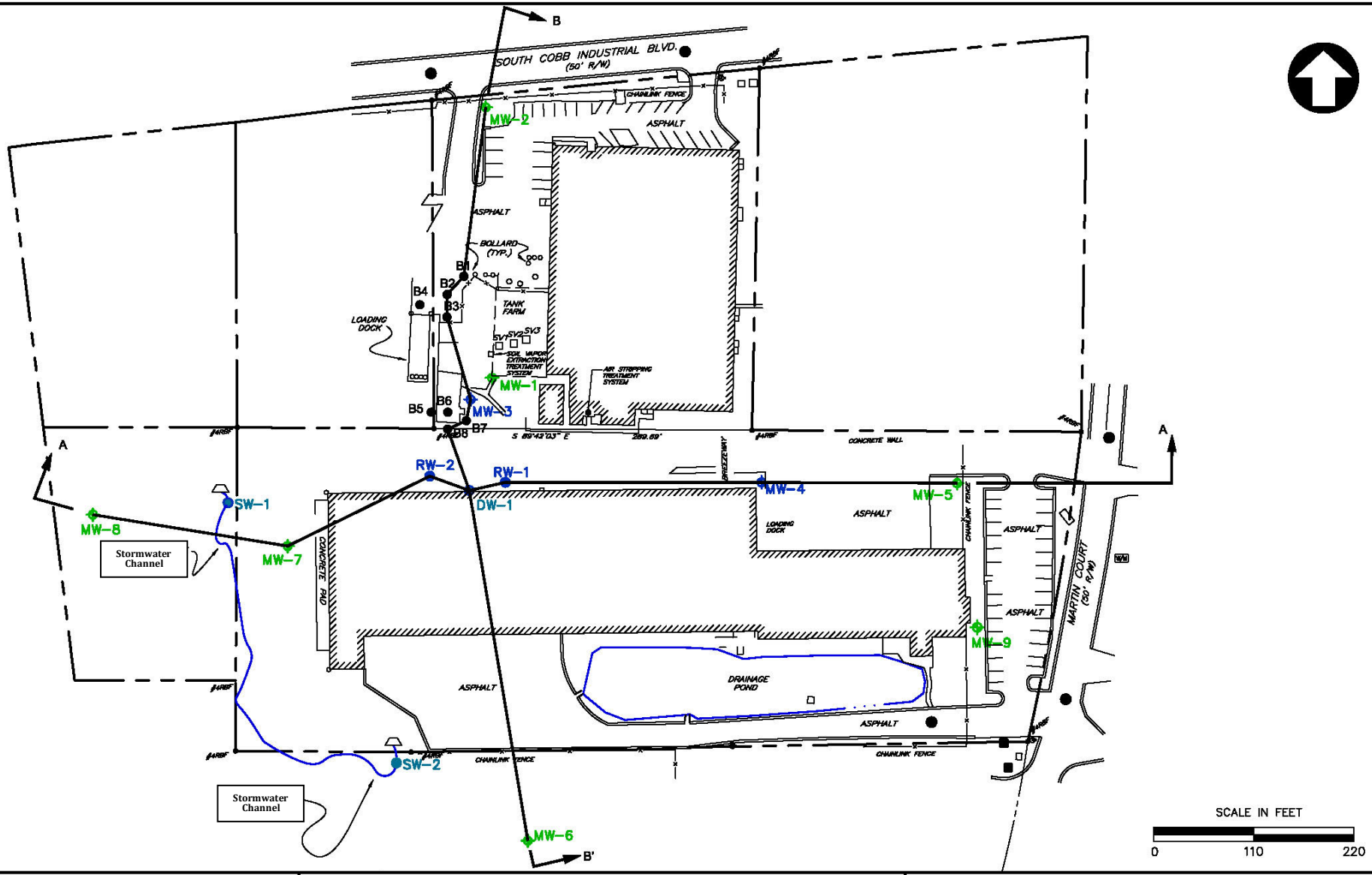

Source: Historic Mapping Prepared by Others Provided for Use by Apollo

FIGURE 8
LOCATION OF CROSS SECTIONS
51537 03/04/14

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

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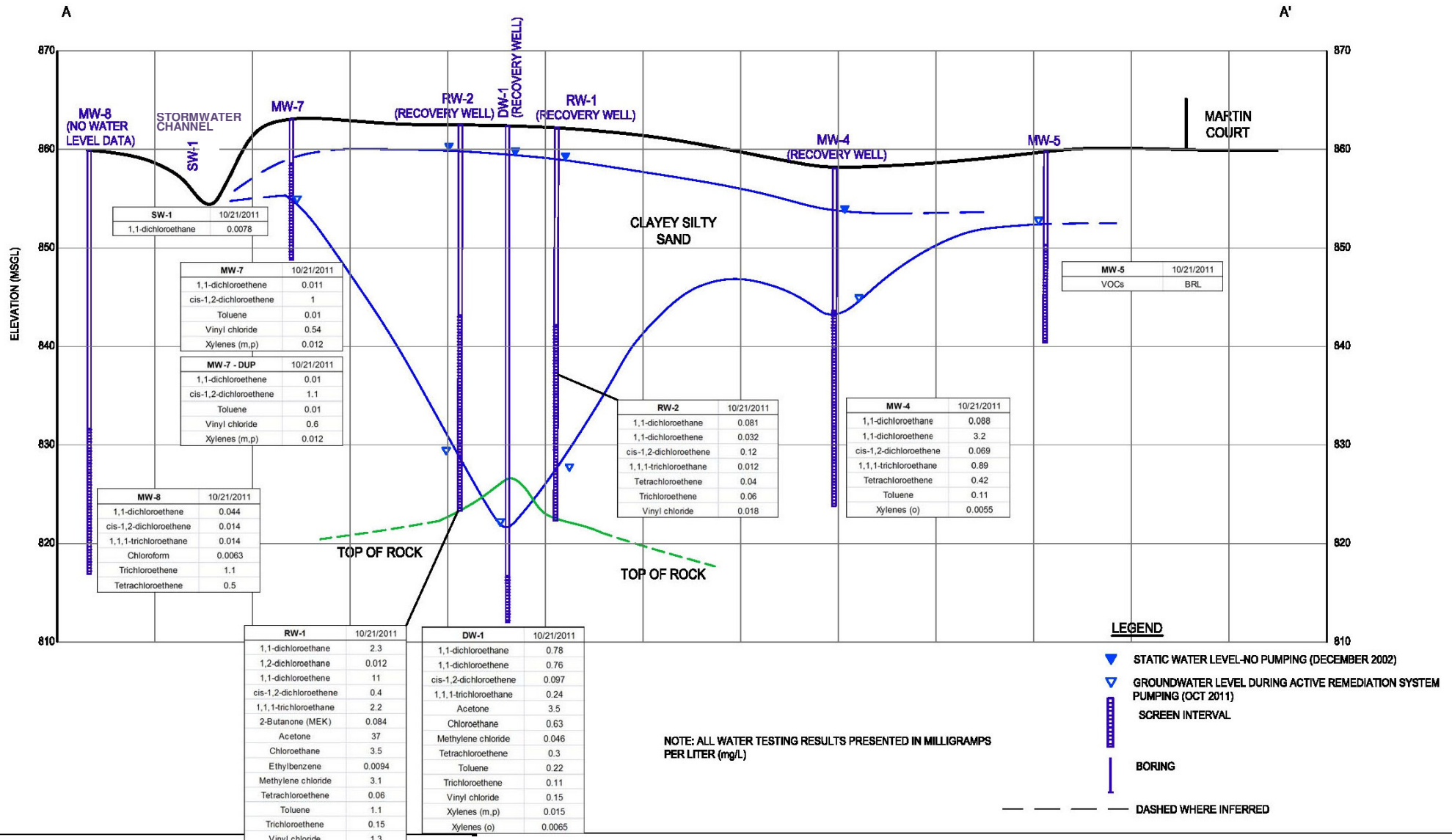
SCALE AS SHOWN



Source: Historic Mapping Prepared by Others Provided for Use by Apollo

FIGURE 9
CROSS SECTION A-A'
51537 03/04/14

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA. COBB COUNTY. GEORGIA

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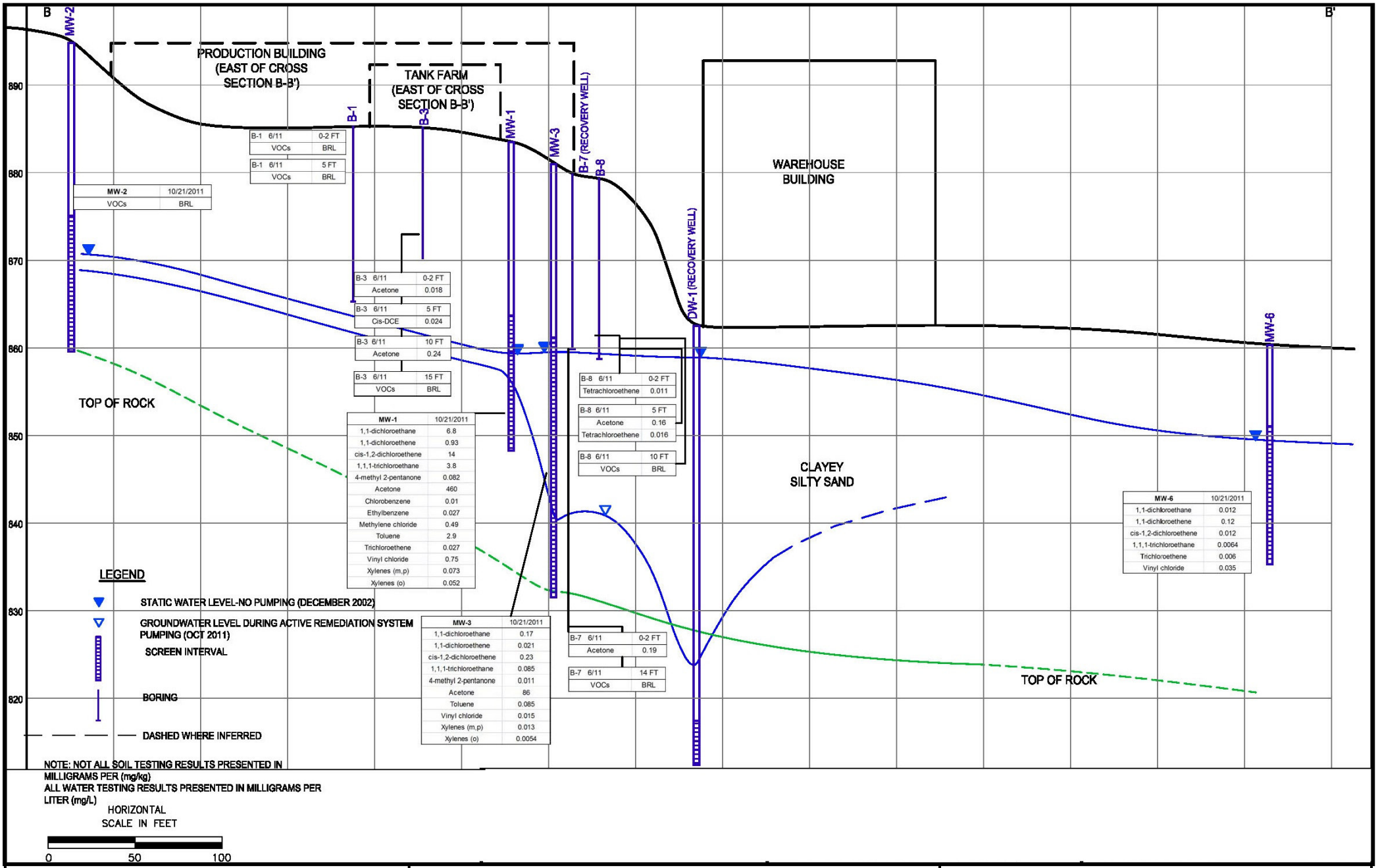
SCALE AS SHOWN



