



# **VOLUNTARY INVESTIGATION AND REMEDIATION PLAN**

**AMC INTERNATIONAL, INC.  
310 BROOKHOLLOW INDUSTRIAL BOULEVARD  
DALTON, WHITFIELD COUNTY, GEORGIA  
HSI SITE NO. 10405**

Submitted to:

**Georgia Department of Natural Resources  
Hazardous Sites Response and Remediation Program  
Suite 1462, East Tower  
2 Martin Luther King Jr. Drive SE  
Atlanta, Georgia 30334**

Prepared for:

**AMC International, Inc.**  
310 Brookhollow Industrial Boulevard  
Dalton, Georgia

Prepared by:

**AMEC Environment & Infrastructure, Inc.**  
1075 Big Shanty Road NW, Suite 100  
Kennesaw, Georgia 30144  
Project No: 6122-12-0076

**May 2012 / Revised June 22, 2012 / Revised April 12, 2013**



April 12, 2013

Mr. Derrick Williams  
Program Manager  
Georgia Department of Natural Resources  
Hazardous Site Response and Remediation Program  
Suite 1462, East Tower  
2 Martin Luther King Jr. Drive SE  
Atlanta, Georgia 30334

**Subject: Voluntary Remediation Program Application  
AMC International, Inc.  
310 Brookhollow Industrial Boulevard  
Dalton, Whitfield County, Georgia  
HSI Site No. 10405**

Dear Mr. Williams:

On behalf of AMC International, Inc., AMEC Environment & Infrastructure, Inc. (AMEC) respectfully submits the attached updated Voluntary Remediation Program Application and streamlined Voluntary Investigation and Remediation Plan (VIRP) for the above-referenced site. Pertinent elements of a Draft Brownfield Prospective Purchaser Corrective Action Plan have been incorporated into the VIRP since this property will be retained by AMC International, Inc. The Voluntary Remediation Program Application fee was submitted previously (check number 104233, dated May 31, 2012)

Please contact us at 770-421-3400 with any questions you may have regarding this submittal. Thank you for your assistance with this project.

Sincerely,

**AMEC Environment & Infrastructure, Inc.**

David E. Smoak, P.G.  
Project Manager

Gregory J. Wrenn, P.E.  
Principal Engineer

Daniel R. Grogan.  
Sr. Project Manager

cc: Ms Maria Callas, AMC International  
Ms. Barbara Gallo, Krevolin & Horst  
J. Leonard Ledbetter, AMEC

Attachments: VRP Application and Checklist, Updated April 12, 2013  
Voluntary Investigation & Remediation Plan, Updated April 12, 2013

**Correspondence:**

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## 1.0 VOLUNTARY REMEDIATION PROGRAM APPLICATION FORM AND CHECKLIST

The Georgia Environmental Protection Division (EPD) has set certain criteria for a property and a responsible party to apply for the Voluntary Remediation Program (VRP). AMC International, Inc. (AMC), wishes to enter its Dalton, Georgia, facility into the VRP. A site location map is provided as Figure 1. The VRP Application Form and Checklist are being submitted concurrently with this Voluntary Investigation and Remediation Plan (VIRP).

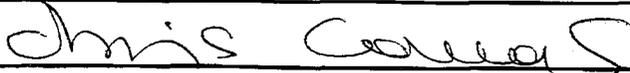
Four adjoining parcels currently owned by AMC International, Inc. (6.5 acres comprising the main production operations property), AMC Ventures, Inc., (12.2 acres) and Brookhollow South Ventures, LLC (22.7 acres) are proposed as qualifying properties under the VRP and at least some portions of each have been undergoing assessment/remediation under the Georgia Hazardous Site Response Act (HSRA) regulatory authority. A survey drawing depicting the four parcel boundaries is provided in Appendix A. A Site Plan and Facility layout showing areas of importance to ongoing assessment and remedial activities are presented as Figures 2 and 3, respectively. The four tracts (Appendix A) include Tract 1 (17.65 acres) and Tract 4 (5.0 acres) owned by Brookhollow which comprise a total of 22.65 acres (Tax ID Parcel 13-025-017), Tract 3 owned by AMC International, Inc. comprised of 6.5 acres (Tax ID Parcel 13-025-01-007 and the westernmost portion of Tax ID Parcel 13-025-01-002), and Tract 2 owned by AMC Ventures, Inc. comprised of 12.2 acres (eastern  $\frac{3}{4}$  of Tax ID Parcel 13-025-01-002 and recently acquired Tax ID Parcel 13-025-01-008 [AMC Ventures property]).

There are three additional parcels that will need to have access agreements in place for proposed delineation monitoring wells including:

- Parcel No. 13-025-01-004 directly to the north (owned by UTT Properties, LLC)
- Parcel No. 13-025-01-009, adjacent to the northeast portion of the site (owned by Kenneth C. White), and.
- Parcel No. 13-026-01-012 bordering the northwest side of the site which may be impacted by the downgradient extent of the 1,1,1-TCA plume (owned by Kenneth White)

Depending on sampling results from these proposed monitoring wells, these parcels could become part of the VRP requiring the owner's express permission to conduct voluntary remediation activities.

## Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	AMC International, Inc.				
CONTACT PERSON/TITLE	Chris Callas, CEO				
ADDRESS	1850 S. Cobb Industrial Boulevard				
PHONE	770-433-0210	FAX		E-MAIL	Mcallas@apolloind.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Gregory J. Wrenn		GA PE/PG NUMBER	PE #25565	
COMPANY	AMEC Environment & Infrastructure, Inc.				
ADDRESS	3200 Town Point Drive				
PHONE	770-421-3472	FAX	770-421-3486	E-MAIL	Greg.Wrenn@amec.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(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.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(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.</p> <p>(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.</p> <p>In order to be considered a participant under the VRP:</p> <p>(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.</p> <p>(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>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.</p> <p>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.</p>					
APPLICANT'S SIGNATURE					4-12-13
APPLICANT'S NAME/TITLE (PRINT)	Chris Callas/CEO			DATE	

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10405	Date HSI Site listed	January 3, 1996
HSI Facility Name	AMC International, Inc.	NAICS CODE	339999
PROPERTY INFORMATION			
TAX PARCEL ID	13-025-01-007 (Tract 3)	PROPERTY SIZE (ACRES)	6.5636
PROPERTY ADDRESS	310 Brookhollow Industrial Boulevard		
CITY	Dalton	COUNTY	Whitfield
STATE	Georgia	ZIPCODE	30721
LATITUDE (decimal format)	34° 42' 27.66" North	LONGITUDE (decimal format)	84° 57' 18" West
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	AMC International, Inc.	PHONE #	770-433-0210
MAILING ADDRESS	1850 S. Cobb Industrial Boulevard		
CITY	Smyrna	STATE/ZIPCODE	GA 30082
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	<b>\$5,000 APPLICATION FEE</b> 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.)	<b>Check # Check Date</b>	
2.	<b>WARRANTY DEED(S)</b> FOR QUALIFYING PROPERTY.	<b>Appendix A</b>	
3.	<b>TAX PLAT</b> OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	<b>Appendix A</b>	
4.	<b>ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES</b> OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	<b>Attached</b>	
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 <b>PROJECTED MILESTONE SCHEDULE</b> 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	<b>Figure 20</b>	

	<p>during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>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:</p>		
5.a.	<p>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;</p>	Figure 20	
5.b.	<p>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;</p>	Figure 20	
5.c.	<p>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</p>	Figure 20	
5.d.	<p>Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.</p>	Figure 20	
6.	<p><b>SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:</b></p> <p>"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, <u>et seq.</u>). 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.</p> <p>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.</p> <p>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."</p> <p><u>Gregory J. Wrenn PE # 25565</u> Printed Name and GA PE/PG Number</p> <p><u>April 12 2013</u> Date</p> <p><u>Gregory J. Wrenn</u> Signature and Stamp</p> 		

**ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)**

PROPERTY INFORMATION			
TAX PARCEL ID	13-025-01-002 (part of Tract 2)	PROPERTY SIZE (ACRES)	9.266
PROPERTY ADDRESS			
CITY	Dalton	COUNTY	Whitfield
STATE	Georgia	ZIPCODE	30721
LATITUDE (decimal format)	34° 42' 24.27" North	LONGITUDE (decimal format)	84° 57' 15.87" West
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	AMC Ventures, Inc.	PHONE #	770-433-0210
MAILING ADDRESS	1850 S. Cobb Industrial Boulevard		
CITY	Smyrna	STATE/ZIPCODE	GA 30082

PROPERTY INFORMATION			
TAX PARCEL ID	13-025-01-008 (part of Tract 2)	PROPERTY SIZE (ACRES)	5.1608
PROPERTY ADDRESS			
CITY	Dalton	COUNTY	Whitfield
STATE	Georgia	ZIPCODE	30721
LATITUDE (decimal format)	34° 42' 28.81" North	LONGITUDE (decimal format)	84° 57' 12.41" West
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	AMC Ventures, Inc. (Former Peeples)	PHONE #	770-433-0210
MAILING ADDRESS	1850 S. Cobb Industrial Boulevard		
CITY	Smyrna	STATE/ZIPCODE	GA 30082

PROPERTY INFORMATION			
TAX PARCEL ID	13-025-017 (Tract 1 + Tract 4)	PROPERTY SIZE (ACRES)	22.6494
PROPERTY ADDRESS	0 Kraft Drive		
CITY	Dalton	COUNTY	Whitfield
STATE	Georgia	ZIPCODE	30721
LATITUDE (decimal format)	34.7044	LONGITUDE (decimal format)	-84.9494
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Brookhollow South Ventures LLC	PHONE #	
MAILING ADDRESS	1850 S. Cobb Industrial Boulevard		
CITY	Smyrna	STATE/ZIPCODE	GA 30082

## 2.0 BACKGROUND

The original site was developed in 1983 for the storage of yarn. Accutech Industries purchased the property in 1986 for aerosol formulation/packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC purchased the property in 1995 from Accutech Industries and continued aerosol packaging operations. The property was listed on the Hazardous Site Inventory (HSI) in January, 1996 (HSI Site No. 10405).

The main facility property that houses the current industrial manufacturing operations occupies approximately 6.5 acres. A survey map and legal description is included in Appendix A. The property includes the original AMC International 4.5 acre Parcel (13-025-01-007) along with 2 acres (shown as part of Tract 3 on survey plat) acquired from AMC Ventures Parcel (13-025-01-002). The AMC International Parcel Number 13-025-01-007 contains an approximate 59,000-square foot production facility. AMC completed construction of a plant expansion in 2012 on the second parcel (westernmost portion of 13-025-01-002), which was previously undeveloped.

The original discovery of a release of volatile organic compounds (VOCs) to the environment at the former Accutech facility occurred during Phase I and II Environmental Assessments conducted in connection with AMC's purchase of the facility in 1995. The primary sources of impacts identified at the time appeared to be associated with Accutech's old tank farm and a septic tank/drain field system. Environmental assessment/remediation activities were initiated in 1995 to address impacts around the old tank farm and septic system (Figure 3). The property was subsequently listed on the Georgia Hazardous Site Inventory (HSI) in January 1996. A new tank farm with secondary containment and batch room were built along the southeast side of the facility to replace the old tank farm in 1995, and the facility also discontinued use of the septic system and connected to the City of Dalton Sewer System in 1995.

In June 2001, a fire in the batch room (Figure 3) at the southeastern portion of the facility also resulted in the release of VOCs to the environment. Additional assessment and remediation activities were initiated at the site to address the batch room fire release and have continued under HSRA. The site impacts have been undergoing remediation via the operation of two separate soil vapor extraction (SVE) and groundwater recovery and treatment systems. Originally, recovered groundwater was treated via air stripping and carbon polishing and

returned to the subsurface via the use of two separate infiltration galleries (Figure 3). Due to expansion and construction of a new building, initiated in April 2012, the infiltration gallery for the batching room fire groundwater recovery system was temporarily taken out of service and treated discharge was re-plumbed to the sanitary sewer for discharge under a publicly owned treatment works (POTW) pretreatment permit after air stripping and carbon polishing. The future use of the infiltration gallery will be determined following construction and planned evaluations.

This VIRP addresses the following Recognized Environmental Conditions (RECs), which were identified in the Phase 1 Environmental Site Assessment conducted by AMEC in April 2012 (Appendix B):

1. The pre-1995 former Accutech tank farm release area in the northwest portion of the site, which is under ongoing assessment and remediation activities under HSRA. In addition, Accutech operated a former batch room located in the northwest corner of the building adjacent to the former tank farm, which requires additional assessment.
2. The former Accutech septic drainfield, which was abandoned when AMC purchased the property in 1995.
3. The 2001 previous batch room fire release area investigation and remediation efforts affecting the southeast portion of the site but primarily extending offsite delineation.
4. The current batch room area where staining product has been observed on the floor.
5. The current AST area, truck unloading and drainage areas.

The scope of work proposed to assess these historic and potential RECs is summarized in Section 7.1. Supplemental information on these RECs is provided below.

## **2.1 RECs 1 AND 2 – FORMER ACCUTECH TANK FARM AND DRAIN FIELD**

The two areas of concern were the off-loading manifold located west of the former tank farm at the northwest corner of the facility and the former septic tank and drain field system near the east central side of the facility. It appeared from investigation the likely origin of the release was the off-loading of tankers at the off-loading manifold, which was located at ground level some 6 to 8 feet below the floor of the former raised tank farm. The tank farm was on concrete and diked but the manifold was relatively unprotected. It is suspected that unintentional spills occurred when delivery hoses were connected or disconnected from the off-loading manifold. Additionally, the original batch room was located inside the building adjacent to the old tank farm on the northwest corner of the building.

At the time of AMC's purchase in 1995, a septic tank and drain field (no longer active) was used to dispose of domestic waste from the facility. This former septic tank/drain field system was located on the east side of the facility (Figure 2). Soil and groundwater samples indicated COC's had been released from the former septic system. Further investigation determined that 1,1,1-TCA was used in the bathrooms as a hand cleaner and is the suspected source of the septic systems release. A concentration of 1,000 ppb of 1,1,1 TCA was found in DMW-3 (MW-3) which was located in the vicinity of the former drain field (Appendix C-1).

AMC discontinued use of the old tank farm and septic system upon their purchase of the property in 1995. A new batching room and tank farm had been constructed on the southeast and east sides (front) of the building, respectively. The tank farm is still in use; however, the batching room at the southeast corner was replaced after a fire (See Section 2-2). The tank farm was constructed on concrete and diked. The waste water discharge to the former septic system was connected to the public sewer via a lift station in the former septic tank. No water goes to the drain field, which was sealed, and the wastewater level never reaches the level of the former drain field discharge from the septic tank. The original prime COC of concern was 1,1,1-TCA in the soil and groundwater, although some PCE was found in one shallow soil sample near the former tank farm.

Remediation of the area around the former tank farm was initiated in 1995. A total of six soil vapor extraction (SVE) wells and three groundwater recovery wells were installed to address this area (see Section 3.0 and Figure 3).

## **2.2 REC 3 – 2001 BATCH (MIXING) ROOM FIRE**

As indicated above, when Apollo purchased the property in 1995, a new tank farm and batching room (Figures 2 and 3) had been constructed on the southeast side of the facility and operated from 1995 to 2001. In June 2001 a fire occurred in this batch (mixing) room located at the southeast corner of the building (Figure 3). A small explosion followed in the batch room, and the fire involved the batch room and piping manifold connecting the tank farm to the mixing room. There was/is an approximate 10 foot space separating the batch room from the pipe manifold. All of the affected building and tank farm are on concrete, and the tank farm was/is diked. Fire water from fighting the fire ran to the southeast down an embankment to a

flat area southeast of the batch room. It was reported that most of the tank farm was not involved and that little fire water ran east from the tank farm. However, the batching room was destroyed and a new (current) batch room (Figure 3) was constructed on the east side of the building near the current tank farm and has been operational since 2001.

Prior investigative and corrective action documents for the 2001 batching room fire release were previously submitted to EPD showing the soil and groundwater investigation locations and the extent of the contamination. Also the data indicate the predominant groundwater flow is along a geologic discontinuity which runs southwest to northeast. As a consultant to the owner's insurance company, Arcadis installed soil and groundwater remediation systems based on their extensive investigations.

The main COC of the fire release was Tetrachloroethene (PCE). It was reported that the appearance of higher levels of PCE in AMW-9 and AMW-12 were the result of groundwater plume migration and not a result of soil contamination east of the new tank farm. However, it was noted that at least one shallow soil sample location (HA-48) immediately adjacent to the south side of the AST area contained PCE at a concentration of 6.72 mg/kg which exceeds the current calculated Type 4 RRS of 0.5 mg/kg). Based on other soil samples in this area, this impact appears isolated.

### **2.3 REC 4 – CURRENT BATCHING/MIXING ROOM**

A Phase 1 Environmental Site Assessment (ESA) conducted at the facility by AMEC in April 2012 (Appendix B) identified the current batch room as a REC due to liquid present on the floor and staining. No prior sampling has been conducted at this REC.

### **2.4 REC 5 – CURRENT ASTS, TRUCK UNLOADING AND DRAINAGE AREA**

During site visits, observations of the AST area and adjacent Truck unloading area indicated a concern of potential inadvertent chemical discharge through storm event piping which discharged to the ground surface adjacent to the ASTs and through a drainage pipe from the truck unloading area to a shallow ditch just across the gravel drive. While best management practices should prevent any accidental discharges, there is potential for inadvertent discharge during a release.

### 3.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND CORRECTIVE ACTIONS

For historic RECS 1, 2, and 3, various assessment and remediation activities have been conducted and the results reported to EPD in numerous documents since 1995. The following lists the primary documents on which AMEC is partly basing proposed corrective action.

- CSR (June 2002) and Revised CSR (July 2003) prepared by Arcadis, Inc.
- CAP (September 2002) and Revised CAP (July 2003) prepared by Arcadis, Inc.
- Revised CSR (March 2006) prepared by Dobbs Environmental, Inc.
- Response to EPD Comments dated February 7, 2007 (July 2007) prepared by Dobbs Environmental, Inc.
- Response to EPD Comments dated May 27, 2011 (November 2011) prepared by Dobbs Environmental, Inc.
- Semi-Annual Monitoring Report (January 2012) prepared by Dobbs Environmental, Inc.
- Report of Phase I Environmental Site Assessment (April 2012), prepared by AMEC Environment and Infrastructure, Inc.

Historical soil data (Appendix C-1 through C-3), groundwater and surface water data (Appendix D) and groundwater concentrations versus time in select monitoring wells (Appendix E) are presented herein. In early 1995, three monitoring wells (DMW-1, DMW-2, and DMW-3) installed near the old tank farm and former septic system confirmed VOC impacts, primarily 1,1,1 TCA to groundwater. Following completion of the initial investigation into the extent of impacts, SVE and groundwater recovery and treatment was implemented on the western side of the site. A total of six SVE wells and three groundwater recovery wells were installed and operated to address the former Accutech (old tank farm/septic system) release (Figure 3). The SVE wells in this area were shut down in approximately the fall of 2005 after reportedly reaching asymptotic concentrations, and confirmation soil samples collected July 5-6, 2005 (SB-13 and SB-14, Appendix C-3) in the SVE area indicated no constituents of concern exceeding regulatory action levels. Groundwater recovery and treatment in this area is currently ongoing. Recovered groundwater is treated on-site and discharged to an infiltration gallery in the northwest portion of the site (Figure 3). . In September/October 2000 additional investigation was conducted along Brookhollow Industrial Boulevard near the septic drainfield and in the area of the SVE system near the former AST area. The results were submitted to EPD in a March 2001 report (Dobbs Environmental).

On June 25, 2001, the batch room fire on the southeast corner of the building resulted in the release of VOCs, including PCE, trichloroethene (TCE), and breakdown products of those compounds, to the environment. Additional investigation was initiated and reported to EPD in a June 2002 Compliance Status Report (CSR) and a Revised CSR (July 2003). In March 2002, a remediation pilot test was initiated, and a Corrective Action Plan (CAP) was submitted in September 2002. A Revised CAP was submitted in July 2003 and subsequently approved by EPD in March 2005.

A total of 10 SVE wells, four groundwater recovery wells, and eight vacuum-enhanced recovery (VER) wells were originally installed and operated to address the batch room fire release area (Figures 2 and 3). The VER wells were subsequently converted to pneumatic pumping wells in approximately 2007 due to operation and maintenance problems related to maintaining groundwater extraction capability from loss of pump priming in response to water table fluctuations. Both SVE and groundwater recovery and treatment system operation remain ongoing in this area. Soil samples collected in 2005 (Figure 4) showed substantial reductions in concentrations in comparison to those collected in 2001-2002 (Figure 5B), and reductions have likely continued, which is to be assessed in ongoing investigations.

In July 2005, Dobbs Environmental conducted confirmation soil sampling from the two SVE areas. The confirmation sampling was conducted to evaluate the effectiveness of the SVE treatment that had been ongoing for several years at each release location. Fifty-one soil samples were collected from fourteen soil borings and two hand auger locations covering both areas. The results were reported in the Revised and combined CSR Submittal of March 2006 (see Appendix C-3). In summary, the results indicated that detected concentrations of VOCs in soils in the vicinity of the Accutech former tank farm release did not exceed any action levels. Soil sampling results in the batch room fire release area indicated significant improvement when compared to the 2001-2002 investigation samples from the same area.

In March 2006, a Revised CSR that combined and summarized the site data from the historic former Accutech and the 2001 batch room fire release investigations and remedial actions was submitted to EPD. The March 2006 Revised CSR outlined plans for additional delineation activities, some of which required off-site access to be obtained. Numerous documents regarding additional assessment activities, routine groundwater and surface water monitoring,

and remediation system effectiveness have subsequently been submitted to EPD by Dobbs Environmental.

On May, 27, 2011, EPD provided comments to the 2006 Revised CSR and to Semiannual Groundwater Monitoring reports submitted through December 2010. Dobbs provided a Response letter dated November 3, 2011, addressing the EPD comments. EPD has not provided a review letter to the Dobbs responses to comments.

In April 2012, AMEC conducted a Phase I ESA (Appendix B) at the site and identified historical recognized environmental conditions (HREC) associated with the ongoing CSR investigation and remediation activities for the Accutech (prior owner) tank farm release of VOCs in the northwest portion of the site, the 2001 batch room fire release in the southeast portion of the site and potential impacts from a former septic system located near the east-central area of the facility. The Phase I ESA also identified the former (1995-2001) batch room area as a REC due to observed stained concrete, likely due to minor chemical spills, and the association with the 2001 fire release. Soil beneath the concrete of this former batch room was not sampled for the presence of VOCs during the response to the 2001 batch room fire and could potentially be a source of groundwater contamination in the area.

#### 4.0 REGULATED SUBSTANCES AND DELINEATION CONCENTRATION CRITERIA

Results of environmental assessment activities conducted since 1995 document that a release of regulated substances to soil and groundwater has occurred at the site. The constituents detected and the media they were detected in are listed below:

- Acetone (soil and groundwater)
- Benzene (soil)
- 2-Butanone (soil)
- Carbon Disulfide (soil)
- Carbon Tetrachloride (soil and groundwater)
- Chloroethane (groundwater)
- Chloroform (soil and groundwater)
- Cyclohexane (soil)
- Cis-1,2-Dichloroethene (soil and groundwater)
- 1,1-Dichloroethane (soil and groundwater)
- 1,2-Dichloroethane (groundwater)
- 1,1- Dichloroethene (soil and groundwater)
- Ethylbenzene (soil)
- Isopropylbenzene (soil)
- Methylene Chloride (soil and groundwater)
- Naphthalene (soil)
- Toluene (soil and groundwater)
- Tetrachloroethene (soil and groundwater)
- 1,1,1-Trichloroethane (soil and groundwater)
- 1,1,2,2-Tetrachloroethane (soil)
- Trichloroethene (soil and groundwater)
- Xylenes (soil)
- Vinyl Chloride (groundwater)

The selected soil and groundwater delineation concentration criteria allowable under the VRP will be the Type 1 Risk Reduction Standard (RRS) under HSRA, which are included in Appendix F, Table F-1 for soil and Table F-3 for groundwater, respectively. The Types 1 through 4 RRS calculated under HSRA are also provided in the referenced tables and further discussed in Section 6.4. It should be noted that the remediation activities conducted to date have addressed some of the regulated substances released. The most recent soil and groundwater data indicate that 1,1,1-TCA, PCE and their degradation products are the primary constituents of concern at the site. The additional investigation activities discussed in Section 7.1 will provide data to confirm the presence of regulated substances and their concentrations in comparison to the delineation criteria.

## 5.0 INVESTIGATION RESULTS

This section presents a brief summary of the current status of the subsurface impacts at the site.

### 5.1 SUMMARY OF ANALYTICAL RESULTS

The analytical results from previous investigations of soil, groundwater, and surface water are summarized below. The conceptual site model (CSM) discussed in Section 6.0 and associated figures also illustrate the current understanding of site impacts, potential sources, and potential receptors.

#### 5.1.1 Soil

The results of the soil sampling conducted at the site are presented in Appendix C and depicted on Figure 4, 5a, and 5b. Figure 4 and Appendix C-1 show the 1995 soil and groundwater sampling results at the Accutech former truck unloading/tank farm release area prior to initiation of soil and groundwater remediation. Figure 5a depicts the extent of soil impacts (based on PCE) in 2001-2002 from the 2001 batching room fire release and Appendix C-2 provides the analytical summary for these dates. Figure 5b and Appendix C-3 show the results of 2005 soil confirmation sampling at both the former batching room fire release area and at the historic Accutech Tank Farm/Truck Unloading Area. As seen on Figure 5b the residual impacts at the batching room fire release area are significantly improved from the 2001-2002 sampling; the 2005 sampling at the historic Accutech Tank Farm/Truck Unloading Area confirm the effectiveness of the SVE system that operated from approximately 1999 to approximately 2007 based on primary COC (1,1,1 TCA) reductions to below target risk reduction standards in 2005.

VOCs that have been detected at concentrations exceeding the applicable delineation criteria and/or non-residential (Type 3 or 4) RRS (Appendix F, Table F-1) in the most recent soil sampling include methylene chloride, PCE, and TCA. Collectively, declining groundwater concentrations near the source and the apparent diminished effectiveness of SVE on the western portion of the site suggest that non-saturated zone impacts have been adequately remediated such that they are no longer significantly contributing, if at all, to groundwater impacts. Non-saturated zone impacts on the eastern portion of the site may still be present and

require remediation. Additional sampling, as proposed in Section 7.1, will be conducted to evaluate current non-saturated zone impacts and areas to target for additional remediation.

### **5.1.2 Shallow Groundwater**

The results of the most recent groundwater sampling event performed November 2011 are presented in Appendix D and Figures 6 through 12. These figures depict the current extent of the primary VOC impacts and the estimated extent of the VOC plume.

The analytical data (Appendix D ) and the VOC plume figures (Figures 6 through 12) indicate that the extent of the VOC plume is reasonably well defined and has remained relatively stable, likely due to the operation of the groundwater recovery and treatment system. The majority of wells show downward trending concentrations, and in some cases, increasing concentrations may be attributable to nearby pumping wells drawing contaminants toward the recovery wells.

### **5.1.3 Deep Zone Groundwater**

There are two monitoring wells (AMW-11D and DMW-14D) considered to be deep zone vertical delineation wells. Both wells were sampled during the November 2011 sampling event. AMW-11D is located southeast of the former fire release area and only tetrachloroethene was detected in the sample at 0.074 mg/L. The well was resampled in December 2011 and tetrachloroethene was reported below the reporting limit (BRL) of 0.005 mg/L. A shallower zone monitoring well, AMW-10 located in close proximity and slightly upgradient exhibited total VOC's exceeding 31,000 ug/L. These comparative results indicate that the vertical VOC impacts are generally restricted to the residuum and upper weathered rock. The second vertical extent monitoring well, DMW-14D, is located east of the unnamed tributary of Jobs Creek to the east of the Site. Only acetone was reported at 0.011 mg/L and this value was "J" coded, indicating an estimated value, detected below the reporting limit. The results at DMW-14D confirm that deep vertical impacts are not present to the east of the creek.

### **5.1.4 Surface Water**

Two unnamed tributaries of Jobs Creek, one located to the west and the other located to the east, both appear to be downgradient receptors of groundwater from the site. VOCs have not been detected in the creek sample (DSW-5) west of the site in seven sampling events

conducted since April 2007 (Appendix D). This sample location is also a good representation of potential groundwater quality extending to the west from the Accutech release area since groundwater discharge comprises the headwater to the creek in this area.

Since January 2004, two surface water locations (ASW-1 and ASW-2) have been sampled for VOCs at the creek on the east side of the site. ASW-1 located just downgradient of recovery well ARW-3 most recently had a reported detection of acetone at a concentration of 9.4 µg/L, which could potentially be a laboratory artifact. No other VOCs have been detected. ASW-2, the next location downstream, had detections of four compounds detected during the last sampling event: acetone (7.4 µg/L), cis-1,2-dichloroethene (8.3 µg/L), PCE (47 µg/L), and TCE (5.9 µg/L). PCE has been detected at ASW-2 in three of eight sampling events from April 2007 through November 2011. Two additional sampling locations (upgradient "ASW-Upstream" and downgradient "ASW-Bypass") were added as requested by EPD in November 2011. Only 1,1-dichloroethane was detected at a concentration of 0.45 µg/L in the upgradient location (ASW-1 Upstream). No VOCs were detected in at downstream location (ASW-Bypass) during the November 2011 sampling event.

## 6.0 CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) has been developed using the data obtained during previous investigative activities at the site, from the previous reports, and from reviews of published literature. The CSM is graphically presented in Figures 13 through 17A/B. It is intended that the CSM will be updated as new information is gathered for the Site. The CSM 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 and incomplete exposure pathways that exist for the site.

### 6.1 GEOLOGY

The AMC property is located in the Valley and Ridge Physiographic Region of Georgia. This region is characterized by sedimentary rocks of Cambrian, Ordovician, Silurian, Devonian, and Mississippian Age. According to C.W. Cressler, *Geology and Groundwater Resources of Gordon, Whitfield, and Murray Counties, Georgia*, the property is underlain by the lower unit of the Conasauga Formation. This unit is mainly composed of olive-green, tan, and pale red sandy and silty shale with some siltstone, and is approximately 1,000 feet thick. The Conasauga Formation is of Middle to Late Cambrian Age, and is fossiliferous. The other units of the Conasauga Formation include a middle unit, 1,000 feet thick with blue limestone in a light green to yellowish clay shale; and an upper unit, the Maynardville Limestone Member, that is composed of gray limestone and dolomite.

Groundwater occurs in the Conasauga under unconfined water table conditions at depths ranging from less than ten feet below ground surface (bgs) to over 50 feet bgs. The movement of groundwater is within two separate but interconnected water bearing zones. The shallow zone occurs within the soil mantle above the bedrock, and a deeper zone within the rock. Groundwater in the shallow zone is under unconfined water table conditions, and flow typically mimics the overlying topographic contours. In the deeper zone, groundwater flow is not as apparent, relative to the overlying topography and is controlled more by rock fractures, joints and bedding planes and may be semi-confined or confined.

Recharge to the groundwater is through infiltration of precipitation into the soil and/or rock directly, or into the rock from the overlying soil. Discharge is to the streams and rivers from

the soil zone. Rock may lie below the stream valleys or outcrop within the stream, and, therefore, the streams may or may not receive discharge from the rock zone.

The AMC area is characterized by gently to steeply rolling hills separated by flat to gently rolling valleys, where ground surface elevations range from over 900 feet above mean sea level (msl) to under 650 feet msl. The regional topography slopes to the south and east toward the Conasauga River. The Conasauga River is approximately four miles south-southeast of the site.

The depth-to-water across the site, based upon December 2011 data, ranges between 15.34 feet bgs (AMW-6) to 46.53 (DMW-2). AMW-6 is located approximately 200 feet south of the plant near the top of the hill. DMW-2 is approximately 160 feet west of the northern end of the plant at the top of the hill. Based upon AMW-8 (shallow well) and AMW-11D (deep well), the vertical gradient appears to be slightly downward from 735.58 (MW-8) to 734.05 (MW-11D). While these two wells are not a true shallow/deep well cluster, they are relatively close together and have similar measuring point and ground surface elevations. It appears that closer to the top of the hill the gradient may be downward. Using DMW-15 (shallow) and DMW-14D (deep), the vertical gradient near the unnamed tributary of Jobs Creek on the east side of the site appears to be upward from 708.80 (DMW-15) to 711.40 (DMW-14D). These two wells are not a true shallow/deep well cluster, but the measuring point and ground surface elevations fall within 1.05 feet and do provide some indication of the potential vertical gradient near the creek.

The AMC property is located on a ridge top at an elevation ranging from under 780 feet msl to over 800 feet msl. The ridge top trends north-south, and topography falls steeply to the east and west. Relief within a few 100 feet of the AMC property boundaries is over 80 feet. Storm water run-off from the site flows into two unnamed tributaries of Jobs Creek (one to the east and one to the west of the Site) that flows to the southeast and into the Conasauga River. A series of small lakes are located below the AMC property to the west and southwest.

## **6.2 GROUNDWATER FLOW**

Groundwater potentiometric data and maps have been included in numerous previous reports submitted to EPD. Potentiometric surface maps from June 2011 and December 2011 are

included herein as Figures 17a and 17b. Historic groundwater flow data appears to be relatively consistent. The site is situated on a topographically high ridge that trends north to south and steeply slopes in all directions to lower elevations. Thus, groundwater appears to generally mimic surface topography and flows radially in all directions from the topographic high. Groundwater from the northernmost release area appears to generally flow westerly toward the stream west of the site, and groundwater from the southernmost release area appears to flow easterly toward the stream east of the site. Both streams are unnamed tributaries of Jobs Creek. To further refine the CSM, stream gauging stations will be established at each of the surface water monitoring points to provide stream elevation data that will enable further evaluation of stream gains/losses. In conjunction with surveying the stream gauging station elevations, an updated survey of the horizontal and vertical location of all the wells at the site will be conducted to rectify discrepancies noted in previous reports.

Previous reports indicate that the approximate hydraulic conductivity at the site is 0.284 ft/day, and have calculated the approximate groundwater flow velocity to be 0.039 ft/day, using a gradient of 0.04 ft/ft and an effective porosity of 0.29.

### **6.3 POTENTIAL RECEPTORS AND EXPOSURE PATHWAYS**

The information presented in these subsections is summarized from previous reports.

#### **6.3.1 Water Usage**

Potable water is supplied to the site and surrounding vicinity by the City of Dalton municipal system. The City of Dalton withdraws potable water from the Conasauga River, which is located approximately two miles east of the site. The water withdrawal point on the Conasauga River is upgradient of the river's confluence with Jobs Creek.

Well surveys conducted by others have identified 18 potential water wells within two miles of the site. The nearest wells are located approximately 0.6 miles north of the facility. However, because the two nearby streams appear to be groundwater discharge boundaries, no water wells are thought to be at risk of impact by groundwater contaminants from the site and potential groundwater to drinking water well exposure pathways are currently incomplete. Additional information regarding vicinity water supply is presented in Appendix B.

### 6.3.2 Environmental Receptors

The site is generally surrounded by industrial and commercial property. Tracts of undeveloped vegetated land are also present adjacent to the site and are potentially subject to further industrial development. Because the site is located in an industrial area, human health exposures on the site are limited to industrial workers. Streams located east and west of the plant appear to be the nearest discharge boundary for groundwater. The streams may offer potential habitat for ecological receptors. However, an ecological habitat reconnaissance has not been performed to evaluate whether the streams are supportive of aquatic receptors.

### 6.3.3 Environmental Exposure Pathways

Potentially complete exposure pathways for the Site include:

- Ingestion of surface soil
- Inhalation of fugitive dust or volatiles from surface soil
- Ingestion of groundwater (if used for potable water)
- Inhalation of volatiles from groundwater during showering (if used as potable water)
- Inhalation of volatiles from the subsurface through indoor air vapor intrusion

Inhalation of vapors is not currently thought to present unacceptable exposure due to operation of the SVE systems, the presence of the floor slab, and building ventilation systems. However, additional vapor intrusion modeling will be conducted to further evaluate this potential exposure pathway after additional sampling is conducted. There are no drinking water withdrawal points for surface water or groundwater, thus ingestion exposure pathways are currently incomplete. Additionally, there is currently no contact with impacted soil or groundwater, and these exposure pathways can be controlled through the use of Uniform Environmental Covenants.

Groundwater is believed to discharge to surface water features. However, recent monitoring of the eastern stream indicates minimal concentrations in surface water with concentrations ranging from non-detect to 47 micrograms per liter for PCE in 2011. TCE and Cis-1,2-DCE were also detected at concentrations of 5.9 ug/L and 8.3 ug/L, respectively. The concentrations are nondetect at the ASW-bypass monitoring point. Therefore, the streams are unlikely to be points of exposure for off-site recreational users. Nevertheless, the two nearby unnamed streams will be designated as the points of exposure (POE) for groundwater at the site. The continued operation of the groundwater recovery and treatment systems at the site, in

conjunction with additional planned remediation activities, is intended to limit impacts at each potential POE. At present, each of the established surface water monitoring point will be designated as a Point of Demonstration (POD) to evaluate the effectiveness of the remediation activities and demonstrate protection of human health and the environment.

## **6.4 ENVIRONMENTAL REMEDIATION STANDARDS**

The selected remediation standards available under the VRP for the impacted environmental media are discussed below.

### **6.4.1 Soil Criteria**

It is currently AMC's intent to remediate soil to comply with the higher of the Type 3 or 4 RRS (Appendix F, Table F-1) calculated under HSRA. Per Table F-1 the higher of the two is the Type 3 surface and subsurface soil RRS. Soil area averaging, as allowed by the VRP, may be conducted if warranted by the site data to evaluate compliance with soil criteria.

### **6.4.2 Groundwater Criteria**

It is currently AMC's intent to remediate groundwater to comply with the higher of the Type 3 or 4 RRS (Table F-3) calculated under HSRA and to concentrations that are protective of surface water.

VOCs detected in groundwater at concentrations above RRS (Appendix F, table F-3) include Tetrachloroethene, Trichloroethene, 1,1-Dichloroethane, 1,1,1-Trichloroethane and degradation products of these compounds. Types 1 through 4 RRS were calculated for this site and are presented in Appendix F, Table F-3. Because the property usage will be restricted to non-residential, the higher of the Type 3 or 4 RRS applies. However, an environmental covenant will be used to restrict the use of groundwater wells on the qualifying properties. Therefore, site-specific Type 4 RRS with exposure controls may be calculated and used, if necessary, until such time that the control can be eliminated for unrestricted use.

### **6.4.3 Surface Water Criteria**

The remediation criteria for surface water are Georgia In-stream Water Quality Criteria (ISWQC). PCE has been periodically detected in surface water samples from location ASW-2 at concentrations exceeding the ISWQC standard of 3.3 ug/L at the site dating back to 2004. Other VOCs have been detected at levels below applicable ISWQC (see data summary in Appendix D).

## **7.0 PROPOSED VOLUNTARY INVESTIGATION AND REMEDIATION PLAN**

It is AMC's objective to remove the subject property from the HSI through implementation of an efficient voluntary investigation and remediation plan that is protective of human health and the environment. This section outlines the proposed actions anticipated to satisfy the requirements set forth in the Georgia VRP Act.

### **7.1 ADDITIONAL INVESTIGATION ACTIVITIES**

The following activities will be undertaken as appropriate to further investigate the extent of impacts at the site, fill in existing data gaps, and evaluate the effectiveness of SVE and groundwater remediation conducted at the site. The proposed locations of 35 supplemental soil borings and monitoring wells are shown on Figures 18A and 18B, respectively. Additional soil borings/sampling may be required in the former batching room fire release area or other areas, as applicable, to complete requirements of the CSR. Upon completion of additional soil borings, an evaluation of vapor intrusion beneath the building will be conducted. The evaluation will initially be conducted through the use of the Johnson & Ettinger (J&E) model. If necessary to validate the assumptions used in the J&E model, collection and analysis of sub-slab vapor samples may be conducted. It is believed that the investigation activities below will adequately evaluate the potential presence of soil impacts and source material above the water table.

#### **7.1.1 RECs 1 and 2 - Former Accutech Tank Farm and Septic Tank Drain Field**

- Install and sample 2 soil boring in the original (pre-1995) batch room area;
- Install and sample 1 soil boring within the former SVE treatment area to replicate the approximate location of Dobb sample S-1 (1995);
- Install 8 soil borings on the west side of the facility to evaluate areas of unknown status and potential impacts west of the former SVE system associated with the original batch room, former tank farm and the remediation system infiltration gallery;
- Install and sample 2 soil borings in the vicinity of the former septic system and 1 soil boring at the northeast corner of the building;
- Install 1 on-site monitor well to delineate the TCA plume to the south and one off-site well to evaluate potential impacts on parcel 13-025-01-004 to the north; and
- Install a vertical delineation monitor well to the west near existing well DMW-11.

#### **7.1.2 REC 3 – 2001 Batch (Mixing) Room Fire**

- Install and sample 4 soil borings in the former batch room fire release area in the vicinity of the highest previous concentrations detected in soil samples collected in the 2001 and 2005 soil investigations in the area to assess current conditions and progress of the SVE system;

- Install 5 soil borings in the area of historic operations adjacent to the southern wall of the facility and near the boiler room;
- Install 2 soil borings inside the building within the former batch room (destroyed in 2001 fire) to assess potential impacts to sub slab soils;
- Install 2 soil borings to assess residual impacts in the east area of the fire release area;
- Install an additional monitoring well southwest of DMW-13 to delineate groundwater VOC impacts;
- Install an additional monitoring well downgradient of AMW-20 and to the east of surface water sampling location ASW-2; and
- Install an off-site well to evaluate potential impacts on parcel 13-025-01-009 to the north of the AMC Ventures property.

### **7.1.3 REC 4 – Current Batch/Mixing Room**

- Install and sample approximately 3 soil borings within and near the current batch room /production line to assess potential impact to soils beneath the batch room slab and vicinity.

### **7.1.4 REC 5 – Current ASTs, Truck Unloading and Drainage Areas**

- Install and sample 5 soil borings in the vicinity of the current tank farm and truck unloading area, including near the discharge of the drainage pipe from this area to a ditch to the east.

Soil borings/sampling will be conducted using a compact direct-push rig. Continuous samples will be collected in the soil borings from ground surface down to the water table or refusal, whichever comes first. The soil column will be field screened at 1-foot intervals using a photoionization detector (PID). At each soil boring location, soil samples will be initially collected from the 0-2 ft depth interval. A two foot interval from each subsequent 5 ft interval thereafter throughout the unsaturated zone will be collected and submitted for laboratory analysis. Sampling collection preference will be given to the highest PID response interval, and immediately above the water table, or at refusal. Generally, four samples from each boring are to be collected for laboratory analysis. Samples will be collected in accordance with current USEPA Region 4 SESD Operating Procedures. Selected samples will be collected and analyzed by an accredited laboratory for full scan of VOCs, including 1,4-dioxane (EPA Method 8260B). Ambient air will be monitored during the work to check for the presence of combustible gases and work will be suspended if potentially hazardous conditions are encountered.