Source: Historic Mapping Prepared by Others Provided for Use by Apollo

FIGURE 10
CROSS SECTION B-B'
51537 02/21/14

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA. COBB COUNTY. GEORGIA

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SCALE AS SHOWN

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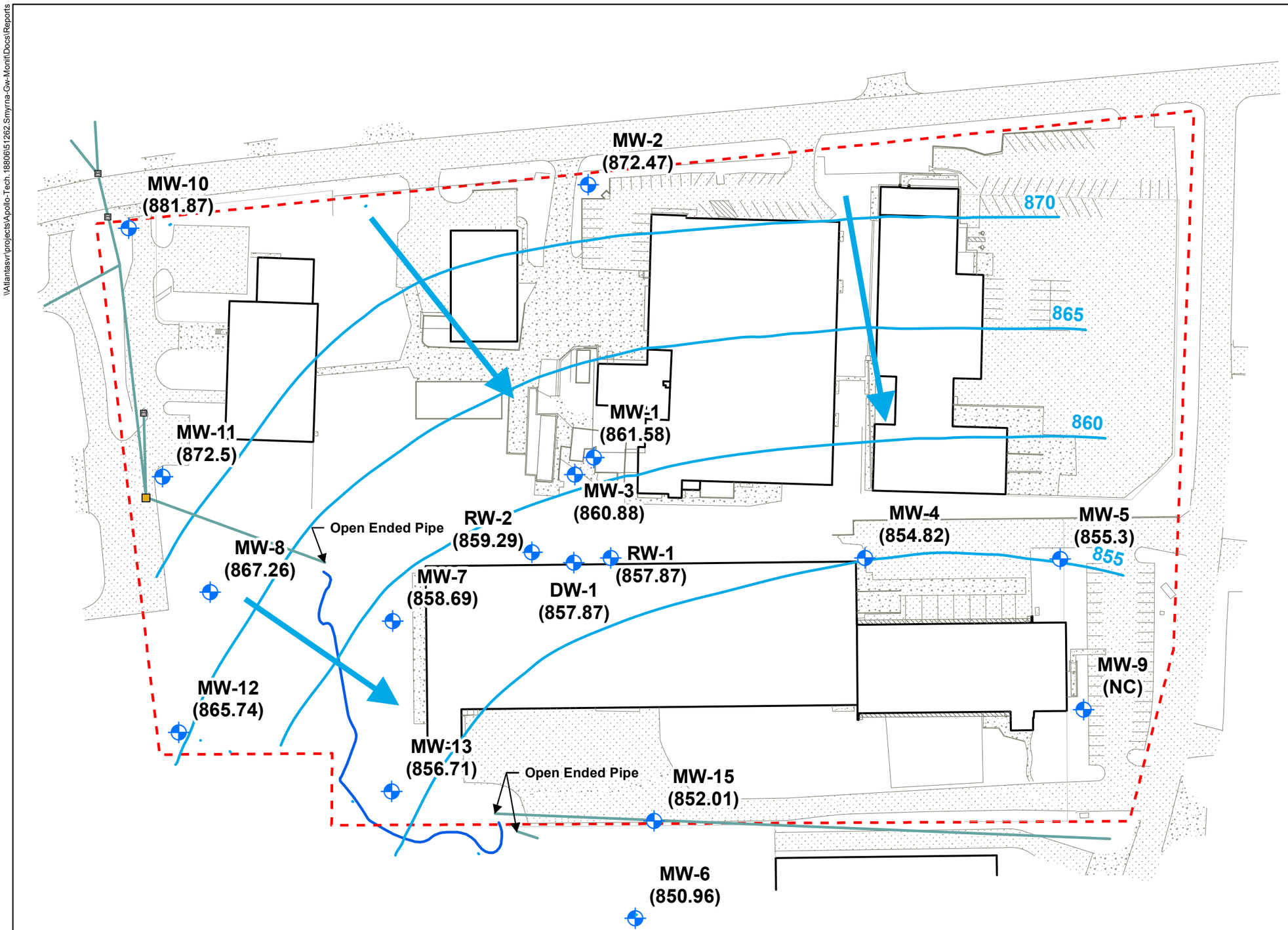
FIGURE 11



LEGEND

- Catch Basin
- Drop Inlet
- Potentiometric Contour
- Stormwater Channel
- Stormwater Pipe
- Property_Boundary
- (860.1) Groundwater Elevation in feet mean sea level (FMSL)
- Direction of groundwater flow
- NC Not Calculated

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

POTENTIOMETRIC SURFACE DECEMBER 3, 2013

0 50 100 200
Feet

03/04/14
FILE NUM 51537

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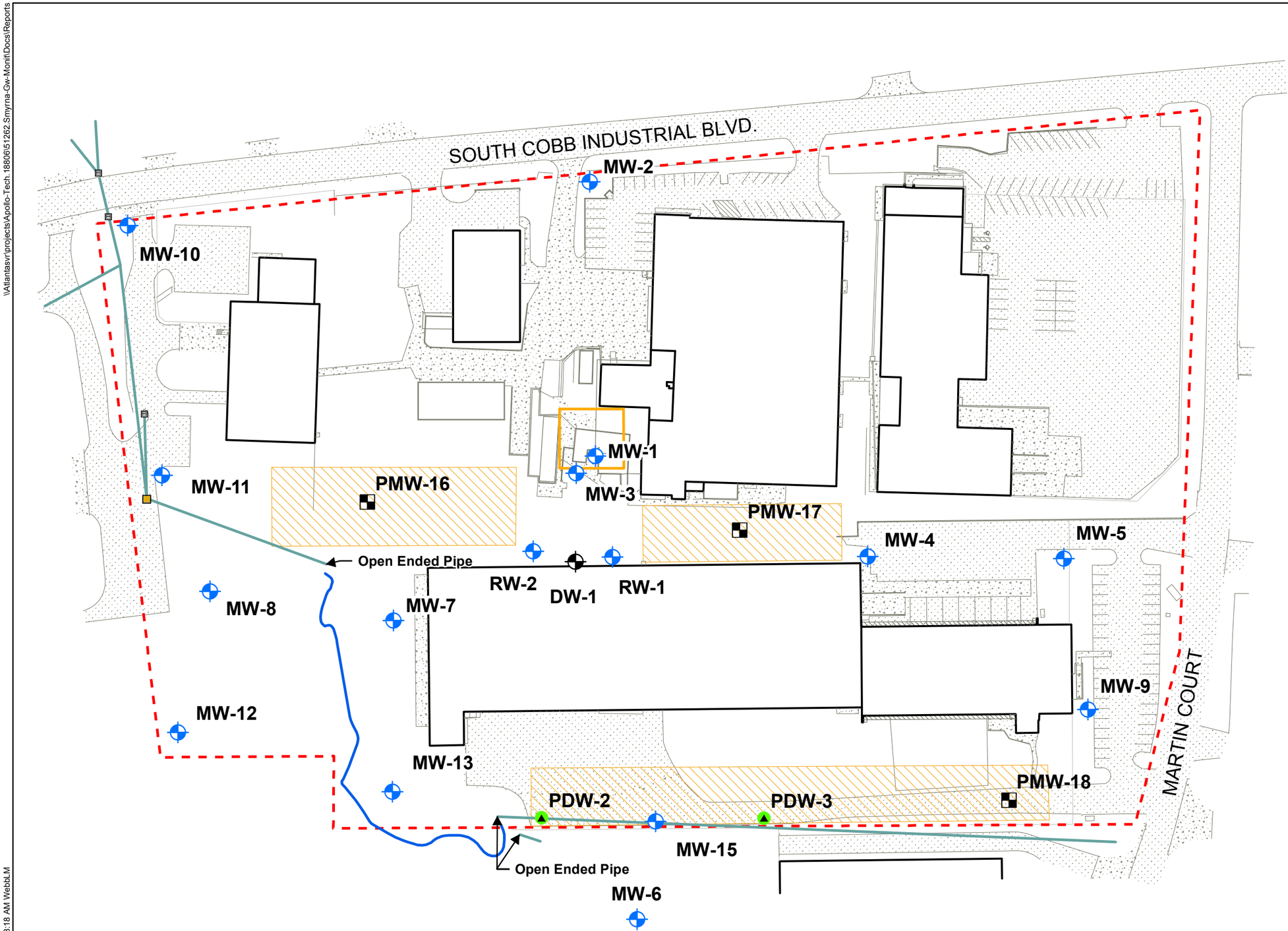

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FIGURE 12

N

LEGEND

- Existing Deep Monitoring Well
- Existing Shallow Monitoring Well
- Proposed Bedrock Well
- Proposed Overburden Well
- Catch Basin
- Drop Inlet
- Stormwater Pipe
- Stormwater Channel
- ISCO Pilot Test Area
- Proposed MIP Investigation
- Property Boundary

APOLLO TECHNOLOGIES, INC.
1850 S. COBB INDUSTRIAL BLVD.
SMYRNA, COBB COUNTY, GEORGIA

CONCEPTUAL INVESTIGATION AND REMEDIATION PLAN

0 50 100 200
Feet

03/04/14
FILE NUM 51537

O'BRIEN & GERE

Appendix A

Voluntary Remediation Program Application and Checklist

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Apollo Industries, Inc. (Callas Family Partnership, L.P. / AMC Ventures, Inc.)				
CONTACT PERSON/TITLE	Maria Callas, Owner				
ADDRESS	1850 South Cobb Industrial Boulevard Smyrna, Cobb County, GA 30082				
PHONE	770-443-0210	**FAX**	678-241-0020	**E-MAIL**	mcallas@apolloind.com

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Maureen Hoke			**GA PE/PG NUMBER**	32501
COMPANY	O'Brien & Gere Engineers, Inc.				
ADDRESS	8200 Roberts Drive, Suite 450 Atlanta, GA 30350				
PHONE	770-781-1700	**FAX**	770-205-9604	**E-MAIL**	maureen.hoke@obg.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:

(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
- (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
- (C) A facility required to have a permit under Code Section 12-8-66.

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.

In order to be considered a participant under the VRP:
- (1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.
- (2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE	Maria Callas mc		
APPLICANT'S NAME/TITLE (PRINT)	MARIA CALLAS COB	**DATE**	3/4/14

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10333	Date HSI Site listed	8-15-1994
HSI Facility Name	Apollo Industries, Inc.	NAICS CODE	339999
PROPERTY INFORMATION			
TAX PARCEL ID	17-0678-00-040, 17-0678-00-130 17-0678-00-050, 17-0678-00-030 17-0619-00-200, 17-0618-00-240	PROPERTY SIZE (ACRES)	12.83
PROPERTY ADDRESS	1850 South Cobb Industrial Boulevard SE		
CITY	Smyrna	COUNTY	Cobb
STATE	GA	ZIPCODE	30082
LATITUDE (decimal format)	33.8368	LONGITUDE (decimal format)	-84.5007
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Maria Callas	PHONE #	770-433-0210
MAILING ADDRESS	1850 South Cobb Industrial Boulevard SE		
CITY	Smyrna	STATE/ZIPCODE	30082

ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	**Check No. 300164 Dated 5/31/2012**	
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	**Appendix B**	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	**Appendix B**	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	**Included**	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a **PROJECTED**	**Appendix D**	

	MILESTONE SCHEDULE for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule. The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:		
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;	**Appendix D**	
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;	**Appendix D**	
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and	**Appendix D**	
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.	**Appendix D**	
6.	**SIGNED AND SEALED PE/PG CERTIFICATION** AND SUPPORTING DOCUMENTATION: "I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances. Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Maureen T. Hoke # 32501 — Printed Name and GA PE/PG Number 03/04/2014 — Date Signature and Stamp GEORGIA REGISTERED No 032501 PROFESSIONAL ENGINEER MAUREEN T. HOKE		

Appendix B

Legal Description and Plat Map

South Cobb Industrial Boulevard
Property Description

All that tract or parcel of land lying and being in Land Lots 618, 619, 678 and 679 of the 17th District, 3rd Section, Cobb County, Georgia and being more particularly described as follows.
Beginning at a point found at the intersection of a line common to Land Lots 619 and 678 of the 17th District, 3rd Section, Cobb County, Georgia with the south right of way of South Cobb Industrial Boulevard (having a 50' right of way) and thence leaving the said point of beginning and running with the said right of way of South Cobb Industrial Boulevard the following courses and distances:

South 80° 26' 26" East, 7.30 feet to a point; thence,

16.96 feet along the arc of a curve deflecting to the right and having a radius of 21.00 feet and a chord bearing and distance of South 57° 18' 03" East, 16.50 feet to a point; thence,

North 84° 47' 19" East, 74.96 feet to a point; thence,

North 78° 11' 35" East, 27.95 feet to a point; thence,

North 84° 47' 19" East, 56.41 feet to a point; thence,

North 84° 47' 19" East, 13.12 feet to a point; thence,

North 72° 54' 44" East, 42.85 feet to a point; thence,

North 84° 45' 54" East, 548.91 feet to a ½" rebar found at the intersection of the said right of way of South Cobb Industrial Boulevard with the west right of way of Martin Court (having a 50' right of way); thence, running with the said right of way of Martin Court the following courses and distances:

South 01° 12' 40" West, 359.90 feet to a ½" rebar found; thence,

276.73 feet along the arc of a curve deflecting to the right and having a radius of 930.37 feet and a chord bearing and distance of South 09° 46' 45" West, 275.71 feet to a point; thence,

South 18° 27' 33" West, 10.37 feet to a point; thence, leaving the said right of way of Martin Court and running

South 89° 20' 37" West, 561.94 feet to a point; thence,

North 89° 22' 23" West, 160.00 feet to a ½" rebar in concrete found; thence,

North 00° 05' 21" East, 64.16 feet to a ½" rebar found; thence,

South 89° 30' 19" West, 155.86 feet to a point; thence,

North 06° 51' 17" West, 485.05 feet to a point found on the said right of way of South Cobb Industrial Boulevard; thence, running with the said right of way of South Cobb Industrial Boulevard the following courses and distances:

155.46 feet along the arc of a curve deflecting to the right and having a radius of 1121.14 feet and a chord bearing and distance of North 80° 48' 59" East, 155.34 feet to a point; thence,

North 84° 47' 19" East, 60.25 feet to the point of beginning, containing 557,033 square feet or 12.7877 acres of land, more or less.

The herein described tract or parcel of land is subject to all right of ways and easements, both recorded and unrecorded.

TITLE NOTES

I. ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF COBB COUNTY, GEORGIA - COMMUNITY PANEL NUMBERS 13067C0209 G & 13067C0228 G, DATED DEC. 16, 2008, A PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA

II. SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF SOUTH COBB INDUSTRIAL BOULEVARD AND MARTIN COURT.

III. AS OF THE DATE OF THIS SURVEY, TITLE TO SUBJECT PROPERTY APPEARS TO LIE VESTED IN AMC VENTURES, INC., A GEORGIA CORPORATION, PER DEED RECORDED AMONG THE LAND RECORDS OF COBB COUNTY, GEORGIA IN DEED BOOK 14700, PAGE 5770.

IV. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RIGHTS OF WAY, RECORDED AND UNRECORDED.

V. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE REPORT (COMMITMENT NO. 81002.21, EFFECTIVE DATE OF MARCH 1, 2012), PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, AND RECEIVED ON MAY 2, 2012. APPLICABLE ENCUMBRANCES AND SPECIAL EXCEPTIONS ARE SHOWN BELOW AND/OR ON THIS SURVEY.

7. RESTRICTIONS FOR SOUTH COBB INDUSTRIAL PARK BY SHEA/RUSTIN, INC., EVIDENCED BY ATTACHMENT TO WARRANTY DEED FROM SHEA/RUSTIN, INC. TO DRUMTOP ATLANTA SHIPPERS ASSOCIATION, INC., DATED DECEMBER 21, 1971, FILED DECEMBER 22, 1971, DEED BOOK 1277, PAGE 158, COBB COUNTY, GEORGIA RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

8. EASEMENT FROM SHEA-RUSTIN INC. TO GEORGIA POWER COMPANY, DATED SEPTEMBER 28, 1971, FILED FEBRUARY 16, 1972, RECORDED IN DEED BOOK 1290, PAGE 260, AFORESAID RECORDS; (DOCUMENT NOT PROVIDED).

9. EXCEPTION IS TAKEN TO THE EXECUTION, LACK OF OFFICIAL WITNESS/NOTARY PUBLIC AS REVEALED ON THAT CERTAIN EXECUTOR'S DEED, JOINED BY DEVISEES FROM GEORGE MICHAEL DAIGH, EXECUTOR OF THE ESTATE OF GEORGIA B. DAIGH, AND FLORA M. DAIGH AND PATRICIA D. JACOBSON, TO GEORGE MICHAEL DAIGH, DATED JULY 31, 1984, FILED AUGUST 9, 1984, RECORDED IN DEED BOOK 3216, PAGE 383, AFORESAID RECORDS; (MAY AFFECT SUBJECT PROPERTY, CONDITION NOT PLOTTABLE).

10. ALL MATTERS AFFECTING SUBJECT PROPERTY AS SHOWN ON THE FOLLOWING PLATS:
(A) STYLED AIR SERVICE COMPANY BY ERNEST L. BOGGUS, GRLS NO. 1262 & 496 DATED DECEMBER 3, 1970, FILED DECEMBER 31, 1970, RECORDED IN PLAT BOOK 50, PAGE 159, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(B) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES & ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GRLS NO. 1104, DATED DECEMBER 15, 1971, RECORDED IN PLAT BOOK 53, PAGE 111, AFORESAID RECORDS; AND (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(C) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES & ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GA RLS NO. 1104, DATED DECEMBER 15, 1971, REVISED SEPTEMBER 22, 1972, FILED OCTOBER 3, 1972, RECORDED IN PLAT BOOK 56, PAGE 58, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

11. RIGHTS, TITLE, INTERESTS AND EASEMENTS ACQUIRED IN RIGHT OF WAY DEED FROM SHEA/RUSTIN, INC. TO COBB COUNTY, GEORGIA, DATED OCTOBER 15, 1976, FILED FEBRUARY 7, 1978, RECORDED IN DEED BOOK 1860, PAGE 384, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

12. ALL MATTERS AFFECTING SUBJECT PROPERTY AS SHOWN ON THE FOLLOWING PLATS:
(A) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES &ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GRLS NO. 1104, DATED DECEMBER 15, 1971, RECORDED IN PLAT BOOK 53, PAGE 111, AFORESAID RECORDS; AND (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(B) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES & ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GRLS NO. 1104, DATED DECEMBER 15, 1971, REVISED SEPTEMBER 22, 1972, FILED OCTOBER 3, 1972, RECORDED IN PLAT BOOK 56, PAGE 58, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

13. RIGHT OF WAY DEED FROM AMC VENTURES, INC. TO COBB COUNTY, GEORGIA, DATED APRIL 26, 2005, FILED MAY 10, 2005, RECORDED IN DEED BOOK 14151, PAGE 5492, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

14. ALL MATTERS AFFECTING SUBJECT PROPERTY AS SHOWN ON THE FOLLOWING PLATS:
(A) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES & ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GRLS NO. 1104, DATED DECEMBER 15, 1971, RECORDED IN PLAT BOOK 53, PAGE 111, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(B) STYLED SHEA-RUSTIN, INC. BY ROGER L. CORDES & ASSOCIATES, BEARING THE SEAL OF R. L. CORDES, GRLS NO. 1104, DATED DECEMBER 15, 1971, REVISED SEPTEMBER 22, 1972, FILED OCTOBER 3, 1972, RECORDED IN PLAT BOOK 56, PAGE 58, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY)

15. RIGHT OF WAY EASEMENT FROM JOHN T. CARROLL TO PLANTATION PIPE LINE COMPANY, A DELAWARE CORPORATION, DATED JULY 21, 1941, FILED AUGUST 11, 1941, RECORDED IN DEED BOOK 142, PAGE 613, AFORESAID RECORDS; AS SUPPLEMENTED AND AMENDED BY EASEMENT GRANT AND AMENDMENT BETWEEN B. A. MARTIN AND PLANTATION PIPE LINE COMPANY, DATED JULY 2, 1968, FILED JULY 12, 1968, RECORDED IN DEED BOOK 1047, PAGE 662, AFORESAID RECORDS; (DOES NOT AFFECT SUBJECT PROPERTY).

16. RESTRICTIONS FOR SOUTH COBB INDUSTRIAL PARK BY SHEA/RUSTIN, INC., EVIDENCED BY ATTACHMENT TO WARRANTY DEED FROM SHEA/RUSTIN, INC. TO DRUMTOP ATLANTA SHIPPERS ASSOCIATION, INC., DATED DECEMBER 21, 1971, FILED DECEMBER 22, 1971, DEED BOOK 1277, PAGE 158, COBB COUNTY, GEORGIA RECORDS. (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY)

17. RIGHTS, TITLE, INTERESTS AND EASEMENTS ACQUIRED IN RIGHT OF WAY DEED FROM SHEA/RUSTIN, INC. TO COBB COUNTY, GEORGIA, DATED OCTOBER 15, 1976, FILED FEBRUARY 7, 1978, RECORDED IN DEED BOOK 1860, PAGE 384, AFORESAID RECORDS; (MAY AFFECT SUBJECT PROPERTY).

18. RIGHTS, TITLE AND INTEREST OF TERESA LYNN FREE, VERNON THOMAS FREE, AND JEFFREY WALTER FREE, THEIR HEIRS AND ASSIGNS, AS THE CHILDREN AND HEIRS AT LARGE OF J. W. FREE; (DOCUMENT NOT PROVIDED).

19. ESTATE NO. 00-P-9552-01 COBB COUNTY COURT OF ORDINARY INDICATES J. W. FREE DIED AUGUST 14, 1962 INTESTATE, AS OWNER OF PROPERTY RECORDED AT DEED BOOK 269, PAGE 485, COBB COUNTY, GEORGIA SUPERIOR COURT RECORDS, INCLUDING TAX PARCEL 20. THERE WAS NO ADMINISTRATOR; HOWEVER, A YEAR'S SUPPORT WAS AWARDED OCTOBER TERM 1962 IN AND TO THE TRACT CONTAINING TAX PARCEL 20 IN LAND LOT 619 TO HIS WIDOW MRS. ANNETTE C. FREE AND THEIR THREE (3) MINOR CHILDREN, NAMELY TERESA LYNN FREE, AGE 11, VERNON THOMAS FREE, AGE 7, AND JEFFREY WALTER FREE, AGE 8 MONTHS; (DOCUMENT NOT PROVIDED).

20. ESTATE FILE NO. 71-P-0498-01 IN RE: GUARDIANSHIP; ORDER OF LEAVE TO SELL THE TRACT OF LAND CONTAINING TAX PARCEL 20 IN LAND LOT 619 WAS ORDERED NOVEMBER TERM 1971 AND JIMMY JONES WAS APPOINTED GUARDIAN AD LITEM NOVEMBER 16, 1971 FOR THE MINORS, TERESA LYNN FREE, AGE 20, VERNON THOMAS FREE, AGE 16, AND JEFFREY WALTER FREE, AGE 9; (DOCUMENT NOT PROVIDED).

21. ANNETTE FREE MORGAN F/K/A ANNETTE C. FREE WAS APPOINTED GUARDIAN AD LITEM, ORDERED NOVEMBER 17, 1971, FOR THE SAME CHILDREN AS TO OTHER PROPERTY LOCATED IN LAND LOT 618 LOCATED SOUTH AND ADJACENT TO THE JIMMY JONES AS GUARDIAN PROPERTY LOCATED IN LAND LOT 619; (DOCUMENT NOT PROVIDED).

22. ORDER DATED JANUARY 3, 1972 AUTHORIZES ANNETTE FREE MORGAN AS GUARDIAN OF THE THREE CHILDREN TO SELL PROPERTY LOCATED IN LAND LOT 618; (DOCUMENT NOT PROVIDED).

23. THE WARRANTY DEED SUBSEQUENT TO THE ORDER TO SELL WAS FROM ANNETTE FREE MORGAN, INDIVIDUALLY AND ANNETTE FREE MORGAN AS GUARDIAN OF TERESA LYNN FREE, VERNON THOMAS FREE AND JEFFREY WALTER FREE TO M. RANDOLPH CORPORATION, DATED FEBRUARY 15, 1972, FILED FEBRUARY 15, 1972 AND RECORDED IN DEED BOOK 1289, PAGE 652, COBB COUNTY, GEORGIA DEED RECORDS; HOWEVER, THE PROPERTY DESCRIBED AND CONVEYED WERE BOTH PROPERTIES LOCATED IN LAND LOTS 618 AND 619. ACCORDING TO THE ESTATE FILE, THE GRANTOR WAS GUARDIAN ONLY FOR THE PROPERTY IN LAND LOT 618. NO DEED WAS FOUND OF RECORD FROM JIMMY JONES AS GUARDIAN AS TO PROPERTY LOCATED IN LAND LOT 619 CONTAINING TAX PARCEL 20. INQUIRY SHOULD BE MADE; (DOCUMENT NOT PROVIDED).

24. ALL MATTERS AFFECTING SUBJECT PROPERTY AS SHOWN ON THE FOLLOWING PLATS:
(A) PROPERTY OF J. W. FREE BY W. L. BISHOP SURVEYOR LIC #549, DATED SEPTEMBER 2, 1957, FILED SEPTEMBER 7, 1957, RECORDED IN PLAT BOOK 16, PAGE 150, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(B) SHEA/RUSTIN INC. BY SHIREY, NELSON & ASSOCIATES BY EDWARD H. BROWN, SURVEYOR NO. 979, DATED FEBRUARY 12, 1973, FILED MARCH 7, 1973, RECORDED IN PLAT BOOK 57, PAGE 136, AFORESAID RECORDS; (AFFECT SUBJECT PROPERTY, SHOWN ON SURVEY).
(C) REVISED ADDITION TO SOUTH COBB INDUSTRIAL PARK A SHEA/RUSTIN DEVELOPMENT BY TRENHOLM BAKER P.A. DATED JANUARY 12, 1979, REVISED MARCH 1, 1979, FILED MARCH 5, 1979, RECORDED IN PLAT BOOK 72, PAGE 193, AFORESAID RECORDS; REVISED MARCH 12, 1979, FILED MARCH 15, 1979, RECORDED IN PLAT BOOK 73, PAGE 13, AFORESAID RECORDS; REVISED SEPTEMBER 10, 1979, FILED SEPTEMBER 13, 1979, RECORDED IN PLAT BOOK 74, PAGE 65, AFORESAID RECORDS; REVISED OCTOBER 5, 1979, FILED OCTOBER 5, 1979, RECORDED IN PLAT BOOK 74, PAGE 89, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(D) TERMS AND CONDITIONS, RIGHTS AND INTEREST AND EASEMENT CONTAINED IN SHARED DRIVEWAY EASEMENT BETWEEN AMC VENTURES, INC., A GEORGIA CORPORATION, AND SHONSON, SHONSON & TILLEM II, LLC, A GEORGIA LIMITED LIABILITY COMPANY, DATED JUNE 9, 2009, FILED JUNE 12, 2009, RECORDED IN DEED BOOK 14700, PAGE 5778, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

25. RIGHTS, TITLE AND INTEREST OF BEVERLY L. SHONSON ACQUIRED IN WARRANTY DEED FROM SHEA/RUSTIN, INC. N/K/A SHEA AND COMPANY, INC., TO SAMUEL V. SHONSON, BEVERLY L. SHONSON, AND MELVIN P. TILLEM, DATED JANUARY 31, 1984, FILED FEBRUARY 13, 1984, RECORDED IN DEED BOOK 3022, PAGE 45, COBB COUNTY, GEORGIA RECORDS; (DOES NOT AFFECT SUBJECT PROPERTY).

26. BEVERLY (LEVANSTIEN) SHONSON DIED FEBRUARY 6, 2003, DEKALB COUNTY, GEORGIA PROBATE COURT ESTATE NO. 200300430, AND BRIAN NEAL SHONSON WAS APPOINTED THE EXECUTOR; LETTERS TESTAMENTARY WERE ISSUED TO HIM ON FEBRUARY 25, 2003. ITEM V OF THE WILL DEVISED THE RESIDUE OF HER PROPERTY TO HER HUSBAND, SAMUEL V. SHONSON. THE WILL WAS PROBATED IN SOLEMN FORM; (DOCUMENT NOT PROVIDED).

27. SAMUEL V. SHONSON DIED SEPTEMBER 16, 2004, DEKALB COUNTY, GEORGIA PROBATE COURT ESTATE NO. 2004-02604, AND BRIAN NEAL SHONSON WAS APPOINTED EXECUTOR UNDER HIS WILL, WHICH WAS PROBATED IN SOLEMN FORM AND LETTERS TESTAMENTARY ISSUED TO HIM ON NOVEMBER 10, 2004; (DOCUMENT NOT PROVIDED).

28. THE SOLE HEIRS OF BOTH BEVERLY AND SAMUEL SHONSON WERE THE CHILDREN, NAMELY FRANCEEN SHONSON TILLEM, MARCIA SHONSON BAUMRIND AND BRIAN NEAL SHONSON; (DOCUMENT NOT PROVIDED).

29. BRIAN N. SHONSON ATTEMPTED TO CONVEY THE PROPERTY OUT OF THE ESTATE OF BEVERLY L. SHONSON BY THAT CERTAIN EXECUTOR'S DEED FROM BRIAN N. SHONSON AS EXECUTOR OF THE ESTATE OF BEVERLY L. SHONSON TO THE ESTATE OF SAMUEL V. SHONSON, DATED JUNE 9, 2009, FILED JUNE 12, 2009, RECORDED IN DEED BOOK 14700, PAGE 5756, COBB COUNTY, GEORGIA RECORDS; HOWEVER, THE GRANTEE SHOWN IN THE DEED IS NOT A LEGAL ENTITY; (MAY AFFECT SUBJECT PROPERTY, CONDITION BLANKET IN NATURE).