## 7.2 PROPOSED CONCEPTUAL REMEDIATION ACTIVITIES

### 7.2.1 Proposed Soil Remediation Activities

Corrective action for known non-saturated zone impacts via SVE has been implemented at the site. As discussed previously, the SVE system installed to address impacts in the area of the old tank farm/truck unloading area and original batch room on the west side of the site was shut down in approximately 2005. SVE in the area of the batch room fire release began in 2002 and is ongoing. Figure 3 shows the layout and approximate area of influence of the SVE systems. However, limited data is available to evaluate the status of soil impacts in these areas in comparison to RRS (Appendix F). Additionally, there are other potential areas of soil impact that have not been adequately assessed (new tank farm/truck unloading area and current batch room). The investigation activities described in Section 7.1 should provide sufficient data to evaluate the need for additional corrective action, if any, for non-saturated zone impacts. Should the planned additional testing identify soils impacted with constituents that exceed the appropriate soil RRS (Appendix F), additional soil remediation will be required. The impacted soils will likely be remediated either through the continued operation of the current or, possibly a modified, configuration of SVE. The SVE system installed to address the batch room fire release will continue to be operated until such time that mass recovery rates and/or supplemental soil sampling data indicate that it is no longer necessary. If supplemental soil samples indicate that there are areas of non-saturated zone impacts that require remediation, additional SVE wells will likely be the selected method of remediation.

Excavation and off-site disposal of impacted material may also be implemented, although owing to the configuration of the site and the difficulty in performing significant excavation without serious disruption to plant structures or operations, it is unlikely that large-scale excavation will be practicable. Should limited areas of excavation of impacted soil be selected as a remedial option, the impacted areas will be excavated either to the limits determined by the pre-excavation delineation sampling or confirmed through verification sampling upon completion of the excavation. Excavated material that requires off-site disposal will be placed directly into roll-off boxes or onto lined asphalt pavement with appropriate cover and erosion control. Verification soil samples will be collected along the sidewalls at an approximate rate of one sample for every 25 linear feet of sidewall and per 8-foot height of sidewall with a minimum of one sample per sidewall. Excavation floor samples will be collected at the rate of one sample

for every 1,000 square feet unless the excavation extends to the water table. Soil verification samples will be analyzed by a qualified laboratory for VOCs by EPA test method 8260B.

This work will involve the handling of materials containing substances that are potentially detrimental to the health and safety of construction personnel. Accordingly, the work will be performed in compliance with applicable OSHA regulations, and in accordance with a project specific Health, Safety, and Emergency Response Plan. Disposal characterization samples of the excavated material will be collected and analyzed by an accredited laboratory in accordance with the selected permitted disposal facility's requirements. The excavated impacted soil will be transported in compliance with all applicable regulations for transporting such waste and disposed at a pre-approved disposal facility permitted to accept the designated waste.

During any ground-disturbing activities, an Environmental Management Plan (EMP) will be used to provide guidance for contractors working on-site during such planned activities. The EMP will outline procedures to be followed when working in areas of known environmental impact as well as in the event of discovery of unknown pre-existing environmental conditions such as buried objects of environmental concern. The treatment, excavation, handling, transport, and disposal of the source material will be performed by methods that: (i) prevent contamination of the surrounding environment (soil, water, air), (ii) are in accordance with federal, state, and local laws, and (iii) protect personnel in the remediation area and adjacent areas.

A Type 5 RRS could potentially be implemented where the impracticability of traditional soil remediation techniques can be demonstrated to EPD. The Type 5 RRS is designed to provide long-term protection of human health and the environment through the application of both engineering and institutional controls, such as designating the floor slab as a cap/exposure barrier to impacted soil. Should this be the case, a draft Uniform Environmental Covenant (UEC) would be prepared and submitted to EPD for concurrence.

### **7.2.2 Proposed Groundwater Remediation Activities**

The proposed voluntary remediation activities consist of continued operation of the existing groundwater recovery and treatment system to control continued migration of contaminants toward the streams.

Four additional groundwater recovery wells will also be installed near the easternmost stream bank (Figure 19) to supplement the existing system and provide additional protection of the

stream and control potential exposure to impacted groundwater. The proposed additional recovery wells will be installed to an approximate depth of 35 to 40 feet below ground surface and will be constructed to screen the vertical zone of groundwater impact including the upper 10 feet of the fractured bedrock (the anticipated zone of highest groundwater transmissivity). Three new piezometers will be installed at the approximate locations shown on Figure 19 to evaluate pumping radius of influence. A capture zone analysis will be completed upon installation of the recovery wells using the new piezometers and surrounding monitoring wells. The results of the capture zone analysis will be reported in future VRP Progress Reports. The new piezometers will also be used to evaluate performance of the in-situ chemical oxidation (ISCO) program described below.

An in-situ chemical oxidation (ISCO) program will also be implemented as conceptually shown on Figure 19 to address the high concentration of dissolved contaminants and potential dense non-aqueous phase liquid (DNAPL) in the main plume cores. The use of two different oxidants, potassium permanganate and sodium persulfate, is planned. The permanganate would be utilized to address the batch room fire release area, as it is more effective on chlorinated ethenes, and alkaline activated persulfate would be utilized to address the TCA plume area, as it is more effective on chlorinated ethanes. The alkaline activation of persulfate is possible with a number of different bases, including potassium hydroxide, sodium hydroxide, and lime. The activator will be selected at a later date after conducting additional discussions with specialty chemical providers and ISCO Injection contractors and obtaining competitive quotes for implementation from multiple contractors.

The proposed layout of the ISCO injection wells is shown on Figure 19. In the batch room fire release primary source area, the data suggests that both the residuum and upper fractured bedrock should be targeted for remediation. Three rows of 6 residuum injection wells and 3 bedrock injection wells are proposed in the batch room fire primary release area (total of 18 residuum injection wells and 9 bedrock injection wells). The residuum injection wells will be screened across the lower 10 feet of the residuum, and the bedrock injection wells will screen the upper 10 feet of the fractured bedrock. The radius of influence (ROI) in the residuum injection wells is expected to be approximately 15 feet, and the ROI in the bedrock injection wells is expected to be approximately 25 feet. The ROI estimates are based primarily on experience at similar sites in similar geologic settings and discussions with ISCO injection providers. Continued operation of downgradient pumping wells should also improve the

distribution of oxidants in the subsurface beyond normal advective/dispersive transport processes.

In the downgradient portion of the batch room fire release area, the data suggest that impacts are limited to the upper 20 feet of fractured bedrock. Therefore, 4 rows of 6 fractured bedrock injection wells are proposed (total of 24 bedrock injection wells).

In the TCA plume, the data suggest that only the upper fractured bedrock should be targeted for remediation. A total of 3 rows of 3 bedrock injection wells (total of 9 bedrock injection wells) are proposed in the TCA plume area, and the wells will be screened across the upper 20 feet of the fractured bedrock.

In the batch room fire release area, approximately 2100 gallons of an approximate 2% permanganate solution will be injected in each residuum injection well, and approximately 3700 gallons of an approximate 5% permanganate solution will be injected in each of the bedrock injection wells. In the TCA plume area, approximately 3700 gallons of an approximate 5% persulfate solution will be injected into each of the bedrock injection wells. To estimate the chemical dosage rates, the porosities of the residuum (20%) and fractured bedrock (0.05%) were estimated based on typical literature values, and the pore volume of water within the assumed ROI was calculated. The assumed chemical dosage rates were on the high end of the typical range to be conservative since a pilot test is not proposed. For estimating purposes, we have assumed that three complete injection events will be conducted at approximate 9-month intervals in each area. However, the injection program will be re-evaluated each time, based on the observed results after each injection event. It is thought that operation of the groundwater recovery and treatment system will help distribute the oxidant solution throughout the impacted area after the injection events. Therefore, it will remain operational during the injection program.

Metals mobilization as a result of ISCO-induced changes in metal oxidation states can occur. Generally, these post-ISCO changes are relatively short-lived and the aquifer returns to background conditions before transport of mobilized metals presents cause for concern. Metals concentrations in groundwater will be monitored at selected wells in and around the ISCO treatment areas to evaluate potential metals mobilization. The selected wells for metals monitoring are AMW-1, AMW-2, AMW-3, AMW-9, AMW-21, DMW-7, and DMW-8. Pre-and post-injection concentrations of the Resource Conservation and Recovery Act (RCRA) metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver) will be analyzed

using EPA Method 6020B in conjunction with the routine semi-annual monitoring events for VOCs. Additionally, manganese will be analyzed in the proposed permanganate injection areas, and sulfate will be analyzed in the proposed persulfate injection area.

### **7.3 FATE AND TRANSPORT MODELING**

Contaminant fate and transport modeling has not been conducted at this time, but will be conducted at some point in the future, likely after completion of the injection program described above and evaluation of the post-remediation groundwater concentrations. The objectives would be to evaluate what contaminant concentrations could be left in place such that groundwater discharge to surface water would not result in surface water concentrations that exceed Georgia In-Stream Water Quality Criteria under low stream flow conditions. The modeling would also be used to establish Point of Demonstration (POD) wells upgradient of the stream that would be used to verify the model predictions.

## 8.0 CONTINUED MONITORING PLAN, SCHEDULE, AND COST

A Gantt Schedule has been prepared and is presented as Figure 20. Upon acceptance of this VLRP Application, AMC will proceed with the planned investigation and remediation activities.

The following items summarize the proposed activities and schedule:

- Initiate and complete on-site soil investigation within six months of VLRP Approval. Assuming assessment beyond that described in Section 7.2.1 is not required, we anticipate that corrective action activities for soil, if required, can be completed within approximately three to five years from the date of acceptance into the VLRP program, assuming additional SVE is utilized.
- Initiate expansion of the groundwater recovery and treatment to protect creek within six months;
- Secure off-site access and complete off-site investigation within 12 months;
- Obtain UIC permit, within 4 months of approval
- Install ISCO injection wells and Initiate ISCO injections within 10 months of VLRP approval;
- Conduct first semiannual groundwater sampling event within four months of VLRP approval and every six months thereafter unless a reduced frequency is subsequently approved by EPD;
- Submit first VLRP Progress Report by within 6 months of VLRP approval and every six months thereafter until EPD approves cessation of monitoring; and
- Submit a Compliance Status Report within five years and three months, unless an extension is necessary and is granted by EPD.

It should be noted that an environmental covenant (Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, et seq.) to restrict groundwater use at the site and to limit the property usage to non-residential will likely be implemented. However, AMEC recommends deferral of this item until after additional assessment and remediation activities are implemented when a better determination of the properties that may require restrictions can be made.

When the site data and model updates support the cessation of monitoring, a CSR will be submitted to EPD for review. It is anticipated that the CSR submitted to EPD within five years of approval and acceptance into the VLRP program will demonstrate compliance with site-specific Type 4 RRS with the VLRP-allowed exposure controls. The site-specific Type 4 RRS will be calculated and proposed at some point in the future based on contaminant fate and transport

modeling. It is possible that continued operation of the soil and/or groundwater remediation systems, which will function as the VRP-allowed exposure controls to protect the POEs, may be required beyond the five year period to submit the CSR. Therefore, we have assumed that 10 years of operation of SVE and groundwater recovery and treatment with associated monitoring and reporting will be required. The CSR will be prepared in accordance with the statute and applicable rules. At the time of submittal, it is anticipated that certification of compliance with applicable groundwater criteria will be made along with a request for delisting from the HSI. The CSR will consist of information in the format required for submission to the EPD, including:

- A description of each known source of release;
- A description of all properties which are part of the site (i.e., legal description of the area affected by the release);
- A summary of pertinent field and laboratory data;
- Definition of the horizontal and vertical extent of on-site soil and groundwater contamination;
- A description of geologic and hydrogeologic conditions at the site;
- A description of existing or potential human or environmental receptors;
- A summary of previous actions taken to eliminate, control, or minimize the potential risk at the site;
- Documentation of the proper characterization, transportation, and disposal of contaminated soils and/or hazardous wastes, if any; and
- A concise statement of the findings of the report including a certification of compliance with the appropriate soil and groundwater RRS.

Semi-annual sampling will be conducted to:

- Evaluate VOC concentrations in groundwater;
- Confirm that potential receptors are not exposed to groundwater at concentrations that exceed the RRS or Georgia In-stream Criteria; and
- Confirm that the VOC plume does not exceed allowable concentrations at the POE's, which are assumed to be the unnamed tributaries to Jobs Creek, east and west of the Site.

The semi-annual sampling program currently being followed will be continued under the VRP, and the additional monitoring wells to be installed will be sampled during each sampling event. Surface water sample locations ASW-1, ASW-2 ASW-3 ASW-4, and DSW-1 will also be sampled during each sampling event.

Samples will be analyzed for VOCs by USEPA method 8260B. Water level measurements will be collected in all site monitoring wells prior to sampling to evaluate groundwater flow direction. Semi-annual sampling will continue until the data demonstrate that human health and the environment are adequately protected and EPD concurs. For present costing purposes, it is assumed that remediation system O&M and semi-annual monitoring will be conducted for a period of ten years. If the data demonstrates that a reduced frequency is warranted, modifications will be proposed in VRP Progress Reports.

The VRP Act itself does not specifically address long-term monitoring after the 5-year VRP implementation period is complete and the final Compliance Status Report is submitted. If the 5-year implementation period appears adequate, EPD could allow either cessation of active remediation and/or monitoring or a decreased frequency of monitoring. As indicated previously, after remediation activities outlined herein are complete, contaminant fate and transport modeling may be utilized to demonstrate that remaining contaminant concentrations will not impact POEs at levels requiring additional corrective action.

Based on the currently available data, continued soil vapor extraction, continued groundwater recovery and treatment, and ISCO are the proposed remediation activities for the AMC International, Inc., Dalton, Georgia site. Additional on-site and off-site investigation activities are also outlined herein. Related activities include semi-annual groundwater sampling, semi-annual VRP Progress Reports, and, if necessary, updates to the CSM. An opinion of cost for implementation of these voluntary investigation and remediation activities is presented in Table 1. It should be noted that the opinion of cost separates activities that will be conducted to address non-saturated zone impacts from those activities that will be conducted to address saturated zone impacts. Of the total estimated cost of approximately \$7.5 million, approximately \$1 million is to address residual soil impacts. The cost estimate will be refined depending upon the results of the additional assessment activities.

## **TABLES**

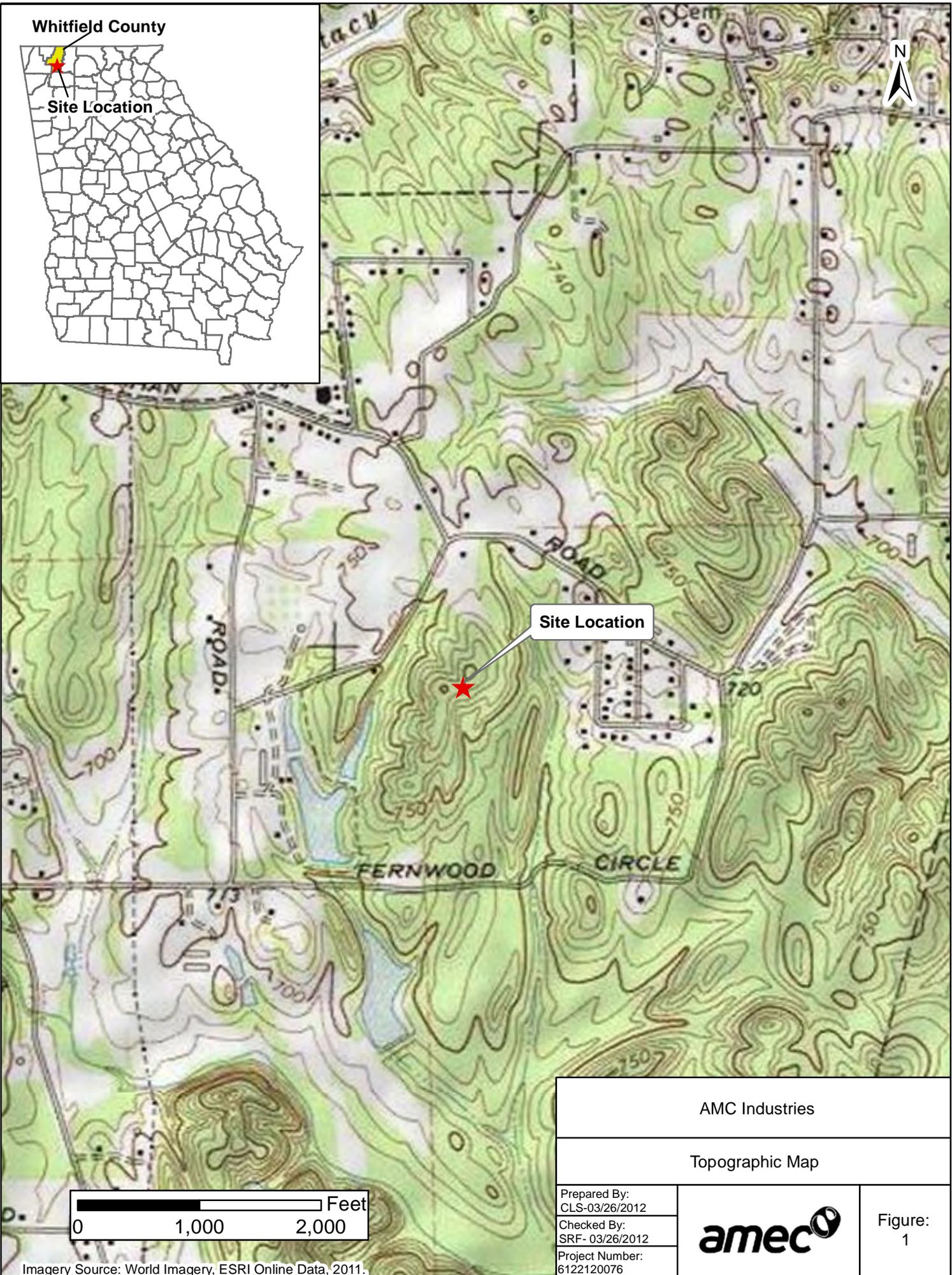
**Table 1: Estimated Cost for Corrective Action**

<b>Site:</b>	AMC International, Inc. Site - HSI 10405		<b>Description:</b> Conduct additional investigation, expand pump and treat, continue SVE, ISCO for source and plume treatment		
<b>Location:</b>	Dalton, Georgia				
<b>Date:</b>	May 25, 2012				
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
<b>NON-SATURATED ZONE INVESTIGATION AND REMEDIATION</b>					
<u><i>Additional Soil Investigation</i></u>					
Plans and Specifications for Implementation	1	LS	\$ 5,000	\$ 5,000	
Soil Boring Drilling and Sampling	500	FT	\$ 65	\$ 32,500	20 borings to 25'
Borehole Abandonment	500	FT	\$ 7	\$ 3,500	
Site Survey/Utility Locate	1	LS	\$ 2,500	\$ 2,500	
Laboratory Analysis	100	EA	\$ 125	\$ 12,500	5 samples/boring
Professional Oversight	100	HR	\$ 100	\$ 10,000	
Report Preparation	1	LS	\$ 30,000	\$ 30,000	
Field Equipment	1	LS	\$ 3,000	\$ 3,000	
Travel Expenses	10	DAY	\$ 200	\$ 2,000	
<b>Additional Soil Investigation Subtotal</b>				<b>\$ 101,000</b>	
Project management	10%	of subtotal		\$ 10,100	
Undefined scope and market allowance	15%	of subtotal		\$ 15,150	
<b>Additional Soil Investigation Total</b>				<b>\$ 126,250</b>	
<u><i>SVE System Expansion</i></u>					
Plans and Specifications for Implementation	1	LS	\$ 15,000	\$ 15,000	
Package SVE System	1	EA	\$ 50,000	\$ 50,000	
SVE Wells	250	FT	\$ 85	\$ 21,250	10 wells to 25 ft
Carbon Vessels	2	EA	\$ 7,500	\$ 15,000	
Piping & Trenching	1	LS	\$ 75,000	\$ 75,000	
Professional Oversight	100	HR	\$ 100	\$ 10,000	
Travel Expenses	10	DAY	\$ 200	\$ 2,000	
<b>SVE System Expansion Subtotal</b>				<b>\$ 188,250</b>	
Project management	10%	of subtotal		\$ 18,825	
Undefined scope and market allowance	15%	of subtotal		\$ 28,238	
<b>SVE System Expansion Total</b>				<b>\$ 235,313</b>	
<u><i>SVE System O&amp;M</i></u>					
O&M System Checks	24	EA	\$ 850	\$ 20,400	
Equipment Repair/Maintenance	1	LS	\$ 5,000	\$ 5,000	
Carbon Replacement & Disposal	4	EA	\$ 12,000	\$ 48,000	
Electricity	12	MO	\$ 500	\$ 6,000	
Lab Analysis	24	HR	\$ 200	\$ 4,800	
Reporting	2	EA	\$ 7,500	\$ 15,000	
<b>SVE System O&amp;M Subtotal (per year)</b>				<b>\$ 99,200</b>	
Project management	10%	of subtotal		\$ 9,920	
Undefined scope and market allowance	15%	of subtotal		\$ 14,880	
<b>SVE System O&amp;M Total (per year)</b>				<b>\$ 124,000</b>	
Assumed Years of Operation				\$ 10	
<b>SVE System O&amp;M Total</b>				<b>\$ 1,240,000</b>	
<b>NON-SATURATED ZONE ASSESSMENT AND REMEDIATION TOTAL</b>				<b>\$ 1,601,563</b>	

**Table 1: Estimated Cost for Corrective Action**

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	NOTES
<b>Site:</b> AMC International, Inc. Site - HSI 10405					
<b>Location:</b> Dalton, Georgia					
<b>Date:</b> May 25, 2012					
<b>Description:</b> Conduct additional investigation, expand pump and treat, continue SVE, ISCO for source and plume treatment					
<b>SATURATED ZONE INVESTIGATION AND REMEDIATION</b>					
<u>Additional Groundwater Investigation</u>					
Plans and Specifications for Implementation/Off-Site Access	1	LS	\$ 15,000	\$ 15,000	
Shallow MW Drilling	250	FT	\$ 100	\$ 25,000	5 wells to 50'; 80" of rock coring
Deep MW Drilling	75	FT	\$ 125	\$ 9,375	1 well to 75'; 50' of rock coring
Site Survey/Utility Locate	1	LS	\$ 5,000	\$ 5,000	
Laboratory Analysis	6	EA	\$ 125	\$ 750	
Professional Oversight	100	HR	\$ 100	\$ 10,000	
Report Preparation (VI Assmt, CSR, etc.)	1	LS	\$ 75,000	\$ 75,000	
Field Equipment	2	LS	\$ 1,500	\$ 3,000	
Travel Expenses	10	DAY	\$ 200	\$ 2,000	
<b>Additional Groundwater Investigation Subtotal</b>				<b>\$ 145,125</b>	
Project management	10%	of subtotal		\$ 14,513	
Undefined scope and market allowance	15%	of subtotal		\$ 21,769	
<b>Additional Groundwater Investigation Total</b>				<b>\$ 181,406</b>	
<u>Pump &amp; Treat System Expansion</u>					
Plans and Specifications for Implementation	1	LS	\$ 5,000	\$ 5,000	Use existing treatment system and infiltration gallery
Recovery Well Installation	4	EA	\$ 9,200	\$ 36,800	4 6-inch wells to 50'
Piezometer Installation	3	EA	\$ 3,000	\$ 9,000	3 2-inch piezometers to 40'
Access Road construction, 8" gravel depth	1,000	SY	\$ 15	\$ 15,000	
Tree & Brush Removal, Cut & Chip, Grub, Spread on site	1	acres	\$ 7,500	\$ 7,500	
Piping and Trenching	1	LS	\$ 37,500	\$ 37,500	
Pneumatic Pumps & Controllers	4	EA	\$ 2,500	\$ 10,000	
Site Survey/Utility Locate	1	LS	\$ 2,500	\$ 2,500	
Professional Oversight	150	HR	\$ 100	\$ 15,000	
Report Preparation	1	LS	\$ 10,000	\$ 10,000	
Field Equipment	1	LS	\$ 1,500	\$ 1,500	
Travel Expenses	15	DAY	\$ 200	\$ 3,000	
<b>Pump &amp; Treat System Expansion Subtotal</b>				<b>\$ 152,800</b>	
Project management	10%	of subtotal		\$ 15,280	
Undefined scope and market allowance	15%	of subtotal		\$ 22,920	
<b>Pump &amp; Treat System Expansion Total</b>				<b>\$ 191,000</b>	
<u>Pump &amp; Treat System O&amp;M + Semi-Annual Monitoring</u>					
O&M System Checks	24	EA	\$ 850	\$ 20,400	
Electricity	12	MO	\$ 500	\$ 6,000	
Groundwater Sampling	2	EA	\$ 15,000	\$ 30,000	
Lab Analysis - VOCs	60	EA	\$ 125	\$ 7,500	
Lab Analysis - Metals	16	EA	\$ 85	\$ 1,360	
Reporting	2	EA	\$ 15,000	\$ 30,000	
<b>Operations, Maintenance, and Monitoring Subtotal (per year)</b>				<b>\$ 95,260</b>	
Project management	10%	of subtotal		\$ 9,526	
Undefined scope and market allowance	15%	of subtotal		\$ 14,289	
<b>Operations, Maintenance, and Monitoring Total (per year)</b>				<b>\$ 119,075</b>	
Assumed Years of Operation				\$ 10	
<b>Operations, Maintenance, and Monitoring Total</b>				<b>\$ 1,190,750</b>	
<u>ISCO Injection Program for Saturated Zone Treatment</u>					
Permitting/Site Preparation	1	LS	\$ 100,000	\$ 100,000	
Installation of Injection Wells - PCE Bedrock Plume	24	EA	\$ 10,790	\$ 258,960	4 rows of 6 weathered rock injection points - ROI of 25 ft; 20 ft thickness
Installation of Injection Wells - PCE Source Area Residuum	18	EA	\$ 8,500	\$ 153,000	3 rows of 6 residuum injection points - ROI of 15 ft; 10 ft thickness
Installation of Injection Wells - PCE Source Area Bedrock	9	EA	\$ 10,800	\$ 97,200	3 rows of 3 weathered rock injection points - ROI of 25 ft; 20 ft thickness
Installation of Injection Wells - TCA Source Area Bedrock	9	EA	\$ 10,800	\$ 97,200	3 rows of 3 weathered rock injection points - ROI of 25 ft; 20 ft thickness
<b>Installation of Injection Wells Subtotal</b>				<b>\$ 706,360</b>	
Project Management & Design	10%	of subtotal		\$ 70,636	
Undefined scope and market allowance	15%	of subtotal		\$ 105,954	
<b>Installation of Injection Wells Total</b>				<b>\$ 882,950</b>	
<u>Injection Costs</u>					
Chemical Cost -PCE Bedrock Plume	88,128	GAL	\$ 0.50	\$ 44,064	Permanganate - 3672 gal/well *24 wells
Chemical Cost - PCE Source Area Residuum	38,070	GAL	\$ 0.50	\$ 19,035	Permanganate - 2115 gal/well *18 wells
Chemical Cost - PCE Source Area Bedrock	33,048	GAL	\$ 0.50	\$ 16,524	Permanganate - 3672 gal/well *9 wells
Chemical Cost - TCA Source Area Bedrock	33,048	GAL	\$ 0.75	\$ 24,786	Persulfate - 3672 gal/well *9 wells
Injection Labor & Equipment Cost	80	DAY	\$ 5,360	\$ 428,800	
<b>Injection Costs Subtotal (per event)</b>				<b>\$ 533,209</b>	
Project Management & Design	10%	of subtotal		\$ 53,321	
Undefined scope and market allowance	15%	of subtotal		\$ 79,981	
<b>Injection Costs Total (per event)</b>				<b>\$ 666,511</b>	
Assumed No. of Injection Events				\$ 5	3 assumed + 2 contingent
<b>Injection Costs Total</b>				<b>\$ 3,332,556</b>	
<b>GROUNDWATER TREATMENT SUBTOTAL</b>				<b>\$ 5,778,663</b>	
<b>ADMINISTRATIVE COST (\$5,000/YEAR FOR 10 YEARS)</b>				<b>\$ 50,000</b>	
<b>ESTIMATED GRAND TOTAL</b>				<b>\$ 7,430,225</b>	

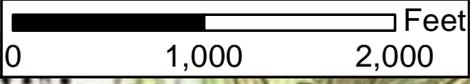
## FIGURES



Whitfield County

Site Location

Site Location



AMC Industries

Topographic Map

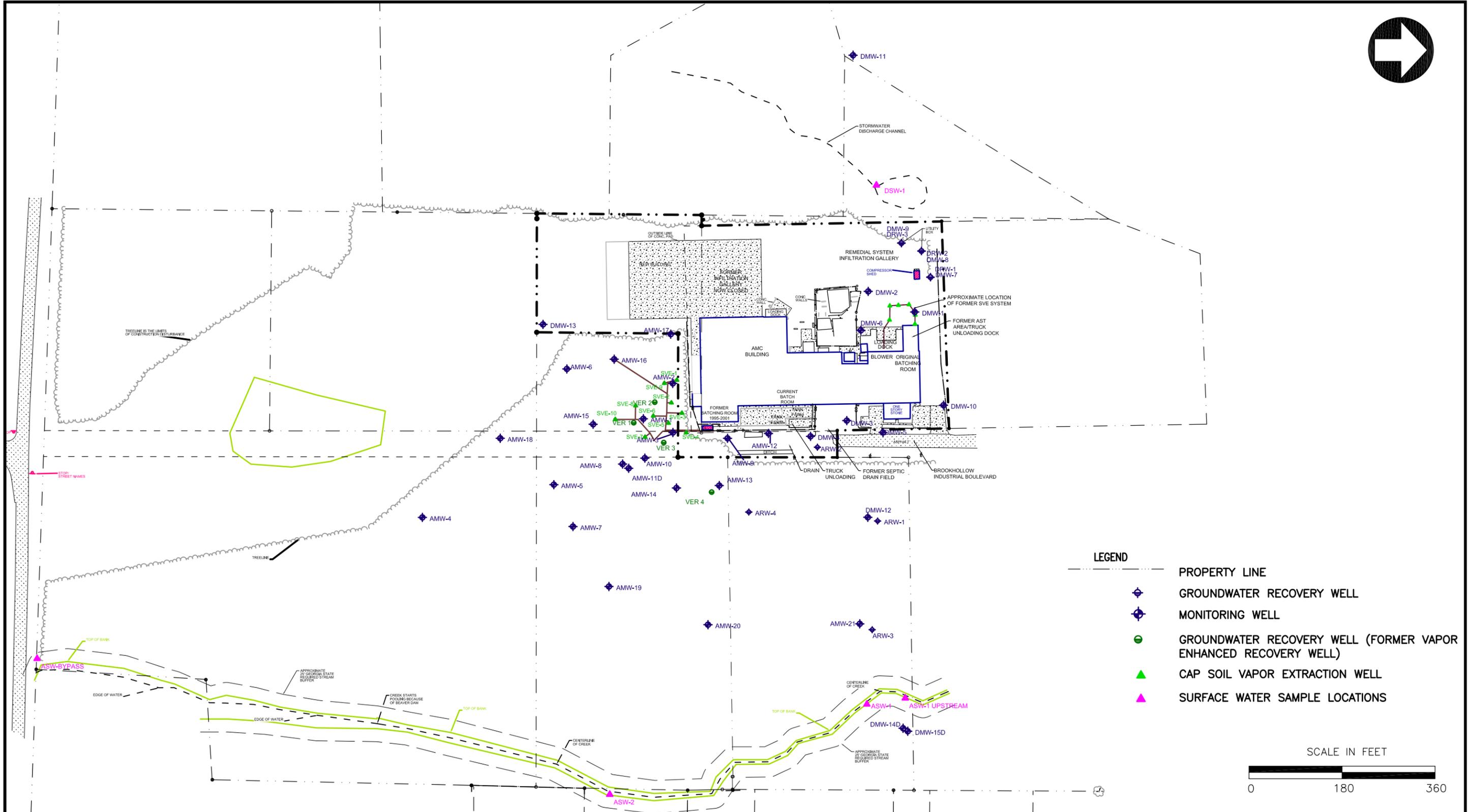
Prepared By:  
CLS-03/26/2012  
Checked By:  
SRF- 03/26/2012  
Project Number:  
6122120076



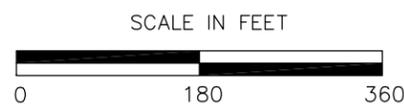
Figure:  
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Imagery Source: World Imagery, ESRI Online Data, 2011.

Path: G:\Phase\_1\310 Brookhollow Industrial Blvd. Dalton, GAMXD\topo.mxd



- LEGEND**
- — — — — PROPERTY LINE
  - ◆ GROUNDWATER RECOVERY WELL
  - ◆ MONITORING WELL
  - GROUNDWATER RECOVERY WELL (FORMER VAPOR ENHANCED RECOVERY WELL)
  - ▲ CAP SOIL VAPOR EXTRACTION WELL
  - ▲ SURFACE WATER SAMPLE LOCATIONS



AMC INTERNATIONAL  
DALTON, GA

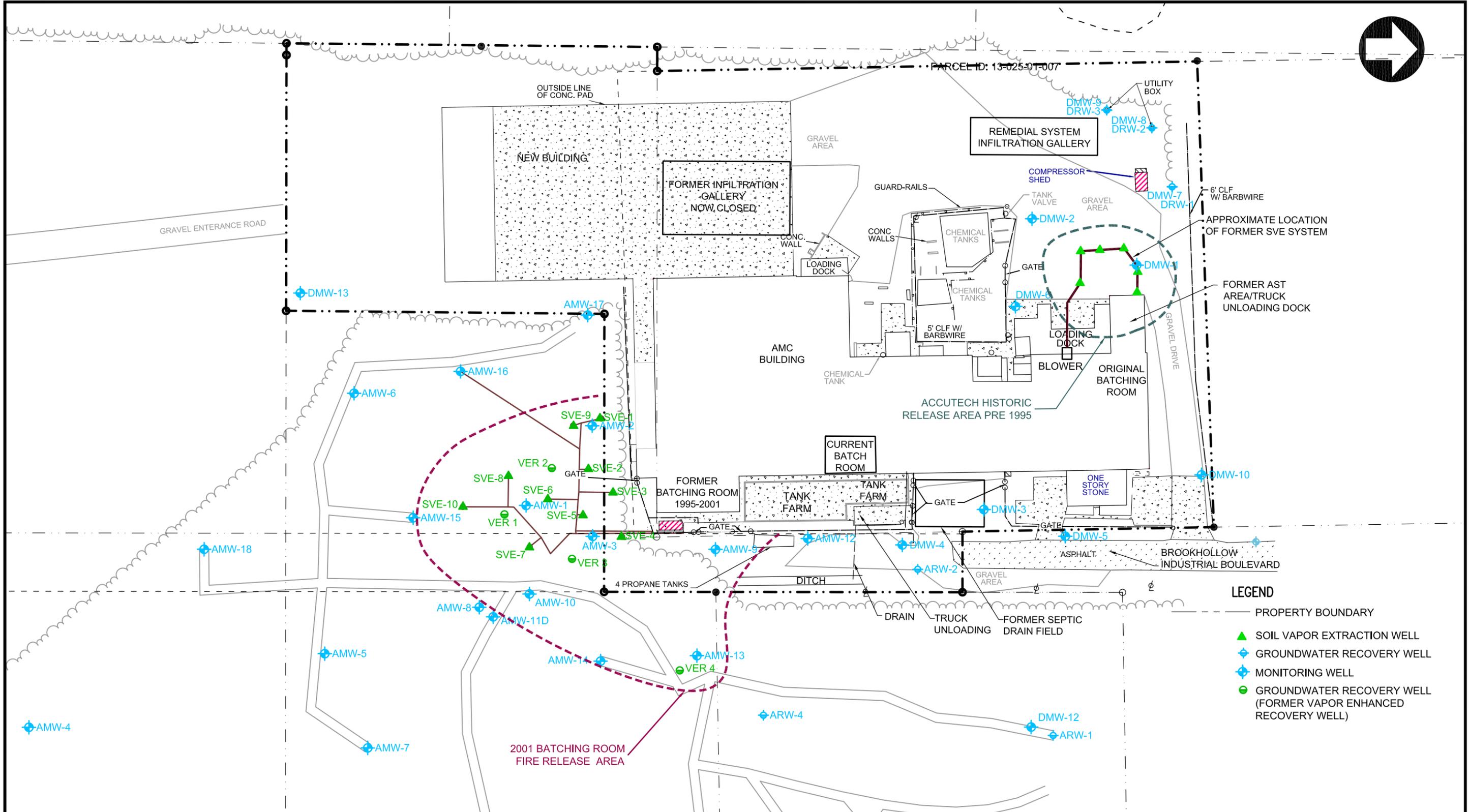
**amec**  
AMEC Environment & Infrastructure, Inc.  
1075 BIG SHANTY ROAD, NW, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

SITE PLAN

JOB NO. 6122-12-0076

FIGURE 2

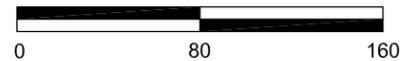
PREPARED BY/DATE T. GLADSTONE/ R. ROGERO 4/12/2013  
CHECKED BY/DATE D. SMOAK 4/12/2013



- LEGEND**
- PROPERTY BOUNDARY
  - ▲ SOIL VAPOR EXTRACTION WELL
  - ◆ GROUNDWATER RECOVERY WELL
  - ◆ MONITORING WELL
  - GROUNDWATER RECOVERY WELL (FORMER VAPOR ENHANCED RECOVERY WELL)

SOURCE: DWG MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA AND TERRAMARK PROFESSIONAL LAND SURVEY, MARIETTA GA

SCALE IN FEET



**AMC INTERNATIONAL  
DALTON, GEORGIA**

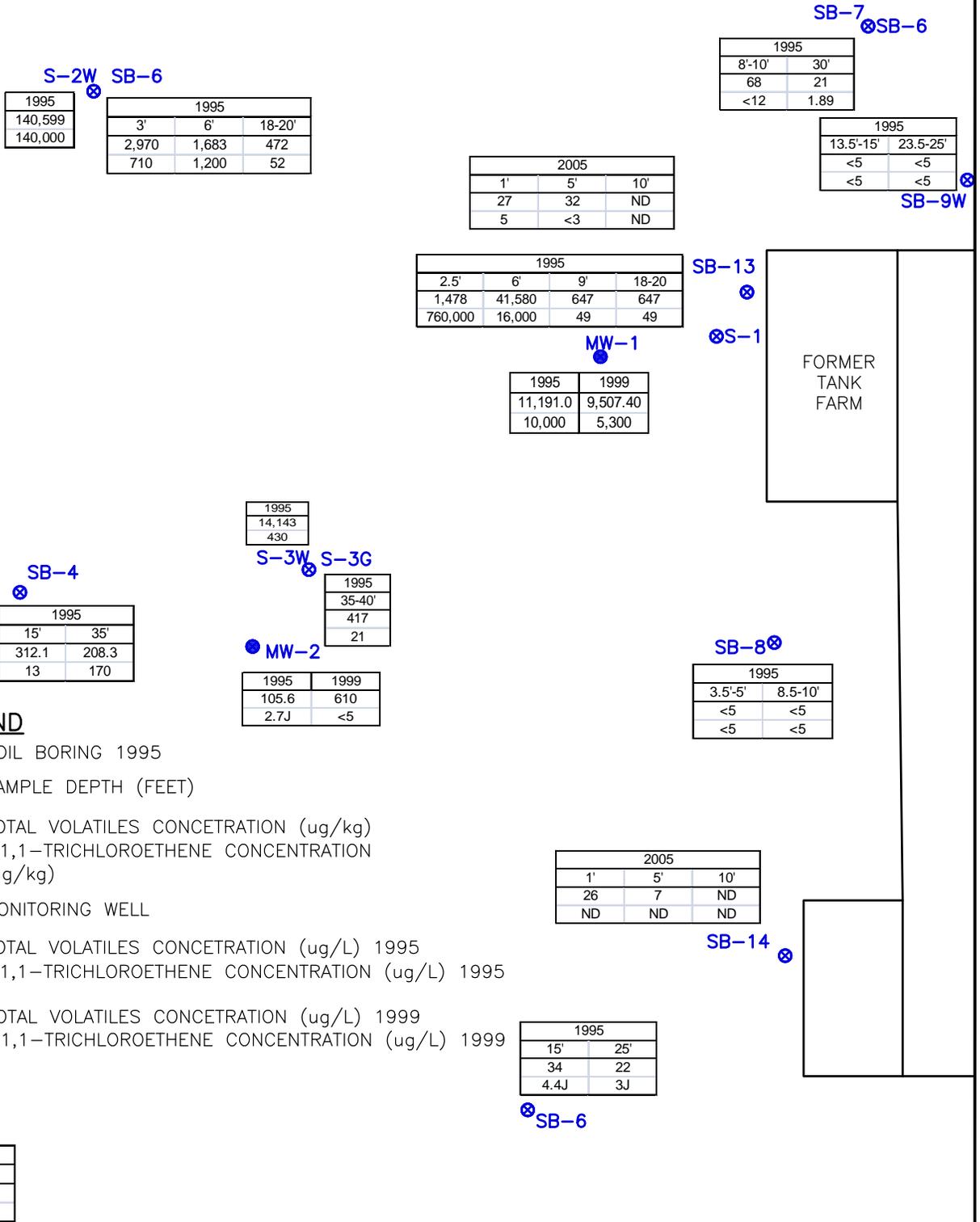
**amec**  
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1075 BIG SHANTY ROAD, NW, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

**FACILITY LAYOUT**

JOB NO. 6122-12-0076

FIGURE 3

PREPARED BY/DATE: T. GLADSTONE/R. ROGERO 4/12/2013  
 CHECKED BY/DATE: D. SMOAK 4/12/2013



**LEGEND**

⊗ SOIL BORING 1995

18-20' SAMPLE DEPTH (FEET)