30. IT APPEARS THE ABOVE ATTEMPT WAS TO BE TO THE EXECUTOR, BRIAN N. SHONSON, OF THE ESTATE OF SAMUEL V. SHONSON, EVIDENCED BY THE SUBSEQUENT CONCURRENT FILING OF EXECUTOR'S DEED BY BRIAN N. SHONSON AS EXECUTOR OF THE ESTATE OF SAMUEL V. SHONSON AND AS BENEFICIARY OF THE ESTATE OF SAMUEL V. SHONSON, AND FRANCEEN S. TILLEM AS A BENEFICIARY OF THE ESTATE OF SAMUEL V. SHONSON, AND MARCIA S. BAUMRIND AS A BENEFICIARY OF THE ESTATE OF SAMUEL V. SHONSON, TO AMC VENTURES, INC., A GEORGIA CORPORATION, DATED JUNE 9, 2009, FILED JUNE 12, 2009, RECORDED IN DEED BOOK 14700, PAGE 5770, AFORESAID RECORDS, AND BY QUITCLAIM DEED FROM FRANCEEN S. TILLEM, MARCIA S. BAUMRIND AND BRIAN N. SHONSON TO AMC VENTURES, INC., DATED JUNE 9, 2009, FILED JUNE 12, 2009 AND RECORDED IN DEED BOOK 14700, PAGE 5775, AFORESAID RECORDS; (MAY AFFECT SUBJECT PROPERTY, CONDITION BLANKET IN NATURE).

IT APPEARS THAT ALL THE BENEFICIARIES OF BOTH ESTATES CONVEYED OUT TO AMC VENTURES, INC.

31. ALL MATTERS AFFECTING SUBJECT PROPERTY AS SHOWN ON THE FOLLOWING PLATS:
(A) SHEA/RUSTIN INC. BY SHIREY, NELSON & ASSOCIATES BY EDWARD H. BROWN, SURVEYOR NO. 979, DATED FEBRUARY 12, 1973, FILED MARCH 7, 1973, RECORDED IN PLAT BOOK 57, PAGE 136, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).
(B) REVISED ADDITION TO SOUTH COBB INDUSTRIAL PARK A SHEA/RUSTIN DEVELOPMENT BY TRENHOLM BAKER P.A. DATED JANUARY 12, 1979, REVISED MARCH 1, 1979, FILED MARCH 5, 1979, RECORDED IN PLAT BOOK 72, PAGE 193, AFORESAID RECORDS; REVISED MARCH 12, 1979, FILED MARCH 15, 1979, RECORDED IN PLAT BOOK 73, PAGE 13, AFORESAID RECORDS; REVISED SEPTEMBER 10, 1979, FILED SEPTEMBER 13, 1979, RECORDED IN PLAT BOOK 74, PAGE 65, AFORESAID RECORDS; REVISED OCTOBER 5, 1979, FILED OCTOBER 5, 1979, RECORDED IN PLAT BOOK 74, PAGE 89, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

32. EASEMENT FROM SAMUEL V. SHONSON, BEVERLY L. SHONSON AND MELVIN P. TILLEM TO GEORGIA POWER COMPANY, DATED MAY 16, 1984, FILED AUGUST 31, 1984, RECORDED IN DEED BOOK 3240, PAGE 474, AFORESAID RECORDS; (DOES NOT AFFECT SUBJECT PROPERTY).

33. TERMS, CONDITIONS, RIGHTS, INTERESTS AND EASEMENT CONTAINED IN SHARED DRIVEWAY EASEMENT BETWEEN AMC VENTURES, INC., A GEORGIA CORPORATION, AND SHONSON, SHONSON & TILLEM II, LLC, A GEORGIA LIMITED LIABILITY COMPANY, DATED JUNE 9, 2009, FILED JUNE 12, 2009, RECORDED IN DEED BOOK 14700, PAGE 5778, AFORESAID RECORDS; (AFFECTS SUBJECT PROPERTY, SHOWN ON SURVEY).

SITE INFORMATION

CURRENT OWNER: AMC VENTURES, INC.

OVERALL AREA: 557,033 SQ. FT OR 12.7877 ACRES

TAX PARCEL ID #17-0619-00200, 17-0618-01240, 17-0678-00050, 17-078-00040
17-0678-00040, 17-0678-00030 & 17-0679-00130

ADDRESS: 1834, 1840,1850 & 1860 SOUTH COBB INDUSTRIAL BLVD.
4830 MARTIN COURT

ZONING: LI - (LIGHT INDUSTRIAL DISTRICT)

BUILDING SETBACKS:
FRONT: 50' OR 75' FROM PUBLIC STREET
MAJOR SIDE: 25' OR 35' FROM PUBLIC STREET
MINOR SIDE: 20' FROM ADJACENT PROPERTY
REAR: 30'

MAXIMUM BLDG. HEIGHT= 4 STORIES AND 70'
MINIMUM LOT WIDTH: 100' @ THE FRONT SETBACK LINE
MINIMUM PUBLIC ROAD FRONTAGE: 50 FEET
MINIMUM LOT AREA: 40,000 SQ. FT.

ZONING:HI - (HEAVY INDUSTRIAL DISTRICT)

BUILDING SETBACKS:
FRONT: 50' OR 75' FROM PUBLIC STREET
MAJOR SIDE: 25' OR 35' FROM PUBLIC STREET
MINOR SIDE: 20' FROM ADJACENT PROPERTY
REAR: 40'

MAXIMUM BLDG. HEIGHT= 4 STORIES AND 50'
MINIMUM LOT WIDTH: 150' @ THE FRONT SETBACK LINE
MINIMUM PUBLIC ROAD FRONTAGE: 50 FEET
MINIMUM LOT AREA: 40,000 SQ. FT.

PARKING COUNT: 124 REGULAR SPACES & 2 HANDICAPPED SPACES

LEGAL DESCRIPTION

All that tract or parcel of land lying and being in Land Lots 618, 619, 678 and 679 of the 17th District, 2nd Section, Cobb County, Georgia and being more particularly described as follows.
Beginning at a point found at the intersection of a line common to Land Lots 619 and 678 of the 17th District, 2nd Section, Cobb County, Georgia with the south right of way of South Cobb Industrial Boulevard (having a 50' right of way) and thence leaving the said point of beginning and running with the said right of way of South Cobb Industrial Boulevard the following courses and distances:

South 80° 26' 26" East, 7.30 feet to a point; thence,16.96 feet along the arc of a curve deflecting to the right and having a radius of 21.00 feet and a chord bearing and distance of South 57° 18' 03" East, 16.50 feet to a point; thence,North 84° 47' 19" East, 74.96 feet to a point; thence, North 78° 11' 35" East, 27.95 feet to a point; thence, North 84° 47' 19" East, 56.41 feet to a point; thence, North 84° 47' 19" East, 13.12 feet to a point; thence, North 72° 54' 44" East, 42.85 feet to a point; thence, North 84° 45' 54" East, 548.91 feet to a ½" rebar found at the intersection of the said right of way of South Cobb Industrial Boulevard with the west right of way of Martin Court (having a 50' right of way); thence, running with the said right of way of Martin Court the following courses and distances: South 01° 12' 40" West, 359.90 feet to a ½" rebar found; thence, 276.73 feet along the arc of a curve deflecting to the right and having a radius of 930.37 feet and a chord bearing and distance of South 09° 46' 45" West, 275.71 feet to a point; thence, South 18° 27' 33" West, 10.37 feet to a point; thence, leaving the said right of way of Martin Court and running South 89° 20' 37" West, 561.94 feet to a point; thence, North 89° 22' 23" West, 160.00 feet to a ½" rebar in concrete found; thence, North 00° 05' 21" East, 64.16 feet to a ½" rebar found; thence, South 89° 30' 19" West, 155.86 feet to a point; thence, North 06° 51' 17" West, 485.05 feet to a point found on the said right of way of South Cobb Industrial Boulevard; thence, running with the said right of way of South Cobb Industrial Boulevard the following courses and distances: 155.46 feet along the arc of a curve deflecting to the right and having a radius of 1121.14 feet and a chord bearing and distance of North 80° 48' 59" East, 155.34 feet to a point; thence, North 84° 47' 19" East, 60.25 feet to the point of beginning, containing 557,033 square feet or 12.7877 acres of land, more or less.

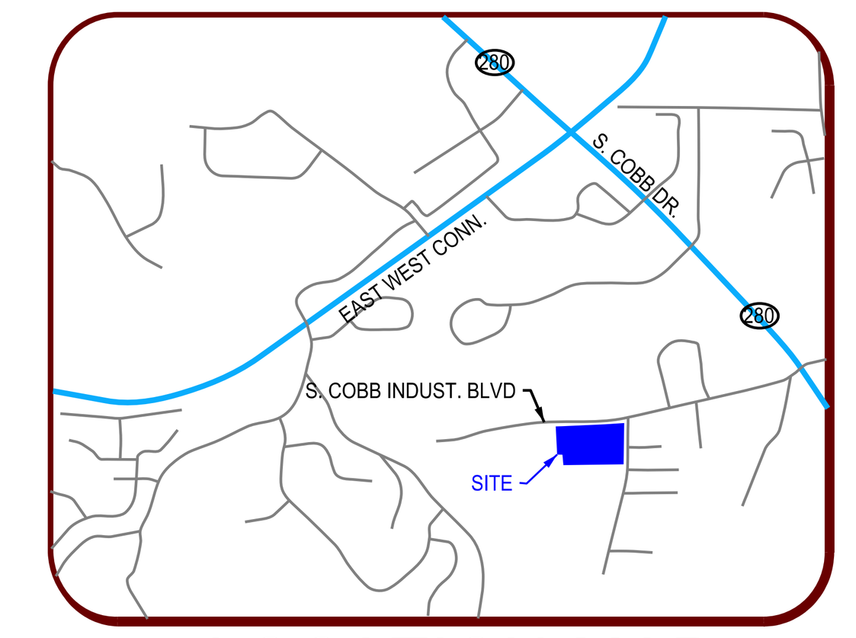
The herein described tract or parcel of land is subject to all right of ways and easements, both recorded and unrecorded.

REFERENCE MATERIAL

1. EXECUTORS DEED TO AMC VENTURES, INC. RECORDED IN DB. 14700 PG. 5770
2. WARRANTY DEED TO AMC VENTURES, INC. RECORDED IN DB. 14700 PG. 5766
3. QUIT CLAIM DEED TO AMC VENTURES, INC. RECORDED IN DB. 14700 PG. 5775
4. WARRANTY DEED TO AMC VENTURES, INC. RECORDED IN DB. 14700 PG. 5752
5. WARRANTY DEED TO AMC VENTURES, INC. RECORDED IN DB. 10070 PG. 254
6. WARRANTY DEED TO AMC VENTURES, INC. RECORDED IN DB. 14000 PG. 6235
7. QUITCLAIM DEED TO AMC VENTURES, INC. RECORDED IN DB. 1440 PG. 5028
8. WARRANTY DEED TO AMC VENTURES, INC. RECORDED IN DB. 14400 PG. 5024
ALL RECORDED IN COBB COUNTY RECORDS

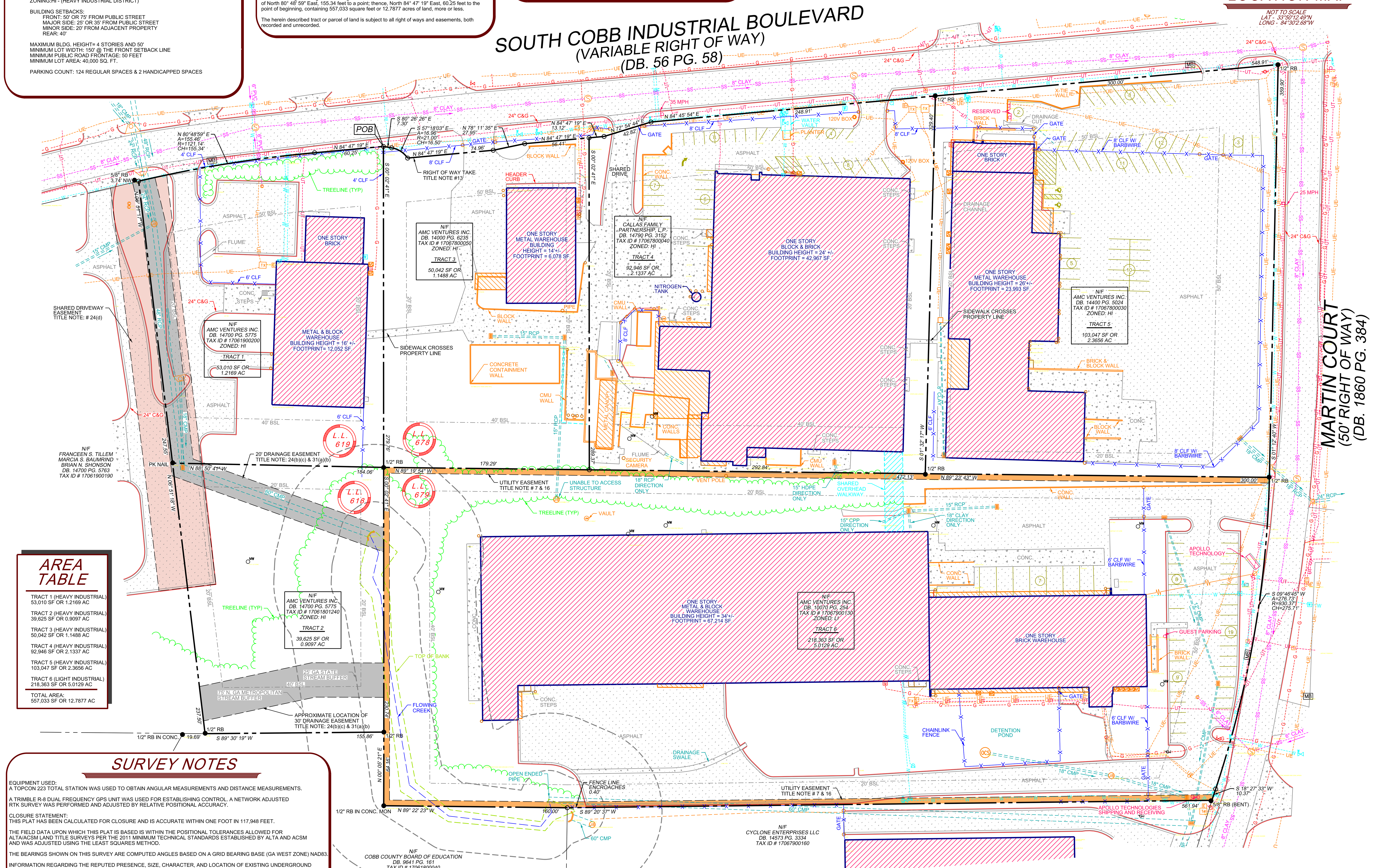
ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC	ACRE	N/F	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB	PLAT BOOK
BW	BARBWIRE	PG	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAINLINK FENCE	POC	POINT OF COMMENCEMENT
CMP	CORRUGATED METAL PIPE	R	RADIUS LENGTH
CONC	CONCRETE	R/W	RIGHT OF WAY
CTP	CRIMP TOP PIPE	R/W MON	RIGHT OF WAY MONUMENT
DB	DEED BOOK	RB	REBAR
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
FDC	FIRE DEPARTMENT CONNECTION	SDE	STORM DRAINAGE EASEMENT
FND	FOUND	SQ. FT.	SQUARE FEET
HDPE	HIGH DENSITY POLYETHYLENE PIPE	SSE	SANITARY SEWER EASEMENT
IPF	IRON PIN FOUND	VCP	VITRIFIED CLAY PIPE