471.9 TOTAL VOLATILES CONCETRATION (ug/kg)  
52 1,1,1-TRICHLOROETHENE CONCENTRATION (ug/kg)

MW-1 MONITORING WELL

11,191.10 TOTAL VOLATILES CONCETRATION (ug/L) 1995  
10,000 1,1,1-TRICHLOROETHENE CONCENTRATION (ug/L) 1995

9,507.40 TOTAL VOLATILES CONCETRATION (ug/L) 1999  
5,300 1,1,1-TRICHLOROETHENE CONCENTRATION (ug/L) 1999

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

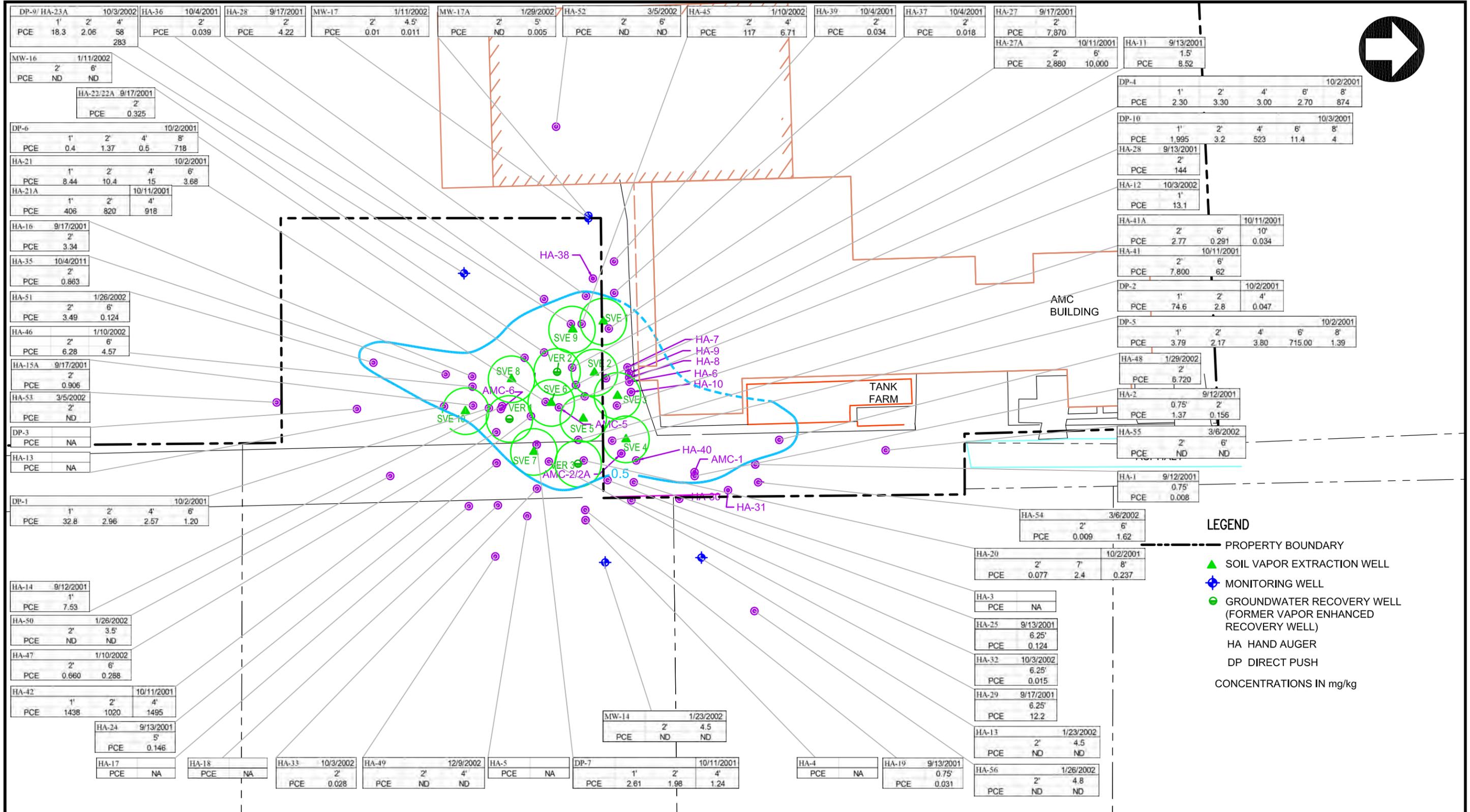
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DALTON, GA

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AMEC Environment & Infrastructure, Inc.  
1075 BIG SHANTY ROAD, NW, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

1995 - 2005 ACCUTECH  
FORMER TRUCK UNLOADING  
TANK FARM RELEASE IMPACTS

JOB NO. 6122-12-0076 FIGURE 4

PREPARED BY/DATE T. GLADSTONE/ R. ROGERO 4/12/2013  
CHECKED BY/DATE D. SMOAK 4/12/2013



SOURCE: DWG MODIFIED FROM ARCADIS, ATLANTA, GA

SCALE IN FEET



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DALTON, GEORGIA



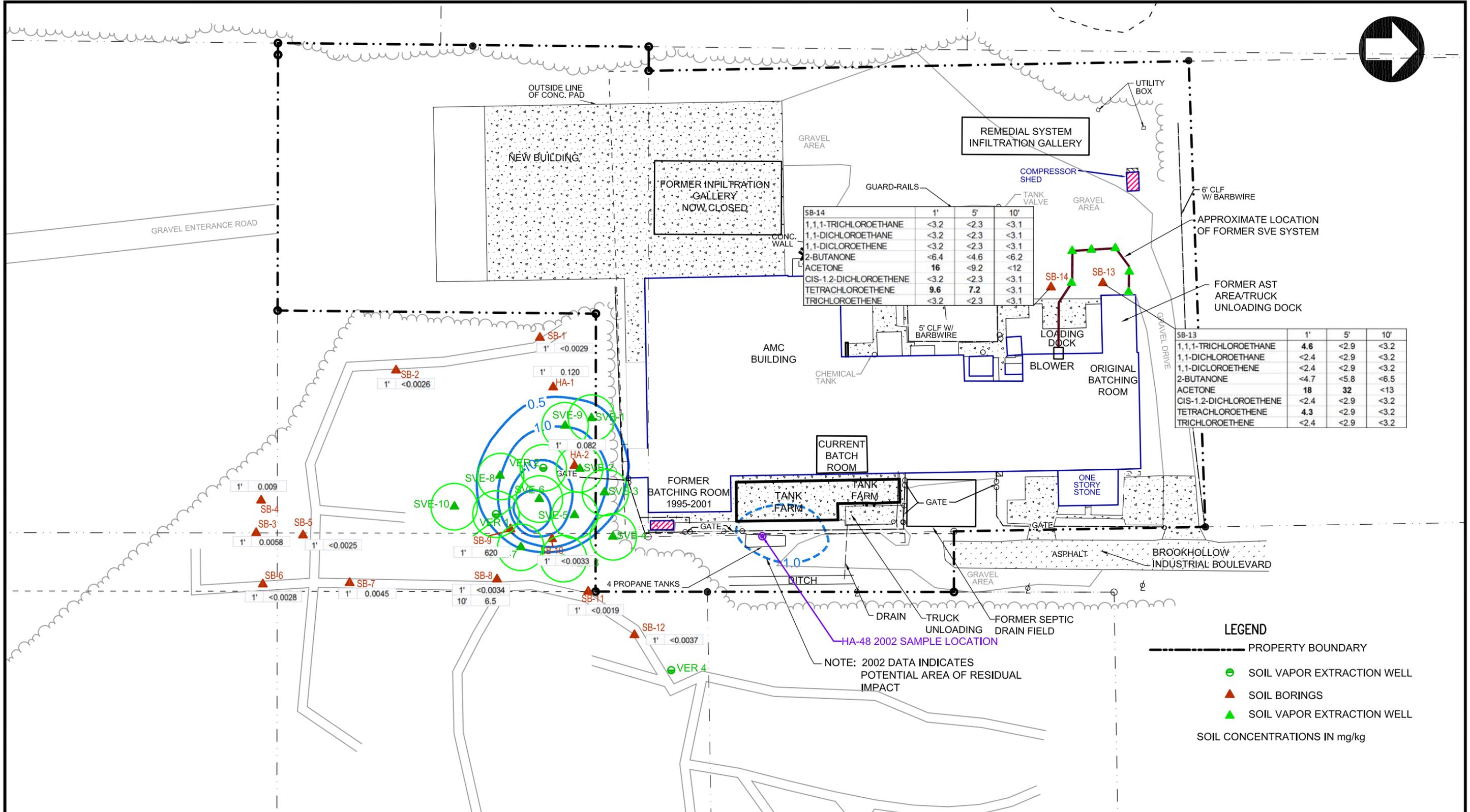
AMEC Environment & Infrastructure, Inc.

3200 TOWN POINT DRIVE, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

2001-2002 SOIL PCE IMPACTS  
BATCH ROOM FIRE RELEASE

JOB NO. 6122-12-0076

FIGURE 5A



	1'	5'	10'
SB-14			
1,1,1-TRICHLOROETHANE	<3.2	<2.3	<3.1
1,1-DICHLOROETHANE	<3.2	<2.3	<3.1
1,1-DICHLOROETHENE	<3.2	<2.3	<3.1
2-BUTANONE	<6.4	<4.6	<6.2
ACETONE	16	<9.2	<12
CIS-1,2-DICHLOROETHENE	<3.2	<2.3	<3.1
TETRACHLOROETHENE	9.6	7.2	<3.1
TRICHLOROETHENE	<3.2	<2.3	<3.1

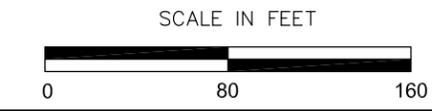
	1'	5'	10'
SB-13			
1,1,1-TRICHLOROETHANE	4.6	<2.9	<3.2
1,1-DICHLOROETHANE	<2.4	<2.9	<3.2
1,1-DICHLOROETHENE	<2.4	<2.9	<3.2
2-BUTANONE	<4.7	<5.8	<6.5
ACETONE	18	32	<13
CIS-1,2-DICHLOROETHENE	<2.4	<2.9	<3.2
TETRACHLOROETHENE	4.3	<2.9	<3.2
TRICHLOROETHENE	<2.4	<2.9	<3.2

**LEGEND**

- PROPERTY BOUNDARY
- SOIL VAPOR EXTRACTION WELL
- ▲ SOIL BORINGS
- ▲ SOIL VAPOR EXTRACTION WELL

SOIL CONCENTRATIONS IN mg/kg

SOURCE: DWG MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA



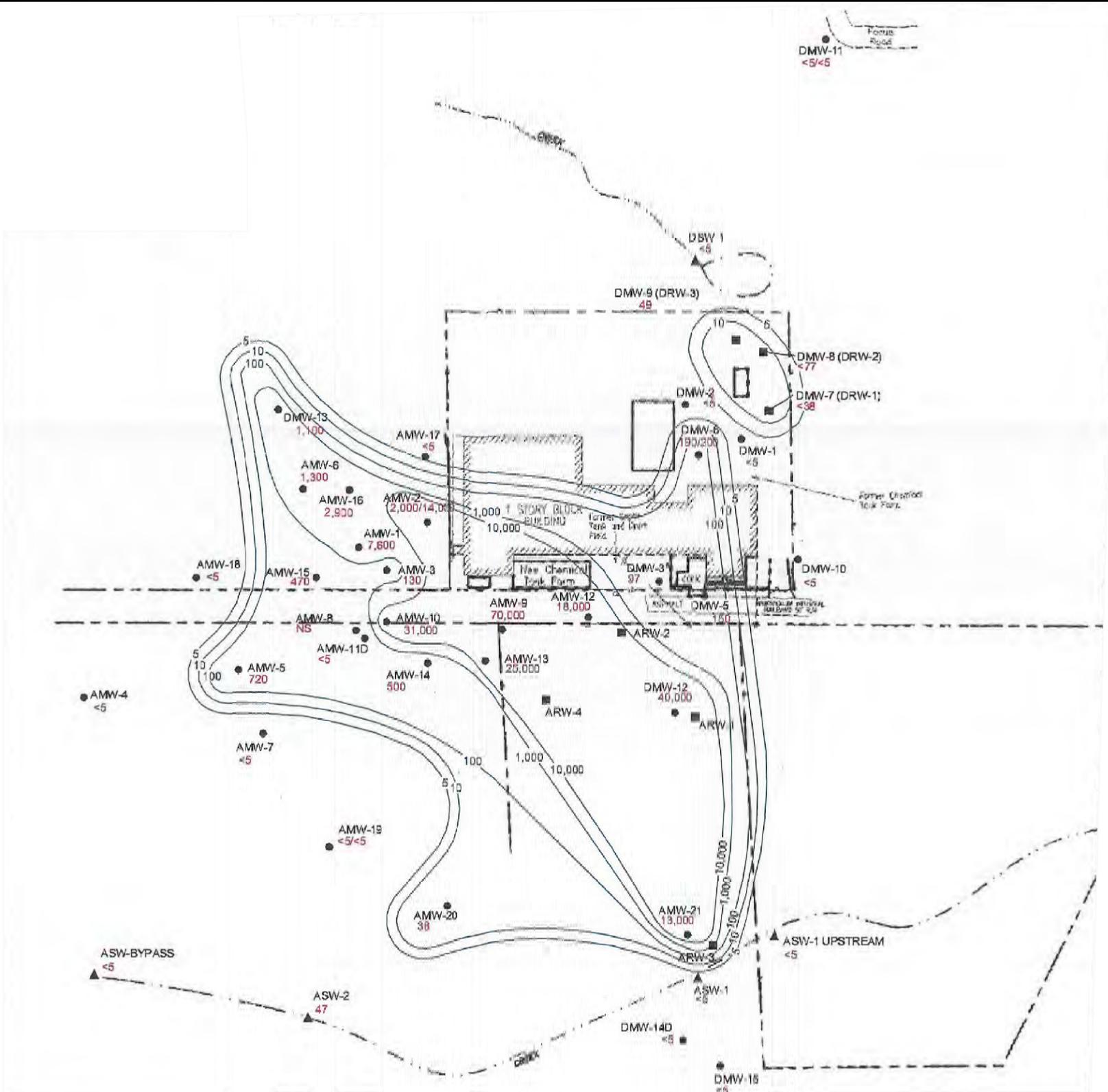
**AMC INTERNATIONAL**  
DALTON, GEORGIA

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1075 BIG SHANTY ROAD, NW, SUITE 100  
KENNESAW, GEORGIA 30144 (770) 421-3400

**2005 SOIL PCE IMPACTS**  
BATCH ROOM FIRE RELEASE

JOB NO. 6122-12-0076 FIGURE 5B

PREPARED BY/DATE: T. GLADSTONE/R. ROGERO 4/12/2013  
 CHECKED BY/DATE: D. SMOAK 4/12/2013



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



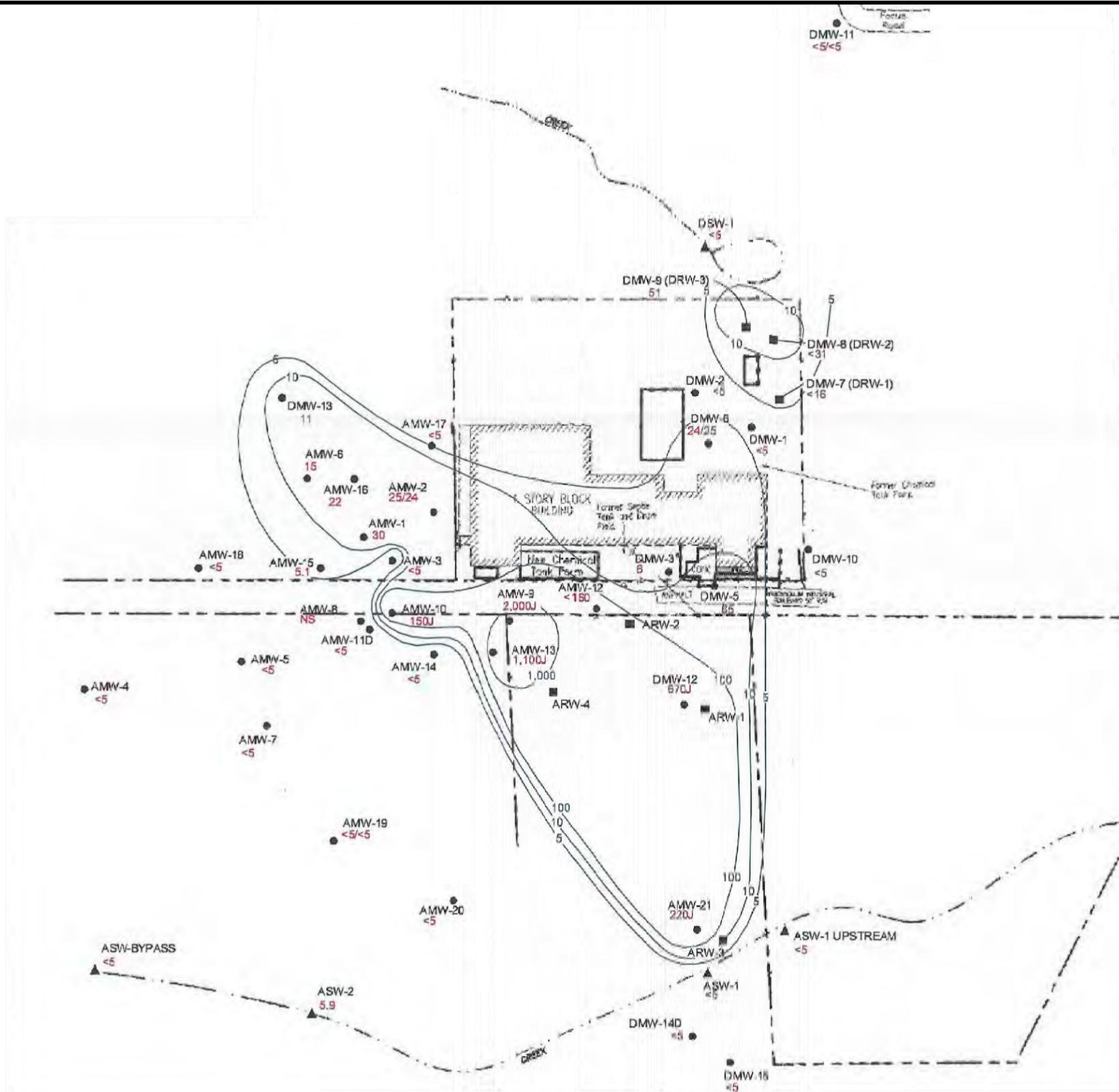
AMC INTERNATIONAL  
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GROUNDWATER TETRACHLOROETHENE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011  
JOB NO. 6122-12-0076 **FIGURE 6**

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



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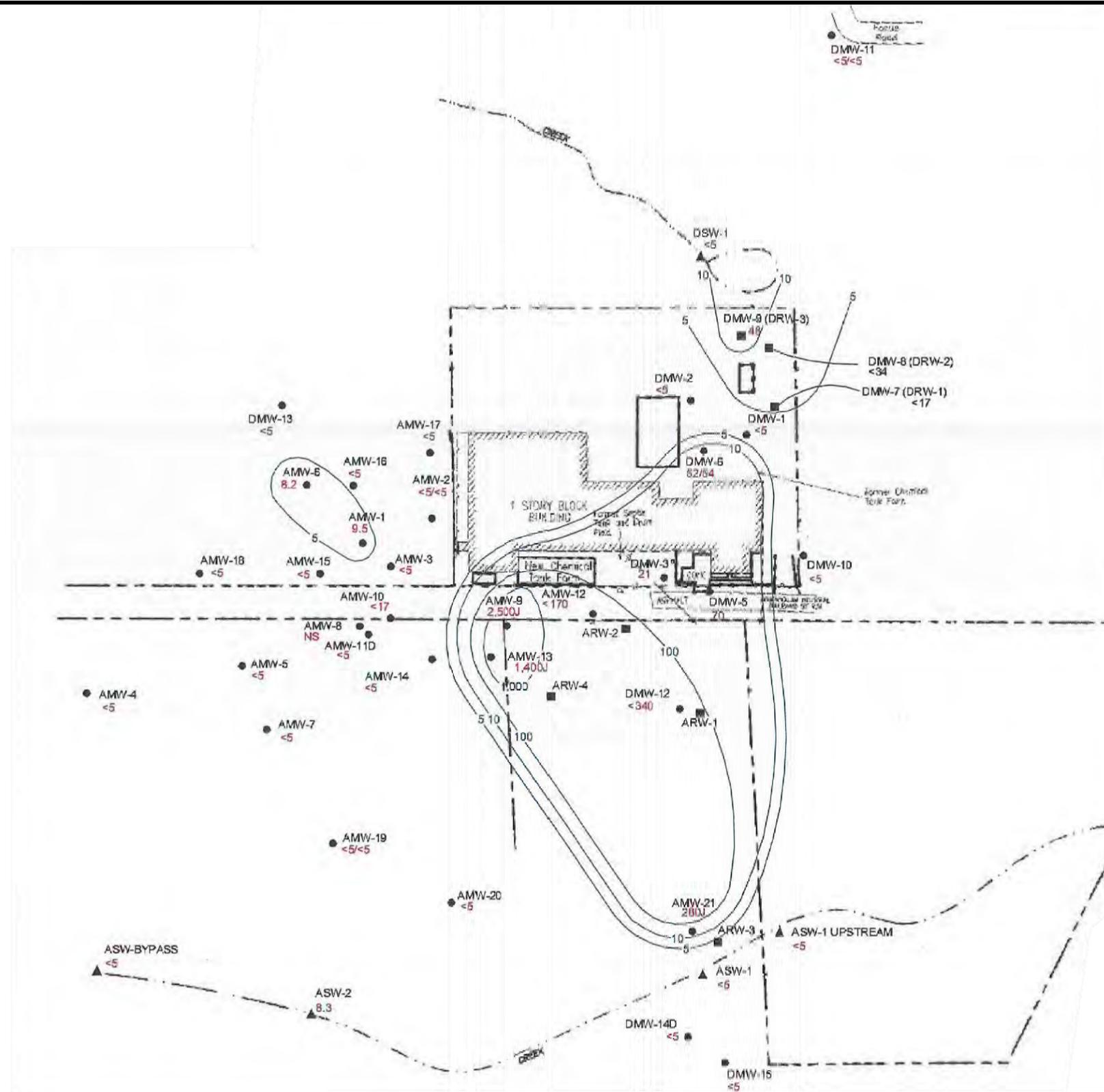


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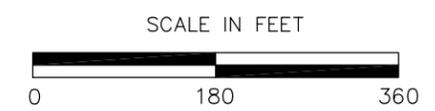
GROUNDWATER TRICHLOROETHENE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011

JOB NO. 6122-12-0076

FIGURE 7



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



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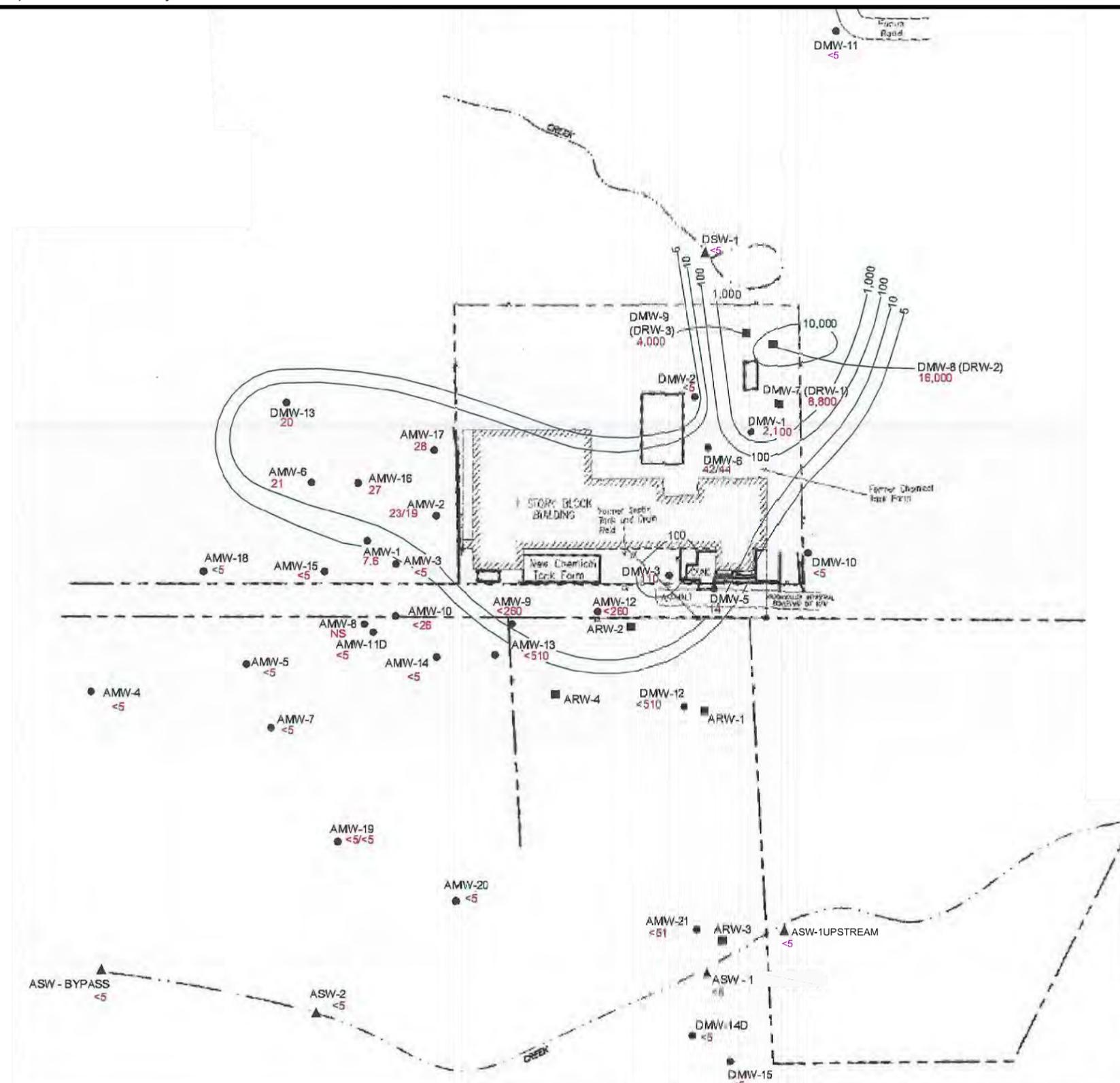
AMEC Environment & Infrastructure, Inc.  
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GROUNDWATER CIS-1,2-DICHLOROETHENE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011

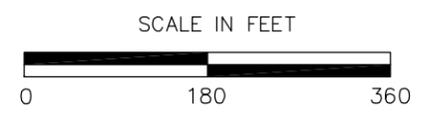
JOB NO. 6122-12-0076 **FIGURE 8**

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



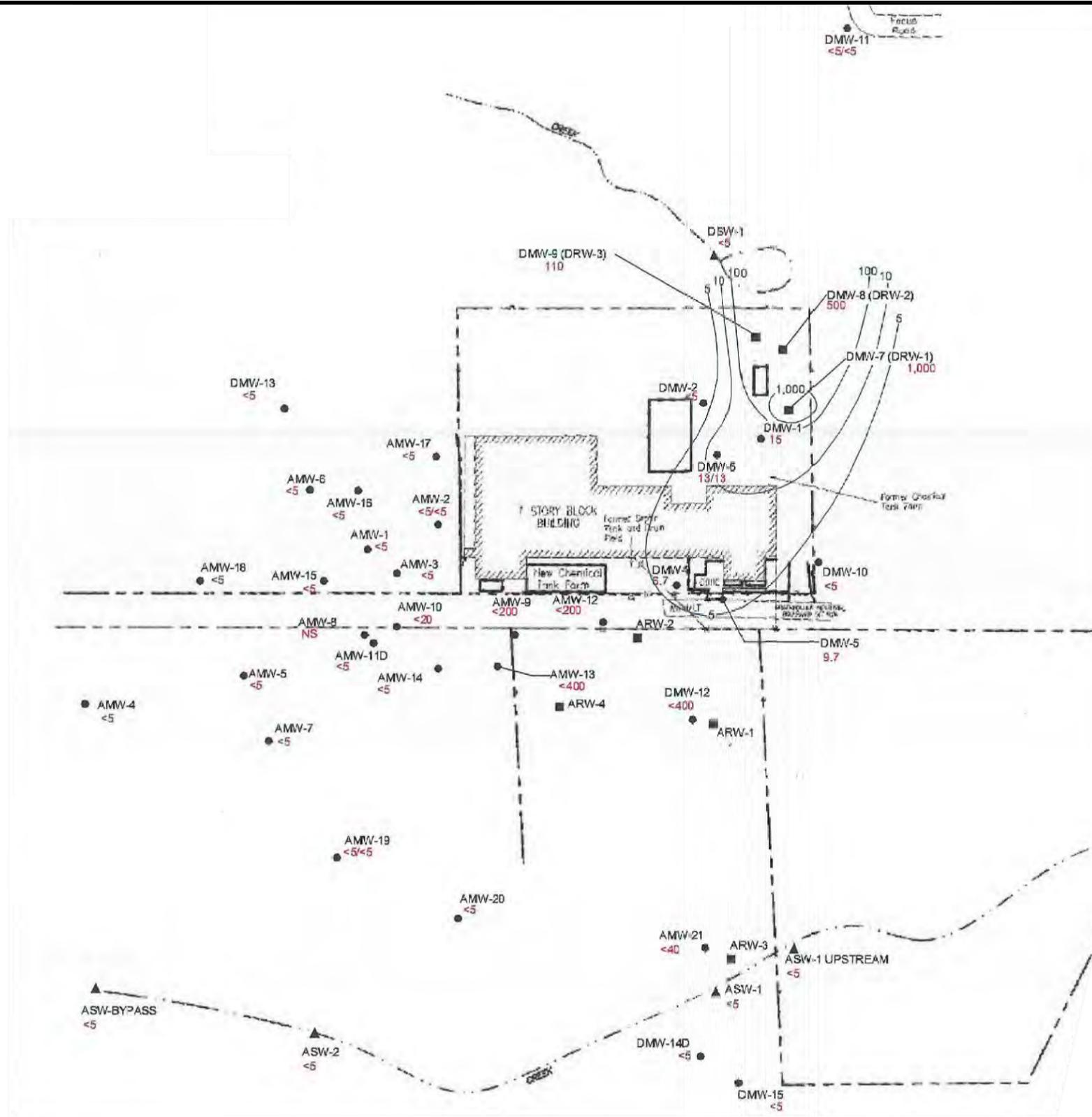
SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

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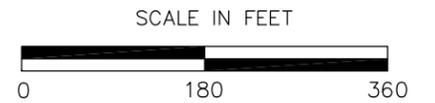
**amec**  
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GROUNDWATER 1,1,1-TRICHLOROETHANE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011  
JOB NO. 6122-12-0076 **FIGURE 9**

PREPARED BY/DATE: TG - UK  
CHECKED BY/DATE: DES / 5-25-12



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS

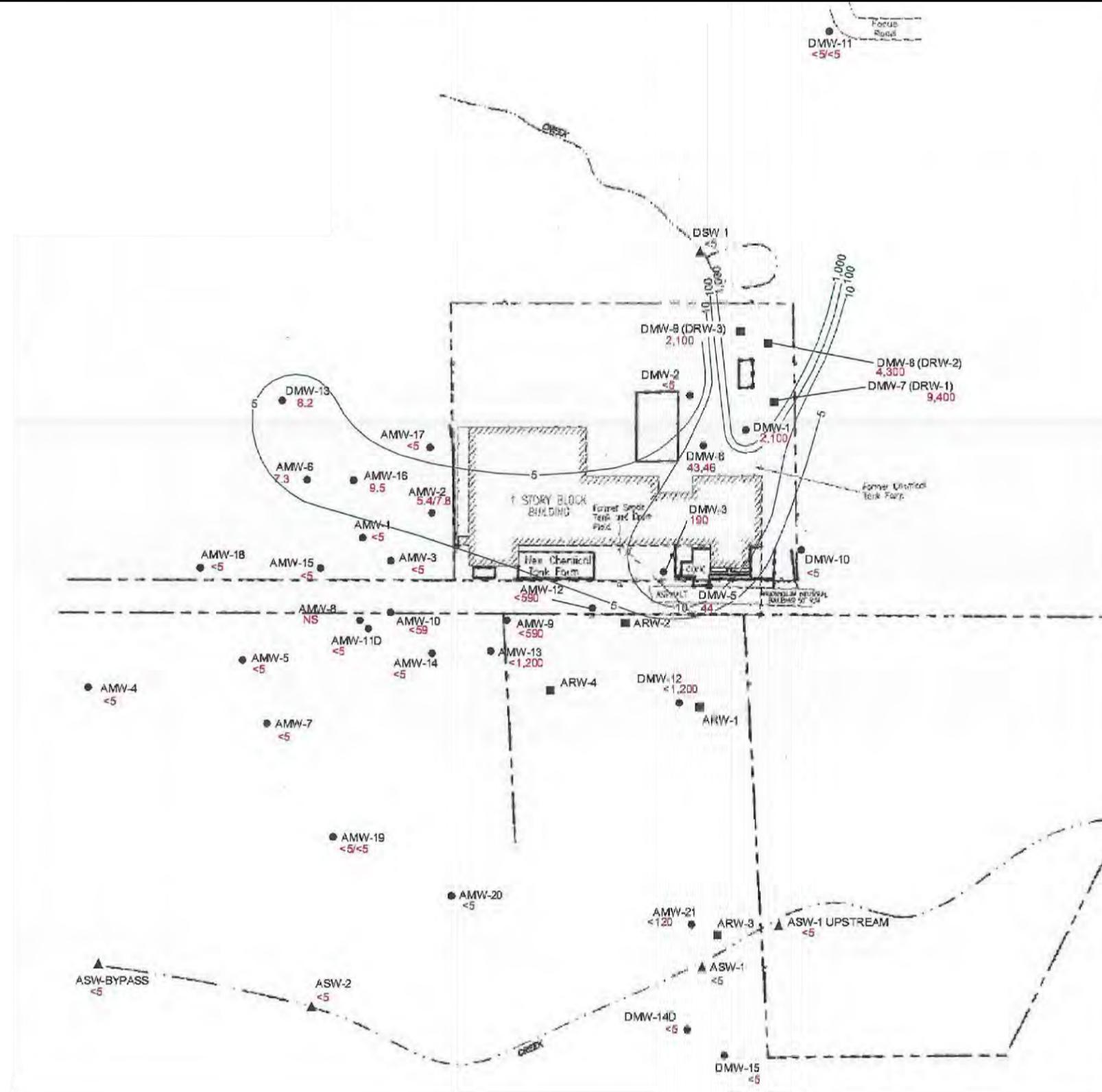


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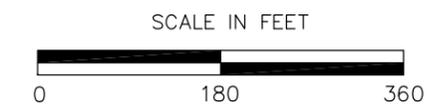


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GROUNDWATER 1,1-DICHLOROETHANE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011  
JOB NO. 6122-12-0076 **FIGURE 10**



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



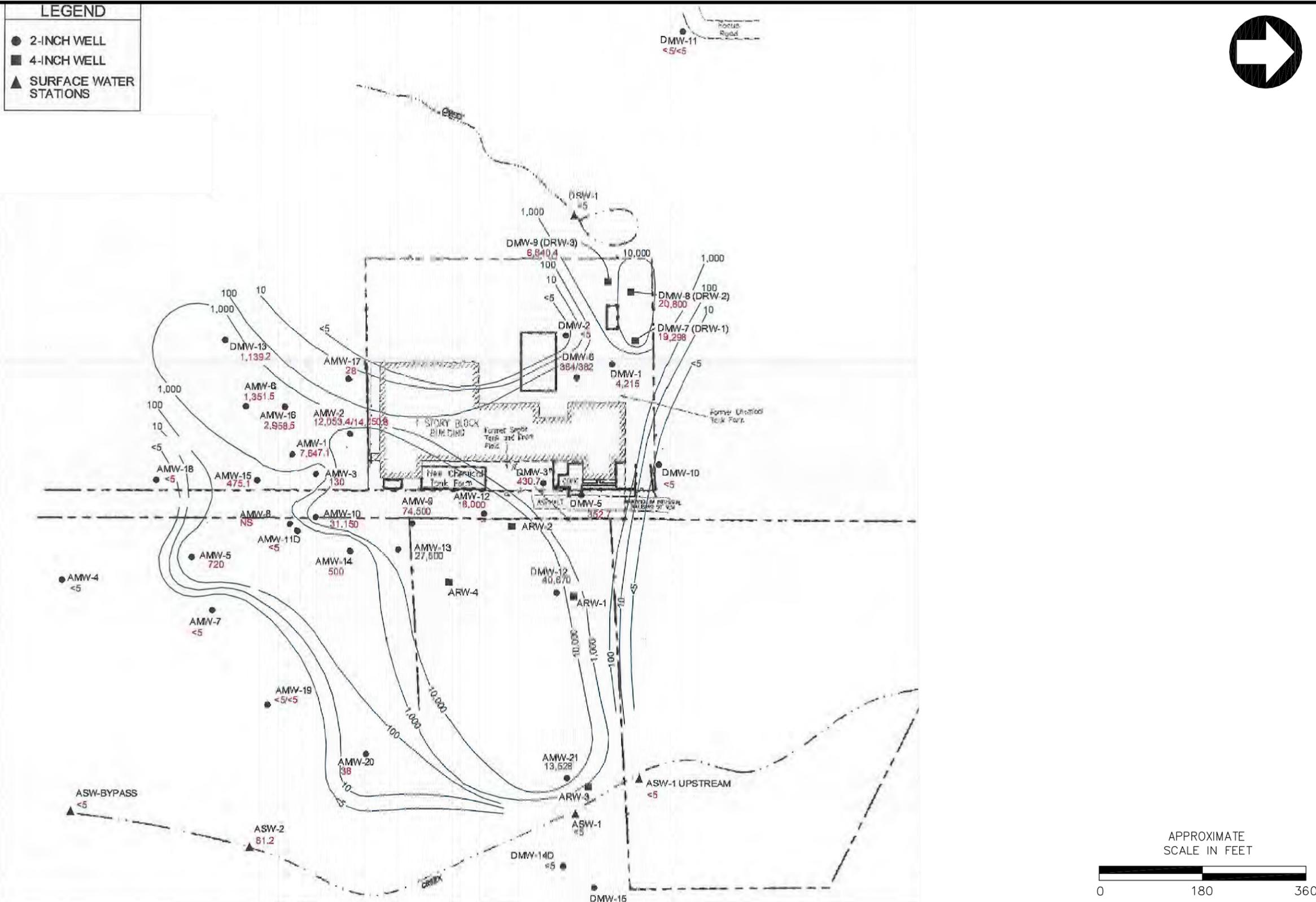
SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

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GROUNDWATER 1,1-DICHLOROETHENE  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011  
JOB NO. 6122-12-0076 **FIGURE 11**

PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



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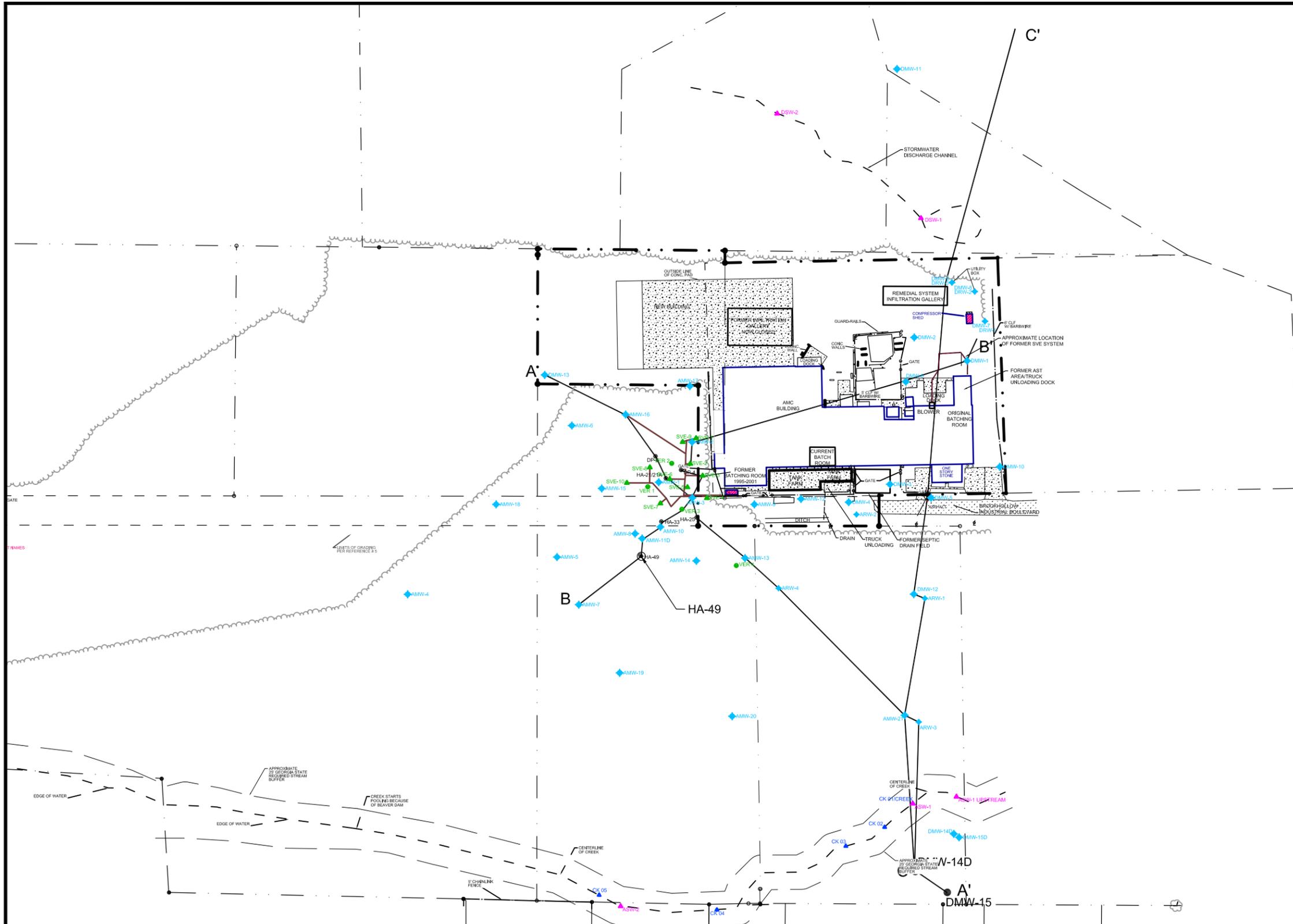
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GROUNDWATER TOTAL VOCS  
CONCENTRATION MAP  
NOVEMBER 14-18 & 20, 2011

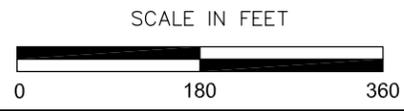
JOB NO. 6122-12-0076 **FIGURE 12**

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

PREPARED BY/DATE: TG - UK  
CHECKED BY/DATE: DES / 5-25-12



**LEGEND**  
 - - - - - PROPERTY BOUNDARY

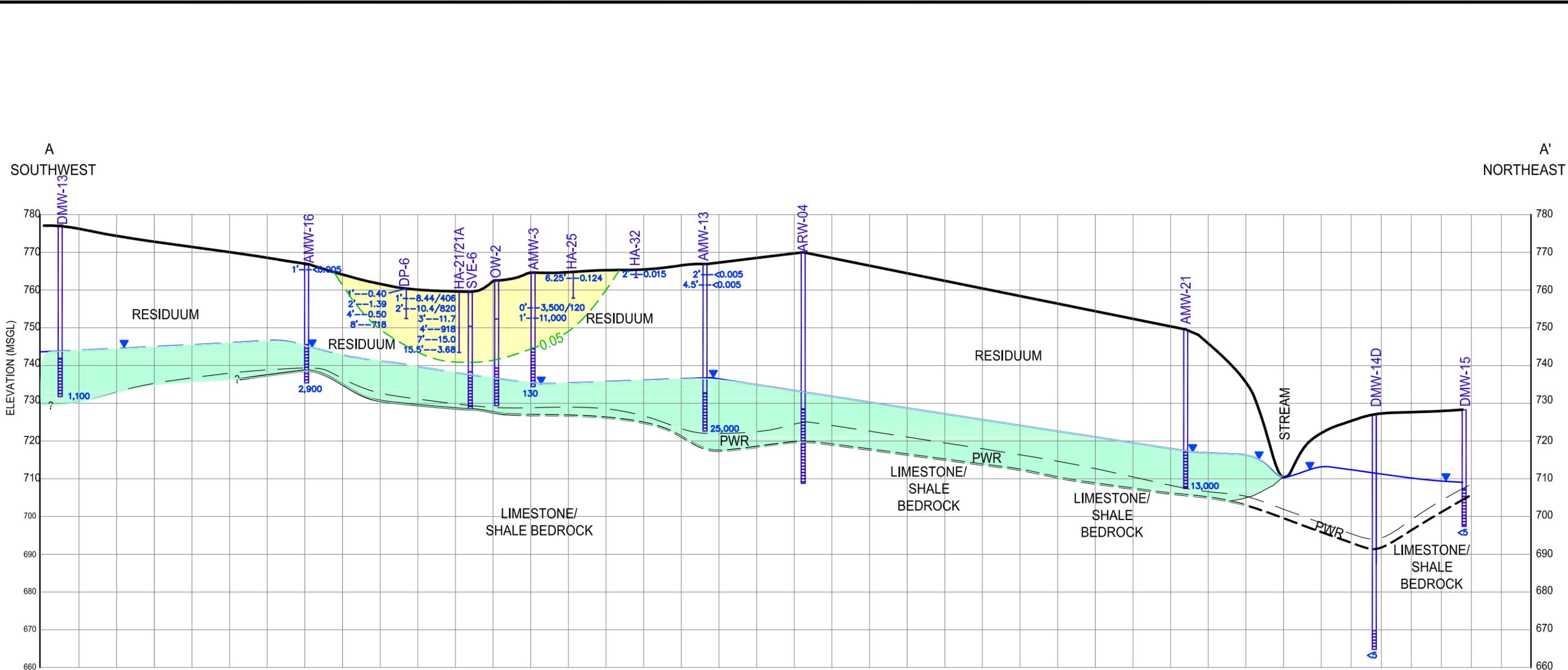


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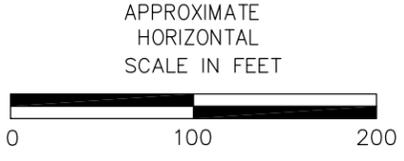
**CROSS SECTION LOCATION MAP**  
 JOB NO. 6122-12-0076  
 FIGURE 13