LOCATION MAP

NOT TO SCALE
LAT - 33°50'12.49"N
LONG - 84°30'2.68"W



AREA TABLE

TRACT 1 (HEAVY INDUSTRIAL)
53,010 SF OR 1.2169 AC

TRACT 2 (HEAVY INDUSTRIAL)
39,625 SF OR 0.9097 AC

TRACT 3 (HEAVY INDUSTRIAL)
50,042 SF OR 1.1488 AC

TRACT 4 (HEAVY INDUSTRIAL)
92,946 SF OR 2.1337 AC

TRACT 5 (HEAVY INDUSTRIAL)
103,047 SF OR 2.3656 AC

TRACT 6 (LIGHT INDUSTRIAL)
218,363 SF OR 5.0129 AC

TOTAL AREA:
557,033 SF OR 12.7877 AC

SURVEY NOTES

EQUIPMENT USED:
A TOPCON 223 TOTAL STATION WAS USED TO OBTAIN ANGULAR MEASUREMENTS AND DISTANCE MEASUREMENTS.

A TRIMBLE R-8 DUAL FREQUENCY GPS UNIT WAS USED FOR ESTABLISHING CONTROL. A NETWORK ADJUSTED RTK SURVEY WAS PERFORMED AND ADJUSTED BY RELATIVE POSITIONAL ACCURACY.

CLOSURE STATEMENT:
THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 117,948 FEET.

THE FIELD DATA UPON WHICH THIS PLAT IS BASED IS WITHIN THE POSITIONAL TOLERANCES ALLOWED FOR ALTA/ACSM LAND TITLE SURVEYS PER THE 2011 MINIMUM TECHNICAL STANDARDS ESTABLISHED BY ALTA AND ACSM AND WAS ADJUSTED USING THE LEAST SQUARES METHOD.

THE BEARINGS SHOWN ON THIS SURVEY ARE COMPUTED ANGLES BASED ON A GRID BEARING BASE (GA WEST ZONE) NAD83.

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY TO THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.

INFORMATION REGARDING STORM SEWER AND SANITARY SEWER AS SHOWN HEREON, IS BASED ON OBSERVATIONS TAKEN BY TERRAMARK EMPLOYEES AT THE GROUND ELEVATION OF THE EXISTING MANHOLE. TERRAMARK EMPLOYEES ARE NOT AUTHORIZED TO ENTER A CONFINED SPACE SUCH AS A MANHOLE. THEREFORE, THERE IS NO CERTAINTY OF THE PIPE SIZES AND PIPE MATERIAL THAT ARE SHOWN ON THIS SURVEY. EXCAVATION BY A CERTIFIED CONTRACTOR IS THE ONLY WAY TO VERIFY PIPE SIZE AND MATERIAL. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE PIPE INFORMATION SHOWN HEREON.

THIS PLAT WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. THIS PLAT DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESS CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS OR ENTITY.

TERRAMARK LAND SURVEYING, INC. DOES NOT WARRANT THE EXISTENCE OR NON-EXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEY AREA.

FIELD WORK FOR THIS PROPERTY WAS COMPLETED ON MAY 4, 2012.

LEGEND

FENCE
STORM DRAIN LINE
SANITARY SEWER
FORCE MAIN
WATER LINE
GAS LINE
UNDERGROUND POWER LINE
OVERHEAD POWER LINE
UNDERGROUND TELEPHONE
MONITORING WELL
TRANSFORMER BOX (TX)
FLAG POLE (FP)
CALCULATED POINT
FIRE HYDRANT (FH)
WATER VALVE (WV)
WATER METER (WM)
LIGHT POLE (LP)
GAS METER (GM)
GAS VALVE (GV)
ELECTRIC METER (EM)
FIBER OPTIC
CABLE TELEVISION
TOPOGRAPHIC CONTOUR
PROPERTY LINE
CATCH BASIN (DWCB)
CATCH BASIN (SWCB)
DROP INLET (DI)
JUNCTION BOX (JB)
SS MANHOLE (MH)
CLEANOUT (CO)
HEAD WALL (HW)
CURB AND GUTTER (C&G)
SPOT ELEVATION
POWER POLE (PP)
SIGN
CONCRETE AREA
ASPHALT AREA
GRAVEL AREA

SURVEYORS CERTIFICATE

TO: AMC VENTURES, INC.,FIRST AMERICAN TITLE INSURANCE COMPANY
AND BUCKHEAD TITLE & ABSTRACT COMPANY, INC.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA / ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS (1,2,3,4,6(b),7(a),7(b1),7(C),8,9,10, 11(a),13,14 & 16 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 4, 2012). THE DATE OF THE PLAT OR MAP MAY 14,2012.

THE ORIGINAL OF THIS DOCUMENT WAS SEALED AND SIGNED BY SCOTT E. BURSON, GA. RLS #3037

THIS REPRODUCTION IS NOT A CERTIFIED COPY

SCOTT E. BURSON, RLS
REGISTERED NUMBER: 3037

TerraMark Professional Land Surveying

TerraMark Land Surveying, Inc.
1396 Bells Ferry Road
Marietta, Georgia 30066
Phone No. (770) 421-1927
Fax. No. (770) 421-0552
www.terramark.com

Project No.	2012-056D	No	Revision	Date
Survey Crew:	TG	#1	UPDATE TRACT 4 OWNER	6/05/12
		#2		
Drawn By:	KWH	#3		
		#4		
Approved By:	SEB	#5		
		#6		
Date:	5/14/12	#7		
		#8		
Scale:	1"=40'	PATH:	T:SURVEY\2012\2012-056D\DGN\ALTA.DGN	

ALTA/ACSM LAND TITLE SURVEY
FOR
AMC VENTURES, INC.
FIRST AMERICAN TITLE INSURANCE COMPANY
AND BUCKHEAD TITLE & ABSTRACT COMPANY, INC.

LOCATED IN
LAND LOTS 618,619,678 & 679
17TH DISTRICT, 2ND SECTION
COBB COUNTY, GEORGIA

SHEET NO.
1/1
DRAWING# TM12-056D

Appendix C

Risk Reduction Standard Calculations and Associated Data

Type 1 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Notes	Type 1 RRS (mg/kg)	Soil to Groundwater		Risk Calculations		Cancer Risk Factors			
				HSRA Appendix I Table 1 (mg/kg)	HSRA Appendix III Table 1 x 100 (mg/kg)	Chronic Risk Calculation RAGS Equation 7 (mg/kg)	Cancer Risk Calculation RAGS Equation 6 (mg/kg)	Target Risk	Oral Slope Factor (1/mg/kg-day)	Inhalation (1/mg/kg-day)	Inhalation Unit Risk (ug/m3)-1
								TR	Sfo	Sfi	IUR
1,1,1-Trichloroethane	71-55-6		**2.00E+01**	5.44E+00	2.00E+01	1.07E+04	Not Applicable	1.0E-04			
1,1-Dichloroethane	75-34-3		**4.00E+02**	3.00E-02	4.00E+02	1.28E+05	4.21E+02	1.0E-04	5.7E-03	5.6E-03	1.60E-06
1,1-Dichloroethene	75-35-4		**7.00E-01**	3.60E-01	7.00E-01	2.38E+02	Not Applicable	1.0E-04			
1,2-Dichloroethane	107-06-2		**5.00E-01**	2.00E-02	5.00E-01	5.02E+01	6.27E+00	1.0E-05	9.1E-02	9.1E-02	2.60E-05
Acetone	67-64-1		**4.00E+02**	2.74E+00	4.00E+02	1.92E+05	Not Applicable	1.0E-05			
cis-1,2-Dichloroethene	156-59-2		**7.00E+00**	5.30E-01	7.00E+00	1.28E+03	Not Applicable	1.0E-05			
Cyclohexane	110-82-7		**2.00E+01**	2.00E+01		1.18E+04	Not Applicable	1.0E-04			
Ethylbenzene	100-41-4		**7.00E+01**	2.00E+01	7.00E+01	9.08E+03	9.21E+01	1.0E-05	1.1E-02	8.8E-03	2.50E-06
Isopropylbenzene	98-82-8		**2.19E+01**	2.19E+01		4.35E+03	Not Applicable	1.0E-04			
Methylene Chloride	75-09-2		**5.00E-01**	8.00E-02	5.00E-01	1.21E+03	3.57E+03	1.0E-05	2.0E-03	3.5E-05	1.00E-08
Tetrachloroethene	127-18-4		**5.00E-01**	1.80E-01	5.00E-01	1.41E+02	3.15E+02	1.0E-05	2.1E-03	9.1E-04	2.60E-07
Toluene	108-88-3		**1.00E+02**	1.44E+01	1.00E+02	2.22E+04	Not Applicable	1.0E-05			
Trichloroethene	79-01-6		**5.00E-01**	1.30E-01	5.00E-01	6.63E+00	1.82E+01	1.0E-05	4.6E-02	1.4E-02	4.10E-06
Xylenes (Total)	1330-20-7		**1.00E+03**	2.00E+01	1.00E+03	1.08E+03	Not Applicable	1.0E-05			
bis(2-ethylhexyl)phthalate	117-81-7		**5.00E+01**	5.00E+01	6.00E-01	1.28E+04	1.07E+03	1.0E-05	1.4E-02	8.4E-03	2.40E-06

m meter
cm centimeter
ug micrograms
mg milligrams
kg kilograms
L liter
s second
HSRA Hazardous Sites Response Act
RRS Risk Reduction Standard
CAS Chemical Abstract Service

RAGS *Risk Assessment Guidance for Superfund, Volume I--Human Health evaluatkon Manual (Part B, Development of Risk Based Preliminary Remediation Goals)* (EPA, December 1991)

Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).

Type 1 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Chronic Reference Dose			Effective Diffusivity (cm2/s)	Molecular Diffusivity (cm2/s)	Henry's Law Constant (atm-m3/mole)	Soil to Water Partition Coefficient (L/kg)	Organic Carbon Partition Coefficient (L/kg)	Target Groundwater Concentration (mg/L)
		Oral (mg/kg-day)	Inhalation (mg/m3)	Inhalation (mg/kg-day)						
		RfDo	RfCi	RfDi	Dei	Dia	(atm-m3/mole)	Kd	Koc	Cw
1,1,1-Trichloroethane	71-55-6	2.0E+00	5.0E+00	1.43E+00	4.58E-02	6.48E-02	1.72E-02	8.78E-01	4.39E+01	2.00E-01
1,1-Dichloroethane	75-34-3	2.0E-01			5.92E-02	8.36E-02	5.62E-03	6.36E-01	3.18E+01	4.00E+00
1,1-Dichloroethene	75-35-4	5.0E-02	2.0E-01	5.71E-02	6.10E-02	8.63E-02	2.61E-02	6.36E-01	3.18E+01	7.00E-03
1,2-Dichloroethane	107-06-2	6.0E-03	7.0E-03	2.00E-03	6.06E-02	8.57E-02	1.18E-03	7.92E-01	3.96E+01	5.00E-03
Acetone	67-64-1	9.0E-01	3.1E+01	8.86E+00	7.49E-02	1.06E-01	3.50E-05	4.73E-02	2.36E+00	4.00E+00
cis-1,2-Dichloroethene	156-59-2	2.0E-03			6.25E-02	8.84E-02	4.08E-03	7.92E-01	3.96E+01	7.00E-02
Cyclohexane	110-82-7		6.0E+00	1.71E+00	7.11E-02	1.01E-01	4.55E-02	2.92E+00	1.46E+02	
Ethylbenzene	100-41-4	1.0E-01	1.0E+00	2.86E-01	4.84E-02	6.85E-02	7.88E-03	8.92E+00	4.46E+02	7.00E-01
Isopropylbenzene	98-82-8	1.0E-01	4.0E-01	1.14E-01	4.26E-02	6.03E-02	1.15E-02	1.40E+01	6.98E+02	
Methylene Chloride	75-09-2	6.0E-03	6.0E-01	1.71E-01	7.07E-02	9.99E-02	3.25E-03	4.35E-01	2.17E+01	5.00E-03
Tetrachloroethene	127-18-4	6.0E-03	4.0E-02	1.14E-02	3.57E-02	5.05E-02	1.77E-02	1.90E+00	9.49E+01	5.00E-03
Toluene	108-88-3	8.0E-02	5.0E+00	1.43E+00	5.50E-02	7.78E-02	6.64E-03	4.68E+00	2.34E+02	1.00E+00
Trichloroethene	79-01-6	5.0E-04	2.0E-03	5.71E-04	4.86E-02	6.87E-02	9.85E-03	1.21E+00	6.07E+01	5.00E-03
Xylenes (Total)	1330-20-7	2.0E-01	1.0E-01	2.86E-02	5.99E-02	8.47E-02	5.18E-03	7.66E+00	3.83E+02	1.00E+01
bis(2-ethylhexyl)phthalate	117-81-7	2.0E-02			1.23E-02	1.73E-02	2.70E-07	2392	1.20E+05	6.00E-03

m meter
cm centimeter
ug micrograms
mg milligrams
kg kilograms
L liter
s second
HSRA Hazardous Sites Response Act
RRS Risk Reduction Standard
CAS Chemical Abstract Service

RAGS *Risk Assessment Guidance for Superfund, Volume I--Human Health evaluatkon Manual (Part B, Development of Risk Based Preliminary Remediation Goals)* (EPA, December 1991)

Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).