PREPARED BY/DATE: T. GLADSTONE/R. ROGERO 4/12/2013  
 CHECKED BY/DATE: D. SMOAK 4/12/2013



**LEGEND**

- PWR= PARTIALLY WEATHERED ROCK
  - RESIDUUM CLAY AND SILT
  - ▼ GROUNDWATER ELEVATION 6/27/11
  - GROUNDWATER PCE PLUME (>5 ug/L)
  - PCE IMPACTED SOIL (>0.05 ug/kg)
  - SCREEN INTERVAL
  - BORING
  - DASHED WHERE INFERRED
  - 1'-0.40 = DEPTH OF SAMPLE AND PCE CONCENTRATION (mg/kg)
  - 25,000 = NOVEMBER 2011 GROUNDWATER PCE CONCENTRATION (ug/L)
- NOTE: PRE CONFIRMATION SAMPLE RESULTS

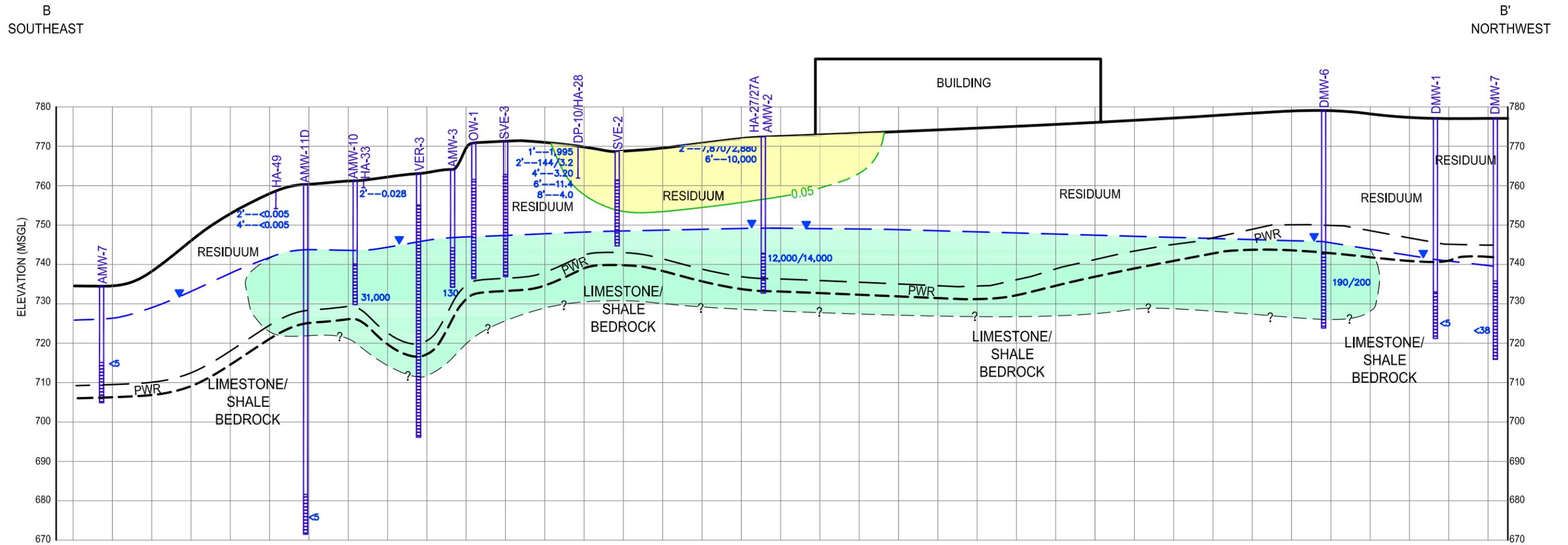


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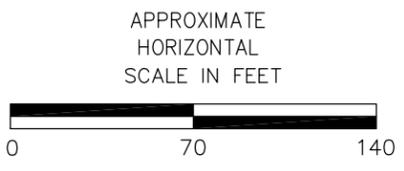
CROSS SECTION A-A'  
PCE CONCENTRATIONS  
IN SOIL (2001-2002)  
AND GROUNDWATER (NOVEMBER 2011)  
JOB NO. 6122-12-0076 **FIGURE 14**

PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



**LEGEND**

- PWR= PARTIALLY WEATHERED ROCK
  - RESIDUUM CLAY AND SILT
  - ▼ GROUNDWATER ELEVATION 6/27/11
  - GROUNDWATER PCE PLUME (>5 ug/L)
  - PCE IMPACTED SOIL (>0.05 ug/kg)
  - SCREEN INTERVAL
  - BORING
  - DASHED WHERE INFERRED
  - 1'-0.40 = DEPTH OF SAMPLE AND PCE CONCENTRATION (mg/kg)
  - 25,000 = NOVEMBER 2011 GROUNDWATER PCE CONCENTRATION (ug/L)
- NOTE: PRE CONFIRMATION SAMPLE RESULTS

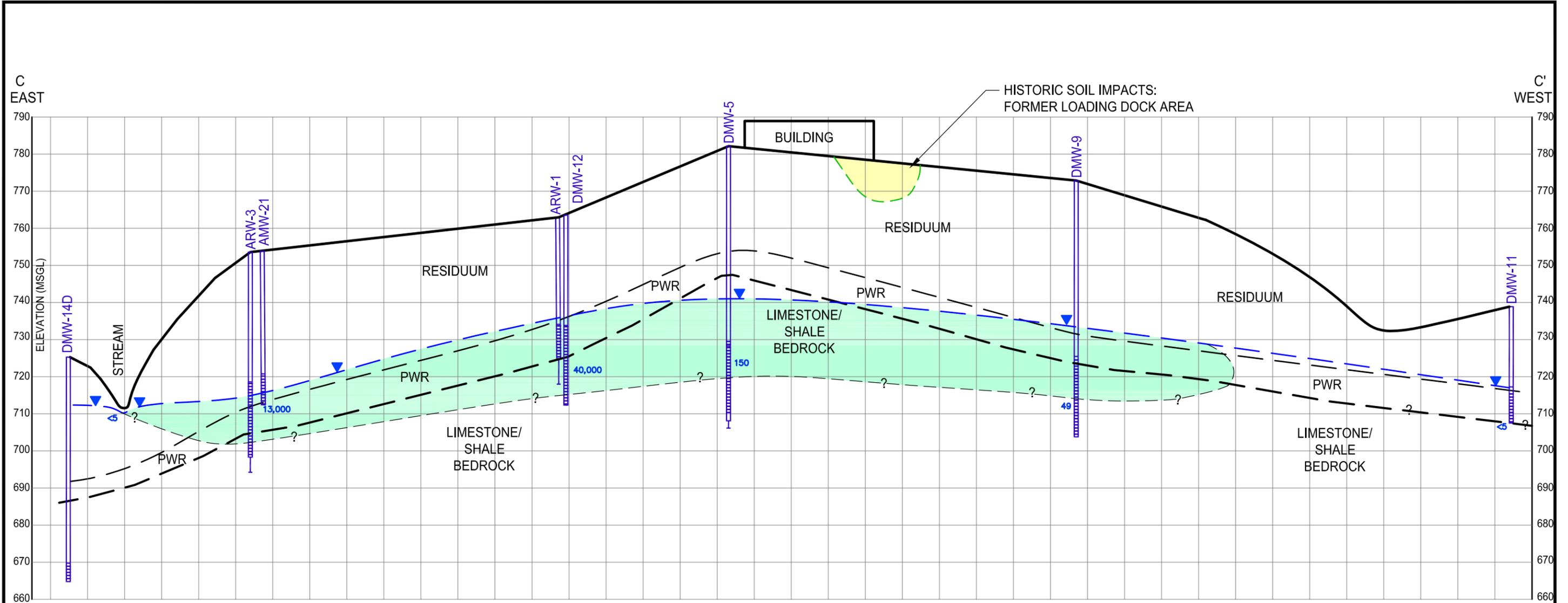


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CROSS SECTION B-B'  
PCE CONCENTRATION  
IN SOIL (2001-2002)  
AND GROUNDWATER (NOVEMBER 2011)  
JOB NO. 6122-12-0076 **FIGURE 15**

PREPARED BY/DATE T. GLADSTONE/ R. ROGERO 4/12/2013  
CHECKED BY/DATE D. SMOAK 4/12/2013



**LEGEND**

- PWR= PARTIALLY WEATHERED ROCK
  - RESIDUUM CLAY AND SILT
  - ▼ GROUNDWATER ELEVATION 6/27/11
  - GROUNDWATER PCE PLUME (>5 ug/L)
  - HISTORIC SOIL IMPACTS FORMER LOADING DOCK AREA
  - SCREEN INTERVAL
  - BORING
  - DASHED WHERE INFERRED
  - 1'-0.40 = DEPTH OF SAMPLE AND PCE CONCENTRATION (mg/kg)
  - 13,000 = NOVEMBER 2011 GROUNDWATER PCE CONCENTRATION (ug/L)
- NOTE: PRE CONFIRMATION SAMPLE RESULTS

APPROXIMATE HORIZONTAL SCALE IN FEET



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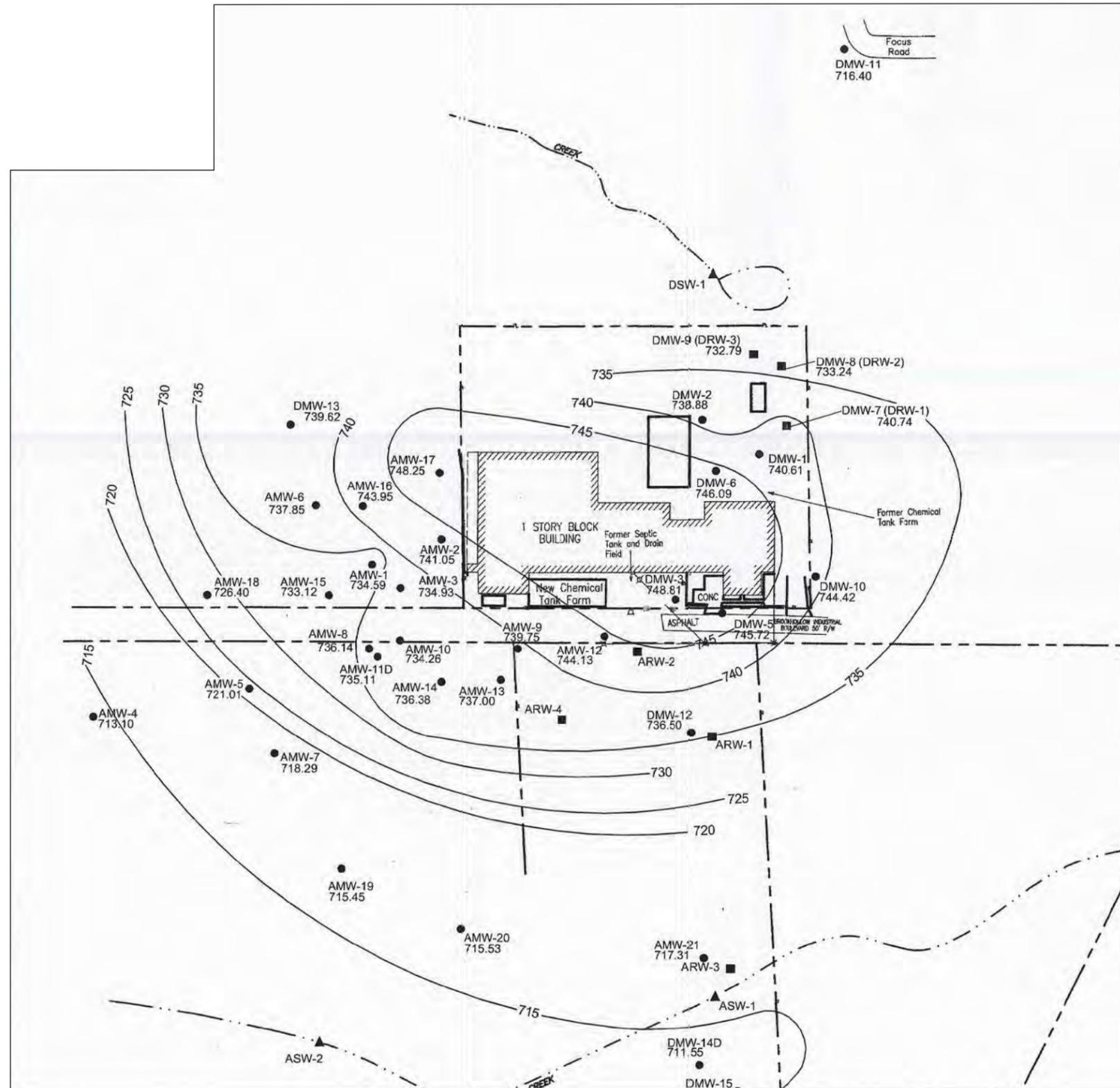


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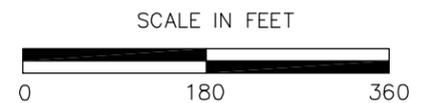
CROSS SECTION C-C'  
PCE CONCENTRATION  
AND GROUDWATER (NOVEMBER 2011)

JOB NO. 6122-12-0076

FIGURE 16



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



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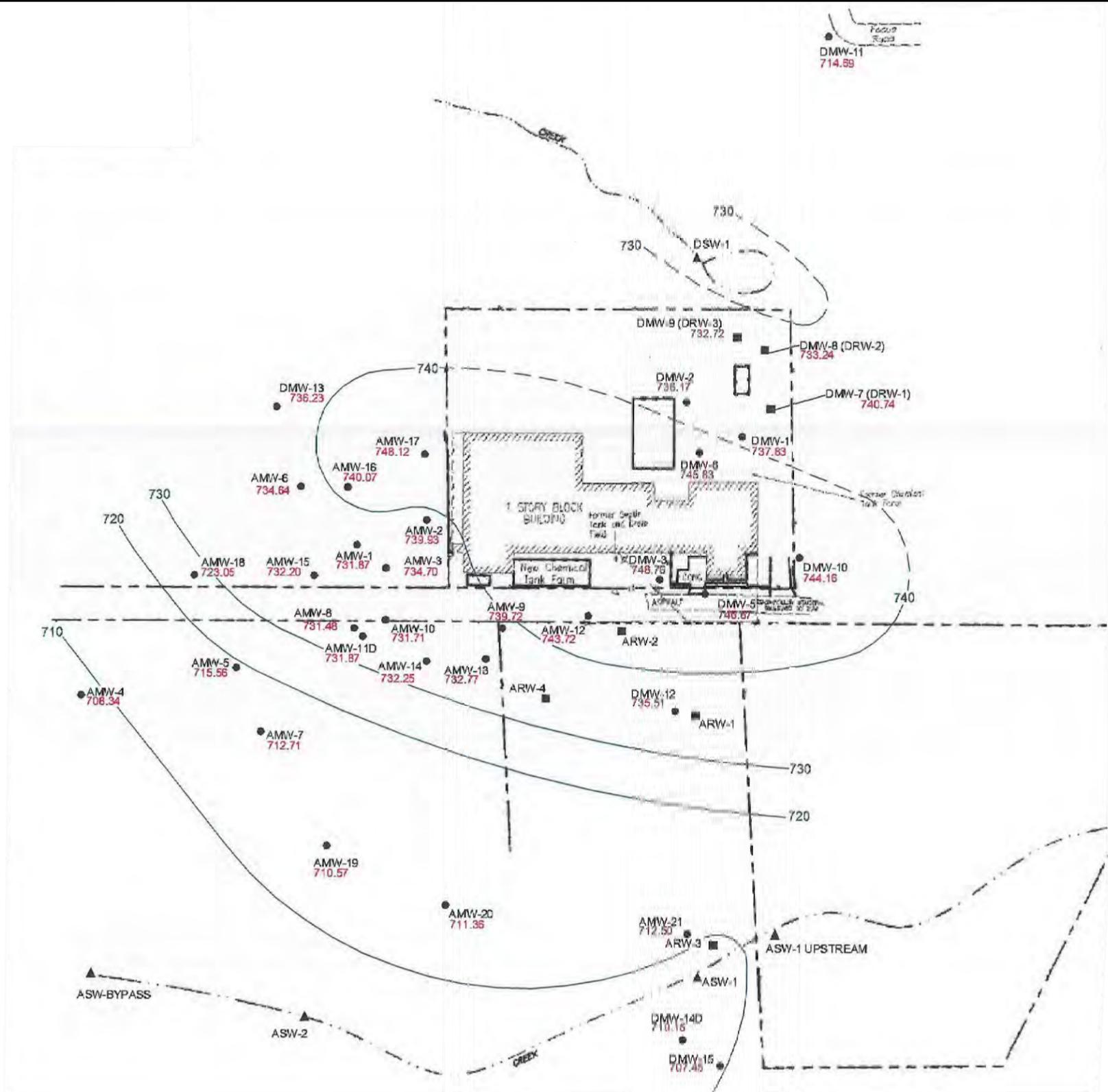
GROUNDWATER POTENTIOMETRIC MAP  
JUNE 27, 2011

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

JOB NO. 6122-12-0076

FIGURE 17A

PREPARED BY/DATE: TG - UK  
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LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



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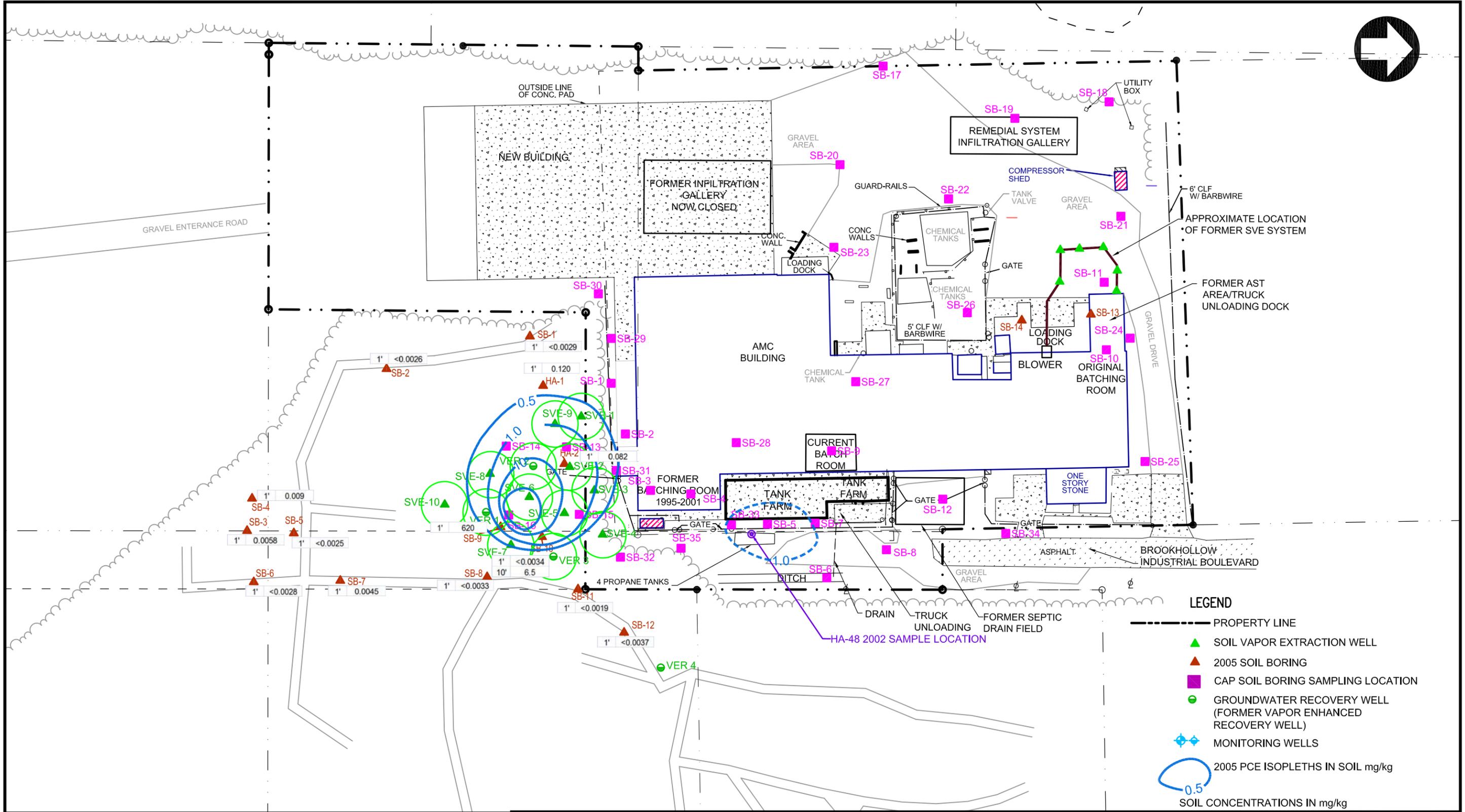
GROUNDWATER POTENTIOMETRIC MAP  
DECEMBER 8, 2011  
PUMPS OFF

JOB NO. 6122-12-0076

FIGURE 17B

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



SOURCE: DWG MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA

SCALE IN FEET



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PROPOSED SUPPLEMENTAL SOIL  
SAMPLING LOCATIONS

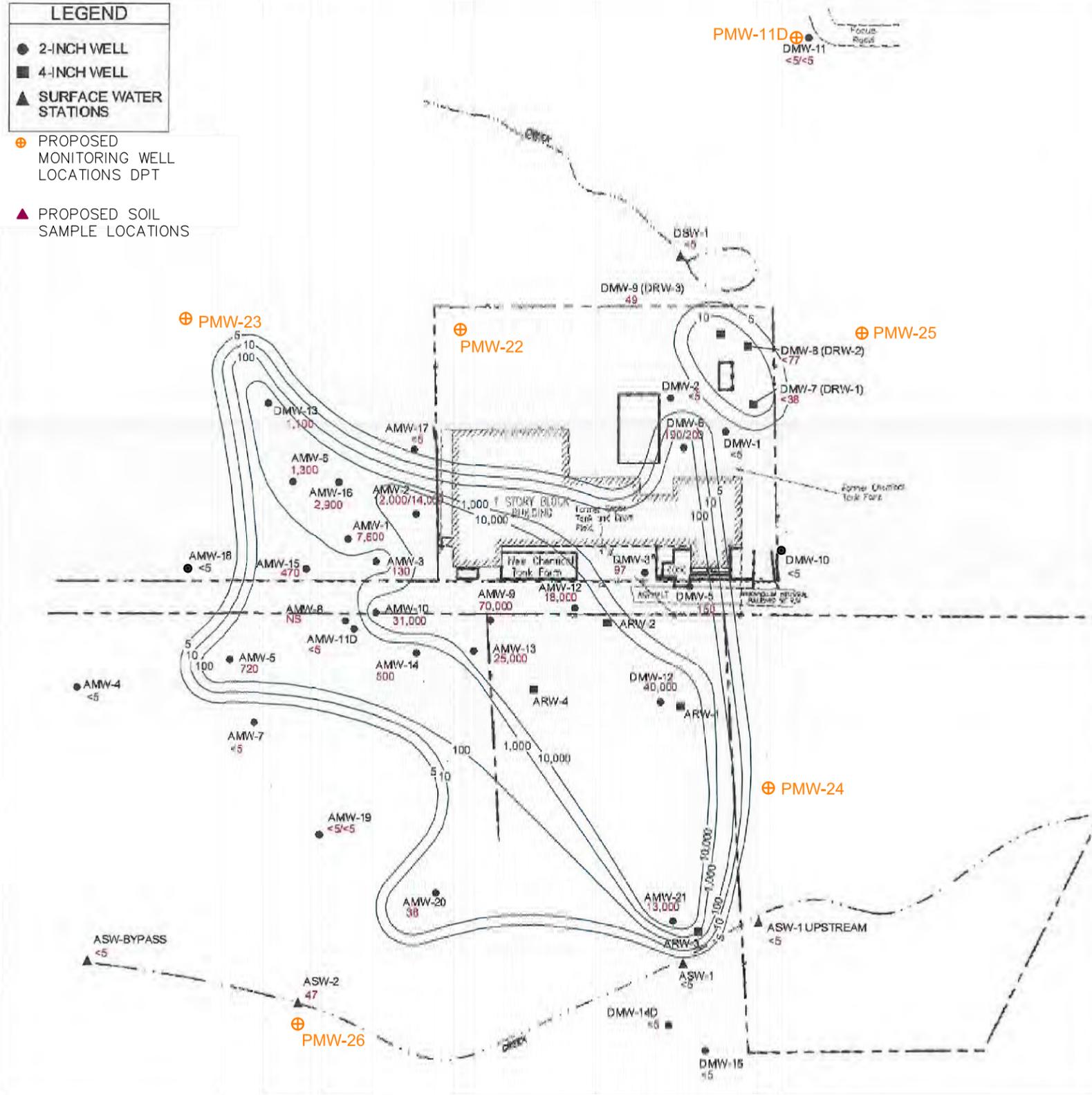
JOB NO. 6122-12-0076

FIGURE 18A

PREPARED BY/DATE T. GLADSTONE/R. ROGERO 4/12/2013  
CHECKED BY/DATE D. SMOAK 4/12/2013



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS
⊕	PROPOSED MONITORING WELL LOCATIONS DPT
▲	PROPOSED SOIL SAMPLE LOCATIONS



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PROPOSED SUPPLEMENTAL INVESTIGATION  
MONITORING WELL LOCATIONS

JOB NO. 6122-12-0076

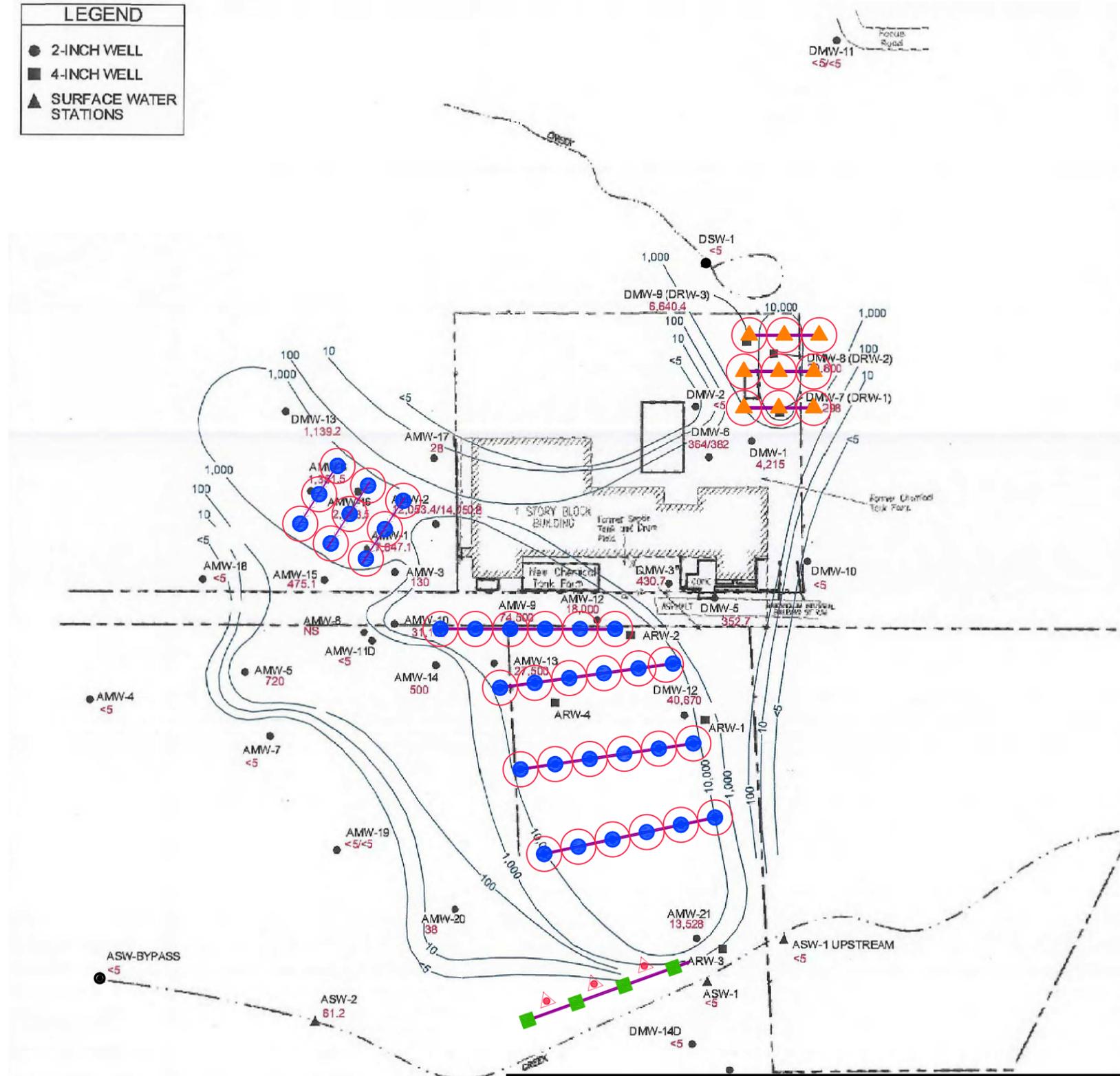
FIGURE 18B

SOURCE: PDF MODIFIED FROM DOBBS ENVIRONMENTAL, COVINGTON, GA.

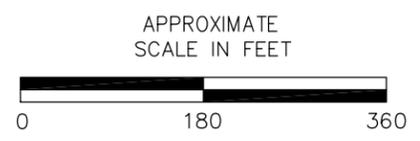
PREPARED BY/DATE: TG - LK  
CHECKED BY/DATE: DES / 5-25-12



LEGEND	
●	2-INCH WELL
■	4-INCH WELL
▲	SURFACE WATER STATIONS



LEGEND	
✕	RESIDUUM/SAPROLITE INJECTION PERMANGANATE
■	PROPOSED RECOVERY WELL
●	WEATHERED ROCK INJECTION PERMANGANATE
▲	WEATHERED ROCK INJECTION PERSULFATE
▲	NEW PIEZOMETERS
○	ESTIMATED RADIUS OF INFLUENCE

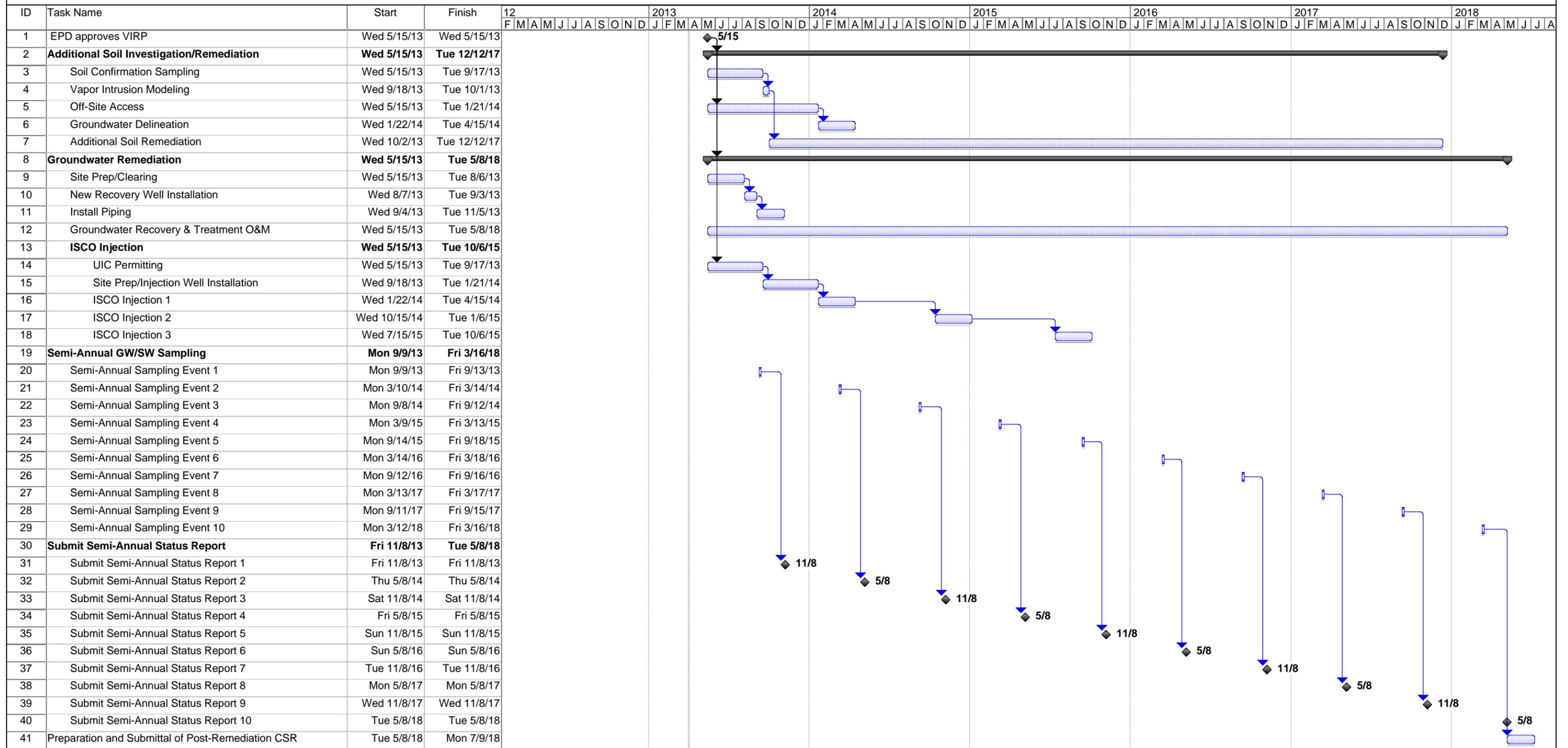


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CONCEPTUAL REMEDIATION LAYOUT

FIGURE 20 - SCHEDULE FOR IMPLEMENTATION OF VOLUNTARY INVESTIGATION & REMEDIATION PLAN  
 APOLLO INDUSTRIES, DALTON, GA



Project: Apollo Dalton VRP Impl Sch. Date: Mon 4/1/13

Task: [Blue bar] Progress; [Dotted bar] Milestone

Split: [Dotted bar]

Summary: [Thick black bar]; Project Summary: [Thin black bar]

External Tasks: [Thin grey bar]; External Milestone: [Thin grey bar]

Deadline: [Green arrow]

**APPENDIX A  
LEGAL DESCRIPTION AND PLAT MAPS**

## **AMC International, Inc.**

All that tract or parcel of land lying and being in Land Lot 25 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia and being more particularly described as follows:

To find the Point of Beginning, commence at a ½" rebar found at the intersection of the northerly right of way line of Kraft Drive (having an apparent 80' right of way) with the Land Lot Line common to Land Lots 25 and 26 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia; and thence leaving the said point and running with the said common Land Lot Line common to Land Lots 25 and 26 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia North 00° 33' 47" East, 938.59 to a point being the Point of Beginning of the herein described tract or parcel of land. Thence leaving the said Point of Beginning and running with the said common Land Lot Line common to Land Lots 25 and 26 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia North 00° 33' 47" East, 319.06 feet to a point; thence, leaving the said common Land Lot Line common to Land Lots 25 and 26 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia and running South 89° 56' 20" East, 20.68 feet to a point; thence, North 01° 00' 56" West, 464.76 feet to a ½" rebar found; thence, North 87° 56' 25" East, 400.00 to a 1" open top pipe found on the west right of way line of Brookhollow Industrial Boulevard (having an apparent 50' right of way); thence, running with the said west right of way line of Brookhollow Industrial Boulevard South 01° 00' 56" East, 216.43 feet to a point found at the southernmost end of Brookhollow Industrial Boulevard; thence, leaving the said west right of way line Brookhollow Industrial Boulevard and running with the south line of the said Brookhollow Industrial Boulevard North 89° 59' 29" East, 52.02 feet to a point found on the east right of way line of the said Brookhollow Industrial Boulevard; thence, running with the former east right of way line of Brookhollow Industrial Boulevard (formerly having a 50' right of way) South 00° 03' 40" West, 308.38 feet to a point; thence, leaving the said east line of the former Brookhollow Industrial Boulevard and running North 89° 56' 20" West, 238.55 feet to a point; thence, South 00° 33' 47" West, 273.91 feet to a point; thence, North 89° 54' 52" West, 219.56 feet to a point; thence, South 89° 56' 20" West, 10.05 feet to a point found on the said common Land Lot Line common to Land Lots 25 and 26 of the 13<sup>th</sup> District, 3<sup>rd</sup> Section, City of Dalton, Whitfield County, Georgia being the Point of Beginning, containing 285,911 square feet or 6.5636 acres of land, more or less.

---



**APPENDIX B  
PHASE 1 ESA REPORT**

---

**Privileged and Confidential**

**REPORT OF  
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Apollo Industries 310 Brookhollow Industrial Blvd.  
Dalton, Georgia

*Prepared for:*

**Apollo Industries, Inc.**  
**(through Krevolin and Horst, LLC)**  
Smyrna, Georgia

*Prepared by:*

**AMEC Environment & Infrastructure, Inc.**  
3200 Town Point Drive NW, Suite 100  
Kennesaw, Georgia 30144  
(770) 421-3400

April 12, 2012  
Project No.6122120076

---



April 12, 2012

Ms. Barbara Gallo  
Krevolin & Horst, LLC  
One Atlantic Center, Suite 3250  
1201 West Peachtree Street Northwest  
Atlanta, GA 30309

Privileged and Confidential

**Subject: Report of Phase I Environmental Site Assessment  
310 Brookhollow Industrial Blvd  
Dalton, Whitfield County, Georgia  
AMEC Project No. 6122120076**

Dear Ms. Gallo:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to submit this report of our Phase I Environmental Site Assessment for the Site referenced above. The purpose of our services was to characterize the general Site and adjacent property conditions relative to environmental concerns and to identify obvious actual and potential environmental conditions.

The findings and conclusions contained herein are based upon the data that was reviewed and documented in this report along with our experience on similar projects. The discovery of any additional information concerning the environmental conditions at the Site should be reported to us for our review so that we can reassess potential environmental impacts and modify our conclusions, if necessary.

This report is intended for the sole use of Apollo Industries, Inc. and their subsidiaries, affiliates, and successors. Other designated parties may rely on this report by executing the attached 3<sup>rd</sup> party Reliance letter which specifies the conditions and limitations of use.

We appreciate the opportunity to be of service to you. Please call us if you have any questions or if we may be of further service.

Sincerely,  
**AMEC Environment & Infrastructure, Inc.**

  
Jeffery A. Moore, PG<sup>1</sup>  
Senior Geologist

  
David E. Smoak, PG<sup>1</sup>  
Principal Geologist

1: Statement of Certification, per ASTM E 1527-05 Standard Practice:

*As employee(s) of AMEC Environment & Infrastructure, Inc. (AMEC), I (we) declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I (We) have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I (We) have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312*

cc: Michael Vlass, c/o Apollo Industries, Inc.

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# REPORT OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

## 310 Brookhollow Industrial Blvd. Dalton, Georgia

### 1.0 EXECUTIVE SUMMARY

Apollo Industries, Inc. (Apollo) engaged AMEC Environment & Infrastructure, Inc. (AMEC), through Krevolin & Horst, LLC, to perform a Phase I Environmental Site Assessment (ESA) on an approximately 13.5 acre property located at 310 Brookhollow Industrial Blvd., Dalton, Whitfield County, Georgia.

#### ***Property and Area***

The Subject Property (Site) is bounded on the north by a warehouse facility and undeveloped woodland, to the south by formerly undeveloped land owned by Brookhollow South Ventures, to the east by undeveloped woodland and residential properties, and to the west by undeveloped woodland.

According to the Whitfield County Assessor's Office, the Site has been assigned the Assessor's Parcel Number of 13-025-01-007 with the adjacent parcel 13-025-01-002 to the south also listed as being owned by AMC. The Site is a 4.58 rectangular parcel developed as an industrial manufacturing facility with an 8.97 acre mostly undeveloped parcel to the south (Figures 1 and 2). Development is currently underway on the southwestern portion of the Site for a 50,000 square foot warehouse expansion. The Site building was reportedly constructed in 1983 as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. Apollo purchased the property in 1995. Environmental assessment/remediation activities were initiated at the facility in 1995 to address soil and groundwater impacts from spills at a former tank farm and septic system. In June 2001, a fire in the batch room on the eastern portion of the facility resulted in the release of volatile organic compounds (VOCs) to the environment. The facility was subsequently listed on the Georgia Hazardous Site Inventory (HSI), and additional assessment/remediation activities have continued under the regulatory guidance of the Georgia Hazardous Site Response Act (HSRA).

#### ***Historical Review***

Based on historical sources reviewed, the Subject Property was undeveloped until 1983 when it was developed as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (subsidiary of Apollo Industries) purchased the property in 1995 and continues to perform contract aerosol packaging at the facility.

#### ***Regulatory Review***

The Subject Property is listed under several state and local databases, and has known releases of VOCs to the environment. Corrective action for groundwater contamination is currently ongoing at the Site.

### **On-site Conditions**

AMEC identified on-site historical recognized environmental conditions (HRECs) relative to the Subject Property.

- The former Accutech tank farm leak, release of VOCs to the environment, and septic system impacts are currently being addressed by a groundwater recovery and treatment system on the northwest portion of the Site.
- The 2001 batch room fire and release of VOCs to the environment is currently being addressed by a groundwater recovery and treatment system on the southeast portion of the Site.

AMEC also identified on-site recognized environmental conditions (RECs) relative to the Subject Property.

- Stained concrete was observed in and around the batch room at the Site. Minor chemical spills have likely occurred in the batch room. A fire reportedly occurred in 2001 in the batch room resulting in a release of chemicals (VOCs) to soil and groundwater in the area. Soil beneath the concrete of the batch room was not sampled for the presence of VOCs during remedial activities and could potentially be a source of groundwater contamination in the area. Probable chemical spills and staining in the batch room and the unknown impacts to soil beneath the batch room constitute a REC at the Site.

### **Off-site Conditions**

AMEC did not identify off-Site RECs that would appear to impact the Site; however, available documentation indicates that the Site has groundwater impacts extending offsite.

### **Conclusions and Recommendations**

AMEC has performed a Phase I ESA of the Subject Property in general conformance with the scope and limitations of ASTM E 1527-2005. No exceptions to, or deletions from, the ASTM E 1527-2005 were identified. RECs were identified in relation to the current Subject Property and building operations. Remedial activities have been ongoing at the Site since 1995 and further environmental assessment is planned in the future. In order to address the RECs identified at the Subject Property, Apollo is currently engaged in discussion with the GA EPD regarding participation in the Georgia Brownfield Program (BFP) for a prospective purchaser and/or the Georgia Voluntary Remediation Program (VRP).

- AMEC recommends continued compliance with Georgia Environmental Protection Division (GAEPD) requirements regarding the ongoing remediation of historical soil and groundwater impacts at the Site.
- AMEC recommends appropriate follow up of the batch room REC.
- AMEC recommends that AMC assess the nature of a 55-gallon drum located in the woods below the southeastern treatment system and a plastic 55-gallon drum in the woods on the west side of the plant and dispose of them appropriately.

- AMEC observed water in the protective vault and pooled on the ground at recovery well RW-4 on Peebles property east of the Site. AMEC recommends that AMC assess the condition of the recovery well to determine if it is operating correctly.
- Based on Apollo's expressed desire to divest the Site, AMEC recommends the development of a conceptual regulatory strategy that addresses the RECs through the Georgia BF for a prospective purchaser and/or the VRP.

## **2.0 INTRODUCTION**

### **2.1 REASON FOR PERFORMING PHASE I ESA**

Krevolin & Horst, LLC engaged AMEC Environment & Infrastructure, Inc. (AMEC), on behalf of Apollo Industries, Inc. (Apollo) to perform a Phase I Environmental Site Assessment (ESA) on an approximately 58,000 square foot aerosol packaging plant located on 13.55 acres at 310 Brookhollow Industrial Blvd., Dalton, Whitfield County, Georgia. AMEC understands that the Phase I ESA is being performed as part of due diligence prior to a potential stock and real estate divestiture by Apollo Industries, Inc.. The location of the Subject Property is depicted on Figure 1.

### **2.2 RELIANCE**

This report is intended for the sole use of Apollo Industries, and their subsidiaries, affiliates, and successors. A prospective purchaser may rely upon this report by executing a Reliance Letter which will be provided by AMEC which specifies the conditions and limitations of use.

### **2.3 PURPOSE**

The purpose of our services was to identify obvious environmental conditions from practices and activities that have occurred on the Site or adjacent sites that could potentially contaminate the Site.

### **2.4 SCOPE OF WORK AND REPORT FORMAT**

The Phase I ESA is a general characterization of environmental concerns based on readily available information and site observations. The assessment was performed in general accordance with ASTM International Practice E 1527-05. The following services were provided for the assessment:

- A review of information provided to us by the user of this Phase I ESA.
- A review of readily ascertainable records (i.e., topographic maps, geologic and environmental documents, aerial photographs, site observations, etc.) for information, which would allow a qualitative hydrogeologic evaluation of the Subject Property and vicinity to characterize the area drainage.
- A Site and surrounding area reconnaissance for obvious indications of present or past activities which have or could have adversely environmentally impacted the Subject Property.
- A review of readily ascertainable records (i.e., historic street directories, fire insurance maps, prior environmental reports, maps, aerial photographs, interviews with knowledgeable persons, etc.) to assess historical Subject Property and adjoining properties' land uses.
- A review of readily ascertainable environmental lists published by state and federal environmental regulatory agencies and contacts with local pollution control agencies to assess if the Subject Property or nearby properties are listed as having a present or past environmental problem, are under investigation for environmentally detrimental releases, or are regulated by state, federal, or local environmental regulatory agencies.

- Preparation of this report containing our findings, conclusions, and if warranted, recommendations for additional assessment.

Our scope of services did not include sampling of the soil, groundwater, or, if present, building materials. No subsurface evaluation was performed as a part of this assessment. In addition, our scope of this Phase I ESA did not include asbestos, lead-based paint, radon or lead-in-drinking water surveys.

Our report format is generally organized as follows:

- An executive summary.
- An introductory section.
- Review of site physical setting records with relation to soil, geology, surface water flow and groundwater flow direction.
- Review of current Subject Property and immediately adjoining properties' conditions.
- Interview results obtained from others knowledgeable about the Subject Property.
- Review of records relating to historic Subject Property and historic adjoining property use(s).
- Review of government and public environmental records.
- Findings and our opinion as to whether our findings identify any RECs, as defined by ASTM.
- Our conclusion(s), and if warranted, recommendations for further assessment activities.
- Significant deviations from the ASTM standard.
- Additional services, if provided, which are not included within the ASTM standard.
- References used during the completion of this Phase I ESA.

Appendices follow the narrative text, and include figures, photographs, regulatory list searches, and user-provided reports, if applicable. The qualifications of the environmental professionals performing and reviewing the Phase I ESA are presented in the form of resumes, and are included at the end of the Appendices.

## 2.5 SPECIAL TERMS AND CONDITIONS

ASTM E 1527-05 defines a "recognized environmental condition" (REC) as: "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

An historical REC is an environmental condition which has been addressed through remediation and communication with a responsible regulatory authority. A business environmental risk is an

environmental condition which can have an environmental impact on the business associated with the current or planned use of a parcel of real estate. Recognized environmental conditions and business environmental risks which warrant follow-up assessment are termed environmental concerns in this report.

No other significant special terms were introduced or presented as part of this Phase I ESA.

## **2.6 SIGNIFICANT ASSUMPTIONS**

AMEC assumes reviewed documents, and responses of interviewed parties, are accurate, unless otherwise noted. No other significant assumptions were made with respect to the Subject Property as part of this Phase I ESA.

## **2.7 LIMITATIONS AND EXCEPTIONS**

The findings and opinions are relevant to the dates of our Site work and should not be relied on to represent conditions at substantially later dates. The opinions included herein are based on information obtained during the study and our experience with similar projects. If additional information becomes available which might impact our environmental conclusions, we request the opportunity to review the information, reassess the potential concerns, and modify our opinion, if warranted. If this assessment included a review of reports prepared by other consultants, it must be recognized that AMEC has no responsibility for the accuracy of information contained therein.

Although this assessment has attempted to identify the potential for contamination on the Subject Property, potential sources of contamination may have escaped detection due to: (1) the limited scope of this assessment; (2) the inaccuracy of public records; (3) the presence of undetected and unreported environmental incidents; (4) inaccessible areas, and/or; (5) deliberate concealment of detrimental information. It was not the purpose of this study to determine the actual presence, degree or extent of contamination, if any, at the subject Site. This would require additional exploratory work, including sampling and laboratory analysis.

## **2.8 ENVIRONMENTAL PROFESSIONALS AND QUALIFICATIONS**

Field observations and general research were completed by an AMEC professional experienced in performing Phase I ESAs. Reviews were completed by an AMEC Principal experienced in performing Phase I ESAs. Resumes for AMEC personnel are provided in Appendix E.

## **2.9 DATA GAPS**

Complete information is sometimes unavailable to AMEC, and a data gap is evident. In cases where information is not readily ascertainable or practically reviewable, ASTM 1527-05 procedures generally conform to the EPA's proposed All Appropriate Inquiry document (CFR 312.10). The EPA's proposed All Appropriate Inquiry document states a data gap to mean "a lack of or inability to obtain information required by the standards and practices listed in subpart c of Part 312 despite good faith efforts by the environmental professional or persons identified under Part 312.1 (b), as appropriate, to gather such information pursuant to Part 312.20 (d) (1) and Part 312.20(d)(2)."

The following presents AMEC's interpreted data gaps, resolution efforts, and our opinions on the data gap significance.

<b>Data Gaps, Resolution Efforts and Opinion on Data Gap Significance</b>			
<b>General data gap description</b>	<b>Specific gap</b>	<b>Good faith efforts</b>	<b>Opinions on data gap significance</b>
Historical records	Documentation was not available for all land use dates.	AMEC reviewed reasonably ascertainable maps and aerial photographs.	Low significance- Soil and groundwater impacts from Accutech and AMC operations at the Subject Property have been addressed.
Interviews	Complete ownership interviews were not available.	Contacts were not readily available for past owners. AMEC obtained information from the current owner.	Low significance- Soil and groundwater impacts from Accutech and AMC operations at the Subject Property have been addressed.

### 3.0 PHYSICAL SETTING

A consideration of underlying soil, geology, surface drainage, and subsurface groundwater flow direction (hydrogeology) are of interest since they provide an indication of the direction that contaminants, if present, could be transported. It was not the purpose of our review to evaluate the geotechnical conditions of the Subject Property or to assess engineering geology concerns such as foundation conditions, faulting, or subsidence.

AMEC reviewed the following information in regard to the hydrogeology of the site and surrounding area:

- *Geology and ground-water resources of Gordon, Whitfield, and Murray Counties, Georgia, C.W. Cressler, dated 1974, Georgia Geologic Survey Information Circular 47, 56 p;*
- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 30-minute series (topographic) map, dated 1897;*
- *U.S. Geological Survey (USGS), Calhoun, Georgia Quadrangle, 15-minute series (topographic) map, dated 1951;*
- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 7.5-minute series (topographic) map, dated 1972, photorevised 1982;*
- *Revised and Combined Compliance Status Report for AMC International, Inc., Dobbs Environmental, dated October 2006;*
- *EDR Radius Map with GeoCheck®, Environmental Data Resources, Inc. (EDR), Inquiry Number 3282173.2s, dated March 21, 2012.*

### 3.1 SITE TOPOGRAPHY

The AMC facility area is characterized by gently to steeply rolling ridges separated by flat to gently rolling valleys, where ground surface elevations range from over 900 feet above mean sea level (msl) to under 650 feet msl. The regional topography slopes to the south and east toward the Conasauga River. The Conasauga River is approximately four miles south-southeast of the site.

The AMC facility is located on a ridge top at an elevation ranging from under 780 feet msl to over 800 feet msl. The ridge top trends north-south, and topography falls steeply to the east and west. Relief within a few 100 feet of the AMC property boundaries is over 80 feet.

### 3.2 GEOLOGY AND SOIL

The local soil and geology are factors in assessing surface water and groundwater movement. AMEC reviewed the Subject Property's surface and subsurface characteristics for information on the possible movement of contaminants. The following paragraphs summarize AMEC's interpretation of underlying geologic conditions.

The AMC facility is located in the Valley and Ridge Physiographic Region of Georgia. This region is characterized by sedimentary rocks of Cambrian, Ordovician, Silurian, Devonian, and Mississippian Age. The facility is underlain by the lower unit of the Conasauga Formation. This unit is mainly composed of olive-green, tan, and pale red sandy and silty shale with some siltstone, and is approximately 1,000 feet thick. The Conasauga Formation is of Middle to Late Cambrian Age,

and contains fossils of trilobites (now extinct). The other units of the Conasauga Formation include a middle unit, 1,000 feet thick with blue limestone in a light green to yellowish clay shale; and an upper unit, the Maynardville Limestone Member, that is composed of gray limestone and dolomite.

### **3.3 SURFACE DRAINAGE AND GROUNDWATER FLOW DIRECTION**

Storm water run-off from the site flows into the tributaries of Jobs Creek that flows to the southeast and into the Conasauga River. A series of small lakes are located below the AMC property to the west and southwest.

Groundwater occurs in the Conasauga Formation under unconfined water table conditions at depths ranging from less than ten feet below ground surface (bgs) to over 50 feet bgs. The movement of groundwater is within two separate but interconnected water bearing zones. The shallow zone occurs within the soil mantle above the bedrock, and a deeper zone within the rock. Groundwater in the shallow zone is under unconfined water table conditions, and flow is controlled by the overlying topographic gradients. In the deeper zone, groundwater flow is not as apparent, relative to the overlying topography and is controlled more by rock fractures (joints and bedding planes) and may be slightly confined. Recharge to the groundwater is through infiltration of precipitation into the soil and or bedrock directly, or into the bedrock from the overlying soil. Discharge is to the streams and rivers from the soil zone. Bedrock may lie below the stream valleys or outcrop within the stream, and, therefore, the streams may or may not receive discharge from the rock zone.

Groundwater flow reflects the topography at the Site and exhibits a radial flow from the topographic high to the west, northeast, south and southwest.

Review of Federal Emergency Management Agency (FEMA) information included within the EDR document indicates that the Subject Property is not located within a 100-year flood zone or 500-year flood zone.

## **4.0 SITE AND ADJOINING PROPERTIES**

### **4.1 SITE OBSERVATIONS**

#### **4.1.1 Site Location and General Configuration**

The Site is located at 310 Brookhollow Industrial Blvd., Dalton, Whitfield County, Georgia. The Subject Property is bounded on the north by a warehouse facility and undeveloped woodland, to the south by formerly undeveloped land owned by Brookhollow South Ventures, to the east by undeveloped woodland and residential properties, and to the west by undeveloped woodland.

According to the Whitfield County Assessor's Office, the Site has been assigned the Assessor's Parcel Number of 13-025-01-007 with the adjacent parcel 13-025-01-002 to the south also listed as being owned by AMC. The Site is a 4.58 rectangular parcel developed as an industrial manufacturing facility with an 8.97 acre mostly undeveloped parcel to the south (Figures 1 and 2). Development is currently underway on the southwestern portion of the Site for a 50,000 square foot warehouse expansion. The Site building was reportedly constructed in 1983 as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (subsidiary of Apollo Industries) purchased the property in 1995. Environmental assessment/remediation activities were initiated at the facility in 1995 to address soil and groundwater impacts from spills at a former tank farm and septic system. In June 2001, a fire in the batch room on the eastern portion of the facility resulted in the release of VOCs to the environment. The facility was subsequently listed on the Georgia Hazardous Site Inventory (HSI), and additional assessment/remediation activities have continued under the regulatory guidance of the Georgia Hazardous Site Response Act (HSRA).

#### **4.1.2 Current Site Use, Improvements, and Tenants**

AMEC performed a site visit on March 22, 2012. The Subject Property is owned by AMC International Inc., a subsidiary of Apollo, and operates as a contract packager of aerosols with three aerosol production lines and a chemical compounding (batch) room. Two groundwater remediation systems are currently operated at the Site; one at the northwest corner associated with releases by Accutech; and one on the southeast corner associated with AMC's batch room fire in 2001. An aboveground storage tank (AST) farm is located outside the batch room on the east side of the plant. The tank farm is surrounded by secondary containment walls and receives bulk tanker deliveries of chemicals for batch mixing aerosol products for automotive, industrial, janitorial, and commercial use. A second AST farm is located on the west side of the plant and contains propane used for aerosol propellants. The production lines and batch room take up a small portion of the plant building with the majority of the plant used for warehouse storage. A new 50,000 square foot warehouse facility is under construction on the southwest corner of the Site to relieve overcrowding in the main plant building. A new access road from the South Dalton Bypass is also under construction to service the new warehouse facility.

#### **4.1.3 Site Specific Observations**

Mr. Jeff Moore, an environmental professional from AMEC experienced in environmental site assessments, conducted the site and area reconnaissance. The Site reconnaissance was performed to observe for visual indications of present or past activities that have or could have adversely impacted the environmental conditions of the Site. Mr. Moore conducted the Site reconnaissance with Mr. Mike Mavridis, Vice President and former General Manager at the Site, and Mr. Rich Wilkerson, Vice President and General Manager at the Site. Photographic documentation of the Subject Property and adjoining properties is provided in Appendix B.

The following conditions were specifically assessed for their potential to create RECs.

### **Pits, Ponds, Lagoons and Surface Waters**

No pits, ponds, or lagoons were observed at the Subject Property. There is a small pond adjacent to the northwest corner of the Site, and several ponds southwest of the Site. A new retention pond has been constructed on newly graded property south of the Site for construction of a new access road. An unnamed tributary of Jobs Creek flows north to south across the eastern, wooded portion of the Site.

### **Stained Soil or Pavement**

Stained concrete was observed in and around the batch room at the Site. Minor chemical spills have likely occurred in the batch room. A fire reportedly occurred in 2001 in the batch room resulting in a release of chemicals (VOCs) to soil and groundwater in the area. Soil beneath the concrete of the batch room was not sampled for the presence of VOCs during remedial activities and could potentially be a source of groundwater contamination in the area. The 2001 fire and release of VOCs to the environment constitute an HREC at the Site. Probable chemical spills and staining in the batch room and the unknown impacts to soil beneath the batch room constitute a REC to the Site. No stained soil was observed on or around the Site.

### **Stressed Vegetation**

No stressed vegetation was observed at the Subject Property.

### **Solid Waste**

No solid waste disposal into the underlying soil was observed at the Subject Property. Solid Waste is disposed of by Waste Services in dumpsters on the northwest side of the plant.

### **Waste Water System**

AMEC did not observe indications of industrial-use wastewater disposal at the Subject Property. The Site is a small quantity generator of hazardous waste. Mr. Mavridis stated that approximately 10 to 12 drums of waste are removed in 55-gallon drums every 3 months for disposal at a licensed incinerator. AMEC did not observe indications of a septic system or leach field. Prior to 1996 the facility used a septic tank and leach field on the east side of the plant. During the property transaction in 1995, VOCs were detected in soil and groundwater at the septic tank/leach field area. Use of the septic tank/leach field was discontinued in 1996 when AMC connected to the City of Dalton's sanitary sewer system. The former septic tank and drain field constitute an HREC at the Site.

### **Water Supply Wells and Drywells**

AMEC did not observe water supply wells or industrial wastewater injection wells at the Subject Property. Numerous groundwater monitoring wells and groundwater recovery wells are located on and around the Site. Potable water in the region is supplied by the City of Dalton.

### **Septic Systems**

The Site is currently connected to the City of Dalton's sanitary sewer system.

## **Electrical Transformers and Hydraulic Equipment**

Electrical transformers are a potential REC due to the potential presence of polychlorinated biphenyls (PCBs) contained in dielectric fluids used in some units. AMEC did observe six pole mounted transformers along Brookhollow Industrial Blvd. These are the main power supply to the plant. No staining was observed in the vicinity of the transformers and they appeared relatively new and in good condition. The transformers were labeled Dalton Utilities. Due to the age of the building and the transformers, the use of PCBs is unlikely. Capacitors or light ballasts containing PCBs in the plant are also unlikely due to the age of the building.

AMEC did not observe hydraulic lifts at the Site.

## **Storage Tanks**

AMEC observed approximately 16 chemical aboveground storage tanks (ASTs) in the new tank farm on the east side of the plant. The ASTs are located in a walled secondary containment area with tanker truck access for filling. Truck access is accomplished by backing into the concrete containment area from the gravel drive. The truck access is sloped away from the gravel drive and is surrounded by a concrete secondary containment wall on the downhill three sides. The ASTs appeared in good condition with no visible signs of leaks or spills. A fire reportedly occurred in 2001 in the batch room adjacent to the tank farm resulting in a release of chemicals (VOCs) to soil and groundwater in the area. A groundwater recovery and treatment system is currently operating in the southeast area to remediate impacted groundwater. The 2001 fire and release of VOCs to the environment constitute an Historic REC to the Site.

A former tank farm operated by Accutech prior to 1995 was reportedly located at the northwest corner of the plant. The former tank farm was identified as the source of VOCs detected in soil and groundwater in the northwest area. A groundwater recovery and treatment system is currently operating in the northwest area to remediate impacted groundwater. The former tank farm and release of VOCs to the environment constitute an HREC at the Site.

AMEC observed approximately three propane ASTs on the west side of the plant. The propane is used as an aerosol propellant.

AMEC did not observe indications of underground storage tanks (USTs) such as fill ports, vault covers, or vent pipes at the Subject Property.

## **Dry Cleaning**

Dry cleaning operations are frequently sources of RECs due to the chlorinated solvents used in the cleaning process. No dry cleaning operations were observed at the Subject Property or immediately adjacent to the Subject Property.

## **Odors**

No obvious unusual odors were noted during our site reconnaissance. The interior of the plant was well ventilated, and no strong noxious or unusual odors were detected during the walk-through.

## **Hazardous Substances and Petroleum Products, Containers and Drums**

AMC utilizes bulk containers, totes and drums to batch blend specific client products and transfers the blended product via tote or drum to one of three production lines. The production line fills aerosol cans with blended product and propellant, then labels, tests, and packages the aerosol cans for distribution. AMC is a registered Resource Conservation and Recovery Act (RCRA) small quantity hazardous waste generator.

### **Other Observations**

AMEC observed one plastic 55-gallon drum in the woods on the west side of the plant. The drum was full of what appeared to be rain water and had tadpoles swimming in it. Plant personnel were going to pull a laboratory sample of the water and test it for VOCs and dispose of the drum accordingly.

One metal 55-gallon drum was identified in the woods southeast of the plant building along piping for the groundwater recovery system. The drum is labeled Investigative Derived Waste (IDW) and appears to be left over from remediation work completed by ARCADIS prior to 2003. Contents of the drum are unknown due to degradation of the label, but it can be assumed that it is either soil or water. AMEC recommends that AMC assess the nature of the drum contents and dispose accordingly.

AMEC observed water in the protective vault and pooled on the ground surface at recovery well RW-4 on Peebles property east of the Site. The area surrounding RW-4 was observed to contain standing water which could be a natural occurrence in that location. AMEC recommends that AMC assess the condition of the recovery well to determine if it is operating correctly.

## **4.2 CURRENT USES OF ADJOINING PROPERTIES**

The reconnaissance of current adjoining property use helps evaluate whether adjacent or nearby property uses may have contaminated the site. AMEC's assessor conducted the reconnaissance by touring the area by foot and by automobile, and viewed the areas from available access areas and public right-of-way. Restricted areas were not entered. The findings of our area reconnaissance are discussed referencing the nominal direction from the Subject Property (e.g., north, east, south, and west).

### **North:**

The Subject Property is bounded on the north by a warehouse facility and undeveloped, wooded property owned by Peebles.

### **East:**

The Subject Property is bounded on the east by undeveloped, wooded property owned by Peebles and residential property along Roberts Circle. An unnamed tributary of Jobs creek flows north to south across a portion of the Subject Property to the east.

### **South:**

The Subject Property is bounded on the south by recently graded property owned by Brookhollow South Ventures. This property was previously undeveloped and wooded, but has

undergone recent improvements with the construction of a new access road from the South Dalton Bypass to the Site.

**West:**

The Subject Property is bounded on the west by undeveloped, wooded property.

## **5.0 INTERVIEWS AND SPECIALIZED KNOWLEDGE**

### **5.1 OWNER INTERVIEW**

AMEC provided the User Questionnaire to Michael B. Vlass. At the time of this reporting, Mr. Vlass had not returned the questionnaire. Mr. Mike Mavridis, vice president and former general manager at the Site was asked questions pertaining to the User Questionnaire. Mr. Mavridis stated that known impacts to soil and groundwater have occurred at the Site, as discussed above, and that cleanup activities are currently underway to remediate impacted groundwater. Mr. Mavridis also indicated that he knew of no environmental liens recorded against the Subject Property.

#### **5.1.1 Title Records**

A 50-year Chain of Title search was not provided to AMEC. The Site building was reportedly constructed in 1983 as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (Apollo) purchased the property in 1995 and continues to perform contract aerosol packaging.

#### **5.1.2 Environmental Liens or Activity and Land Use Limitations**

AMEC received an Environmental LienSearch Report provided by Environmental Data Resources (EDR) for the Subject Property. No environmental liens were found for the Subject Property. Mr. Mavridis also stated that he knew of no environmental liens recorded against the Subject Property. The EDR LienSearch also reports any other activity and use limitations (AULs) for a property. The Site listing under the Georgia Hazardous Site Inventory is included in the deed book for the Subject Property.

#### **5.1.3 Specialized Knowledge**

AMEC has reviewed readily available public records and Apollo supplied documents pertaining to the soil and groundwater contamination present on the Site. The previous releases of VOCs to the environment are considered HRECs at the Site.

#### **5.1.4 Valuation Reduction for Environmental Issues**

Mr. Mavridis indicated that the purchase price of the Subject Property is not affected by known environmental conditions present at the Site.

### **5.2 SITE MANAGER INFORMATION**

Mr. Mavridis indicated that the Subject Property is a custom batch, contract aerosol production facility. Known releases of VOCs to the environment occurred under previous owners (Accutech), and current owners (AMC International, a subsidiary of Apollo).

### **5.3 KEY TENANT/OCCUPANTS**

The Subject Property has been operated by AMC since 1995 as a producer of custom batch solvent and water based chemicals for aerosol applications and is a RCRA small quantity hazardous waste generator. The majority of the chemical blending is done in the batch room area. The product is then transported to aerosol production lines via chemical container. Prior to 1995 similar operations are believed to have been conducted by the former owner Accutech.

#### **5.4 LOCAL GOVERNMENT OFFICIALS**

AMEC did not obtain information from local officials.

## 6.0 HISTORICAL USE REVIEW

### 6.1 HISTORICAL PROPERTY USE INFORMATION

AMEC reviewed the following information in order to ascertain the historical uses of the site and to assess possible activities of potential environmental concern:

- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 30-minute series (topographic) map, dated 1897;*
- *U.S. Geological Survey (USGS), Calhoun, Georgia Quadrangle, 15-minute series (topographic) map, dated 1951;*
- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 7.5-minute series (topographic) map, dated 1972, photorevised 1982;*
- *Revised and Combined Compliance Status Report for AMC International, Inc., Dobbs Environmental, dated October 2006;*
- The EDR Aerial Photo Decade Package, with portions of aerial photographs dated 1938, 1950, 1960, 1972, 1978, 1988, 1993, 2005, and 2006 EDR Inquiry Number 3282173.5, dated March 23, 2012;
- The EDR Certified Sanborn Map Report, with portions of Sanborn maps dated 1950, and 1978 EDR Inquiry Number 3225341.3, dated December 15, 2011;
- The EDR City Directory Image Report, with portions of Polk's City Directory dated 1986, 1991, 1996, 2006, and 2011 EDR Inquiry Number 3282173.6, dated March 26, 2012.

Based on historical sources reviewed, the Subject Property was undeveloped until 1983 when it was developed as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (Apollo) purchased the property in 1995 and continues to perform contract aerosol packaging at the facility.

#### USGS Map Review

The reviewed topographic maps show the Site as undeveloped woodland until as recently as 1982.

#### Aerial Photo Review

The reviewed aerial photographs from 1938 to 1972 indicate that the Site was undeveloped woodland. The residential development to the east of the Site along Roberts Circle is present in 1960. The 1988 to 1993 aerial shows the plant facility as it was under Accutech ownership. Industrial facilities along Brookhollow Industrial are present in the 1988 aerial. The 2005 aerial shows the Site as it is today with AMC additions to the southern portion of the plant building from the 1993 aerial.

#### Sanborn Maps

Sanborn Maps were not available for the Site area.

## City Directories

The 1986 city directory lists the Site address as being occupied by Arrow Pac Aerosol pkg and Bay Kem Enterprise Inc carpet adhesives. In 1991 the Site is listed as Arrow Pac Aerosol pkg and Acvutech Industries Inc carpet adhesives. The 1996 directory lists the Site as Accutech Industries Inc aerosol packaging. The 2006 to 2011 directories list the Site as AMC INTL mfrs.

## Previous Reports

AMEC reviewed numerous documents pertaining to environmental conditions of the Subject Property. More specifically, Compliance Status Reports and Semi-Annual Monitoring Reports conducted by Arcadis and Dobbs. Environmental assessment/remediation activities were initiated at the facility in 1995 to address soil and groundwater impacts from spills at a former tank farm and septic system. In June 2001, a fire in the batch room on the eastern portion of the facility resulted in the release of VOCs to the environment. The facility was subsequently listed on the Georgia Hazardous Site Inventory (HSI), and additional assessment/remediation activities have continued under the regulatory guidance of the Georgia Hazardous Site Response Act (HSRA).

## 6.2 HISTORICAL ADJOINING PROPERTIES LAND USE INFORMATION

AMEC reviewed information similar to that listed above in order to ascertain the historical uses of the adjacent properties and to assess possible activities of potential environmental concern from the immediately adjoining properties that might impact the Subject Property.

Below is a summary of the interpreted past adjoining properties' land use based on the historical documents reviewed.

Reviewed historical information indicates that the Brookhollow Industrial area was largely undeveloped until approximately the mid 1980s. In 1988 the majority of the area is developed with industrial facilities north and west of the Subject Property. The residential area to the east of the Site was developed after 1950.

## 7.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Subject Property. In accordance with the ASTM standard, AMEC accessed readily ascertainable records from government, public and private sources.

### 7.1 ENVIRONMENTAL DATABASE RECORDS

In accordance with the ASTM standard, AMEC reviewed select regulatory lists published by state and federal regulatory agencies. The listings were supplied by Environmental Data Resources, Inc. (EDR), and the listings were searched for facilities or incidents at distances in general accordance with ASTM guidelines. For this report, AMEC requested that EDR search in accordance with the ASTM suggested search distances. Please note that regulatory listings are limited and include only those facilities that are known to the regulatory agencies at the time of publication to be contaminated, in the process of evaluation for potential contamination, or having complied with agency requested submittals (i.e., underground storage tank registration; hazardous material usage, storage, and disposal, etc.). EDR provided ASTM Standard suggested lists and where applicable, some Non-ASTM Standard lists. AMEC reviewed Non-ASTM Standard lists only if listed facilities were also on ASTM Standard lists or if the Non-ASTM Standard facility was located on the Subject Property or in a location likely to affect the Subject Property. Only those Non-ASTM Standard sites interpreted to potentially impact the Subject Property are discussed within this report.

A copy of the regulatory data obtained and reviewed for this project, and plotted site maps of the regulated facilities prepared by EDR are provided in Appendix C. The release date from the Federal, State, or local entity for each reviewed list is also included with the EDR document. The EDR document is subject to their limitations and disclaimers.

AMEC reviewed the EDR-provided information and summarized our findings and opinions in the following paragraphs.

#### **SITE ADDRESS**

The Site address of 310 Brookhollow Industrial Blvd. appears on several state and federal databases.

The Site is listed as a State Hazardous Waste Site (**SHWS**) with numerous VOCs detected in soil and groundwater. The SHWS status is listed as cleanup activities are being conducted for source materials, soil, and groundwater.

The Site is listed as Accutech Industries under the Aboveground Storage Tank (**AST**) database which is a listing of LP gas tank site locations.

The Toxic Chemical Release Inventory System (**TRIS**) database indicates that the Subject Property (AMC International) uses toxic chemicals and has notified EPA under SARA Title III, Section 313. Chemicals reported are cyclohexane, dichloromethane, methanol, n-hexane, tetrachloroethylene, toluene, trichloroethylene, and xylene (mixed isomers).

310 Brookhollow Ind. Blvd. SE is listed under the Hazardous Materials Information Reporting System (**HMIRS**) database that tracks hazardous material spill incidents reported to the

department of transportation (DOT). On September 4, 2007 it was reported that a Univar USA tanker truck was delivering trichloroethylene (TCE) to the plant when a transfer hose burst spilling 20 gallons of TCE. The cleanup status is listed as false (no).

The Federal Comprehensive Environmental Response, Compensation, and Liability Information System (**CERCLIS**) lists the Site as AMC International Fire and having an emergency removal only in June 2001, and is not listed on the National Priorities List (NPL).

The Site is also listed as a Resource Conservation and Recovery Act (**RCRA**) Conditionally Exempt Small Quantity Generator (**CESQG**). RCRA-CESQGs generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. The hazardous waste summary lists spent halogenated and non-halogenated solvents as the waste codes. Several regulation violations are reported for the facility prior to 1996.

The Facility Index System/Facility Registry System (**FINDS**) contains both facility information and 'pointers' to other sources that contain more detail. The Site is listed in the FINDS database due to its TRIS, RCRA, and CERCLIS listings.

### **SURROUNDING PROPERTIES**

Only one facility was listed in the EDR search database. IMACC Corporation is reportedly ¼-mile north of the Site and is listed as a RCRA-CESQG with no violations. The facility is topographically lower and not hydraulically connected to the Site and does not pose a likely environmental threat to the Site.

### **ORPHAN or UNMAPPABLE SITES**

The Orphan Summary List consists of sites with poor address quality. However, if street addresses are available, these site locations are checked against the known vicinity of the subject Site to evaluate if they are located within the selected ASTM search distance. Three orphan sites were found to be located near the Subject Property.

Polystar is listed at 206 Brookhollow Industrial Blvd. as a RCRA small quantity generator (**RCRS-SQG**). Small quantity generators generate between 100 kg and 1,000 kg of hazardous waste per month. The facility is approximately 900 feet northwest of the Site, topographically lower, and not hydraulically connected to the Site. Polystar does not pose a likely environmental threat to the Site.

Sanco is listed at 207 Brookhollow Road as a **RCRA-SQG**. The facility is approximately 600 feet northwest of the Site, topographically lower, and not hydraulically connected to the Site. Sanco does not pose a likely environmental threat to the Site.

Metro Laminators is listed at 207 Brookhollow Road as an Underground Storage Tank (**UST**), and Leaking Underground Storage Tank (**LUST**) facility. The facility reportedly had two USTs removed from the ground, and a LUST status of No Further Action (NFA) in 1996. The facility is approximately ¼-mile northwest of the Site, topographically lower, and not hydraulically connected to the Site. Metro Laminators does not pose a likely environmental threat to the Site.

## 8.0 FINDINGS AND OPINIONS

### ***Property and Area***

The Site is located at 310 Brookhollow Industrial Blvd., Dalton, Whitfield County, Georgia. The Subject Property is bounded on the north by a warehouse facility and undeveloped woodland, to the south by formerly undeveloped land owned by Brookhollow South Ventures, to the east by undeveloped woodland and residential properties, and to the west by undeveloped woodland.

According to the Whitfield County Assessor's Office, the Site has been assigned the Assessor's Parcel Number of 13-025-01-007 with the adjacent parcel 13-025-01-002 to the south also listed as being owned by AMC. The Site is a 4.58 rectangular parcel developed as an industrial manufacturing facility with an 8.97 acre mostly undeveloped parcel to the south (Figures 1 and 2). Development is currently underway on the southwestern portion of the Site for a 50,000 square foot warehouse expansion. The Site building was reportedly constructed in 1983 as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (subsidiary of Apollo Industries) purchased the property in 1995. Environmental assessment/remediation activities were initiated at the facility in 1995 to address soil and groundwater impacts from spills at a former tank farm and septic system. In June 2001, a fire in the batch room on the eastern portion of the facility resulted in the release of VOCs to the environment. The facility was subsequently listed on the Georgia Hazardous Site Inventory (HSI), and additional assessment/remediation activities have continued under the regulatory guidance of the Georgia Hazardous Site Response Act (HSRA).

### ***Historical Review***

Based on historical sources reviewed, the Subject Property was undeveloped until 1983 when it was developed as a yarn storage facility. Accutech Industries purchased the facility in 1986 for aerosol packaging and expanded the building from approximately 10,000 square feet to approximately 58,000 square feet in two stages. AMC International (Apollo) purchased the property in 1995 and continues to perform contract aerosol packaging at the facility.

### ***Regulatory Review***

The Subject Property is listed under several state and local databases, and has known releases of VOCs to the environment. Corrective action for groundwater contamination is currently ongoing at the Site.

### ***On-site Conditions***

AMEC identified on-site HRECs relative to the Subject Property.

- The former Accutech tank farm leak, release of VOCs to the environment, and septic system impacts are currently being addressed by a groundwater recovery and treatment system on the northwest portion of the Site.
- The 2001 batch room fire and release of VOCs to the environment is currently being addressed by a groundwater recovery and treatment system on the southeast portion of the Site.

AMEC also identified on-site (RECs relative to the Subject Property).

- Stained concrete was observed in and around the batch room at the Site. Minor chemical spills have likely occurred in the batch room. A fire reportedly occurred in 2001 in the batch room resulting in a release of chemicals (VOCs) to soil and groundwater in the area. Soil beneath the concrete of the batch room was not sampled for the presence of VOCs during remedial activities and could potentially be a source of groundwater contamination in the area. Probable chemical spills and staining in the batch room and the unknown impacts to soil beneath the batch room constitute a REC at the Site.

### **Off-site Conditions**

AMEC did not identify off-Site recognized environmental conditions that would appear to impact the Site; however, available documentation indicates that the Site has groundwater impacts extending offsite.

## 9.0 CONCLUSIONS

AMEC has performed a Phase I ESA in general conformance with the scope and limitations of ASTM E 1527-2005 of the Subject Property. No exceptions to, or deletions from, the ASTM E 1527-2005 were identified. RECs were identified in relation to the current Subject Property and building operations. Remedial activities have been ongoing at the Site since 2001 and further environmental assessment is planned in the future. In order to address the RECs identified at the Subject Property, Apollo is currently engaged in discussion with the GA EPD regarding participation in the Georgia BF Program and/or the Georgia VRP.

- AMEC recommends continued compliance with Georgia Environmental Protection Division (GAEPD) requirements regarding the ongoing remediation of historical soil and groundwater impacts at the Site.
- AMEC recommends follow up of the batching room REC.
- AMEC recommends that AMC assess the nature of the 55-gallon drum located in the woods below the southeastern treatment system and dispose of accordingly.
- AMEC observed water in the protective vault at recovery well RW-4 on Peeples property east of the Site. AMEC recommends that AMC assess the condition of the recovery well to determine if it is operating correctly.
- Based on Apollo's expressed desire to divest the Site, AMEC recommends the development of a conceptual regulatory strategy that addresses the RECs through the Georgia BF and/or the VRP.

## 10.0 DEVIATIONS

No significant deletions or deviations were made to the scope of services suggested within ASTM E 1527-05 which are likely to affect our professional opinion.

## 11.0 RESTRICTIONS

This Phase I Environmental Site Assessment was completed in material compliance with the scope and limitations of ASTM E 1527-05, except for the exceptions or deletions set forth below, if any. As stated in Section 1.6 of ASTM E 1527-05, "not all aspects of this practice [ASTM E1527-05] may be applicable in all circumstances. This ASTM standard is not intended to represent or replace the standard of care by which the adequacy of a given professional service must be judged..." Also, as stated in Section 4.5.1 of ASTM E 1527-05, "No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost."

Third party reliance on this document is prohibited without the express written consent of AMEC. This report may not be valid at later dates, and AMEC takes no responsibility to update or revise this report. Notwithstanding the provisions of ASTM E 1527-05, including section 4.7, Prior Assessment Usage, any entity that uses this report for any subsequent assessment does so at its own risk, unless otherwise agreed in a written agreement with AMEC that is acceptable to AMEC in its sole discretion.

In preparing this report, the environmental professional has relied on information provided by client and others as provided for in ASTM E 1527-05. As stated in Section 7.5.2.1 of ASTM E 1527-05, "An environmental professional is not required to verify independently the information provided but may rely on information provided unless he or she has actual knowledge that certain information is incorrect or unless it is obvious that certain information is incorrect based on other information obtained in the Phase I Environmental Site Assessment or otherwise actually known to the environmental professional."

By issuing this report, AMEC does not represent or warrant that client or any other entity will qualify for any legal defense to any liability under the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. §9601 et seq.) or under any other law or regulation pertaining to the property.

## **12.0 ADDITIONAL SERVICES**

No additional services were provided as part of the Phase I Environmental Site Assessment, at this time.

### 13.0 REFERENCES

AMEC reviewed the following information in regard to the hydrogeology of the site and surrounding area:

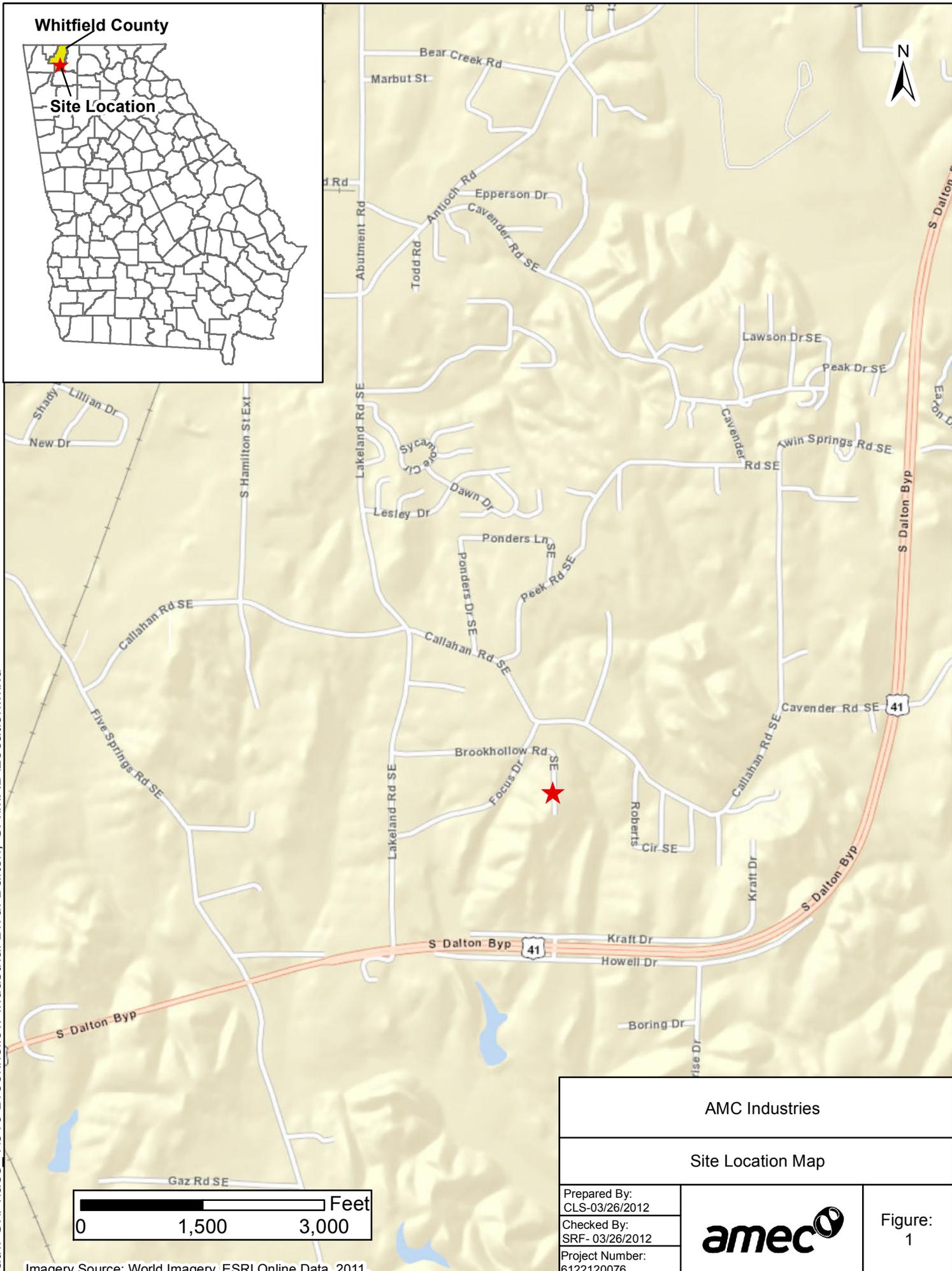
- *Geology and ground-water resources of Gordon, Whitfield, and Murray Counties, Georgia, C.W. Cressler, dated 1974, Georgia Geologic Survey Information Circular 47, 56 p;*
- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 30-minute series (topographic) map, dated 1897;*
- *U.S. Geological Survey (USGS), Calhoun, Georgia Quadrangle, 15-minute series (topographic) map, dated 1951;*
- *U.S. Geological Survey (USGS), Dalton, Georgia Quadrangle, 7.5-minute series (topographic) map, dated 1972, photorevised 1982;*
- *Revised and Combined Compliance Status Report for AMC International, Inc., Dobbs Environmental, dated October 2006;*
- The EDR Aerial Photo Decade Package, with portions of aerial photographs dated 1938, 1950, 1960, 1972, 1978, 1988, 1993, 2005, and 2006 EDR Inquiry Number 3282173.5, dated March 23, 2012;
- The EDR Certified Sanborn Map Report, with portions of Sanborn maps dated 1950, and 1978 EDR Inquiry Number 3225341.3, dated December 15, 2011;
- The EDR City Directory Image Report, with portions of Polk's City Directory dated 1986, 1991, 1996, 2006, and 2011 EDR Inquiry Number 3282173.6, dated March 26, 2012.