Parameters, Definitions, and Standard Assumptions Used in Type 1 Risk Reduction Calculations for Soil

Factor	Value	Units	Notes
Target Risk for Class A and B non-carcinogens	1.0E-05		
Target Risk for Class C Carcinogens	1.0E-04		
Target Hazard Index	1		
Adult Body Weight	70	kg	
Averaging Time	70	years	Carcinogen (Class C)
Averaging Time (non-carcinogens)	30	years	non-carcinogens (class A and B adult)
Exposure Duration	30	years	
Exposure Frequency	350	days/year	
Daily Water Ingestion Rate	2	L/day	
Soil Ingestion Rate	114	mg/day	
Daily Inhalation Rate	15	m3/day	
Particulate Emission Factor	4.63E+09	m3/kg	
Water to Air Volatilization Factor	0.5	L/m3	
Length of Side of Contaminated Area	45	m	
Wind Speed	2.25	m/s	
Diffusion Height	2	m	
Area of Contamination	2.03E+07	cm2	
Exposure Interval	7.9E+08	s	
Density of Soil Solids	2.65	g/cm3	
Soil Organic Carbon Fraction	0.02		
Total Soil Porosity	0.35		

cm	centimeter
g	Gram
kg	Kilogram
L	Liter
mg	Milligram
m	Meter
s	Second

Notes:
Unless otherwise noted, values are taken from the Hazardous Sites Response Act Rules, Appendix III, Table 3.

Type 3 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Notes	Type 3 RRS (mg/kg)	Subsurface Soil Type 3 RRS (mg/kg)	Surface Soil Type 3 RRS (mg/kg)	Risk Based Type 3 RRS (mg/kg)	Soil to Groundwater		Chronic Risk Calculation RAGS Equation 7 (mg/kg)	Cancer Risk Calculation RAGS Equation 6 (mg/kg)
							HSRA Appendix I Table 1 (mg/kg)	HSRA Appendix III Table 1 x 100 (mg/kg)		
1,1,1-Trichloroethane	71-55-6		**2.00E+01**	2.00E+01	2.00E+01	1.13E+04	5.44E+00	2.00E+01	1.13E+04	Not Applicable
1,1-Dichloroethane	75-34-3		**4.00E+02**	4.00E+02	4.00E+02	5.36E+02	3.00E-02	4.00E+02	4.09E+05	5.36E+02
1,1-Dichloroethene	75-35-4		**7.00E-01**	7.00E-01	7.00E-01	2.51E+02	3.60E-01	7.00E-01	2.51E+02	Not Applicable
1,2-Dichloroethane	107-06-2		**5.00E-01**	5.00E-01	5.00E-01	8.11E+00	2.00E-02	5.00E-01	5.32E+01	8.11E+00
Acetone	67-64-1		**4.00E+02**	4.00E+02	4.00E+02	2.60E+05	2.74E+00	4.00E+02	2.60E+05	Not Applicable
cis-1,2-Dichloroethene	156-59-2		**7.00E+00**	7.00E+00	7.00E+00	4.09E+03	5.30E-01	7.00E+00	4.09E+03	Not Applicable
Cyclohexane	110-82-7		**2.00E+01**	2.00E+01	2.00E+01	2.74E+03	2.00E+01		2.74E+03	Not Applicable
Ethylbenzene	100-41-4		**7.00E+01**	7.00E+01	7.00E+01	1.22E+02	2.00E+01	7.00E+01	1.05E+04	1.22E+02
Isopropylbenzene	98-82-8		**2.19E+01**	2.19E+01	2.19E+01	4.79E+03	2.19E+01		4.79E+03	Not Applicable
Methylene Chloride	75-09-2		**5.00E-01**	5.00E-01	5.00E-01	1.61E+03	8.00E-02	5.00E-01	1.61E+03	6.62E+03
Tetrachloroethene	127-18-4		**5.00E-01**	5.00E-01	5.00E-01	1.52E+02	1.80E-01	5.00E-01	1.52E+02	4.09E+02
Toluene	108-88-3		**1.00E+02**	1.00E+02	1.00E+02	3.28E+04	1.44E+01	1.00E+02	3.28E+04	Not Applicable
Trichloroethene	79-01-6		**5.00E-01**	5.00E-01	5.00E-01	7.06E+00	1.30E-01	5.00E-01	7.06E+00	2.38E+01
Xylenes (Total)	1330-20-7		**1.00E+03**	1.00E+03	1.00E+03	1.14E+03	2.00E+01	1.00E+03	1.14E+03	Not Applicable
bis(2-ethylhexyl)phthalate	117-81-7		**5.00E+01**	5.00E+01	5.00E+01	4.09E+03	5.00E+01	6.00E-01	4.09E+04	4.09E+03

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Notes:

Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).

Type 3 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Soil-to-Air	Alpha Calculation	Kas Calculation	Cancer Slope Factor				Chronic Reference Dose		
		(m3/kg)	(cm3/s)	(g soil/cm3 air)	Target Risk	Oral (1/mg/kg-day)	Inhalation (1/mg/kg-day)	Inhalation Unit Risk (ug/m3)-1	Oral (mg/kg-day)	Inhalation Concentration (mg/m3)	Inhalation (mg/kg-day)
		VF	Alpha	Kas	TR	Sfo	Sfi	IUR	RfDo	RfCi	RfDi
1,1,1-Trichloroethane	71-55-6	1.55E+03	6.43E-03	8.03E-01	1.0E-04				2.0E+00	5.0E+00	1.43E+00
1,1-Dichloroethane	75-34-3	2.11E+03	4.05E-03	3.62E-01	1.0E-04	5.7E-03	5.60E-03	1.6E-06	2.0E-01		
1,1-Dichloroethene	75-35-4	8.62E+02	1.55E-02	1.68E+00	1.0E-04				5.0E-02	2.0E-01	5.71E-02
1,2-Dichloroethane	107-06-2	5.23E+03	7.43E-04	6.11E-02	1.0E-05	9.1E-02	9.10E-02	2.6E-05	6.0E-03	7.0E-03	2.00E-03
Acetone	67-64-1	6.69E+03	4.59E-04	3.04E-02	1.0E-05				9.0E-01	3.1E+01	8.86E+00
cis-1,2-Dichloroethene	156-59-2	2.73E+03	2.57E-03	2.11E-01	1.0E-05				2.0E-03		
Cyclohexane	110-82-7	3.13E+02	4.02E-02	6.40E+00	1.0E-04					6.0E+00	1.71E+00
Ethylbenzene	100-41-4	7.61E+03	3.54E-04	3.62E-02	1.0E-05	1.1E-02	8.75E-03	2.5E-06	1.0E-01	1.0E+00	2.86E-01
Isopropylbenzene	98-82-8	8.40E+03	2.91E-04	3.38E-02	1.0E-04				1.0E-01	4.0E-01	1.14E-01
Methylene Chloride	75-09-2	2.11E+03	4.14E-03	3.07E-01	1.0E-05	2.0E-03	3.50E-05	1.0E-08	6.0E-03	6.0E-01	1.71E-01
Tetrachloroethene	127-18-4	2.64E+03	2.57E-03	3.82E-01	1.0E-05	2.1E-03	9.10E-04	2.6E-07	6.0E-03	4.0E-02	1.14E-02
Toluene	108-88-3	5.62E+03	6.43E-04	5.82E-02	1.0E-05				8.0E-02	5.0E+00	1.43E+00
Trichloroethene	79-01-6	2.44E+03	3.07E-03	3.33E-01	1.0E-05	4.6E-02	1.44E-02	4.1E-06	5.0E-04	2.0E-03	5.71E-04
Xylenes (Total)	1330-20-7	7.83E+03	3.36E-04	2.77E-02	1.0E-05				2.0E-01	1.0E-01	2.86E-02
bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	NA	1.0E-05	1.4E-02	8.40E-03	2.4E-06	2.0E-02		

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Notes:

Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).

Type 3 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Effective Diffusivity (cm2/s)	Molecular Diffusivity (cm2/s)	Henry's Law Constant (unitless)	Henry's Law Constant (atm-m3/mole)	Soil to Water Partition Coefficient (g soil/cm3	Soil to Water Partition Coeficient (L/kg)	Organic Carbon Partition Coeficient (L/kg)	Target Groundwater Concentration (mg/L)
		Dei	Dia	Unitless	(atm-m3/mole)	Kdv	Kd	Koc	Cw
1,1,1-Trichloroethane	71-55-6	4.58E-02	6.48E-02	7.03E-01	1.72E-02	8.78E-01	8.78E-02	4.39E+01	2.00E-01
1,1-Dichloroethane	75-34-3	5.92E-02	8.36E-02	2.30E-01	5.62E-03	6.36E-01	6.36E-02	3.18E+01	4.00E+00
1,1-Dichloroethene	75-35-4	6.10E-02	8.63E-02	1.07E+00	2.61E-02	6.36E-01	6.36E-02	3.18E+01	7.00E-03
1,2-Dichloroethane	107-06-2	6.06E-02	8.57E-02	4.82E-02	1.18E-03	7.92E-01	7.92E-02	3.96E+01	5.00E-03
Acetone	67-64-1	7.49E-02	1.06E-01	1.43E-03	3.50E-05	4.73E-02	4.73E-03	2.36E+00	4.00E+00
cis-1,2-Dichloroethene	156-59-2	6.25E-02	8.84E-02	1.67E-01	4.08E-03	7.92E-01	7.92E-02	3.96E+01	7.00E-02
Cyclohexane	110-82-7	7.11E-02	1.01E-01	1.86E+00	4.55E-01	2.92E+00	2.92E-01	1.46E+02	
Ethylbenzene	100-41-4	4.84E-02	6.85E-02	3.22E-01	7.88E-03	8.92E+00	8.92E-01	4.46E+02	7.00E-01
Isopropylbenzene	98-82-8	4.26E-02	6.03E-02	4.70E-01	1.15E-02	1.40E+01	1.40E+00	6.98E+02	
Methylene Chloride	75-09-2	7.07E-02	9.99E-02	1.33E-01	3.25E-03	4.35E-01	4.35E-02	2.17E+01	5.00E-03
Tetrachloroethene	127-18-4	3.57E-02	5.05E-02	7.24E-01	1.77E-02	1.90E+00	1.90E-01	9.49E+01	5.00E-03
Toluene	108-88-3	5.50E-02	7.78E-02	2.71E-01	6.64E-03	4.68E+00	4.68E-01	2.34E+02	1.00E+00
Trichloroethene	79-01-6	4.86E-02	6.87E-02	4.03E-01	9.85E-03	1.21E+00	1.21E-01	6.07E+01	5.00E-03
Xylenes (Total)	1330-20-7	5.99E-02	8.47E-02	2.12E-01	5.18E-03	7.66E+00	7.66E-01	3.83E+02	1.00E+01
bis(2-ethylhexyl)phthalate	117-81-7	1.23E-02	1.73E-02	1.10E-05	2.70E-07	2.39E+03	2.39E+02	1.20E+05	6.00E-03

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Notes:

Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).

Parameters, Definitions, and Standard Assumptions Used in Type 3 Risk Reduction Calculations for Soil

Factor	Value	Units	Notes
Target Risk for Class A and B carcinogens	1.0E-05		
Target Risk for Class C Carcinogens	1.0E-04		
Target Hazard Index	1		
Adult Body Weight	70	kg	
Averaging Time (carcinogens)	70	years	
Averaging Time (non-carcinogens)	25	years	
Exposure Duration	25	years	
Exposure Frequency	250	days/year	
Daily Water Ingestion Rate	1	L/day	
Soil Ingestion Rate	50	mg/day	
Daily Inhalation Rate	20	m3/day	
Particulate Emission Factor	4.63E+09	m3/kg	
Water to Air Volatilization Factor	0.5	L/m3	
Length of Side of Contaminated Area	45	m	
Wind Speed	2.25	m/s	
Diffusion Height	2	m	
Area of Contamination	2.03E+07	cm2	
Exposure Interval	7.9E+08	s	
Density of Soil Solids	2.65	g/cm3	
Soil Organic Carbon Fraction	0.02		
Total Soil Porosity	0.35		

cm	centimeter
g	Gram
kg	Kilogram
L	Liter
mg	Milligram
m	Meter
s	Second

Notes:
Unless otherwise noted, values are taken from the Hazardous Sites Response Act Rules, Appendix III, Table 3.