## **APPENDIX A: FIGURES**

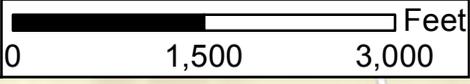
Whitfield County



Site Location



Path: G:\Phase\_1\310 Brookhollow Industrial Blvd. Dalton, GAIMXD\Location.mxd



Imagery Source: World Imagery, ESRI Online Data, 2011.

AMC Industries	
Site Location Map	
Prepared By: CLS-03/26/2012	
Checked By: SRF- 03/26/2012	
Project Number: 6122120076	
Figure: 1	



Adjacent Warehouse

Groundwater Remediation System

Propane AST Farm

Main Office

Chemical AST Farm

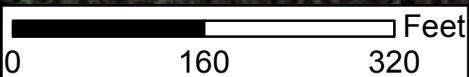
Warehouse Storage

Groundwater Remediation System

Future Warehouse Expansion Area

Batch Room

Path: G:\Phase 1\310 Brookhollow Industrial Blvd. Dalton, GAIMXD\Parcel.mxd



Imagery Source: World Imagery, ESRI Online Data, 2011.

AMC Industries

Site Plan Map

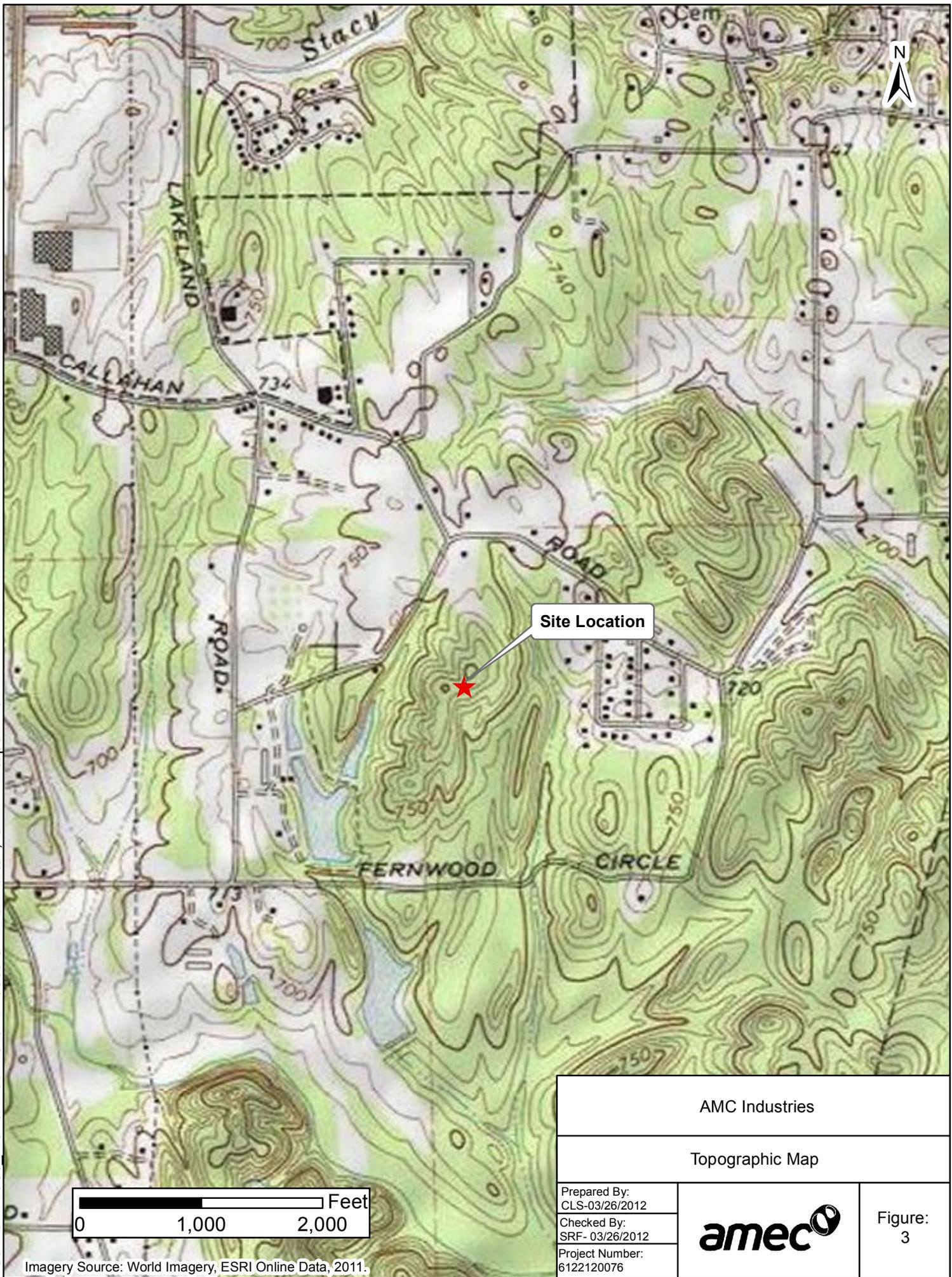
Prepared By:  
CLS-03/26/2012

Checked By:  
SRF-03/26/2012

Project Number:  
6122120076



Figure:  
2



AMC Industries	
Topographic Map	
Prepared By: CLS-03/26/2012	
Checked By: SRF-03/26/2012	
Project Number: 6122120076	
Figure: 3	

## **APPENDIX B: PHOTOGRAPHS**

**Photograph No. 1:** Dalton Utilities power pole with transformers near NE corner of Site.



**Photograph No. 2:** Second power pole with transformers east of the Site.



**Photograph No. 3:** View looking west at plant entrance and offices.



**Photograph No. 4:** View looking SW at the plant and tank farm.



**Photograph No. 5:** View of the SE corner of the plant with ASTs.



**Photograph No. 6:** View of the wooded area east of the plant.



**Photograph No. 7:** View of the AST tank farm and containment area.



**Photograph No. 8:** Storm drain north of the tank farm.



**Photograph No. 9:** Newly renovated conference room in the main office.



**Photograph No. 10:** Newly graded area SW of the plant building for new expansion.



**Photograph No. 11:** Warehouse expansion area looking south.



**Photograph No. 12:** Expansion area looking SE at a new retention pond and access road owned by others.



**Photograph No. 13:** Scrap metal and a 55-gal drum on the western property line.



**Photograph No. 14:** Storage area at the SW corner of the plant.



**Photograph No. 15:** Propane ASTs on the west side of the plant.



**Photograph No. 16:** Wooded area and pond west of the Site.



**Photograph No. 17:** Groundwater treatment system on the NW corner of the Site from previous owner (Accutech) tank spill.



**Photograph No. 18:** Groundwater treatment system on the SE corner of the plant from the 2001 tank farm fire.



**Photograph No. 19:** Groundwater recovery well 4 in the woods east of the plant.



**Photograph No. 20:** Water inside RW-4 cover from probable leaking recovery pump line.



**Photograph No. 21:** Groundwater recovery system piping south of the plant with a monitor well stickup and 55-gal drum labeled Investigative Derived Waste.



**Photograph No. 22:** 55-gal drum with an old IDW label probably from Arcadis activities.



**Photograph No. 23:** New retention pond south of the Site.



**Photograph No. 24:** View to the north from the bypass area looking at the construction for a new access road.



**Photograph No. 25:** Stormwater improvements along the new access road south of the Site.



**Photograph No. 26:** Elevated concrete pad undergoing reconstruction at the NW corner of the plant.



**Photograph No. 27:** View to the north at a warehouse north of the Site.



**Photograph No. 28:** Shaw plant #23 NW of the Site.



**Photograph No. 29:** Creek approximately ¼-mile south of the Site at Kraft drive looking north. Debris, used oil containers, and rusted drums from potential off-site properties have washed down here.



**Photograph No. 30:** Retention pond at Dye Systems Inc. approximately 1,000-feet north of the Site which is the headwater of the stream running south.



**Photograph No. 31:** Industrial facility approximately 800-feet north of the Site that is also near the headwaters of the creek running south.



**Photograph No. 32:** Columbine Carpet building approximately 500-feet north of the Site and situated along the drainage basin to the creek running south.



**Photograph No. 33:** Sanco approximately 700-feet NW of the Site and listed as a small quantity generator of hazardous waste.



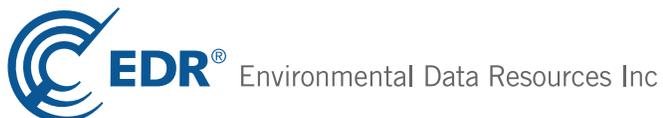
## **APPENDIX C: REGULATORY LIST**

**AMC International Inc**

310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

Inquiry Number: 3282173.2s  
March 21, 2012

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

310 BROOKHOLLOW INDUSTRIAL BOULEVARD SE  
DALTON, GA 30721

#### COORDINATES

Latitude (North): 34.7074000 - 34° 42' 26.64"  
Longitude (West): 84.9550000 - 84° 57' 18.00"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 687289.9  
UTM Y (Meters): 3842302.5  
Elevation: 790 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34084-F8 DALTON SOUTH, GA  
Most Recent Revision: 1982

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
AMC INTERNATIONAL, INC. 310 BROOKHOLLOW INDUSTRIAL BOULEVARD DALTON, GA 30721	SHWS	N/A
ACUTECH INDUSTRIES, INC. 310 BROOKHOLLOW INDUSTRIAL BLVD. DALTON, GA 30721	AST	N/A
AMC INTERNATIONAL 310 BROOKHOLLOW IND BLVD DALTON, GA 30721	TRIS	30720CTCHN31
310 BROOKHOLLOW IND BLVD SE 310 BROOKHOLLOW IND BLVD SE DALTON, GA	HMIRS	N/A

# EXECUTIVE SUMMARY

AMC INTERNATIONAL INC  
310 BROOK HOLLOW IND BLVD  
DALTON, GA 30721

CERCLIS  
RCRA-CESQG  
FINDS

GAD981281231

## **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

## EXECUTIVE SUMMARY

### **State- and tribal - equivalent CERCLIS**

GA NON-HSI..... Non-Hazardous Site Inventory

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF..... Solid Waste Disposal Facilities

### **State and tribal leaking storage tank lists**

LUST..... List of Leaking Underground Storage Tanks  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

UST..... Underground Storage Tank Database  
INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### **State and tribal institutional control / engineering control registries**

INST CONTROL..... Public Record List  
AUL..... Uniform Environmental Covenants

### **State and tribal voluntary cleanup sites**

INDIAN VCP..... Voluntary Cleanup Priority Listing  
VIC..... Voluntary Cleanup Program site

### **State and tribal Brownfields sites**

BROWNFIELDS..... Brownfields Public Record List

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
HIST LF..... Historical Landfills  
SWRCY..... Recycling Center Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs  
DEL SHWS..... Delisted Hazardous Site Inventory Listing  
US HIST CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

## EXECUTIVE SUMMARY

LUCIS..... Land Use Control Information System

### **Records of Emergency Release Reports**

SPILLS..... Spills Information

### **Other Ascertainable Records**

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
NPDES..... NPDES Wastewater Permit List  
DRYCLEANERS..... Drycleaner Database  
AIRS..... Permitted Facility and Emissions Listing  
TIER 2..... Tier 2 Data Listing  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
PCB TRANSFORMER..... PCB Transformer Registration Database  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
FINANCIAL ASSURANCE..... Financial Assurance Information Listing  
COAL ASH..... Coal Ash Disposal Site Listing  
COAL ASH DOE..... Sleam-Electric Plan Operation Data

### **EDR PROPRIETARY RECORDS**

#### ***EDR Proprietary Records***

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/10/2011 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

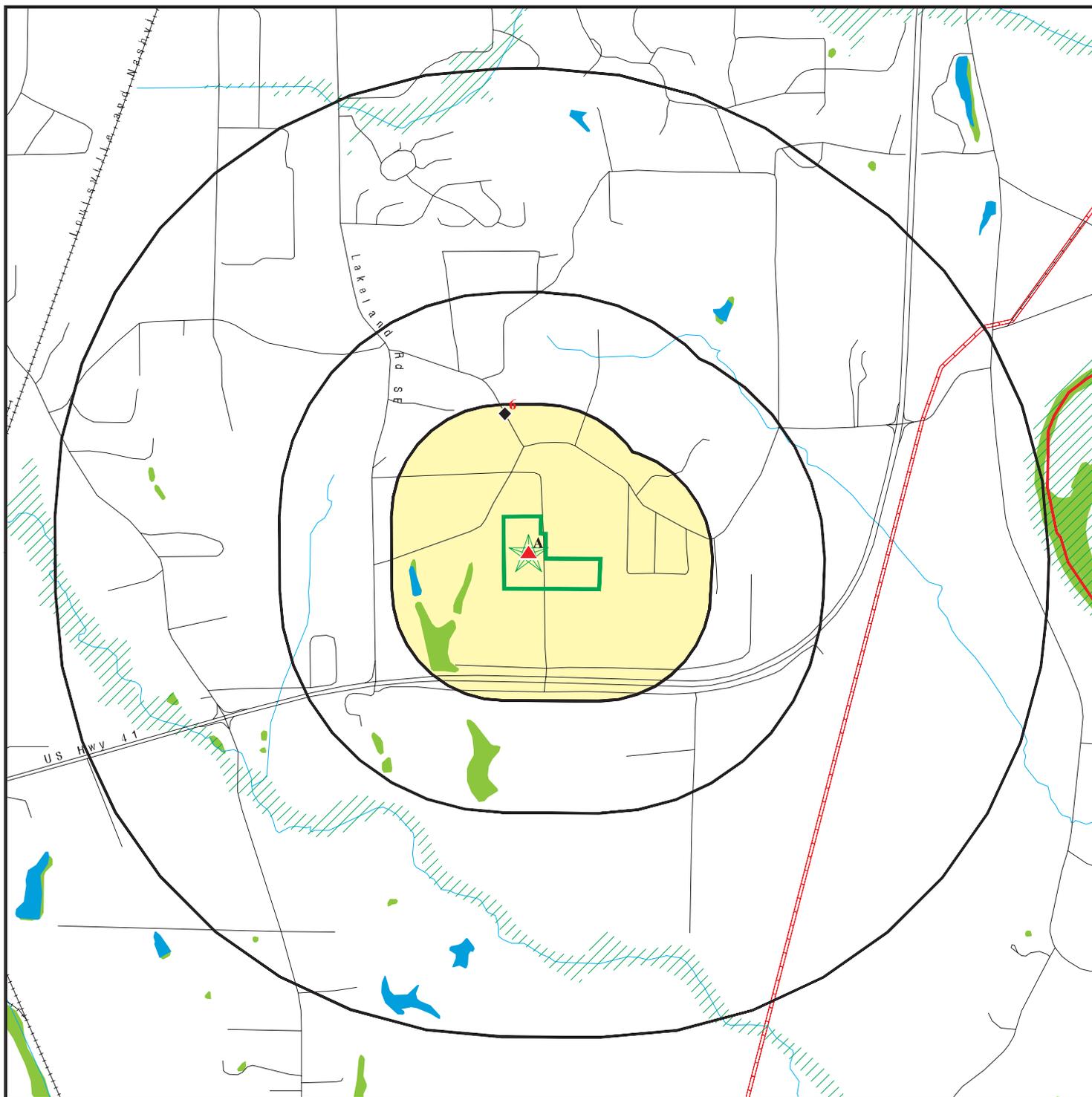
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>IMACC CORPORATION</i></b>	<b><i>396 CALLAHAN RD</i></b>	<b><i>N 1/8 - 1/4 (0.230 mi.)</i></b>	<b><i>6</i></b>	<b><i>14</i></b>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 16 records.

<u>Site Name</u>	<u>Database(s)</u>
METRO LAMINATORS	LUST, UST, FINANCIAL ASSURANCE
PANTRY #3502 DBA GOLDEN GALLON	LUST, UST, FINANCIAL ASSURANCE
HELTON PROPERTY LAB PACKS SPILL	CERC-NFRAP
THOMAS HOLCOMB SOIL WASTE PIT	SWF/LF
WILLIAM FIELDS AIRPORT ROAD INERT	SWF/LF
CITY OF DALTON BROOKER ROAD INERT	SWF/LF
COOK & INGLE CO.,INC.	SWF/LF
DELILIAH KING SOIL WASTE PIT	SWF/LF
CHARLES BAKER SOIL WASTE PIT	SWF/LF
LARRY HARDIN SOIL WASTE PIT	SWF/LF
GREEN CONSTRUCTION COMPANY-GAYLORD	SWF/LF
Q & A REALTY SOIL WASTE PIT	SWF/LF
PANTRY #3502	AST
POLYSTAR	RCRA-SQG
SANCO INC	RCRA-SQG
INTERNATIONAL VINYL COMPANY	FINDS

# OVERVIEW MAP - 3282173.2s



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  County Boundary
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

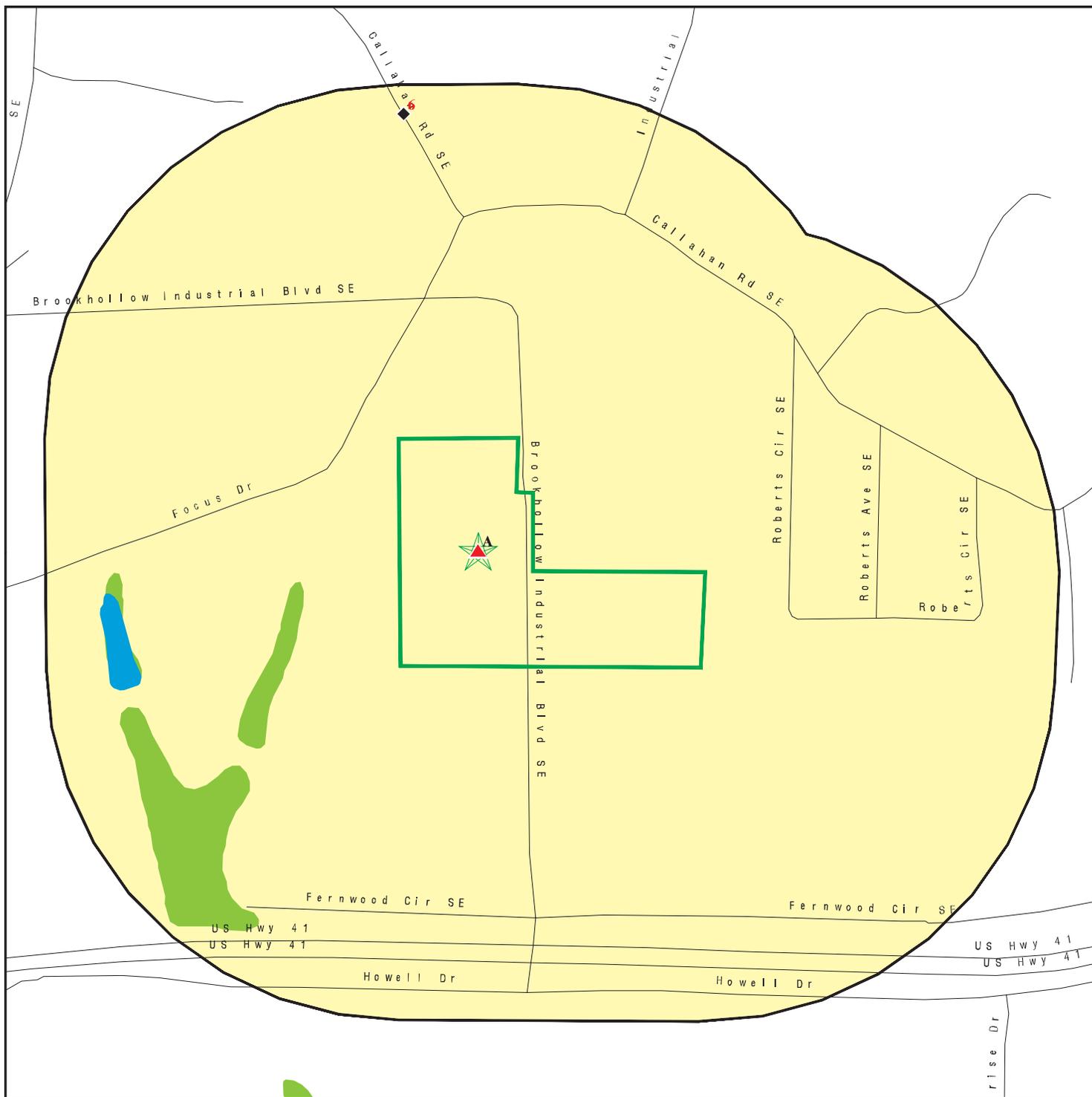


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: AMC International Inc  
 ADDRESS: 310 Brookhollow Industrial Boulevard SE  
 Dalton GA 30721  
 LAT/LONG: 34.7074 / 84.955

CLIENT: AMEC E&I, Inc.  
 CONTACT: Jeff Moore  
 INQUIRY #: 3282173.2s  
 DATE: March 21, 2012 1:59 pm

# DETAIL MAP - 3282173.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: AMC International Inc  
 ADDRESS: 310 Brookhollow Industrial Boulevard SE  
 Dalton GA 30721  
 LAT/LONG: 34.7074 / 84.955

CLIENT: AMEC E&I, Inc.  
 CONTACT: Jeff Moore  
 INQUIRY #: 3282173.2s  
 DATE: March 21, 2012 1:59 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500	1	0	0	0	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250	1	0	1	NR	NR	NR	2
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000	1	0	0	0	0	NR	1
GA NON-HSI	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250	1	0	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VIC	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP	1	NR	NR	NR	NR	NR	1
SPILLS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP	1	NR	NR	NR	NR	NR	1
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
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#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1** **AMC INTERNATIONAL, INC.**  
**Target** **310 BROOKHOLLOW INDUSTRIAL BOULEVARD**  
**Property** **DALTON, GA 30721**

**SHWS** **S102444451**  
**N/A**

**Site 1 of 5 in cluster A**

**Actual:**  
**790 ft.**

SHWS:

FACID:

Regulated Substances(RS):

10405

1,1,1-Trichloroethane-GW/Soil, 1,1,2-Trichloroethane-GW/Soil,  
1,1-Dichloroethane-Soil, 1,1-Dichloroethene-GW/Soil,  
1,2-Dichloroethane-GW/Soil, Acetone-Soil, Carbon  
tetrachloride-GW/Soil, Dichlorobromomethane-GW,  
Dichloromethane-GW/Soil, Ethylbenzene-Soil, Methyl chloride-GW, Methyl  
ethyl ketone-Soil, Methyl isobutyl ketone-GW/Soil, Styrene-Soil,  
Tetrachloroethene-GW/Soil, Trichloroethene-GW/Soil, Xylenes-Soil

RS Released/Threats to Health Env:

This site has a known release of Carbon tetrachloride in groundwater  
at levels exceeding the reportable quantity. No human exposure via  
drinking water is suspected from this release. The nearest drinking  
water well is less than 0.5 miles from the area affected by the  
release.

Status of Cleanup Activities:

Cleanup activities are being conducted for source materials, soil, and  
groundwater.

GA EPD Dir Determination Re Correction Action: The Director has determined that this site requires corrective action.

Owner Name:

AMC International, Inc.

Owner Address:

1850 South Cobb Industrial Boulevard

Owner City,St,Zip:

Smyrna, GA 30082

Last Known Property Owner NAME B:

Not reported

Last Known Property Owner ADDRESS B:

Not reported

Last Known Property Owner CITY B:

Not reported

Last Known Property Owner STATE B:

Not reported

Last Known Property Owner ZIP B:

Not reported

Last Known Property Owner NAME C:

Not reported

Last Known Property Owner ADDRESS C:

Not reported

Last Known Property Owner CITY C:

Not reported

Last Known Property Owner STATE C:

Not reported

Last Known Property Owner ZIP C:

Not reported

Latitude:

34 42 ' 28 "N

Longitude:

84 57 ' 18 "W

**A2** **ACUTECH INDUSTRIES, INC.**  
**Target** **310 BROOKHOLLOW INDUSTRIAL BLVD.**  
**Property** **DALTON, GA 30721**

**AST** **A100335835**  
**N/A**

**Site 2 of 5 in cluster A**

**Actual:**  
**790 ft.**

AST:

Owner Name:

Mike Whitaker

Owner Address:

Rt 7

Owner City/State/Zip:

Chatsworth GA 30705

Number Of Tanks:

11

Tank Capacity:

0

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
--	------	-------------	--------------------------------

<b>A3</b> Target Property	<b>AMC INTERNATIONAL</b> <b>310 BROOKHOLLOW IND BLVD</b> <b>DALTON, GA 30721</b>	<b>TRIS</b>	<b>1009396659</b> <b>30720CTCHN31</b>
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Site 3 of 5 in cluster A

**Actual:** 790 ft.      TRIS:

[Click this hyperlink](#) while viewing on your computer to access 8 additional US\_TRIS: record(s) in the EDR Site Report.

<b>A4</b> Target Property	<b>310 BROOKHOLLOW IND BLVD SE</b> <b>310 BROOKHOLLOW IND BLVD SE</b> <b>DALTON, GA</b>	<b>HMIRS</b>	<b>2008437969</b> <b>N/A</b>
---------------------------------	---	--------------	---------------------------------

Site 4 of 5 in cluster A

**Actual:** 790 ft.      [Click this hyperlink](#) while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

<b>A5</b> Target Property	<b>AMC INTERNATIONAL INC</b> <b>310 BROOK HOLLOW IND BLVD</b> <b>DALTON, GA 30721</b>	<b>CERCLIS</b> <b>RCRA-CESQG</b> <b>FINDS</b>	<b>1000688191</b> <b>GAD981281231</b>
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Site 5 of 5 in cluster A

**Actual:** 790 ft.      CERCLIS:

Site ID:	0407344
EPA ID:	GAD981281231
Facility County:	WHITFIELD
Short Name:	AMC INTERNATIONAL FIRE
Congressional District:	Not reported
IFMS ID:	A45D
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	04
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	20020724
Site Fips Code:	13313
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

CERCLIS Site Contact Name(s):

Contact ID: 4000275.00000  
Contact Name: William Joyner  
Contact Tel: (404) 562-8795  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: joyner.william@epa.gov

Contact ID: 13002428.00000  
Contact Name: Donna Seadler  
Contact Tel: (404) 562-8870  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: seadler.donna@epa.gov

Contact ID: 4272610.00000  
Contact Name: Carolyn Callihan  
Contact Tel: (404) 562-8913  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Carolyn Callihan/R4/USEPA/US,

Alias Comments: Not reported  
Site Description: amc

CERCLIS Assessment History:

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL  
Date Started: 06/25/2001  
Date Completed: 06/27/2001  
Priority Level: Cleaned up  
Operable Unit: SITEWIDE  
Primary Responsibility: Responsible Party  
Planning Status: Not reported  
Urgency Indicator: Emergency  
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

RCRA-CESQG:

Date form received by agency: 02/18/1998  
Facility name: AMC INTERNATIONAL INC  
Facility address: 310 BROOK HOLLOW IND BLVD  
DALTON, GA 307213275  
EPA ID: GAD981281231  
Mailing address: BROOK HOLLOW IND BLVD  
DALTON, GA 307213275  
Contact: MIKE MAVRIDIS  
Contact address: 310 BROOK HOLLOW IND BLVD  
DALTON, GA 307213275  
Contact country: US  
Contact telephone: (706) 226-1662  
Contact email: Not reported  
EPA Region: 04  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: AMC INTERNATIONAL  
Owner/operator address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
Owner/operator country: Not reported  
Owner/operator telephone: (706) 226-1662  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 04/01/1996  
Facility name: AMC INTERNATIONAL INC  
Classification: Large Quantity Generator  
  
Date form received by agency: 03/15/1994  
Facility name: AMC INTERNATIONAL INC  
Site name: ACUTECH INDUSTRIES  
Classification: Large Quantity Generator  
  
Date form received by agency: 04/08/1993  
Facility name: AMC INTERNATIONAL INC  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

Hazardous Waste Summary:

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SR - 265.173  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/22/1995  
Date achieved compliance: 12/22/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/22/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

Paid penalty amount: Not reported

Regulation violated: SR - 262.11  
Area of violation: Generators - General  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.12  
Area of violation: Generators - General  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34(c)(1)  
Area of violation: Generators - Pre-transport  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 265.16  
Area of violation: Generators - Pre-transport  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

Regulation violated: SR - 265.174  
Area of violation: Generators - Pre-transport  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 265.51  
Area of violation: Generators - Pre-transport  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34  
Area of violation: Generators - Pre-transport  
Date violation determined: 05/24/1993  
Date achieved compliance: 09/15/1993  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/24/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 05/08/1996  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/21/1995  
Evaluation: FOLLOW-UP INSPECTION  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/22/1995  
Evaluation lead agency: State

Evaluation date: 07/27/1995  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMC INTERNATIONAL INC (Continued)**

**1000688191**

Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 04/08/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 09/15/1993  
Evaluation lead agency: State

Evaluation date: 04/08/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 09/15/1993  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110000359031

**Environmental Interest/Information System**

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

**6**  
**North**  
**1/8-1/4**  
**0.230 mi.**  
**1212 ft.**

**IMACC CORPORATION**  
**396 CALLAHAN RD**  
**DALTON, GA 30721**

**RCRA-CESQG** **1001227502**  
**FINDS** **GAR000014878**

**Relative:**  
**Lower**

RCRA-CESQG:  
Date form received by agency: 05/04/2010  
Facility name: IMACC CORPORATION  
Facility address: 2303 DALTON INDUSTRIAL COURT  
DALTON, GA 30721

**Actual:**  
**753 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IMACC CORPORATION (Continued)**

**1001227502**

EPA ID: GAR000014878  
Mailing address: DALTON INDUSTRIAL COURT  
DALTON, GA 30721  
Contact: TISHIA KING  
Contact address: DALTON INDUSTRIAL COURT  
DALTON, GA 30721  
Contact country: US  
Contact telephone: (706) 483-7047  
Contact email: TKING@IMACC-CORP.COM  
EPA Region: 04  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: IMACC CORPORATION  
Owner/operator address: DALTON INDUSTRIAL COURT  
DALTON, GA 30721  
Owner/operator country: US  
Owner/operator telephone: (866) 202-1973  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/11/2007  
Owner/Op end date: Not reported

Owner/operator name: IMACC CORPORATION  
Owner/operator address: DALTON INDUSTRIAL COURT  
DALTON, GA 30721  
Owner/operator country: US  
Owner/operator telephone: (866) 202-1973  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 10/11/2007  
Owner/Op end date: Not reported

Owner/operator name: IMACC CORPORATION  
Owner/operator address: 5801 CHRISTIE AVE #255  
EMERYVILLE, CA 94608  
Owner/operator country: Not reported  
Owner/operator telephone: (510) 652-6847  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IMACC CORPORATION (Continued)**

**1001227502**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Universal Waste Summary:

Waste type: Batteries  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Waste type: Lamps  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Waste type: Pesticides  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Waste type: Thermostats  
Accumulated waste on-site: No  
Generated waste on-site: Not reported

Historical Generators:

Date form received by agency: 10/16/2007  
Facility name: IMACC CORPORATION  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/09/2002  
Facility name: IMACC CORPORATION  
Site name: MYERS CONTAINER CORPORATION  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 06/29/2001  
Facility name: IMACC CORPORATION  
Site name: MYERS CONTAINER CORPORATION  
Classification: Small Quantity Generator

Date form received by agency: 08/21/1998  
Facility name: IMACC CORPORATION  
Site name: MYERS CONTAINER CORPORATION  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IMACC CORPORATION (Continued)**

**1001227502**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

**FINDS:**

Registry ID: 110009359069

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Count: 16 records.

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DALTON	S107667904	THOMAS HOLCOMB SOIL WASTE PIT	GA & MILE 2410		SWF/LF
DALTON	S107668023	WILLIAM FIELDS AIRPORT ROAD INERT	AIRPORT RD		SWF/LF
DALTON	S107665967	CITY OF DALTON BROOKER ROAD INERT	BROOKER RD		SWF/LF
DALTON	1006816799	POLYSTAR	206 BROOKHOLLOW IND BLVD	30721	RCRA-SQG
DALTON	1014916411	SANCO INC	207 BROOKHOLLOW RD SE	30721	RCRA-SQG
DALTON	1006777007	METRO LAMINATORS	203 BROOKHOLLOW RD SE	30721	LUST, UST, FINANCIAL ASSURANCE
DALTON	1012217301	INTERNATIONAL VINYL COMPANY	BYPASS HIGHWAY 41 AT CAVENDER	30721	FINDS
DALTON	S107666056	COOK & INGLE CO.,INC.	CHEROKEE ESTATE RD		SWF/LF
DALTON	S107666129	DELILIAH KING SOIL WASTE PIT	1720 GA		SWF/LF
DALTON	S107665909	CHARLES BAKER SOIL WASTE PIT	1345 GA		SWF/LF
DALTON	S107667279	LARRY HARDIN SOIL WASTE PIT	1375 GA		SWF/LF
DALTON	S107666327	GREEN CONSTRUCTION COMPANY-GAYLORD	GAYLORD CIRCLE OFF WAUGHT ST		SWF/LF
DALTON	1003868971	HELTON PROPERTY LAB PACKS SPILL	OFF HIGHWAY 41	30721	CERC-NFRAP
DALTON	S107667581	Q & A REALTY SOIL WASTE PIT	GA ON NEW HOPE CHURCH RD		SWF/LF
DALTON	A100335871	PANTRY #3502	3608 UNITED STATES HIGHWAY 76	30721	AST
DALTON	U003936558	PANTRY #3502 DBA GOLDEN GALLON	3608 UNITED STATES HIGHWAY 76	30721	LUST, UST, FINANCIAL ASSURANCE

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/07/2011	Source: EPA
Date Data Arrived at EDR: 10/12/2011	Telephone: N/A
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/15/2012
Number of Days to Update: 141	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/07/2011	Source: EPA
Date Data Arrived at EDR: 10/12/2011	Telephone: N/A
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/15/2012
Number of Days to Update: 141	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/07/2011	Source: EPA
Date Data Arrived at EDR: 10/12/2011	Telephone: N/A
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/15/2012
Number of Days to Update: 141	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 02/27/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/13/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 02/27/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 132

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 02/13/2012  
Next Scheduled EDR Contact: 05/28/2012  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/10/2011  
Date Data Arrived at EDR: 01/05/2012  
Date Made Active in Reports: 03/12/2012  
Number of Days to Update: 67

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 01/05/2012  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/10/2011  
Date Data Arrived at EDR: 01/05/2012  
Date Made Active in Reports: 03/12/2012  
Number of Days to Update: 67

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 01/05/2012  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/10/2011  
Date Data Arrived at EDR: 01/05/2012  
Date Made Active in Reports: 03/12/2012  
Number of Days to Update: 67

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 01/05/2012  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/10/2011  
Date Data Arrived at EDR: 01/05/2012  
Date Made Active in Reports: 03/12/2012  
Number of Days to Update: 67

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 01/05/2012  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 03/12/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 03/12/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/04/2011	Telephone: 202-267-2180
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 01/18/2012
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### SHWS: Hazardous Site Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/21/2011	Telephone: 404-657-8600
Date Made Active in Reports: 08/09/2011	Last EDR Contact: 12/27/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Annually

### NON HSI: Non-Hazardous Site Inventory

This list was obtained by EDR in 1998 and contains property listings that have reported contamination of soil or groundwater under the Georgia Hazardous Site Response Act (HSRA). These sites were not placed on the Georgia Priority list (Hazardous Site Inventory or HSI) because their hazard evaluation scores did not exceed the threshold levels established for sites posing an imminent threat to health or the environment. Disclaimer provided by Rindt-McDuff Associates - the database information has been obtained from publicly available sources produced by other entities. While reasonable steps have been taken to insure the accuracy of the data, RMA does not guarantee the accuracy of the data. No claim is made for the actual existence of pollution at any site. This data does not constitute a legal opinion.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2012  
Date Data Arrived at EDR: 01/13/2012  
Date Made Active in Reports: 02/17/2012  
Number of Days to Update: 35

Source: Rindt-McDuff Associates, Inc.  
Telephone: N/A  
Last EDR Contact: 03/16/2012  
Next Scheduled EDR Contact: 06/25/2012  
Data Release Frequency: Annually

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/04/2011  
Date Data Arrived at EDR: 05/11/2011  
Date Made Active in Reports: 06/23/2011  
Number of Days to Update: 43

Source: Department of Natural Resources  
Telephone: 404-362-2696  
Source: Center for GIS, Georgia Institute of Technology  
Telephone: 404-385-0900  
Last EDR Contact: 02/10/2012  
Next Scheduled EDR Contact: 05/21/2012  
Data Release Frequency: Semi-Annually

## **State and tribal leaking storage tank lists**

### LUST: List of Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/30/2011  
Date Data Arrived at EDR: 12/19/2011  
Date Made Active in Reports: 01/30/2012  
Number of Days to Update: 42

Source: Environmental Protection Division  
Telephone: 404-362-2687  
Last EDR Contact: 03/21/2012  
Next Scheduled EDR Contact: 07/02/2012  
Data Release Frequency: Quarterly

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Semi-Annually

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/07/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 34

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Quarterly

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/02/2011  
Date Data Arrived at EDR: 11/04/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 7

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011	Source: EPA Region 1
Date Data Arrived at EDR: 11/01/2011	Telephone: 617-918-1313
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/03/2012
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 01/30/2012
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/01/2011	Source: EPA Region 7
Date Data Arrived at EDR: 11/21/2011	Telephone: 913-551-7003
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/30/2012
Number of Days to Update: 50	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6271
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 01/30/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Quarterly

## **State and tribal registered storage tank lists**

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/14/2010	Source: Environmental Protection Division
Date Data Arrived at EDR: 09/21/2010	Telephone: 404-362-2687
Date Made Active in Reports: 11/29/2010	Last EDR Contact: 03/16/2012
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/02/2012
	Data Release Frequency: Annually

AST: Above Ground Storage Tanks

A listing of LP gas tank site locations.

Date of Government Version: 12/02/2011	Source: Office of Insurance & Safety Fire Commissioner
Date Data Arrived at EDR: 12/02/2011	Telephone: 404-656-5875
Date Made Active in Reports: 12/16/2011	Last EDR Contact: 02/27/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2011  
Date Data Arrived at EDR: 08/26/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 18

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011  
Date Data Arrived at EDR: 05/11/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 34

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Semi-Annually

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Semi-Annually

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011  
Date Data Arrived at EDR: 11/29/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 42

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Quarterly

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011  
Date Data Arrived at EDR: 08/19/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 25

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011  
Date Data Arrived at EDR: 11/01/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 10

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 02/03/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/02/2011  
Date Data Arrived at EDR: 11/04/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 7

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Quarterly

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2011  
Date Data Arrived at EDR: 11/21/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 50

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 01/30/2012  
Next Scheduled EDR Contact: 05/14/2012  
Data Release Frequency: Varies

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 01/16/2012  
Next Scheduled EDR Contact: 04/30/2012  
Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### AUL: Uniform Environmental Covenants

A list of environmental covenants

Date of Government Version: 12/08/2010  
Date Data Arrived at EDR: 01/06/2012  
Date Made Active in Reports: 01/30/2012  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: 404-657-8600  
Last EDR Contact: 02/17/2012  
Next Scheduled EDR Contact: 05/28/2012  
Data Release Frequency: Varies

### INST CONTROL: Public Record List

Sites on the Public Record Listing that have institutional controls or limitations on use are sites with Risk Reduction Standards of 3, 4, and 5.

Date of Government Version: 10/27/2011  
Date Data Arrived at EDR: 11/17/2011  
Date Made Active in Reports: 12/14/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: 404-657-8600  
Last EDR Contact: 02/17/2012  
Next Scheduled EDR Contact: 05/28/2012  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### VCP: Voluntary Cleanup Program site

Georgia's Voluntary Remediation Program Act was created to encourage voluntary investigation and remediation of contaminated properties.

Date of Government Version: 08/24/2011  
Date Data Arrived at EDR: 09/07/2011  
Date Made Active in Reports: 09/21/2011  
Number of Days to Update: 14

Source: DNR  
Telephone: 404-657-8600  
Last EDR Contact: 03/06/2012  
Next Scheduled EDR Contact: 06/18/2012  
Data Release Frequency: Varies

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 08/04/2011  
Date Data Arrived at EDR: 10/04/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 38

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 01/06/2012  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Varies

## **State and tribal Brownfields sites**

### BROWNFIELDS: Brownfields Public Record List

The Brownfields Public Record lists properties where response actions under the Georgia Hazardous Site Reuse and Redevelopment Act are planned, ongoing or completed.

Date of Government Version: 10/27/2011  
Date Data Arrived at EDR: 11/17/2011  
Date Made Active in Reports: 12/14/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: 404-657-8600  
Last EDR Contact: 02/17/2012  
Next Scheduled EDR Contact: 05/28/2012  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011  
Date Data Arrived at EDR: 06/27/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 12/27/2011  
Next Scheduled EDR Contact: 04/09/2012  
Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 12/21/2011  
Next Scheduled EDR Contact: 04/09/2012  
Data Release Frequency: No Update Planned

## SWRCY: Recycling Center Listing

A listing of recycling facility locations.

Date of Government Version: 12/09/2011  
Date Data Arrived at EDR: 12/09/2011  
Date Made Active in Reports: 12/14/2011  
Number of Days to Update: 5

Source: Department of Community Affairs  
Telephone: 404-679-1598  
Last EDR Contact: 02/20/2012  
Next Scheduled EDR Contact: 04/12/2012  
Data Release Frequency: Varies

## HIST LF: Historical Landfills

Landfills that were closed many years ago.

Date of Government Version: 01/15/2003  
Date Data Arrived at EDR: 01/20/2004  
Date Made Active in Reports: 02/06/2004  
Number of Days to Update: 17

Source: Department of Natural Resources  
Telephone: 404-362-2696  
Last EDR Contact: 01/20/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 02/06/2012  
Next Scheduled EDR Contact: 05/21/2012  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 10/07/2011  
Date Data Arrived at EDR: 12/09/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 32

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/06/2012  
Next Scheduled EDR Contact: 06/18/2012  
Data Release Frequency: Quarterly

### DEL SHWS: Delisted Hazardous Site Inventory Listing

A listing of sites delisted from the Hazardous Site Inventory.

Date of Government Version: 07/01/2011  
Date Data Arrived at EDR: 07/21/2011  
Date Made Active in Reports: 08/09/2011  
Number of Days to Update: 19

Source: Department of Natural Resources  
Telephone: 404-657-8636  
Last EDR Contact: 12/27/2011  
Next Scheduled EDR Contact: 04/16/2012  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

## **Local Land Records**

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/16/2011	Telephone: 202-564-6023
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 01/30/2012
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 02/20/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/04/2012
	Data Release Frequency: Varies

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/04/2011	Telephone: 202-366-4555
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 01/03/2012
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Annually

### SPILLS: Spills Information

Oil or Hazardous Material Spills or Releases.