Type 4 Risk Reduction Standard Calculations for Soil

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Notes	Type 4 RRS (mg/kg)	Subsurface Soil Type 4 RRS (mg/kg)	Surface Soil Type 4 RRS (mg/kg)	Type 3 Soil Screening Level (mg/kg)	Type 4 Soil Screening Level (mg/kg)	Groundwater Type 3 RRS (mg/L)	Groundwater Type 4 RRS (mg/L)	Chronic Risk Calculation RAGS Equation 7 (mg/kg)	Cancer Risk Calculation RAGS Equation 6 (mg/kg)
1,1,1-Trichloroethane	71-55-6		**4.78E+00**	4.78E+00	4.78E+00	7.01E-02	4.78E+00	2.00E-01	1.36E+01	1.13E+04	Not Applicable
1,1-Dichloroethane	75-34-3		**1.14E+00**	1.14E+00	1.14E+00	1.14E+00	1.32E-02	4.00E+00	4.64E-02	4.09E+05	5.36E+01
1,1-Dichloroethene	75-35-4		**1.88E-01**	1.88E-01	1.88E-01	2.51E-03	1.88E-01	7.00E-03	5.24E-01	2.51E+02	Not Applicable
1,2-Dichloroethane	107-06-2		**1.42E-03**	1.42E-03	1.42E-03	1.42E-03	8.10E-04	5.00E-03	2.86E-03	5.32E+01	8.11E+00
Acetone	67-64-1		**9.35E+00**	9.35E+00	9.35E+00	8.19E-01	9.35E+00	4.00E+00	4.56E+01	2.60E+05	Not Applicable
cis-1,2-Dichloroethene	156-59-2		**6.01E-02**	6.01E-02	6.01E-02	2.06E-02	6.01E-02	7.00E-02	2.04E-01	4.09E+03	Not Applicable
Cyclohexane	110-82-7		**1.15E+01**	1.15E+01	1.15E+01	3.29E-03	1.15E+01	5.00E-03	1.75E+01	1.16E+04	Not Applicable
Ethylbenzene	100-41-4		**7.85E-01**	7.85E-01	7.85E-01	7.85E-01	3.26E-02	7.00E-01	2.91E-02	1.05E+04	1.22E+02
Isopropylbenzene	98-82-8		**1.72E+00**	1.72E+00	1.72E+00	8.19E-03	1.72E+00	5.00E-03	1.05E+00	4.79E+03	Not Applicable
Methylene Chloride	75-09-2		**1.16E-01**	1.16E-01	1.16E-01	1.28E-03	1.16E-01	5.00E-03	4.54E-01	1.61E+03	6.62E+03
Tetrachloroethene	127-18-4		**4.46E-02**	4.46E-02	4.46E-02	2.27E-03	4.46E-02	5.00E-03	9.81E-02	1.52E+02	4.09E+02
Toluene	108-88-3		**3.63E+00**	3.63E+00	3.63E+00	6.92E-01	3.63E+00	1.00E+00	5.24E+00	3.28E+04	Not Applicable
Trichloroethene	79-01-6		**1.87E-03**	1.87E-03	1.87E-03	1.79E-03	1.87E-03	5.00E-03	5.24E-03	7.06E+00	2.38E+01
Xylenes (Total)	1330-20-7		**9.85E+00**	9.85E+00	9.85E+00	9.85E+00	2.83E-01	1.00E+01	2.88E-01	1.14E+03	Not Applicable
bis(2-ethylhexyl)phthalate	117-81-7		**4.89E+01**	4.89E+01	4.89E+01	3.11E+01	4.89E+01	1.30E-01	2.04E-01	4.09E+04	4.09E+03

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RAGS *Risk Assessment Guidance for Superfund, Volume I--Human Health evaluatkon Manual (Part B, Development of Risk Based Preliminary Remediation Goals)* (EPA, December 1991)

Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).
NA - Not Applicable

Type 4 Risk Reduction Standard Calculations for Soil
Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Soil-to-Air Volatilization Factor (m3/kg)	Alpha Calculation (cm3/s)	Kas Calculation (g soil/cm3 air)	Cancer Slope Factor				Chronic Reference Dose		
					Target Risk	Oral (1/mg/kg-day)	Inhalation (1/mg/kg-day)	Inhalation Unit Risk (ug/m3)-1	Oral (mg/kg-day)	Inhalation (mg/m3)	Inhalation (mg/kg-day)
		VF	Alpha	Kas	TR	Sfo	Sfi	IUR	RfDo	RfCi	RfDi
1,1,1-Trichloroethane	71-55-6	1.55E+03	6.43E-03	8.03E-01	1.00E-05				2.0E+00	5.0E+00	1.43E+00
1,1-Dichloroethane	75-34-3	2.11E+03	4.05E-03	3.62E-01	1.00E-05	5.7E-03	5.6E-03	1.6E-06	2.0E-01		
1,1-Dichloroethene	75-35-4	8.62E+02	1.55E-02	1.68E+00	1.00E-05				5.0E-02	2.0E-01	5.71E-02
1,2-Dichloroethane	107-06-2	5.23E+03	7.43E-04	6.11E-02	1.00E-05	9.1E-02	9.1E-02	2.6E-05	6.0E-03	7.0E-03	2.00E-03
Acetone	67-64-1	6.69E+03	4.59E-04	3.04E-02	1.00E-05				9.0E-01	3.1E+01	8.86E+00
cis-1,2-Dichloroethene	156-59-2	2.73E+03	2.57E-03	2.11E-01	1.00E-05				2.0E-03		
Cyclohexane	110-82-7	1.32E+03	7.18E-03	1.41E+00	1.00E-05					6.0E+00	1.71E+00
Ethylbenzene	100-41-4	7.61E+03	3.54E-04	3.62E-02	1.00E-05	1.1E-02	8.8E-03	2.5E-06	1.0E-01	1.0E+00	2.86E-01
Isopropylbenzene	98-82-8	8.40E+03	2.91E-04	3.38E-02	1.00E-05				1.0E-01	4.0E-01	1.14E-01
Methylene Chloride	75-09-2	2.11E+03	4.14E-03	3.07E-01	1.00E-05	2.0E-03	3.5E-05	1.0E-08	6.0E-03	6.0E-01	1.71E-01
Tetrachloroethene	127-18-4	2.64E+03	2.57E-03	3.82E-01	1.00E-05	2.1E-03	9.1E-04	2.6E-07	6.0E-03	4.0E-02	1.14E-02
Toluene	108-88-3	5.62E+03	6.43E-04	5.82E-02	1.00E-05				8.0E-02	5.0E+00	1.43E+00
Trichloroethene	79-01-6	2.44E+03	3.07E-03	3.33E-01	1.00E-05	4.6E-02	1.4E-02	4.1E-06	5.0E-04	2.0E-03	5.71E-04
Xylenes (Total)	1330-20-7	7.83E+03	3.36E-04	2.77E-02	1.00E-05				2.0E-01	1.0E-01	2.86E-02
bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	NA	1.00E-05	1.4E-02	8.4E-03	2.4E-06	2.0E-02		

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Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).
NA - Not Applicable

Type 4 Risk Reduction Standard Calculations for Soil
Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Effective Diffusivity (cm2/s)	Molecular Diffusivity (cm2/s)	Henry's Law Constant (unitless)	Henry's Law Constant (atm-m3/mole)	Soil to Water Partition Coefficient (g soil/cm3 air)	Soil to Water Partition Coefficient (L/kg)	Organic Carbon Partition Coefficient (L/kg)	Target Groundwater Concentration (mg/L)
		Dei	Dia	unitless	(atm-m3/mole)	Kdv	Kd	Koc	MCL
1,1,1-Trichloroethane	71-55-6	4.58E-02	6.48E-02	7.03E-01	1.72E-02	8.78E-01	8.78E-02	4.39E+01	2.00E-01
1,1-Dichloroethane	75-34-3	5.92E-02	8.36E-02	2.30E-01	5.62E-03	6.36E-01	6.36E-02	3.18E+01	4.00E+00
1,1-Dichloroethene	75-35-4	6.10E-02	8.63E-02	1.07E+00	2.61E-02	6.36E-01	6.36E-02	3.18E+01	7.00E-03
1,2-Dichloroethane	107-06-2	6.06E-02	8.57E-02	4.82E-02	1.18E-03	7.92E-01	7.92E-02	3.96E+01	5.00E-03
Acetone	67-64-1	7.49E-02	1.06E-01	1.43E-03	3.50E-05	4.73E-02	4.73E-03	2.36E+00	4.00E+00
cis-1,2-Dichloroethene	156-59-2	6.25E-02	8.84E-02	1.67E-01	4.08E-03	7.92E-01	7.92E-02	3.96E+01	7.00E-02
Cyclohexane	110-82-7	3.22E-02	4.55E-02	1.86E+00	1.01E-01	2.92E+00	2.92E-01	1.46E+02	
Ethylbenzene	100-41-4	4.84E-02	6.85E-02	3.22E-01	7.88E-03	8.92E+00	8.92E-01	4.46E+02	7.00E-01
Isopropylbenzene	98-82-8	4.26E-02	6.03E-02	4.70E-01	1.15E-02	1.40E+01	1.40E+00	6.98E+02	
Methylene Chloride	75-09-2	7.07E-02	9.99E-02	1.33E-01	3.25E-03	4.35E-01	4.35E-02	2.17E+01	5.00E-03
Tetrachloroethene	127-18-4	3.57E-02	5.05E-02	7.24E-01	1.77E-02	1.90E+00	1.90E-01	9.49E+01	5.00E-03
Toluene	108-88-3	5.50E-02	7.78E-02	2.71E-01	6.64E-03	4.68E+00	4.68E-01	2.34E+02	1.00E+00
Trichloroethene	79-01-6	4.86E-02	6.87E-02	4.03E-01	9.85E-03	1.21E+00	1.21E-01	6.07E+01	5.00E-03
Xylenes (Total)	1330-20-7	5.99E-02	8.47E-02	2.12E-01	5.18E-03	7.66E+00	7.66E-01	3.83E+02	1.00E+01
bis(2-ethylhexyl)phthalate	117-81-7	1.23E-02	1.73E-02	1.10E-05	2.70E-07	2.39E+03	2.39E+02	1.20E+05	6.00E-03

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Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).
NA - Not Applicable

Parameters, Definitions, and Standard Assumptions Used in Type 4 Risk Reduction Calculations for Soil

Factor	Value	Units	Notes
Target Risk for Class A and B carcinogens	1.0E-05		
Target Risk for Class C Carcinogens	1.0E-04		
Target Hazard Index	1		
Adult Body Weight	70	kg	
Averaging Time (carcinogen)	70	years	
Averaging Time (non-carcinogen)	25	years	
Exposure Duration	25	years	
Exposure Frequency	250	days/year	
Daily Water Ingestion Rate	1	L/day	
Soil Ingestion Rate	50	mg/day	
Daily Inhalation Rate	20	m3/day	
Particulate Emission Factor	4.63E+09	m3/kg	
Water to Air Volatilization Factor	0.5	L/m3	
Length of Side of Contaminated Area	45	m	
Wind Speed	2.25	m/s	
Diffusion Height	2	m	
Area of Contamination	2.03E+07	cm2	
Exposure Interval	7.9E+08	s	
Density of Soil Solids	2.65	g/cm3	
Fraction Organic Carbon in Soil	0.002		
Soil Organic Carbon Fraction	0.02		
Total Soil Porosity	0.35		1
Soil Porosity	0.43		
Dilution Attenuation Factor	1		
Water Filled Soil Porosity	0.3		
Air Filled Soil Porosity	0.13		2
Dry Soil Bulk Density	1.5	kg/L	

cm	centimeter
g	Gram
kg	Kilogram
L	Liter
mg	Milligram
m	Meter
s	Second

Notes:

Unless otherwise noted, values are taken from the Hazardous Sites Response Act Rules, Appendix III, Table 3.

1. Value calculated with subtracting ratio of Dry Soil Bulk Density to Density of Solid Soils from 1.
2. Value obtained by subtracting the water filled porosity value from the total porosity value.