Date of Government Version: 12/31/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 01/03/2012	Telephone: 404-656-6905
Date Made Active in Reports: 01/30/2012	Last EDR Contact: 12/30/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Quarterly

## **Other Ascertainable Records**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/10/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2012	Telephone: (404) 562-8651
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 01/05/2012
Number of Days to Update: 67	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Varies

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/09/2011	Telephone: 202-366-4595
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/07/2012
Number of Days to Update: 94	Next Scheduled EDR Contact: 05/21/2012
	Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/20/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: Semi-Annually

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/12/2012
Number of Days to Update: 112	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/25/2012	Telephone: Varies
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 12/27/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/16/2012
	Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011	Source: EPA
Date Data Arrived at EDR: 12/14/2011	Telephone: 703-416-0223
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 03/14/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 02/28/2012
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Varies

## MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/08/2011	Telephone: 303-231-5959
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 03/07/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/18/2012
	Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 09/01/2011	Telephone: 202-566-0250
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 02/28/2012
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/27/2011
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/09/2012
	Data Release Frequency: Every 4 Years

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/27/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

## FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/27/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 01/30/2012
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 12/21/2011
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/09/2012
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/20/2012
Number of Days to Update: 98	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 03/12/2012
Number of Days to Update: 60	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/12/2012	Telephone: 202-343-9775
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 01/12/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 04/23/2012
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (404) 562-9900
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/13/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/27/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NPDES: NPDES Wastewater Permit List

A listing of NPDES wastewater permits issued by the Watershed Protection Branch.

Date of Government Version: 01/27/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/15/2011	Telephone: 404-362-2680
Date Made Active in Reports: 02/23/2011	Last EDR Contact: 02/15/2012
Number of Days to Update: 8	Next Scheduled EDR Contact: 05/28/2012
	Data Release Frequency: Varies

## DRYCLEANERS: Drycleaner Database

A list of drycleaners in the state. The listing includes drycleaner facilities, that use perchloroethylene, that responded to the Notification of Compliance Status forms. It also includes those businesses that are pick-up stores only and do not conduct dry cleaning on site.

Date of Government Version: 09/18/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/18/2009	Telephone: 404-363-7000
Date Made Active in Reports: 10/09/2009	Last EDR Contact: 02/27/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/28/2012
	Data Release Frequency: Varies

## AIRS: Permitted Facility & Emissions Listing

A listing of permitted Air facilities and emissions data.

Date of Government Version: 12/31/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/29/2011	Telephone: 404-363-7000
Date Made Active in Reports: 08/16/2011	Last EDR Contact: 02/27/2012
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Varies

## TIER 2: Tier 2 Data Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/25/2011	Telephone: 404-656-4852
Date Made Active in Reports: 11/18/2011	Last EDR Contact: 03/05/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 06/18/2012
	Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/20/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/06/2012
Number of Days to Update: 54	Next Scheduled EDR Contact: 05/07/2012
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## FINANCIAL ASSURANCE: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 09/14/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/21/2010	Telephone: 404-362-4892
Date Made Active in Reports: 11/24/2010	Last EDR Contact: 03/16/2012
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/02/2012
	Data Release Frequency: Annually

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/18/2012
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 02/03/2012
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/14/2012
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/16/2012
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash landfills.

Date of Government Version: 05/27/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/31/2011	Telephone: 404-362-2537
Date Made Active in Reports: 07/11/2011	Last EDR Contact: 03/05/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/21/2012
	Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/20/2012
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/30/2012
	Data Release Frequency: N/A

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/20/2012  
Date Data Arrived at EDR: 02/20/2012  
Date Made Active in Reports: 03/15/2012  
Number of Days to Update: 24

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 02/20/2012  
Next Scheduled EDR Contact: 06/04/2012  
Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 07/20/2011  
Date Made Active in Reports: 08/11/2011  
Number of Days to Update: 22

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 01/20/2012  
Next Scheduled EDR Contact: 04/30/2012  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/10/2012  
Date Data Arrived at EDR: 02/09/2012  
Date Made Active in Reports: 03/09/2012  
Number of Days to Update: 29

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 02/09/2012  
Next Scheduled EDR Contact: 05/21/2012  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 01/26/2012  
Date Made Active in Reports: 03/06/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 01/23/2012  
Next Scheduled EDR Contact: 05/07/2012  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 06/24/2011  
Date Made Active in Reports: 06/30/2011  
Number of Days to Update: 6

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/27/2012  
Next Scheduled EDR Contact: 06/11/2012  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 08/19/2011  
Date Made Active in Reports: 09/15/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/19/2012  
Next Scheduled EDR Contact: 07/02/2012  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Child Care Centers

Source: Department of Human Resources  
Telephone: 404-651-5562

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

AMC INTERNATIONAL INC  
310 BROOKHOLLOW INDUSTRIAL BOULEVARD SE  
DALTON, GA 30721

### **TARGET PROPERTY COORDINATES**

Latitude (North):	34.7074 - 34° 42' 26.64"
Longitude (West):	84.955 - 84° 57' 18.00"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	687289.9
UTM Y (Meters):	3842302.5
Elevation:	790 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	34084-F8 DALTON SOUTH, GA
Most Recent Revision:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

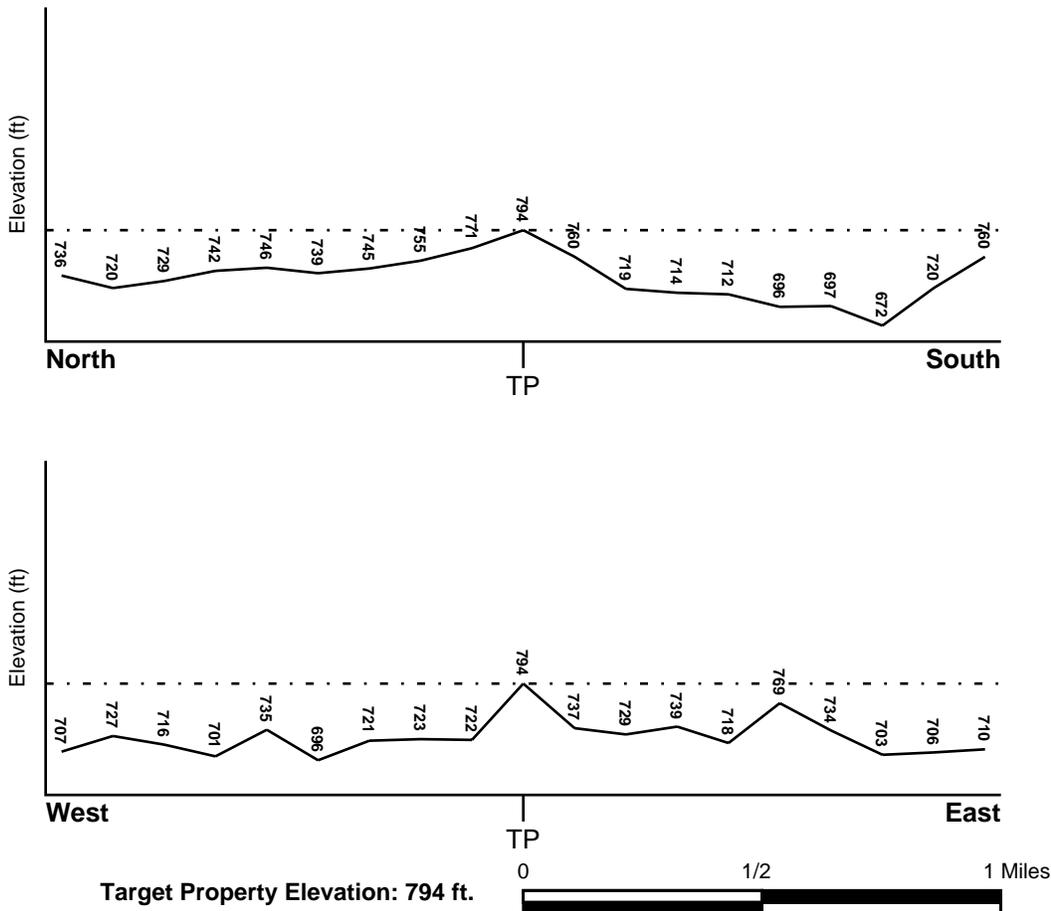
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## **HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u> WHITFIELD, GA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	13313C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> DALTON SOUTH	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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## **HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

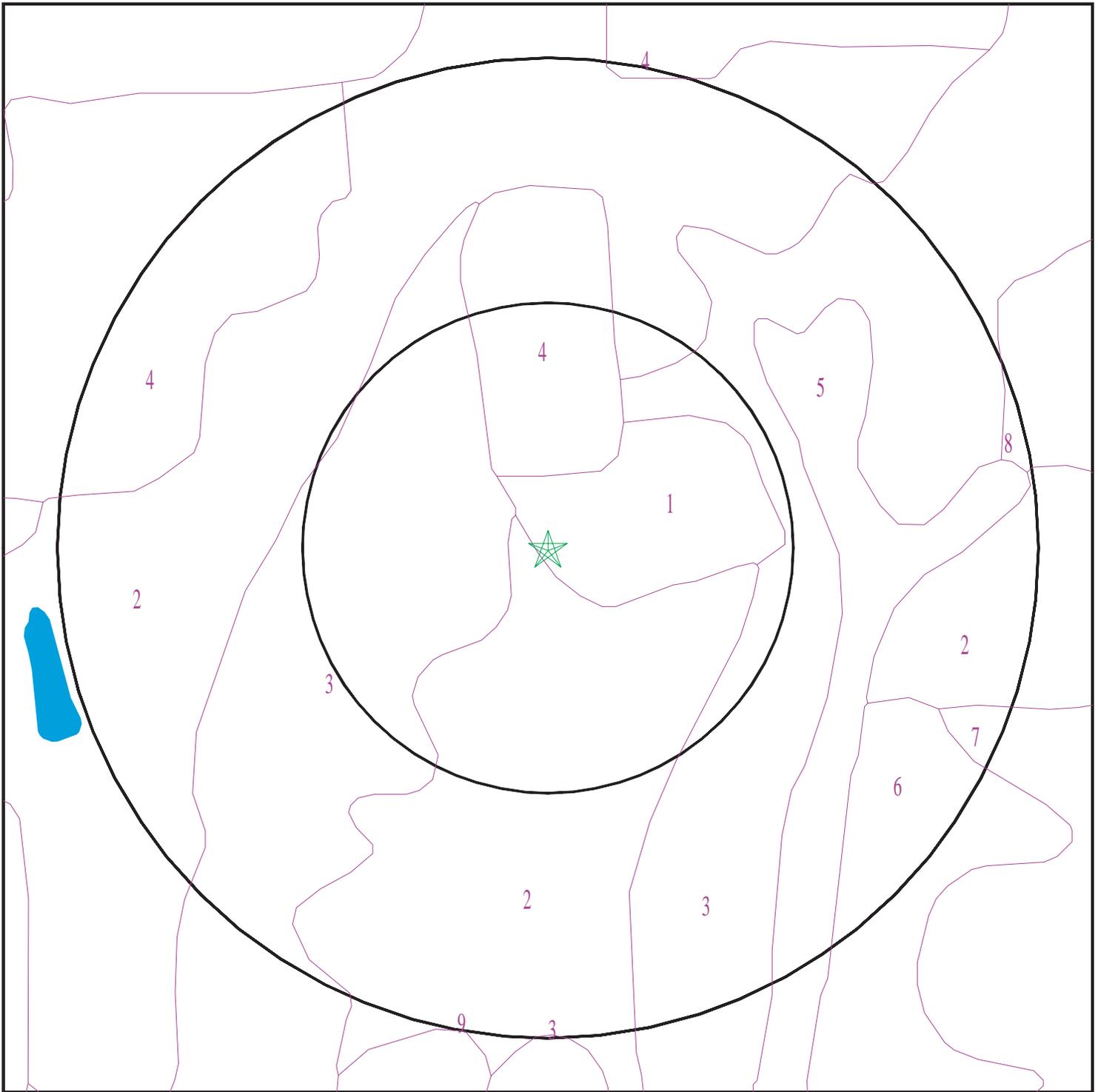
Era:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	C <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3282173.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: AMC International Inc  
ADDRESS: 310 Brookhollow Industrial Boulevard SE  
Dalton GA 30721  
LAT/LONG: 34.7074 / 84.955

CLIENT: AMEC E&I, Inc.  
CONTACT: Jeff Moore  
INQUIRY #: 3282173.2s  
DATE: March 21, 2012 1:59 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

#### Soil Map ID: 1

Soil Component Name: Ultic Udarents, channery

Soil Surface Texture:  
Hydrologic Group: Not reported

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

#### Soil Map ID: 2

Soil Component Name: Townley

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	5 inches	16 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	16 inches	27 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	27 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

### Soil Map ID: 3

Soil Component Name: Conasauga

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 51 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	3 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	5 inches	33 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	33 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
5	38 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

### Soil Map ID: 4

Soil Component Name: Townley

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	5 inches	16 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	16 inches	27 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	27 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

### Soil Map ID: 5

Soil Component Name: Arkabutla

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 33 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
2	12 inches	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
3	5 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
4	18 inches	62 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5

### Soil Map ID: 6

Soil Component Name: Montevallo

Soil Surface Texture: very channery loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	5 inches	10 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	10 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

---

### Soil Map ID: 7

Soil Component Name: Montevallo

Soil Surface Texture: very channery loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	5 inches	10 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	10 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

---

### Soil Map ID: 8

Soil Component Name: Townley

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	5 inches	16 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	16 inches	27 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	27 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

### Soil Map ID: 9

Soil Component Name: Cunningham

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:
2	7 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:
3	11 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:
4	20 inches	35 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:
5	35 inches	53 inches	channery silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:
6	53 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.14 Min: 0	Max: Min:

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

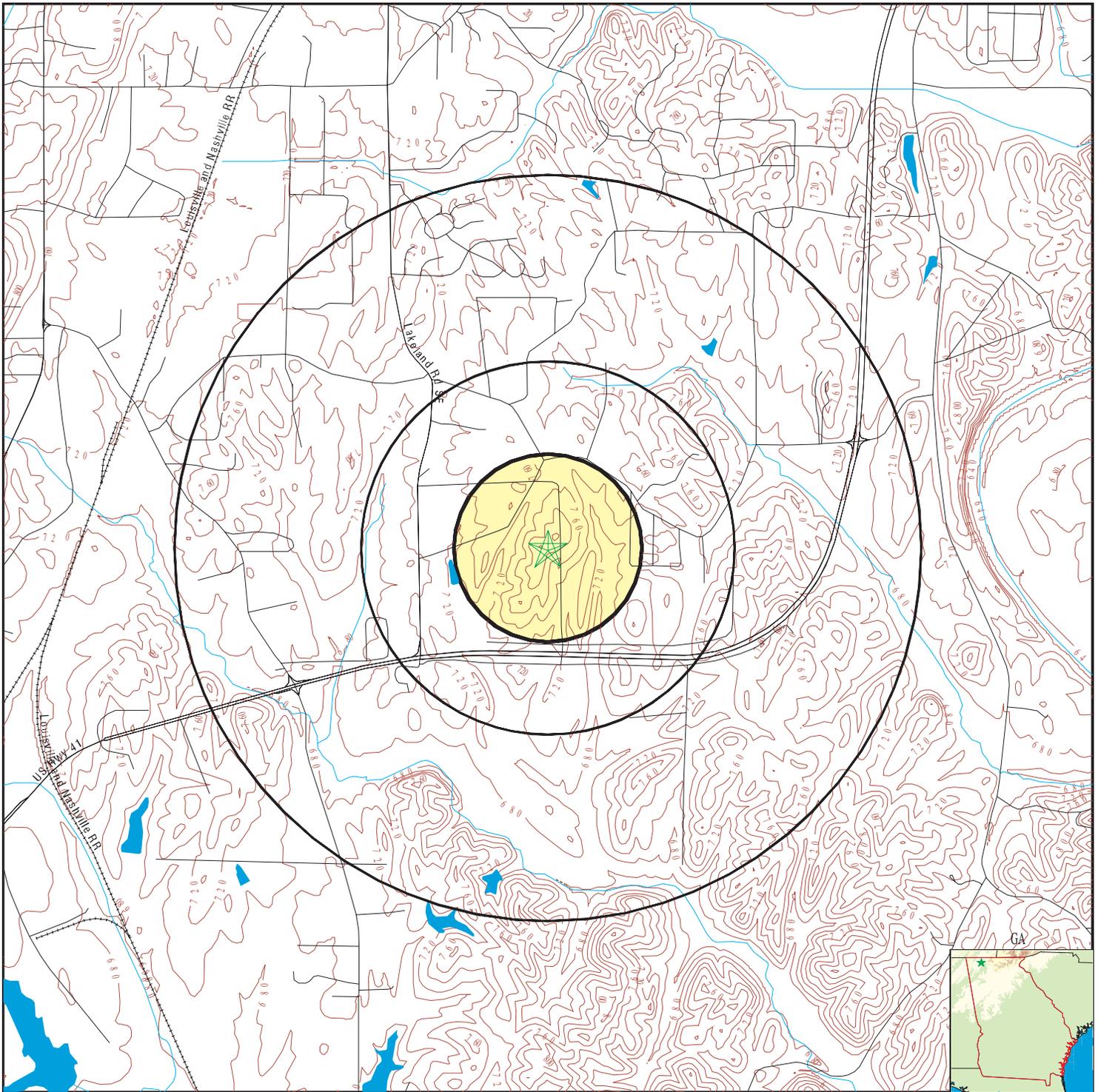
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

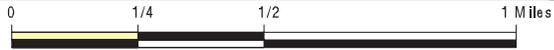
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 3282173.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons

-  Groundwater Flow Direction
-  Wildlife Areas
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location



SITE NAME: AMC International Inc  
 ADDRESS: 310 Brookhollow Industrial Boulevard SE  
 Dalton GA 30721  
 LAT/LONG: 34.7074 / 84.955

CLIENT: AMEC E&I, Inc.  
 CONTACT: Jeff Moore  
 INQUIRY #: 3282173.2s  
 DATE: March 21, 2012 1:59 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for WHITFIELD County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30721

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.850 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

#### USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

#### DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

## OTHER STATE DATABASE INFORMATION

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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**AMC INTERNATIONAL**

310 BROOKHOLLOW IND BLVD  
DALTON, GA 30721

Inquiry Number:  
March 28, 2012



# EDR Site Report™

# TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

**Section 1: Facility Summary . . . . . Page 3**

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

**Section 2: Facility Detail Reports . . . . . Page 4**

All available detailed information from databases where sites are identified.

**Section 3: Databases and Update Information. . . . . Page 11**

Name, source, update dates, contact phone number and description of each of the databases for this report.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1
<b>AREA</b>	<b>AMC INTERNATIONAL</b> 310 BROOKHOLLOW IND BLVD DALTON, GA 30721 EDR ID #1009396659 EPA #30720CTCHN31
<b>WASTE MANAGEMENT</b> Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
<b>WASTE DISPOSAL</b> Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
<b>MULTIMEDIA</b> Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	<b>YES - p4</b>
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
<b>POTENTIAL SUPERFUND LIABILITY</b> Facility has a list of potentially responsible parties PRP	NO
<b>TOTAL (YES)</b>	1

## SECTION 2: FACILITY DETAIL REPORTS

### MULTIMEDIA

Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313

**DATABASE: Toxic Chemical Release Inventory System (TRIS)**

AMC INTERNATIONAL  
310 BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
EDR ID #1009396659

#### TRIS:

TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072  
Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000110827  
Chemical Name: CYCLOHEXANE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases: 0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments: 0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072  
Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000075092  
Chemical Name: DICHLOROMETHANE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases:0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments:0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072

Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000067561  
Chemical Name: METHANOL  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases:0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments: 0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD

DALTON, GA 3072  
Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000110543  
Chemical Name: N-HEXANE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases: 0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments: 0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072

Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000127184  
Chemical Name: TETRACHLOROETHYLENE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases: 0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments: 0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072

Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000108883  
Chemical Name: TOLUENE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases:0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments:0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072

Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 000079016  
Chemical Name: TRICHLOROETHYLENE  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases:0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments:0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmnt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
TRIS ID: 30720CTCHN310BR  
Reporting Year: 2009  
Title of Certifying Official: GEN.MGR/VP  
Certifying official: MIKE MAVRIDIS  
Mailing Name: AMC INTERNATIONAL  
Mailing Address: 310 BROOKHOLLOW IND BLVD  
DALTON, GA 3072  
Contact: MIKE MAVRIDIS  
Contact Telephone: (706) 226-1662  
NAICS codes: 325998  
NAICS origin: Not reported  
Reported Latitude: 34.709949  
Reported Longitude: -84.955383  
DUNS Number: Not reported  
EPA ID: Not reported  
RCRA ID: Not reported  
NPDES ID: Not reported  
UIC ID: Not reported  
Parent Name: APOLLO TECHNOLOGIES INC  
Parent DUNS Number: 051021285  
CAS Number: 001330207  
Chemical Name: XYLENE (MIXED ISOMERS)  
Chemical is produced in facility: NO  
Chemical is imported: NO  
Chemical is for on-site use: NO  
Max chem. qty (lbs) code: Not reported  
Estimated qty of fugitive air release pounds/yr: Not reported  
Estimated qty of stack air release in pounds/yr: Not reported  
Total air emissions: Not reported  
Affected Stream Name: Not reported  
Water Stream Release: Not reported  
Percentage of total qty by weight of stream release: Not reported  
Total number of streams reported as receiving releases: 0  
Total amount of all stream release: 0  
Total qty injected underground onsite to Class I well: Not reported  
Total qty injected underground onsite to Class II-V well underground injection: Not reported  
Total underground well injection in pounds/year: Not reported  
Estimated qty released to RCRA subtitle C Landfills: Not reported  
Non-RCRA Landfills Release: Not reported  
Land treatment/farming releases: Not reported  
Surface impoundments release: Not reported  
Other disposal: Not reported  
Tot. onsite medium rel: Not reported  
Metals offsite transfers: 0  
Tot. reprtd storage-only: 0  
POTWS offsite transfers: 0  
Underground injection: 0  
Tot. qty reported as landfill/disposal surface impoundments: 0  
Tot. qty reported as land treatment: 0  
Other land disposal: 0  
Other offsite mgmt: 0  
Waster broker transfers: 0  
Tot. offsite transfers: 0  
Tot. offsite transfers for further waste management: 0

Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported  
Chemical Name: CYCLOHEXANE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: DICHLOROMETHANE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Revision code 2: Not reported  
Chemical Name: METHANOL  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: N-HEXANE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: TETRACHLOROETHYLENE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: TOLUENE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: TRICHLOROETHYLENE  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

Chemical Name: XYLENE (MIXED ISOMERS)  
NAICS codes: 325998  
NAICS origin: Not reported  
Qty released prior year: 0  
Qty released current yr: 0  
Qty rel. following year: 0  
Qty released of Catastrophic/one-time event: 0  
Metal indicator: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM  
Revision code 1: Not reported  
Revision code 2: Not reported

NAICS codes: 325998  
NAICS origin: Not reported  
Facility is federal: NO  
Facility is GOCO: NO  
Data covers entire fac.: YES  
Data covers part of fac.: NO  
Contact email: MMAVRIDIS@APOLLOIND.COM

## SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

**Elapsed ASTM days:** Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

### DATABASES FOUND IN THIS REPORT

**TRIS: Toxic Chemical Release Inventory System**

Source: EPA

Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009

Database Release Frequency: Annually

Date of Last EDR Contact: 02/28/2012

Date of Next Scheduled Update: 06/11/2012

**310 BROOKHOLLOW IND BLVD SE**  
310 BROOKHOLLOW IND BLVD SE  
DALTON, GA

Inquiry Number:  
March 28, 2012

## EDR Site Report™

# TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

**Section 1: Facility Summary . . . . . Page 3**

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

**Section 2: Facility Detail Reports . . . . . Page 4**

All available detailed information from databases where sites are identified.

**Section 3: Databases and Update Information. . . . . Page 13**

Name, source, update dates, contact phone number and description of each of the databases for this report.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 310 BROOKHOLLOW IND BLVD SE 310 BROOKHOLLOW IND BLVD SE DALTON, GA EDR ID #2008437969
<b>AREA</b>	
<b>WASTE MANAGEMENT</b> Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	<b>YES - p4</b>
<b>WASTE DISPOSAL</b> Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
<b>MULTIMEDIA</b> Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
<b>POTENTIAL SUPERFUND LIABILITY</b> Facility has a list of potentially responsible parties PRP	NO
<b>TOTAL (YES)</b>	1

## SECTION 2: FACILITY DETAIL REPORTS

### WASTE MANAGEMENT

Facility has reported hazardous material incidents to DOT

**DATABASE: Hazardous Materials Information Reporting System (HMIRS)**

310 BROOKHOLLOW IND BLVD SE  
310 BROOKHOLLOW IND BLVD SE  
DALTON, GA  
EDR ID #2008437969

HMIRS:  
Report #: 2007091025  
System ID: 437969  
Report type: A  
Incident site: 310 BROOKHOLLOW IND BLVD SE  
DALTON, GA 30721  
Incident county: WHITFIELD  
Incident country: US  
Incident date: 09/04/07  
Incident time: 0730  
NRC report #: 0  
Other fed agency reported to: Not reported  
Other agency report #: Not reported  
Incident foreign country: Not reported  
Transportation mode: 4  
Transportation phase: 263  
Carrier DOT ID: 028633  
Carrier Hazmat ID: 050206550004OQ  
Carrier name: UNIVAR USA INC.  
Carrier address: 17425 NE UNION HILL ROAD  
REDMOND, WA 98052-3375  
Carrier country: US  
Incident consequence: Spillage  
EMS/Fire crew responded: False  
EMS/Fire crew report #: Not reported  
Police responded: False  
Police report #: Not reported  
In-house cleanup occurred: False  
Other cleanup occurred: False  
Estimated damages exceed \$500: True  
Value of material lost: 111  
Value of carrier loss: 200  
Value of pub/priv property loss: 0  
Response cost: 0  
Remediation cost: 400

Details of fatalities by vapor/fire/explosion of hazardous material:

Did Fatalities occur: False  
No. of employee fatalities: 0  
No. of responder fatalities: 0  
No. of public fatalities: 0

Details of fatalities not due to hazardous material:

Did fatalities occur: False  
No. of dead persons: 0

Details of injuries due to hazardous material:

Did injuries occur: False  
No. of employees hospitalized: 0  
No. of employees not hospitalized: 0  
No. of responders hospitalized: 0  
No. of responders not hospitalized: 0  
No. of public hospitalized: 0  
No. of public not hospitalized: 0  
Evacuation was required: False  
No. of employees evacuated: 0  
No. of public evacuated: 0  
Total number evacuated: 0  
Evacuation time in hours: 0  
Road/facility was closed: False  
No. of hours closed: 0  
Hazmat involved in crash/derailment: False  
Estimated speed of crash: 0  
Crash weather conditions: Not reported  
Vehicle overturned: Not reported  
Did vehicle leave road/track: Not reported  
Where incident occurred/discovered: Not reported  
Shipment handling details: Not reported

Incident report preparer details:

Preparer name: ROBBY BRENER

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Preparer title: BRANCH OPERATIONS MANAGER  
Hazmat registration ID: Not reported  
Employer business name: UNIVAR USA  
Address: 3 RIVERSIDE LANE  
CHATTANOOGA, TN 37406  
Country: US  
Report date: 09/07/07  
Telephone: 423-629-3902  
Fax: 423-629-3929  
Business type: C  
Preparer other function: Not reported

### Description of Events:

DRIVER WAS AT CUSTOMER MAKING HIS DELIVERY. DRIVER HAD 2 PRODUCTS ON TRUCK. HE FINISHED UNLOADING 1ST PRODUCT. CUSTOMER ADVISED THAT HE HAD TO FLUSH HIS LINE. WHEN CUSOMER FINISHED HIS LINE FLUSH, HE CLOSED A VALVE. THIS CAUSE AN INCREASE IN PRESSURE CAUSING THE HOSE TO BUST.

### Recommendations/Actions Taken to Prevent Future Incidents:

RELIEF VALVE FAILED ON PUMP. RELIEF VALVE HAS BEEN REPLACED ON PUMP.

### Shipper Details:

Shipper ID: 438307  
Shipper name: UNIVAR  
Address: 3 RIVERSIDE LANE  
CHATTANOOGA, TN 37406  
Shipper country: US  
Hazmat papers #: CG343809  
Shipment origin: Not reported  
Shipment origin country: US

### Details of material being shipped:

Material ID: 444449  
Material name: TRICHLOROETHYLENE  
UN ID: UN1710  
Hazard class code: 61  
Trade name: TRICHLOROETHYLENE  
Packing group: II  
Amount reported released: 20 Gallon(s)  
Amount released: 20 Gallon(s)  
Material listed as hazardous waste: False  
EPA manifest number of haz. waste: Not reported  
Material listed as toxic inhalant: False  
Hazard zone of toxic inhalant: Not reported  
Material shipped under exemption/ approval/ Competent Authority Cert. False  
Exemption/approval/CAC number: Not reported  
Undeclared Hazmat shipment: False  
Package ID: 444844  
Hazmat shipment destination: 310 BROOKHOLLOW IND BLVD SE  
DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package: Not reported  
Material type of non-bulk/IBC/non-specification package: Not reported  
Head type for non-bulk/IBC/non-specification package: Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg:0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0.000000  
Standardized package cap: 0.000000  
Reported amount of material in pkg:0.000000  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0.000  
Package head thickness: 0.000  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package fail ID: 511589  
Fail Sequence: 1  
What failed code: 125  
How failed code: 303  
Failure cause code: 508  
Package ID: 444844  
Hazmat shipment destination: 310 BROOKHOLLOW IND BLVD SE  
DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0.000000  
Standardized package cap: 0.000000  
Reported amount of material in pkg: 0.000000  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0.000  
Package head thickness: 0.000  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package fail ID: 511589  
Fail Sequence: 1  
What failed code: 125  
How failed code: 303  
Failure cause code: 508  
Package ID: 444844  
Hazmat shipment destination: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg:0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg:0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0.000000  
Standardized package cap: 0.000000  
Reported amount of material in pkg:0.000000  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0.000  
Package head thickness: 0.000  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package fail ID: 511589  
Fail Sequence: 1  
What failed code: 125  
How failed code: 303  
Failure cause code: 508  
Material ID: 444449  
Material name: TRICHLOROETHYLENE  
UN ID: UN1710  
Hazard class code: 61  
Trade name: TRICHLOROETHYLENE  
Packing group: II  
Amount reported released: 20.000000 Gallon(s)  
Amount released: 20.000000 Gallon(s)  
Material listed as hazardous waste: False  
EPA manifest number of haz. waste: Not reported  
Material listed as toxic inhalant: False  
Hazard zone of toxic inhalant: Not reported  
Material shipped under exemption/ approval/ Competent Authority Cert. False  
Exemption/approval/CAC number: Not reported  
Undeclared Hazmat shipment: False  
Package ID: 444844  
Hazmat shipment destination: 310 BROOKHOLLOW IND BLVD SE  
DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package Not reported  
Material type of non-bulk/IBC/non-specification package Not reported  
Head type for non-bulk/IBC/non-specification package Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package Not reported  
Material type of non-bulk/IBC/non-specification package Not reported  
Head type for non-bulk/IBC/non-specification package Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0.000000  
Standardized package cap: 0.000000  
Reported amount of material in pkge: 0.000000  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0.000  
Package head thickness: 0.000  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package fail ID: 511589  
Fail Sequence: 1  
What failed code: 125  
How failed code: 303  
Failure cause code: 508  
Package ID: 444844  
Hazmat shipment destination: 310 BROOKHOLLOW IND BLVD SE  
DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package  
Not reported  
Material type of non-bulk/IBC/non-specification package  
Not reported  
Head type for non-bulk/IBC/non-specification package  
Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkge: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkge date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package: Not reported  
Material type of non-bulk/IBC/non-specification package: Not reported  
Head type for non-bulk/IBC/non-specification package: Not reported  
Reported package capacity: 0  
Standardized package cap: 0  
Reported amount of material in pkg: 0  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0  
Package head thickness: 0  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package: Not reported  
Material type of non-bulk/IBC/non-specification package: Not reported  
Head type for non-bulk/IBC/non-specification package: Not reported  
Reported package capacity: 0.000000  
Standardized package cap: 0.000000  
Reported amount of material in pkg: 0.000000  
Number of packages shipped: 0  
No. of packages releasing mat.: 0  
Packaging manufacturer: Not reported  
Packaging manufacturing date: / /  
Package serial number: Not reported  
Pkg date of last testing/inspection: / /  
Package construction material: Not reported  
Package design pressure: 0  
Package shell thickness: 0.000  
Package head thickness: 0.000  
Package service pressure: 0  
Valve device failed: Not reported  
Valve type: HOSE  
Valve manufacturer: BOSTON  
Valve model: Not reported  
Package fail ID: 511589  
Fail Sequence: 1  
What failed code: 125  
How failed code: 303  
Failure cause code: 508  
Package ID: 444844  
Hazmat shipment destination: Not reported  
DALTON, GA 30721  
Package type: C  
Package other description: Not reported  
Packaging markings: NO MARKINGS GIVEN  
Package code: 452  
Radioactive packaging indicator: Not reported  
Radioactive cert. indicator: Not reported  
Radioactive cert. No: Not reported  
Rad. nuclide(s) present: Not reported  
Transport index: Not reported  
Radioactivity indicator: Not reported  
Standardized activity: Not reported  
Critical safety index: Not reported  
Package layer ID: 607559  
Package ID: 444844  
Package layer code: S  
Package type for non-bulk/IBC/non-specification package: Not reported  
Material type of non-bulk/IBC/non-specification package: Not reported  
Head type for non-bulk/IBC/non-specification package:

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Reported package capacity:	Not reported
Standardized package cap:	0
Reported amount of material in pkge:	0
Number of packages shipped:	0
No. of packages releasing mat.:	0
Packaging manufacturer:	Not reported
Packaging manufacturing date:	/ /
Package serial number:	Not reported
Pkge date of last testing/inspection:	/ /
Package construction material:	Not reported
Package design pressure:	0
Package shell thickness:	0
Package head thickness:	0
Package service pressure:	0
Valve device failed:	Not reported
Valve type:	HOSE
Valve manufacturer:	BOSTON
Valve model:	Not reported
Package layer ID:	607559
Package ID:	444844
Package layer code:	S
Package type for non-bulk/IBC/non-specification package	Not reported
Material type of non-bulk/IBC/non-specification package	Not reported
Head type for non-bulk/IBC/non-specification package	Not reported
Reported package capacity:	0
Standardized package cap:	0
Reported amount of material in pkge:	0
Number of packages shipped:	0
No. of packages releasing mat.:	0
Packaging manufacturer:	Not reported
Packaging manufacturing date:	/ /
Package serial number:	Not reported
Pkge date of last testing/inspection:	/ /
Package construction material:	Not reported
Package design pressure:	0
Package shell thickness:	0
Package head thickness:	0
Package service pressure:	0
Valve device failed:	Not reported
Valve type:	HOSE
Valve manufacturer:	BOSTON
Valve model:	Not reported
Package layer ID:	607559
Package ID:	444844
Package layer code:	S
Package type for non-bulk/IBC/non-specification package	Not reported
Material type of non-bulk/IBC/non-specification package	Not reported
Head type for non-bulk/IBC/non-specification package	Not reported
Reported package capacity:	0.000000
Standardized package cap:	0.000000
Reported amount of material in pkge:	0.000000
Number of packages shipped:	0
No. of packages releasing mat.:	0
Packaging manufacturer:	Not reported
Packaging manufacturing date:	/ /
Package serial number:	Not reported
Pkge date of last testing/inspection:	/ /
Package construction material:	Not reported
Package design pressure:	0
Package shell thickness:	0.000
Package head thickness:	0.000
Package service pressure:	0
Valve device failed:	Not reported
Valve type:	HOSE
Valve manufacturer:	BOSTON
Valve model:	Not reported
Package fail ID:	511589
Fail Sequence:	1
What failed code:	125
How failed code:	303
Failure cause code:	508

## SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

**Elapsed ASTM days:** Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

### DATABASES FOUND IN THIS REPORT

**HMIRS: Hazardous Materials Information Reporting System**

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011  
Database Release Frequency: Annually

Date of Last EDR Contact: 01/03/2012  
Date of Next Scheduled Update: 04/16/2012



**SANCO INC**

207 BROOKHOLLOW RD  
DALTON, GA 30721

Inquiry Number:  
March 28, 2012



# EDR Site Report™

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The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

**Section 1: Facility Summary . . . . . Page 3**

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

**Section 2: Facility Detail Reports . . . . . Page 4**

All available detailed information from databases where sites are identified.

**Section 3: Databases and Update Information. . . . . Page 6**

Name, source, update dates, contact phone number and description of each of the databases for this report.

***Thank you for your business.***  
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## SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1
<b>AREA</b>	<b>SANCO INC</b> 207 BROOKHOLLOW RD DALTON, GA 30721 EDR ID #1014916411 EPA #GAR000062323
<b>WASTE MANAGEMENT</b> Facility generates hazardous waste (RCRA)	<b>YES - p4</b>
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
<b>WASTE DISPOSAL</b> Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
<b>MULTIMEDIA</b> Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
<b>POTENTIAL SUPERFUND LIABILITY</b> Facility has a list of potentially responsible parties PRP	NO
<b>TOTAL (YES)</b>	<b>1</b>

## SECTION 2: FACILITY DETAIL REPORTS

### WASTE MANAGEMENT

#### Facility generates hazardous waste

#### DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

SANCO INC  
207 BROOKHOLLOW RD  
DALTON, GA 30721  
EDR ID #1014916411

#### RCRA-SQG:

Date form received by agency: 08/26/2011  
Facility name: SANCO INC  
Facility address: 207 BROOKHOLLOW RD  
DALTON, GA 30721  
EPA ID: GAR000062323  
Mailing address: BROOKHOLLOW RD  
DALTON, GA 30721  
Contact: CHRIS PICKEL  
Contact address: BROOKHOLLOW RD  
DALTON, GA 30721  
Contact country: US  
Contact telephone: (706) 279-3773  
Telephone ext.: 304  
Contact email: CHRISPICKEL@OPTILINK.US  
EPA Region: 04  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

#### Owner/Operator Summary:

Owner/operator name: SANCO INC  
Owner/operator address: BROOKHOLLOW RD  
DALTON, GA 30721  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2003  
Owner/Op end date: Not reported

Owner/operator name: SANCO INC  
Owner/operator address: BROOKHOLLOW RD  
DALTON, GA 30721  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/2003  
Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

#### Hazardous Waste Summary:

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

## SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

**Elapsed ASTM days:** Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

### DATABASES FOUND IN THIS REPORT

#### **RCRA-LQG: RCRA - Large Quantity Generators**

Source: Environmental Protection Agency

Telephone: 703-308-8895

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/10/2011  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/05/2012  
Date of Next Scheduled Update: 04/16/2012



**POLYSTAR**

206 BROOKHOLLOW IND BLVD  
DALTON, GA 30721

Inquiry Number:  
March 28, 2012



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# SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1
<b>AREA</b>	<b>POLYSTAR</b> 206 BROOKHOLLOW IND BLVD DALTON, GA 30721 EDR ID #1006816799 EPA #GAR000033613
<b>WASTE MANAGEMENT</b> Facility generates hazardous waste (RCRA)	<b>YES - p4</b>
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	<b>YES - p7</b>
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
<b>WASTE DISPOSAL</b> Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
<b>MULTIMEDIA</b> Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
<b>POTENTIAL SUPERFUND LIABILITY</b> Facility has a list of potentially responsible parties PRP	NO
<b>TOTAL (YES)</b>	2

## SECTION 2: FACILITY DETAIL REPORTS

### WASTE MANAGEMENT

#### Facility generates hazardous waste

#### DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

POLYSTAR  
206 BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
EDR ID #1006816799

#### RCRA-SQG:

Date form received by agency: 03/28/2005  
Facility name: POLYSTAR  
Facility address: 206 BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
EPA ID: GAR000033613  
Mailing address: PO BOX 3753  
DALTON, GA 30719  
Contact: DAVID E HAZLETT  
Contact address: BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
Contact country: US  
Contact telephone: (706) 279-4114  
Contact email: Not reported  
EPA Region: 04  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

#### Owner/Operator Summary:

Owner/operator name: CHARLES COFIELD  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2003  
Owner/Op end date: Not reported

Owner/operator name: ERIC KUCKHOFF  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/2003  
Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

#### Historical Generators:

Date form received by agency: 04/15/2003  
Facility name: POLYSTAR  
Classification: Small Quantity Generator

#### Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

### Facility Has Received Notices of Violations:

Regulation violated: SR - 262.22  
Area of violation: Generators - Records/Reporting  
Date violation determined: 11/10/2004  
Date achieved compliance: 01/27/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 265.31  
Area of violation: Generators - General  
Date violation determined: 11/10/2004  
Date achieved compliance: 01/27/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34(d)(5)(iii)  
Area of violation: Generators - General  
Date violation determined: 11/10/2004  
Date achieved compliance: 01/27/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 262.34(d)(5)(ii)(C)  
Area of violation: Generators - General  
Date violation determined: 11/10/2004  
Date achieved compliance: 01/27/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 263.34(d)(5)(ii)(B)  
Area of violation: Generators - General  
Date violation determined: 11/10/2004  
Date achieved compliance: 01/27/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

### Evaluation Action Summary:

Evaluation date: 11/10/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/27/2005  
Evaluation lead agency: State

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Evaluation date: 11/10/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 01/27/2005  
Evaluation lead agency: State

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

### WASTE MANAGEMENT

#### Facility Has Received Notices of Violations

#### DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

POLYSTAR  
206 BROOKHOLLOW IND BLVD  
DALTON, GA 30721  
EDR ID #1006816799

Regulation Violated:	SR - 262.34(d)(5)(iii)
Area of Violation:	Generators - General
Date Violation Determined:	11/10/2004
Actual Date Achieved Compliance:	01/27/2005
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/27/2004
Regulation Violated:	SR - 262.22
Area of Violation:	Generators - Records/Reporting
Date Violation Determined:	11/10/2004
Actual Date Achieved Compliance:	01/27/2005
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/27/2004
Regulation Violated:	SR - 262.34(d)(5)(ii)(C)
Area of Violation:	Generators - General
Date Violation Determined:	11/10/2004
Actual Date Achieved Compliance:	01/27/2005
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/27/2004
Regulation Violated:	SR - 263.34(d)(5)(ii)(B)
Area of Violation:	Generators - General
Date Violation Determined:	11/10/2004
Actual Date Achieved Compliance:	01/27/2005
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/27/2004
Regulation Violated:	SR - 265.31
Area of Violation:	Generators - General
Date Violation Determined:	11/10/2004
Actual Date Achieved Compliance:	01/27/2005
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	12/27/2004

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### DATABASES FOUND IN THIS REPORT

#### **RCRA-SQG: RCRA - Small Quantity Generators**

Source: Environmental Protection Agency

Telephone: 703-308-8895

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/10/2011  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/05/2012  
Date of Next Scheduled Update: 04/16/2012



**METRO LAMINATORS**

203 BROOKHOLLOW INDUSTRIAL BLVD  
DALTON, GA 30720

Inquiry Number:  
March 28, 2012



**EDR Site Report™**

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All available detailed information from databases where sites are identified.

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with any questions or comments.