Type 4 Risk Reduction Standard Calculations for Groundwater

Apollo Industries, Smyrna, Georgia

Constituent	CAS No.	Notes	Type 4 RRS (mg/L)	Chronic Risk Calculation RAGS Equation 2 (mg/L)	Cancer Risk Calculation RAGS Equation 1 (mg/L)	Cancer Slope Factor				Chronic Reference Factor			Henry's Law Constant (unitless)
						Target Risk	Oral (1/mg/kg-day)	Inhalation (1/mg/kg-day)	Inhalation Unit Risk (ug/m3)-1	Oral Dose (mg/kg-day)	Inhalation Concentration (mg/m3)	Inhalation (mg/kg-day)	
1,1,1-Trichloroethane	71-55-6		**1.36E+01**	1.36E+01	Not Applicable	1.0E-05				2.0E+00	5.0E+00	1.43E+00	7.0E-01
1,1,2-Trichloroethane	79-00-5		**5.83E-04**	5.83E-04	4.64E-03	1.0E-05	5.7E-02	5.60E-02	1.6E-05	4.0E-03	2.0E-04	5.71E-05	3.4E-02
1,1-Dichloroethane	75-34-3		**4.64E-02**	2.04E+01	4.64E-02	1.0E-05	5.7E-03	5.60E-03	1.6E-06	2.0E-01			2.3E-01
1,1-Dichloroethene	75-35-4		**5.24E-01**	5.24E-01	Not Applicable	1.0E-05				5.0E-02	2.0E-01	5.71E-02	1.1E+00
1,2-Dichloroethane	107-06-2		**2.86E-03**	1.98E-02	2.86E-03	1.0E-05	9.1E-02	9.10E-02	2.6E-05	6.0E-03	7.0E-03	2.00E-03	4.8E-02
1,4-Dioxane	123-91-1		**1.04E-02**	8.52E-02	1.04E-02	1.0E-05	1.0E-01	1.75E-02	5.0E-06	3.0E-02	3.0E-02	8.57E-03	2.0E-04
2-Butanone	78-93-3		**1.18E+01**	1.18E+01	Not Applicable	1.0E-05				6.0E-01	5.0E+00	1.43E+00	2.3E-03
4-Methyl-2-Pentanone	108-10-1		**4.23E+00**	4.23E+00	Not Applicable	1.0E-05				8.0E-02	3.0E+00	8.57E-01	5.6E-03
Acetone	67-64-1		**4.56E+01**	4.56E+01	Not Applicable	1.0E-05				9.0E-01	3.1E+01	8.86E+00	1.4E-03
Benzene	71-43-2		**8.72E-03**	7.21E-02	8.72E-03	1.0E-05	5.5E-02	2.73E-02	7.8E-06	4.0E-03	3.0E-02	8.57E-03	2.3E-01
Carbon Disulfide	75-15-0		**1.70E+00**	1.70E+00	Not Applicable	1.0E-05				1.0E-01	7.0E-01	2.00E-01	5.9E-01
Chlorobenzene	108-90-7		**1.36E-01**	1.36E-01	Not Applicable	1.0E-05				2.0E-02	5.0E-02	1.43E-02	1.3E-01
Chloroform	67-66-3		**3.42E-03**	2.24E-01	3.42E-03	1.0E-05	3.1E-02	8.05E-02	2.3E-05	1.0E-02	9.8E-02	2.80E-02	1.5E-01
cis-1,2-Dichloroethene	156-59-2		**2.04E-01**	2.04E-01	Not Applicable	1.0E-05				2.0E-03			1.7E-01
Cyclohexane	110-82-7		**1.75E+01**	1.75E+01	Not Applicable	1.0E-05					6.0E+00	1.71E+00	6.1E+00
Ethylbenzene	100-41-4		**2.91E-02**	2.27E+00	2.91E-02	1.0E-05	1.1E-02	8.75E-03	2.5E-06	1.0E-01	1.0E+00	2.86E-01	3.2E-01
Freon-113 (Trichloro-1,2,2-trifluoroethane,1,1,2-)	76-13-1		**8.52E+01**	8.52E+01	Not Applicable	1.0E-05				3.0E+01	3.0E+01	8.57E+00	2.2E+01
Isopropylbenzene	98-82-8		**1.05E+00**	1.05E+00	Not Applicable	1.0E-05				1.0E-01	4.0E-01	1.14E-01	4.7E-01
Methylene Chloride	75-09-2		**4.54E-01**	4.54E-01	1.22E+00	1.0E-05	2.0E-03	3.50E-05	1.0E-08	6.0E-03	6.0E-01	1.71E-01	1.3E-01
Tetrachloroethene	127-18-4		**9.81E-02**	9.81E-02	2.56E-01	1.0E-05	2.1E-03	9.10E-04	2.6E-07	6.0E-03	4.0E-02	1.14E-02	7.2E-01
Toluene	108-88-3		**5.24E+00**	5.24E+00	Not Applicable	1.0E-05				8.0E-02	5.0E+00	1.43E+00	2.7E-01
trans-1,2-Dichloroethene	156-60-5		**1.61E-01**	1.61E-01	Not Applicable	1.0E-05				2.0E-02	6.0E-02	1.71E-02	1.7E-01
Trichloroethene	79-01-6		**5.24E-03**	5.24E-03	1.51E-02	1.0E-05	4.6E-02	1.44E-02	4.1E-06	5.0E-04	2.0E-03	5.71E-04	4.0E-01
Vinyl Chloride	75-01-4		**3.27E-03**	1.50E-01	3.27E-03	1.0E-05	7.2E-01	1.54E-02	4.4E-06	3.0E-03	1.0E-01	2.86E-02	1.1E+00
Xylenes (Total)	1330-20-7		**2.88E-01**	2.88E-01	Not Applicable	1.0E-05				2.0E-01	1.0E-01	2.86E-02	2.1E-01
1,3-Dichlorobenzene	541-73-1	1	**6.00E-01**	Not Applicable	Not Applicable	1.0E-05							1.25E-01
1,4-Dichlorobenzene	106-46-7		**5.30E-01**	7.15E+00	5.30E-01	1.0E-05	5.4E-03	3.85E-02	1.1E-05	7.0E-02	8.0E-01	2.29E-01	9.85E-02

mg milligrams
kg kilograms
L liter
HSRA Hazardous Sites Response Act
RRS Risk Reduction Standard
CAS Chemical Abstract Service
RAGS *Risk Assessment Guidance for Superfund, Volume I--Human Health evaluation Manual (Part B, Development of Risk Based Preliminary Remediation Goals)* (EPA, December 1991)

Notes:
Toxicity factors and chemical-specific data was obtained from the USEPA Regional Screening Level (RSL) Table (dated November 2013).
1. HSRA Appendix III Table 1 value used for Type 2 RRS. Highest of value of Appendix III Table 1, background, and detection limited used as directed by GAEPD

Parameters, Definitions, and Standard Assumptions Used in Type 4 Risk Reduction Calculations for Groundwater

Factor	Value	Units	Notes
Target Risk for Class A and B non-carcinogens	1.0E-05		
Target Risk for Class C Carcinogens	1.0E-04		
Target Hazard Index	1		
Adult Body Weight	70	kg	
Averaging Time (carcinogen)	70	years	
Averaging Time (non-carcinogens)	25	years	
Exposure Duration	25	years	
Exposure Frequency	250	days/year	
Daily Water Ingestion Rate	1	L/day	
Soil Ingestion Rate	50	mg/day	
Daily Inhalation Rate	20	m3/day	
Water to Air Volatilization Factor	0.5	L/m3	

m3	cubic meters
kg	Kilogram
mg	milligrams
L	Liter

Notes:

Unless otherwise noted, values are taken from the Hazardous Sites Response Act Rules, Appendix III, Table 3.

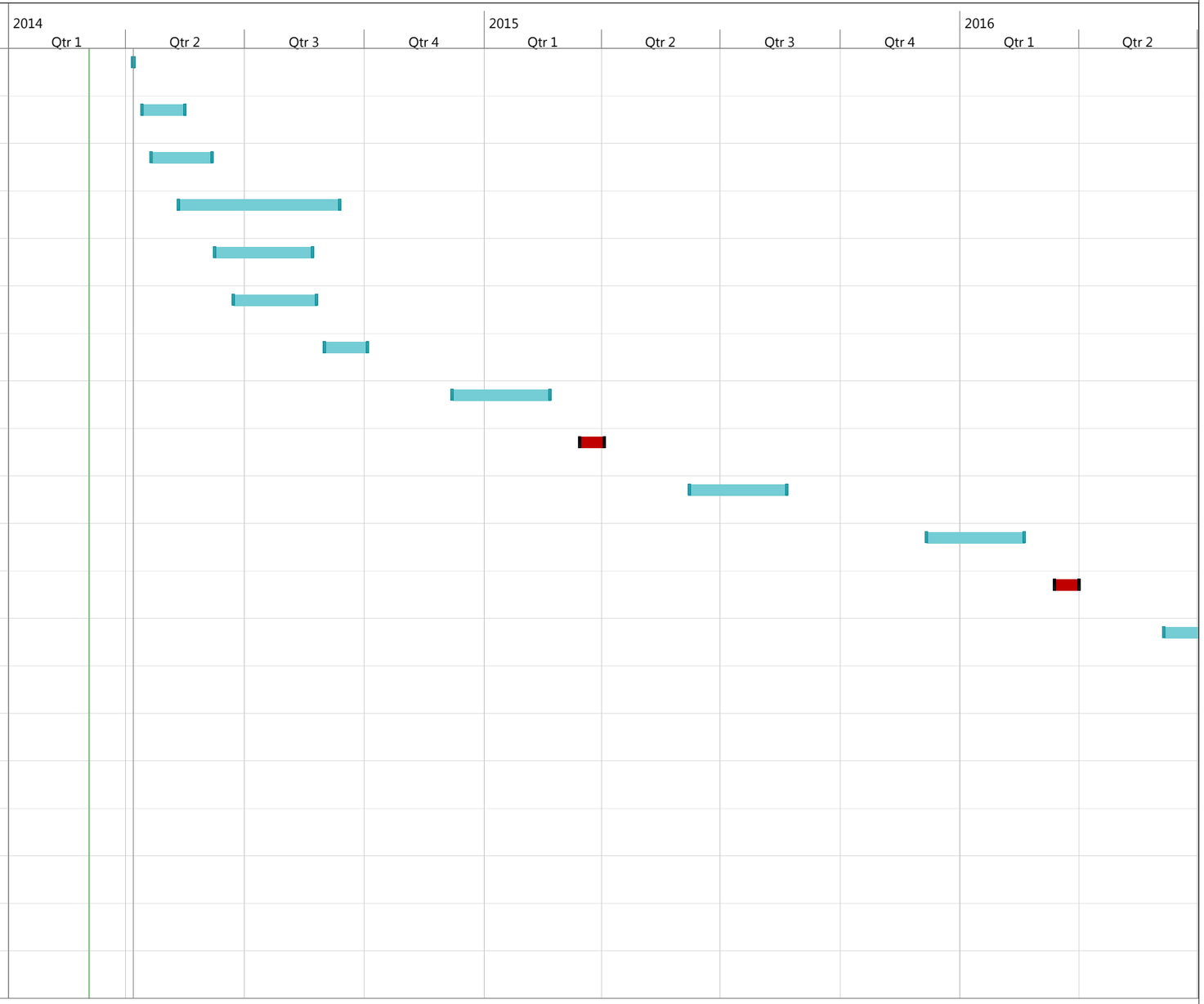
1. Value calculated with subtracting ratio of Dry Soil Bulk Density to Density of Solid Soils from 1.
2. Value obtained by subtracting the water filled porosity value from the total porosity value.

Appendix D

Conceptual Milestone Schedule

Conceptual Milestone Schedule
Voluntary Investigation & Remediation Plan
Apollo Technologies, Inc. - Smyrna, Georgia

Task Name	Start	Finish
1. Notice of VIRP Approval	Mon 4/7/14	Mon 4/7/14
2. Evaluation of SVE System	Mon 4/14/14	Fri 5/16/14
3. Supplemental Ground Water Investigation	Mon 4/21/14	Fri 6/6/14
4. ISCO Injection Pilot Study & Monitoring	Mon 5/12/14	Fri 9/12/14
5. First Semi-annual Monitoring Event & Reporting	Mon 6/9/14	Fri 8/22/14
6. Evaluation of Hydraulic Controls	Mon 6/23/14	Mon 8/25/14
7. First Semi-annual Progress Report (Future Progress Reports to be combined with Semi-annual Monitoring Report)	Mon 9/1/14	Fri 10/3/14
8. Second Semi-annual Monitoring Event & Progress Reporting	Mon 12/8/14	Fri 2/20/15
9. Milestone 1: Documentation of Completion of Horizontal Delineation (On the VRP Parcel)	Mon 3/16/15	Fri 4/3/15
10. Third Semi-annual Monitoring Event & Progress Reporting	Mon 6/8/15	Fri 8/21/15
11. Fourth Semi-annual Monitoring Event & Progress Reporting	Mon 12/7/15	Fri 2/19/16
12. Milestone 2: Documentation of Completion of Horizontal Delineation (Off-site)	Mon 3/14/16	Fri 4/1/16
13. Fifth Semi-annual Monitoring Event & Progress Reporting	Mon 6/6/16	Fri 8/19/16
14. Milestone 3: Submit Updated VIRP with revised CSM, et. al.	Tue 7/5/16	Mon 8/8/16
15. Sixth Semi-annual Monitoring Event & Progress Reporting	Mon 12/5/16	Fri 2/17/17
16. Seventh Semi-annual Monitoring Event & Progress Reporting	Mon 6/5/17	Fri 8/18/17
17. Eighth Semi-annual Monitoring Event & Progress Reporting	Mon 12/4/17	Fri 2/16/18
19. Ninth Semi-annual Monitoring Event & Progress Reporting	Mon 6/4/18	Fri 8/17/18
20. Tenth Semi-annual Monitoring Event & Progress Reporting	Mon 12/3/18	Fri 2/15/19
21: Milestone 4: Compliance Status Report with Requisite Certifications	Mon 1/7/19	Mon 4/1/19



Conceptual Milestone Schedule
Voluntary Investigation & Remediation Plan
Apollo Technologies, Inc. - Smyrna, Georgia

Task Name	2017 Qtr 3	2017 Qtr 4	2017 Qtr 1	2017 Qtr 2	2017 Qtr 3	2017 Qtr 4	2018 Qtr 1	2018 Qtr 2	2018 Qtr 3	2018 Qtr 4	2019 Qtr 1	2019 Qtr 2
1. Notice of VIRP Approval												
2. Evaluation of SVE System												
3. Supplemental Ground Water Investigation												
4. ISCO Injection Pilot Study & Monitoring												
5. First Semi-annual Monitoring Event & Reporting												
6. Evaluation of Hydraulic Controls												
7. First Semi-annual Progress Report (Future Progress Reports to be combined with Semi-annual Monitoring Report)												
8. Second Semi-annual Monitoring Event & Progress Reporting												
9. Milestone 1: Documentation of Completion of Horizontal Delineation (On the VRP Parcel)												
10. Third Semi-annual Monitoring Event & Progress Reporting												
11. Fourth Semi-annual Monitoring Event & Progress Reporting												
12. Milestone 2: Documentation of Completion of Horizontal Delineation (Off-site)												
13. Fifth Semi-annual Monitoring Event & Progress Reporting												
14. Milestone 3: Submit Updated VIRP with revised CSM, et. al.												
15. Sixth Semi-annual Monitoring Event & Progress Reporting												
16. Seventh Semi-annual Monitoring Event & Progress Reporting												
17. Eighth Semi-annual Monitoring Event & Progress Reporting												
19. Ninth Semi-annual Monitoring Event & Progress Reporting												
20. Tenth Semi-annual Monitoring Event & Progress Reporting												
21: Milestone 4: Compliance Status Report with Requisite Certifications												