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# SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 METRO LAMINATORS 203 BROOKHOLLOW INDUSTRIAL BLVD DALTON, GA 30720 EDR ID #1006777007
<b>AREA</b>	
<b>WASTE MANAGEMENT</b> Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	<b>YES - p4</b>
Facility has reported leaking underground storage tank incidents (LUST)	<b>YES - p5</b>
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
<b>WASTE DISPOSAL</b> Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
<b>MULTIMEDIA</b> Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	<b>YES - p6</b>
<b>POTENTIAL SUPERFUND LIABILITY</b> Facility has a list of potentially responsible parties PRP	NO
<b>TOTAL (YES)</b>	3

## SECTION 2: FACILITY DETAIL REPORTS

### WASTE MANAGEMENT

Facility manages registered underground storage tanks

**DATABASE: Petroleum Storage Tank Database (UST)**

METRO LAMINATORS  
203 BROOKHOLLOW INDUSTRIAL BLVD  
DALTON, GA 30720  
EDR ID #1006777007

UST:

Facility:

Facility Id: 1550226  
Facility Status: Closed  
Facility Type: Not Marked  
Contact Id: 7664  
Owner Name: METRO LAMINATORS  
Owner Address: PO BOX 1788  
Owner City: DALTON  
Owner State: GA  
Owner Zip: 30722  
Owner City,St,Zip: DALTON, GA 30722  
Owner Telephone: 706-277-3773  
District: Mountain Cartersville

Tank ID: 1  
Status Date: 7/1/1997  
Status: Removed From Ground  
Product1: Gas  
Material: Marked Unknown  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Not Marked  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Tank ID: 2  
Status Date: 7/1/1997  
Status: Removed From Ground  
Product1: Diesel  
Material: Marked Unknown  
Capacity: 12000  
Pipe Material: Galvanized Steel  
Pipe Type: Not Marked  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

### WASTE MANAGEMENT

Facility has reported leaking underground storage tank incidents

**DATABASE: Leaking Petroleum Storage Tank Database (LUST)**

METRO LAMINATORS  
203 BROOKHOLLOW INDUSTRIAL BLVD  
DALTON, GA 30720  
EDR ID #1006777007

LUST:

Facility ID: 01550226  
Leak ID: 1  
Description: Confirmed Release Received  
Cleanup Status: NFA - No Further Action  
Date Received: 8/5/1996  
Project Officer: Coughlan, Michael F

## SECTION 2: FACILITY DETAIL REPORTS

...Continued...

### MULTIMEDIA

Facility is listed in a county/local unique database

**DATABASE: State/County (LOCAL)**

METRO LAMINATORS  
203 BROOKHOLLOW INDUSTRIAL BLVD  
DALTON, GA 30720  
EDR ID #1006777007

#### GA FINANCIAL ASSURANCE:

Region:	1
Facility ID:	1550226
Financial Responsibility:	Not Marked

## SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

**Elapsed ASTM days:** Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

### DATABASES FOUND IN THIS REPORT

#### **GA LUST: List of Leaking Underground Storage Tanks**

Source: Environmental Protection Division

Telephone: 404-362-2687

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/30/2011

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/21/2012

Date of Next Scheduled Update: 07/02/2012

#### **GA UST: Underground Storage Tank Database**

Source: Environmental Protection Division

Telephone: 404-362-2687

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/14/2010

Database Release Frequency: Annually

Date of Last EDR Contact: 03/16/2012

Date of Next Scheduled Update: 07/02/2012

#### **GA FINANCIAL ASSURANCE 1: Financial Assurance Information Listing**

Source: Department of Natural Resources

Telephone: 404-362-4892

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 09/14/2010

Database Release Frequency: Annually

Date of Last EDR Contact: 03/16/2012

Date of Next Scheduled Update: 07/02/2012



**AMC International Inc**

310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

Inquiry Number: 3282173.4

March 21, 2012

# EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

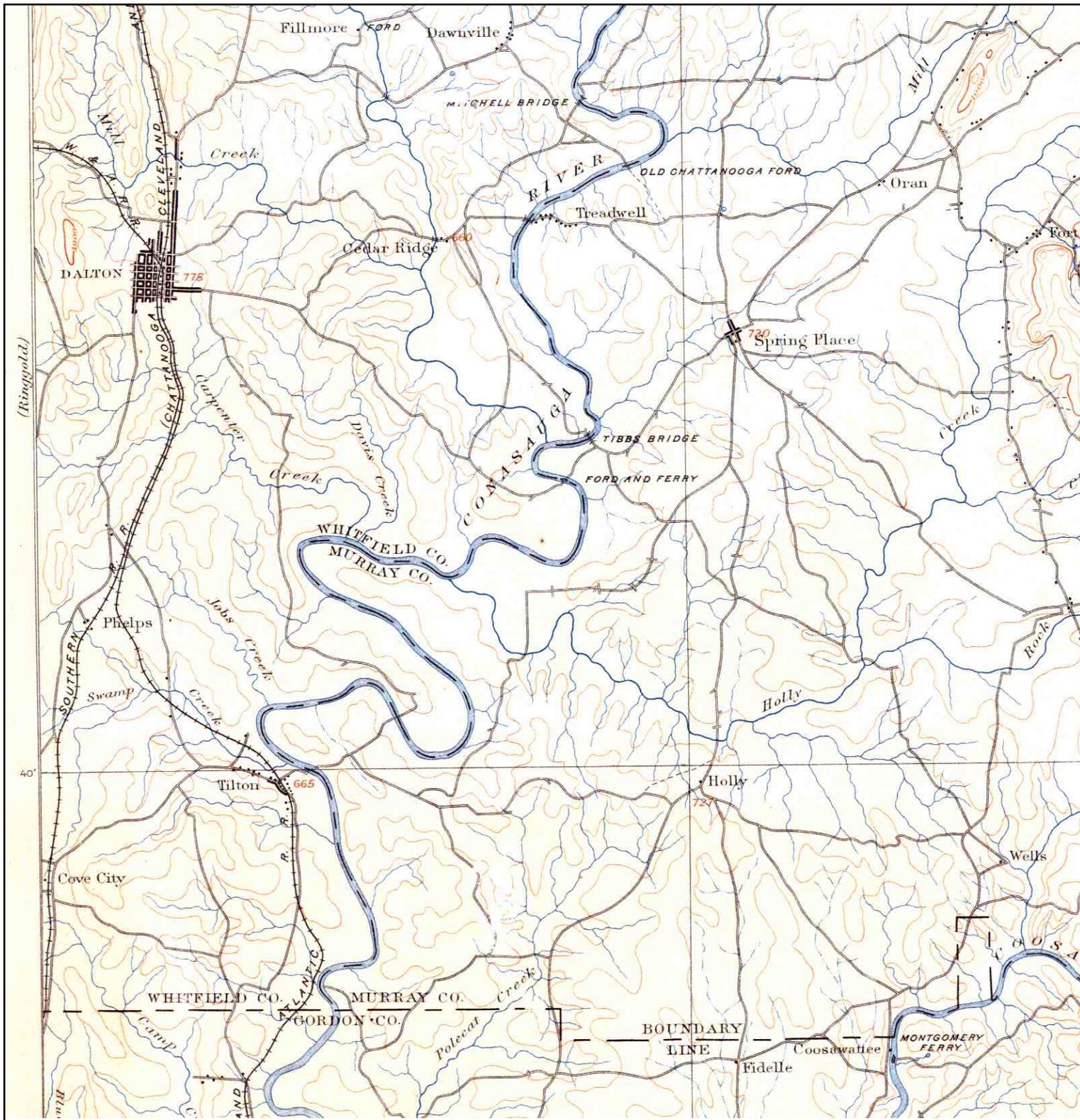
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# Historical Topographic Map



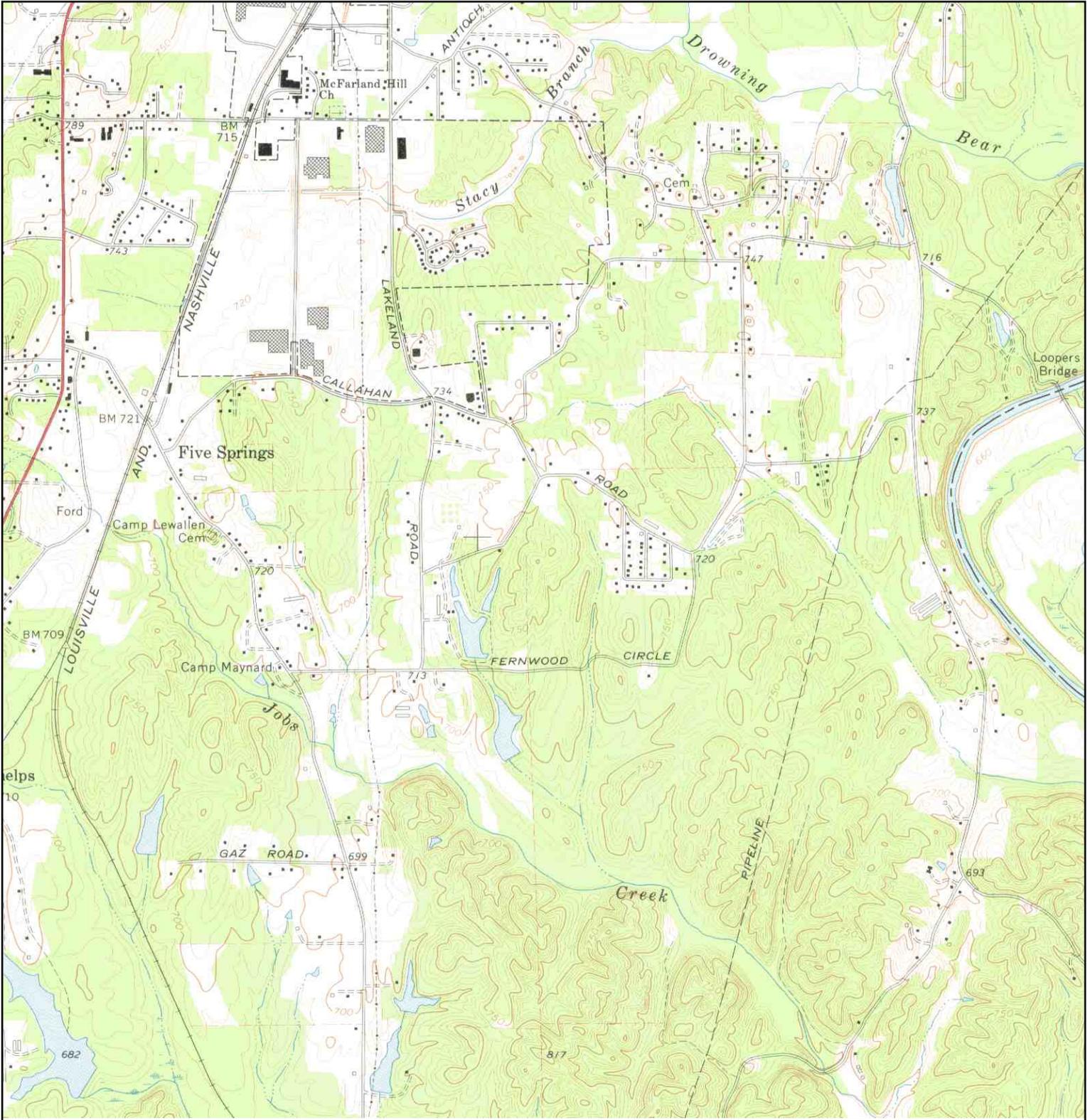
<p>N</p>	<p><b>TARGET QUAD</b></p> <p>NAME: DALTON</p> <p>MAP YEAR: 1897</p>	<p>SITE NAME: AMC International Inc</p> <p>ADDRESS: 310 Brookhollow Industrial Boulevard SE</p> <p>Dalton, GA 30721</p>	<p>CLIENT: AMEC E&amp;I, Inc.</p> <p>CONTACT: Jeff Moore</p> <p>INQUIRY#: 3282173.4</p> <p>RESEARCH DATE: 03/21/2012</p>
	<p>SERIES: 30</p> <p>SCALE: 1:125000</p>	<p>LAT/LONG: 34.7074 / -84.955</p>	

# Historical Topographic Map



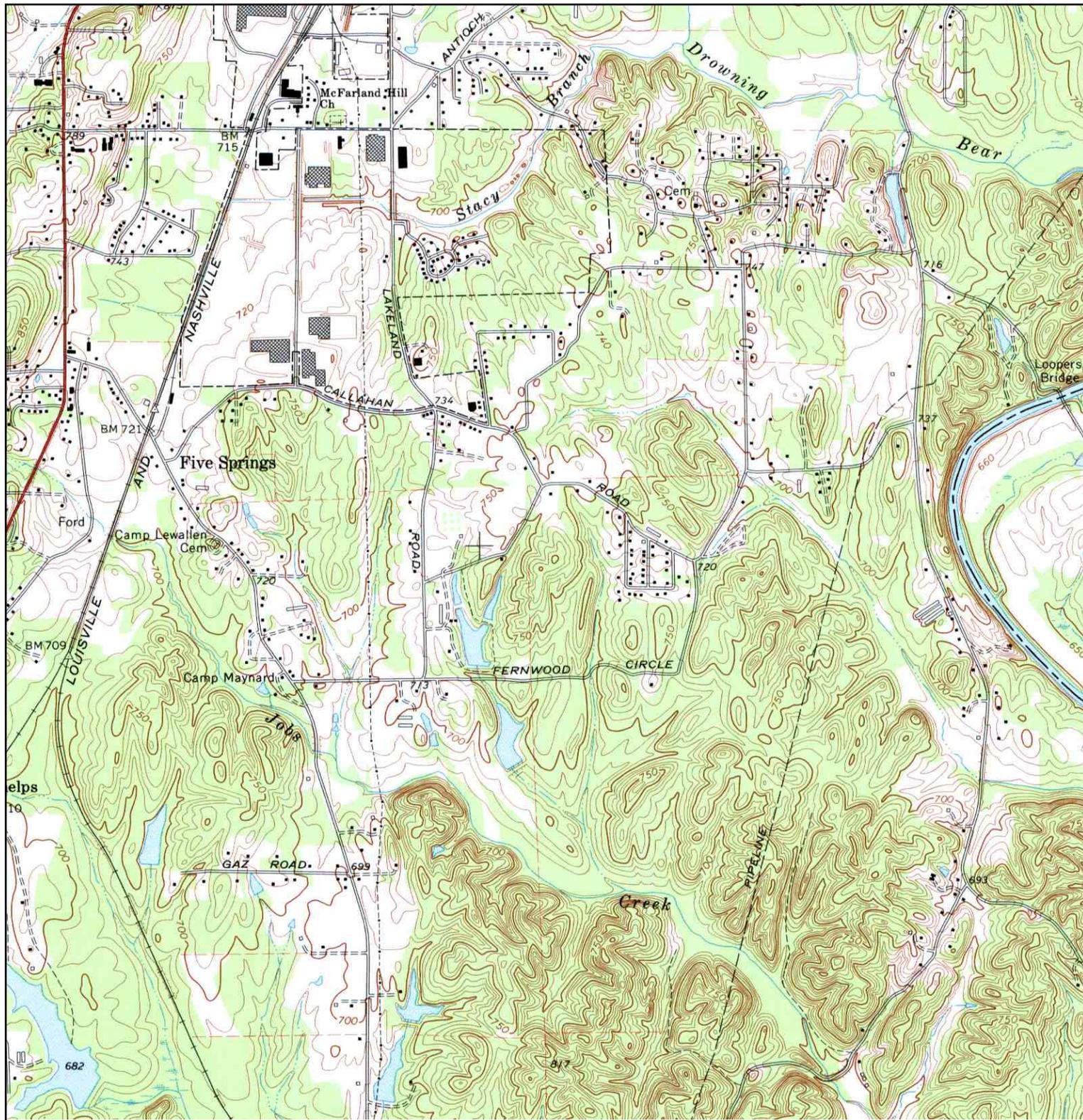
	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AMC International Inc	<b>CLIENT:</b> AMEC E&I, Inc.
	NAME: CALHOUN	ADDRESS: 310 Brookhollow Industrial Boulevard SE	CONTACT: Jeff Moore
	MAP YEAR: 1951	Dalton, GA 30721	INQUIRY#: 3282173.4
	SERIES: 15	LAT/LONG: 34.7074 / -84.955	RESEARCH DATE: 03/21/2012
	SCALE: 1:62500		

# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AMC International Inc	<b>CLIENT:</b> AMEC E&I, Inc.
	<b>NAME:</b> DALTON SOUTH	<b>ADDRESS:</b> 310 Brookhollow Industrial Boulevard SE	<b>CONTACT:</b> Jeff Moore
	<b>MAP YEAR:</b> 1972	Dalton, GA 30721	<b>INQUIRY#:</b> 3282173.4
	<b>SERIES:</b> 7.5	<b>LAT/LONG:</b> 34.7074 / -84.955	<b>RESEARCH DATE:</b> 03/21/2012
	<b>SCALE:</b> 1:24000		

# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AMC International Inc	<b>CLIENT:</b> AMEC E&I, Inc.
	NAME: DALTON SOUTH	<b>ADDRESS:</b> 310 Brookhollow Industrial Boulevard SE	<b>CONTACT:</b> Jeff Moore
	MAP YEAR: 1982	Dalton, GA 30721	<b>INQUIRY#:</b> 3282173.4
	PHOTOINSPECTED FROM : 1972	<b>LAT/LONG:</b> 34.7074 / -84.955	<b>RESEARCH DATE:</b> 03/21/2012
	SERIES: 7.5		
	SCALE: 1:24000		

**AMC International, Inc.  
310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721**

**Inquiry Number: 3282173.7  
March 29, 2012**

# The EDR Environmental LienSearch™ Report



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

AMC International, Inc.  
310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

### RESEARCH SOURCE

Source 1: Whitfield County Assessor

Source 2: Whitfield County Clerk

## PROPERTY INFORMATION

### **Deed 1:**

Type of Deed: General Warranty Deed  
Title is vested in: AMC International, Inc.  
Title Received from: Willie Baynes, Mike Whitaker, and Fred Land  
Deed Dated: 08/18/1995  
Deed Recorded: 08/21/1995  
Book: 2644  
Page: 203

### **Deed 2:**

Type of Deed: Quitclaim Deed  
Title is vested in: AMC International, Inc.  
Title Received from: Willie Baynes, Mike Whitaker, and Fred Land  
Deed Dated: 08/18/1995  
Deed Recorded: 08/21/1995  
Book: 2644  
Page: 207

**Legal Description:** See attached deed

**Legal Current Owner:** AMC International, Inc.

**Property Identifiers:** 13-025-01-007

## EDR Environmental LienSearch™ Report

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

### **OTHER ACTIVITY AND USE LIMITATIONS (AULs)**

Other AUL's: Found  Not Found

Type of Document: Georgia Site Hazardous Site Inventory

First Party: AMC International, Inc.

Deed Dated: 07/01/1997

Deed Recorded: 09/02/1997

Book: 2878

Page: 324

**REGULATED SUBSTANCES RELEASED, AND THREATS TO HUMAN HEALTH AND ENVIRONMENT POSED BY THE RELEASE:** This site has a known release of Carbon tetrachloride in groundwater at levels exceeding the reportable quantity. No human exposure via drinking water is suspected from this release. The nearest drinking water well is less than 0.5 miles from the area affected by the release. Other substances in groundwater: 1,1,1-Trichloroethane; Methylene chloride; 1,1-Dichloroethene; 1,2-Dichloroethane; Methylisobutylketone; 1,1,2-Trichloroethane; Trichloroethylene; Bromodichloromethane; Methyl chloride.

This site has a known release of Carbon tetrachloride in soil at levels exceeding the reportable quantity. The site has limited access. The nearest resident individual is less than 300 feet from the area affected by the release. Other substances on site: Acetone; 1,1,1-Trichloroethane; Methylene chloride; 1,1-Dichloroethane; 1,1-Dichloroethene; Tetrachloroethylene; Xylenes; Methyl ethyl ketone; 1,2-Dichloroethane; Methylisobutylketone; Styrene; 1,1,2-Trichloroethane; Trichloroethylene.

**STATUS OF CLEANUP ACTIVITIES:** No HSRA cleanup or investigation has been initiated at this site.

**CLEANUP PRIORITY:** The Director has designated this site as Class II.

**GA EPD DIRECTOR'S DETERMINATION REGARDING CORRECTIVE ACTION:** Pending

**EDR Environmental LienSearch™ Report**

**DEED EXHIBIT**

BOOK 2644 PAGE 203 1:15  
21  
60896

STATE OF GEORGIA  
COUNTY OF FULTON

✓  
After recording return to:  
Karen F. Correnty  
Sutherland, Asbill & Brennan  
999 Peachtree Street, N.E.  
Atlanta, Georgia 30309-3996

GENERAL WARRANTY DEED

THIS INDENTURE, made this 18<sup>th</sup> day of August, 1995, between WILLIE BAYNES, an individual resident of the State of Georgia (as to an undivided one-third interest), MIKE WHITAKER, an individual resident of the State of Georgia (as to an undivided one-third interest), and FRED LAND, an individual resident of the State of Georgia (as to an undivided one-third interest) (hereinafter collectively and severally referred to as "Grantor") and AMC INTERNATIONAL, INC., a Georgia corporation (hereinafter referred to as "Grantee").

WITNESSETH:

For and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration delivered to Grantor by Grantee at and before the execution, sealing and delivery hereof, the receipt and sufficiency of which are hereby acknowledged, Grantor has and hereby does grant, bargain, sell, alien, convey and confirm unto Grantee, and the legal representatives, successors, successors-in-title and assigns of Grantee, all that tract or parcel of land lying and being in Lot No. 25 of the 13th District, 3rd Section of Whitfield County, Georgia, as more particularly described on Exhibit A attached hereto and hereby made a part hereof.

• To have and to hold said tract or parcel of land, together with any and all improvements located thereon, and any and all of the rights, members and appurtenances thereof, to the same being, belonging or in anywise appertaining to the only proper use, benefit and behoof of Grantee and the legal representatives, successors, successors-in-title and assigns of Grantee, forever, in fee simple.

Grantor shall warrant and forever defend the right and title to said tract or parcel of land unto Grantee and the legal representatives, successors-in-title and assigns of Grantee, against the claims of all persons whomsoever, subject to those matters listed as permitted title exceptions as set forth on Exhibit B attached hereto and hereby made a part hereof.

Whitfield County, Georgia  
Real Estate Transfer Tax  
Paid \$ 550.00  
Date 8-21-95  
Betty Nelson  
Clerk of Superior Court

h:\kfc\kfc\11468.01\gudeed

08/16/95 3:20pm

BOOK 2644 PAGE 204

IN WITNESS WHEREOF, the Grantor has signed, sealed and delivered this deed the day and year first above written.

Signed, sealed and delivered as to Willie Baynes, Mike Whitaker and Fred Land in the presence of:

GRANTOR:

Willie Baynes (SEAL)  
Willie Baynes

Mike Whitaker (SEAL)  
Mike Whitaker

Fred Land (SEAL)  
Fred Land

[Signature]  
Unofficial Witness  
[Signature]  
Notary Public  
My Commission Expires:



FILED & RECORDED  
TIME: 1:15  
DATE: 8-21-95  
DEED BOOK: 2644  
PAGE: 203-204  
BETTY NELSON, C.S.C.  
WHITFIELD COUNTY, GA

BOOK 2644 PAGE 205

**EXHIBIT A**

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 25 of the 13th District, 3rd Section of Whitfield County, Georgia, and being more particularly described as follows:

**BEGINNING** at an iron pin found on the western right-of-way line of Brookhollow Industrial Boulevard (50' right-of-way), said iron pin being located 499.01 feet southerly along said western right-of-way line from its intersection with the southern right-of-way line of Brookhollow Industrial Boulevard (formerly known as Snell Boulevard); thence South 03° 29' 54" West along said western right-of-way of Brookhollow Industrial Boulevard a distance of 499.00 feet to an iron pin found; thence leaving said right-of-way line and running North 87° 32' 45" West a distance of 400.00 feet to an iron pin found; thence North 03° 29' 54" East a distance of 499.00 feet to an iron pin found; and South 87° 32' 45" East a distance of 400.00 feet to the POINT OF BEGINNING.

The above-described property contains 4.59 acres and is shown on, and described according to, that certain Plat certified to AMC International, Inc., First Union National Bank of Georgia and Lawyers Title Insurance Corporation, prepared by Bakkum-DeLoach & Associates (Norman B. DeLoach, Georgia R.L.S. No. 1347), dated August 16, 1995, which certain Survey is incorporated herein by this reference and made a part hereof.

BOOK 2644 PAGE 206

EXHIBIT B

1. City and County taxes for 1995 and subsequent years, a lien not yet due and payable.

1115  
21  
60899

BOOK 2644 PAGE 207

STATE OF GEORGIA  
COUNTY OF FULTON

✓  
After recording return to:  
Karen F. Correnty  
Sutherland, Asbill & Brennan  
999 Peachtree Street, N.E.  
Atlanta, Georgia 30309-3996

**QUITCLAIM DEED**

THIS INDENTURE, made this 18<sup>th</sup> day of August, 1995, between WILLIE BAYNES, an individual resident of the State of Georgia, MIKE WHITAKER, an individual resident of the State of Georgia, and FRED LAND, an individual resident of the State of Georgia (hereinafter collectively and severally referred to as "Grantor"), and AMC INTERNATIONAL, INC., a Georgia corporation (hereinafter referred to as "Grantee") (the words "Grantor" and "Grantee" to include their respective successors, legal representatives and assigns where the context requires or permits).

WITNESSETH:

For and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration delivered to Grantor by Grantee at and before the execution, sealing and delivery hereof, the receipt and sufficiency of which are hereby acknowledged, Grantor has and hereby does remise, release, convey and forever quitclaim unto Grantee all the right, title, interest, claim or demand which Grantor has, or may have had, in and to that tract or parcel of land lying and being located in Lot No. 25 of the 13th District, 3rd Section of Whitfield County, Georgia, as more particularly described on Exhibit A attached hereto and hereby made a part hereof.

To have and to hold said tract or parcel of land, together with any and all improvements located thereon, and any and all of the rights, members and appurtenances thereof to Grantee, so said that neither Grantor nor any person or persons claiming under Grantor shall at any time by any means or ways have, claim or demand any right or title to said tract or parcel of land or any improvements thereon, if any, or any of the rights, members and appurtenances thereof.

[Signatures on attached page]

IN WITNESS WHEREOF, Grantor has signed, sealed and delivered this deed the day and year first above written.

Signed, sealed and delivered as to Willie Baynes, Mike Whitaker and Fred Land in the presence of:

Willie Baynes (SEAL)  
Willie Baynes

Mike Whitaker (SEAL)  
Mike Whitaker

Fred Land (SEAL)  
Fred Land

Shirley L. Jones  
Unofficial Witness

Belen F. Smith  
Notary Public

My Commission Expires:



FILED & RECORDED  
TIME: 1:15  
DATE: 8-21-95  
DEED BOOK: 2644  
PAGE: 207-209  
BETTY NELSON, C.S.C.  
WHITFIELD COUNTY, GA

**EXHIBIT A**

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 25 of the 13th District, 3rd Section of Whitfield County, Georgia, and being more particularly described as follows:

BEGINNING at an iron pin found on the western right-of-way line of Brookhollow Industrial Boulevard (50' right-of-way), said iron pin being located 499.01 feet southerly along said western right-of-way line from its intersection with the southern right-of-way line of Brookhollow Industrial Boulevard (formerly known as Snell Boulevard); thence South  $03^{\circ} 29' 54''$  West along said western right-of-way of Brookhollow Industrial Boulevard a distance of 499.00 feet to an iron pin found; thence leaving said right-of-way line and running North  $87^{\circ} 32' 45''$  West a distance of 400.00 feet to an iron pin found; thence North  $03^{\circ} 29' 54''$  East a distance of 499.00 feet to an iron pin found; and South  $87^{\circ} 32' 45''$  East a distance of 400.00 feet to the POINT OF BEGINNING.

The above-described property contains 4.59 acres and is shown on, and described according to, that certain Plat certified to AMC International, Inc., First Union National Bank of Georgia and Lawyers Title Insurance Corporation, prepared by Bakkum-DeLoach & Associates (Norman B. DeLoach, Georgia R.L.S. No. 1347), dated August 16, 1995, which certain Survey is incorporated herein by this reference and made a part hereof.

**EDR Environmental LienSearch™ Report**

**ACTIVITY AND USE LIMITATION (AULS)  
EXHIBITS**

BOOK 2878 PAGE 324

4:00  
2

Site Number: 10405

SITE NAME: AMC International, Inc.

LOCATION: 310 Brookhollow Industrial Boulevard  
Dalton, Whitfield County, GA 30721

Latitude: 34° 42' 23" N Longitude: 84° 57' 25" W

LAST KNOWN PROPERTY OWNER AND MAILING ADDRESS:

AMC International, Inc.  
1850 South Cobb Industrial Boulevard  
Smyrna, GA 30082

REGULATED SUBSTANCES RELEASED, AND THREATS TO HUMAN HEALTH AND ENVIRONMENT POSED BY THE RELEASE: This site has a known release of Carbon tetrachloride in groundwater at levels exceeding the reportable quantity. No human exposure via drinking water is suspected from this release. The nearest drinking water well is less than 0.5 miles from the area affected by the release. Other substances in groundwater: 1,1,1-Trichloroethane; Methylene chloride; 1,1-Dichloroethane; 1,2-Dichloroethane; Methylisobutylketone; 1,1,2-Trichloroethane; Trichloroethylene; Bromodichloromethane; Methyl chloride.

This site has a known release of Carbon tetrachloride in soil at levels exceeding the reportable quantity. The site has limited access. The nearest resident individual is less than 300 feet from the area affected by the release. Other substances on site: Acetone; 1,1,1-Trichloroethane; Methylene chloride; 1,1-Dichloroethane; 1,1-Dichloroethene; Tetrachloroethylene; Xylenes; Methyl ethyl ketone; 1,2-Dichloroethane; Methylisobutylketone; Styrene; 1,1,2-Trichloroethane; Trichloroethylene.

STATUS OF CLEANUP ACTIVITIES: No HHSRA cleanup or investigation has been initiated at this site.

CLEANUP PRIORITY: The Director has designated this site as Class II.

GA EPD DIRECTOR'S DETERMINATION REGARDING CORRECTIVE ACTION: Pending

FILED & RECORDED

TIME: 4:00

DATE: 9-2-97

DEED BOOK: 2878

PAGE: 324

BETTY NELSON, C.S.C.  
WHITFIELD COUNTY, GA

**AMC International Inc**

310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

Inquiry Number: 3282173.6  
March 26, 2012

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
2001	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1996	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1991	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1986	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1981	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1976	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1968	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1938	<input type="checkbox"/>	<input type="checkbox"/>	Baldwin's City Directory

### RECORD SOURCES

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## FINDINGS

### TARGET PROPERTY STREET

310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

Year            CD Image            Source

### Brookhollow Industrial Boulevard SE

2011	pg A1	Polk's City Directory	
2006	pg A2	Polk's City Directory	
2001	-	Polk's City Directory	Target and Adjoining not listed in Source
1996	pg A3	Polk's City Directory	
1991	pg A4	Polk's City Directory	
1986	pg A5	Polk's City Directory	
1981	-	Polk's City Directory	Street not listed in Source
1976	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1938	-	Baldwin's City Directory	Street not listed in Source

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

**Brookhollow Industrial Boulevard SE**

**2011**

**BROOKHOLLOW INDUSTRIAL BLVD SE (DALTON)**

**+ LAKELAND RD SE CONTINUES**

**• ZIP CODE 30721 CAR-RT R019**

207 SANCO INC minerals .....706-279-3773

208 POLYSTAR LLC coatings- protective-mfrs .....706-281-2087

216 MICROBLLEN pulp & pulp products .....706-270-8129

STAR HOLDINGS INC chemicals-retail .....706-428-9825

310 AMC INTL mfrs .....706-226-1662

**+ FOCUS DR INTERSECTS**

**BUSINESSES 5**

**Brookhollow Industrial Boulevard SE**

**2006**

**BROOKHOLLOW INDUSTRIAL BLVD SE (DALTON)**

**+ LAKELAND RD SE CONTINUES**

**• ZIP CODE 30721 CAR-RT R019**

206 POLYSTAR LLC coatings- protective-mfrs .....706-279-4114

207 SANCO INC minerals .....706-279-3773

208 C & A TECHNOLOGIES pallets & skids- mfrs .....706-281-4388

ISOTET CHEMICAL LLC chemicals-retail .....706-281-2087

216 C & A MFG INC mfrs .....706-270-5808

MICROBLEN nonclassified establishments .....706-270-8129

STAR TECHNOLOGIES chemicals-retail .....706-428-9825

310 AMC INTL mfrs .....706-226-1662

**+ FOCUS DR INTERSECTS**

**BUSINESSES 8**

Brookhollow Industrial Boulevard SE

1996

**BROOKHOLLOW INDUS BLVD -FROM  
LAKELAND RD EAST**

**32**

**• ZIP CODE 30721**

**+ LAKELAND RD INTERSECTS**

**203 METRO LAMINATORS INC carpt**

.....**277-3773**

**205 METRO LAMINATORS whse**

**207 PLASTRON DALTON ACTION**

**TECHNOLOGY plastic comp extrusions**

.....**277-3364**

**208 STAR TECHNOLOGIES.....277-2981**

**300 Vacant**

**310 ACUTECH INDUSTRIES INC aerosol**

**packaging**

**BUSINESSES 5**

**Brookhollow Industrial Boulevard SE****1991****32****BROOKHOLLOW INDUS BLVD -FROM  
LAKELAND RD EAST 1 SOUTH OF  
CALLAHAN RD****ZIP CODE 30720****203 Metro Laminators Inc 277-3773****205 Vacant****207 Plastron Dalton Action Technology  
plastic comp extrusions 277-3364****208 U S Polymerics Inc chem dlrs 277-2981****300 White Crest Finishing carpet & rug  
dyers 277-1851****310 Arrow Pac aerosol pkg 227-2400****Acutech Industries Inc carpet adhesives  
277-2400**

**Brookhollow Industrial Boulevard SE****1986****32****BROOKHOLLOW INDUS BLVD —FROM  
LAKELAND RD EAST 1 SOUTH OF  
CALLAHAN RD****ZIP CODE 30720**

- 203 Metro Laminators Inc 277-3773**
- 205 Vacant**
- 207 Plastron Inc plastic extruders 277-3364**
- 208 Encore Samples Inc cards & books  
277-1260**
- 300 A D Bac Carpet Service carpet & rug  
dyers 277-1851**
- 310 Arrow Pac aerosol pkg 277-1220  
Bay Kem Enterprise Inc carpet adhesives  
277-2400**
- 300 Culp Carpet Industries carpet mfr  
277-9601**



**AMC International Inc**

310 Brookhollow Industrial Boulevard SE  
Dalton, GA 30721

Inquiry Number: 3282173.5

March 23, 2012

## The EDR Aerial Photo Decade Package

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography March 23, 2012

**Target Property:**

310 Brookhollow Industrial Boulevard SE

Dalton, GA 30721

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1938	Aerial Photograph. Scale: 1"=476'	Flight Year: 1938	AAA
1950	Aerial Photograph. Scale: 1"=476'	Flight Year: 1950	PMA
1955	Aerial Photograph. Scale: 1"=476'	Flight Year: 1955 Photo Not Available - Image missing from collection	CSS
1960	Aerial Photograph. Scale: 1"=476'	Flight Year: 1960	CSS
1972	Aerial Photograph. Scale: 1"=476'	Flight Year: 1972	ASCS
1988	Aerial Photograph. Scale: 1"=950'	Flight Year: 1988	USGS
1993	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1993	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	EDR



**INQUIRY #:** 3282173.5

**YEAR:** 2006

 = 500'





**INQUIRY #:** 3282173.5

**YEAR:** 2005

 = 500'





**INQUIRY #:** 3282173.5

**YEAR:** 1993

|—————| = 500'



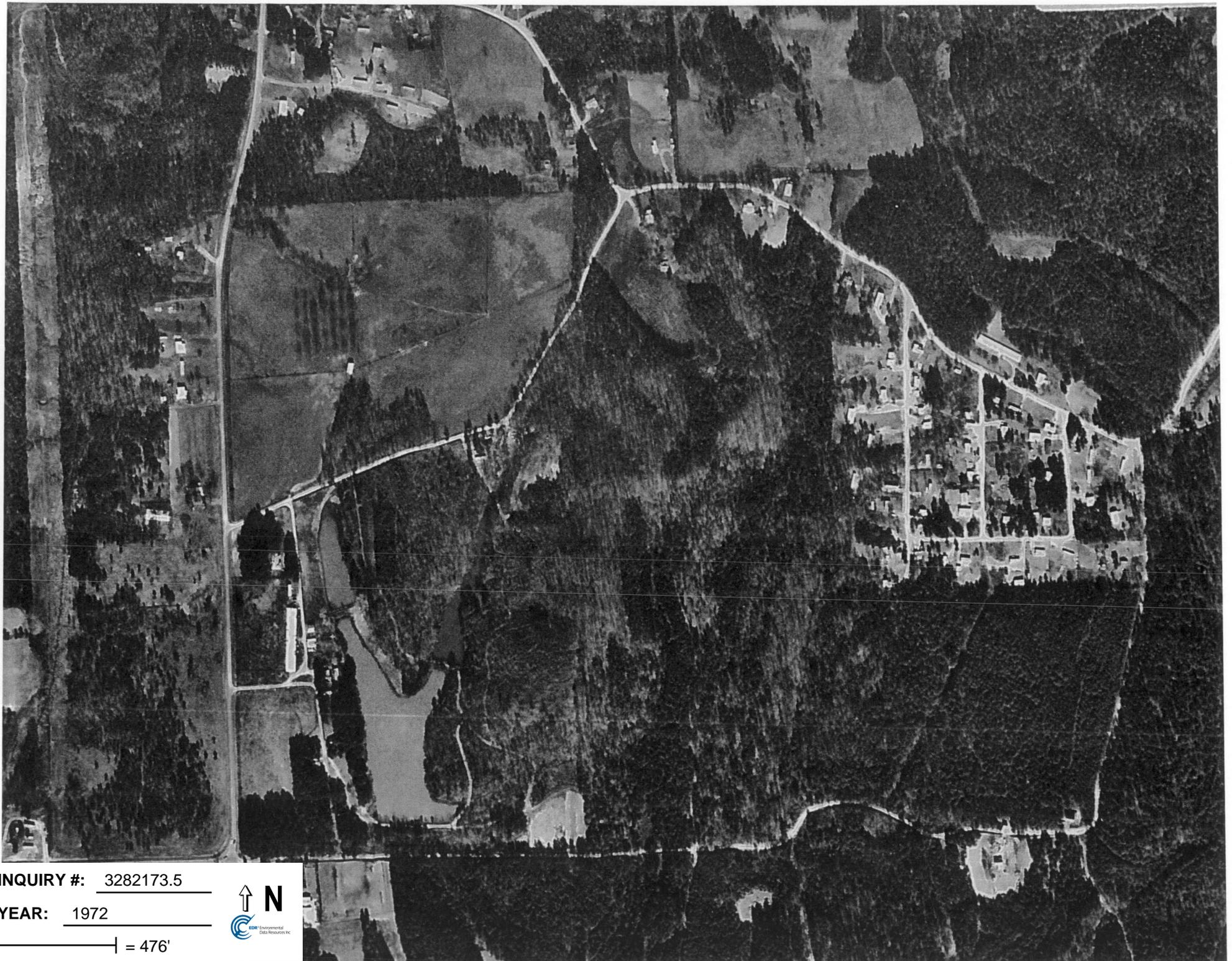


**INQUIRY #:** 3282173.5

**YEAR:** 1988

 = 950'



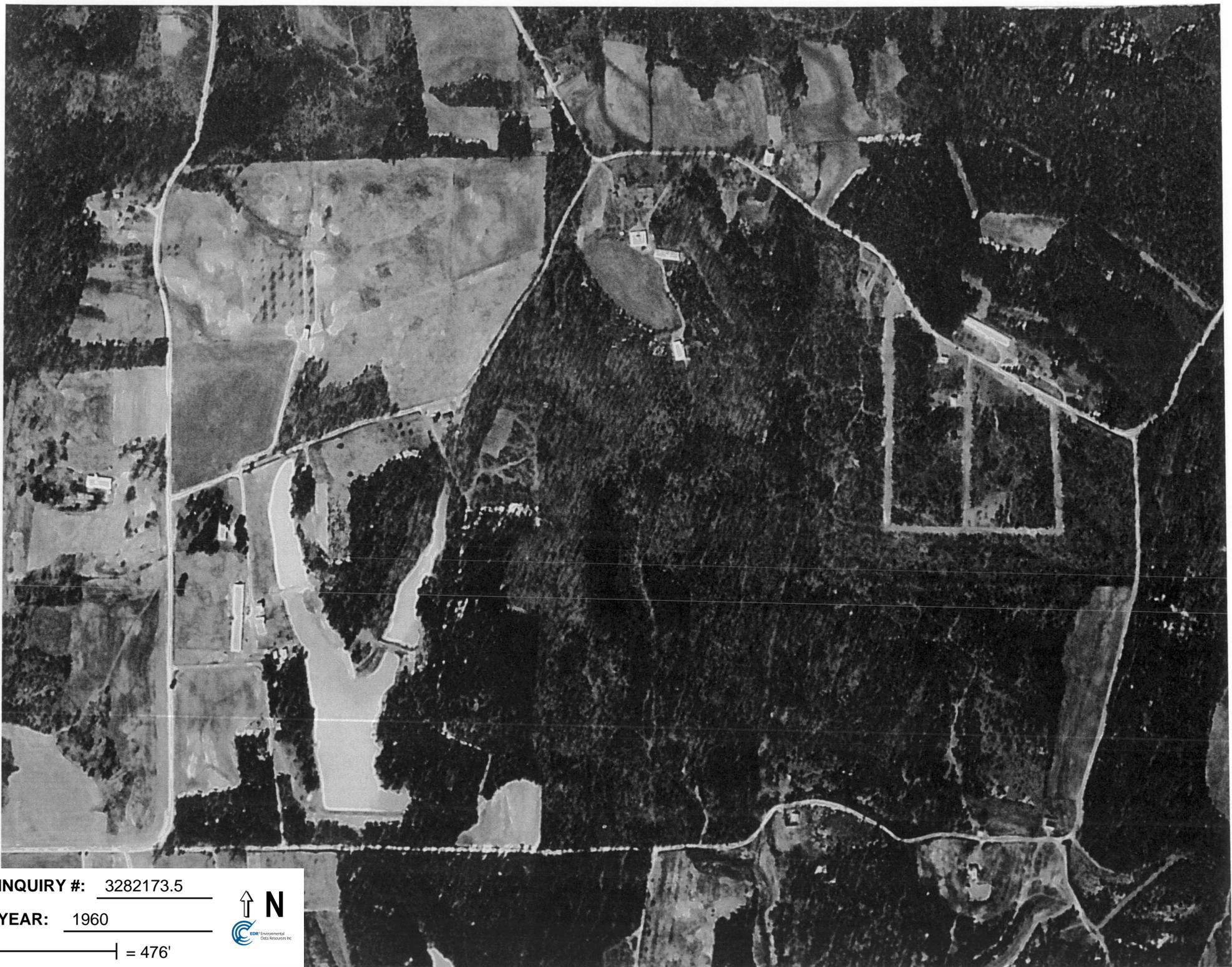


INQUIRY #: 3282173.5

YEAR: 1972

| = 476'





INQUIRY #: 3282173.5

YEAR: 1960

| = 476'



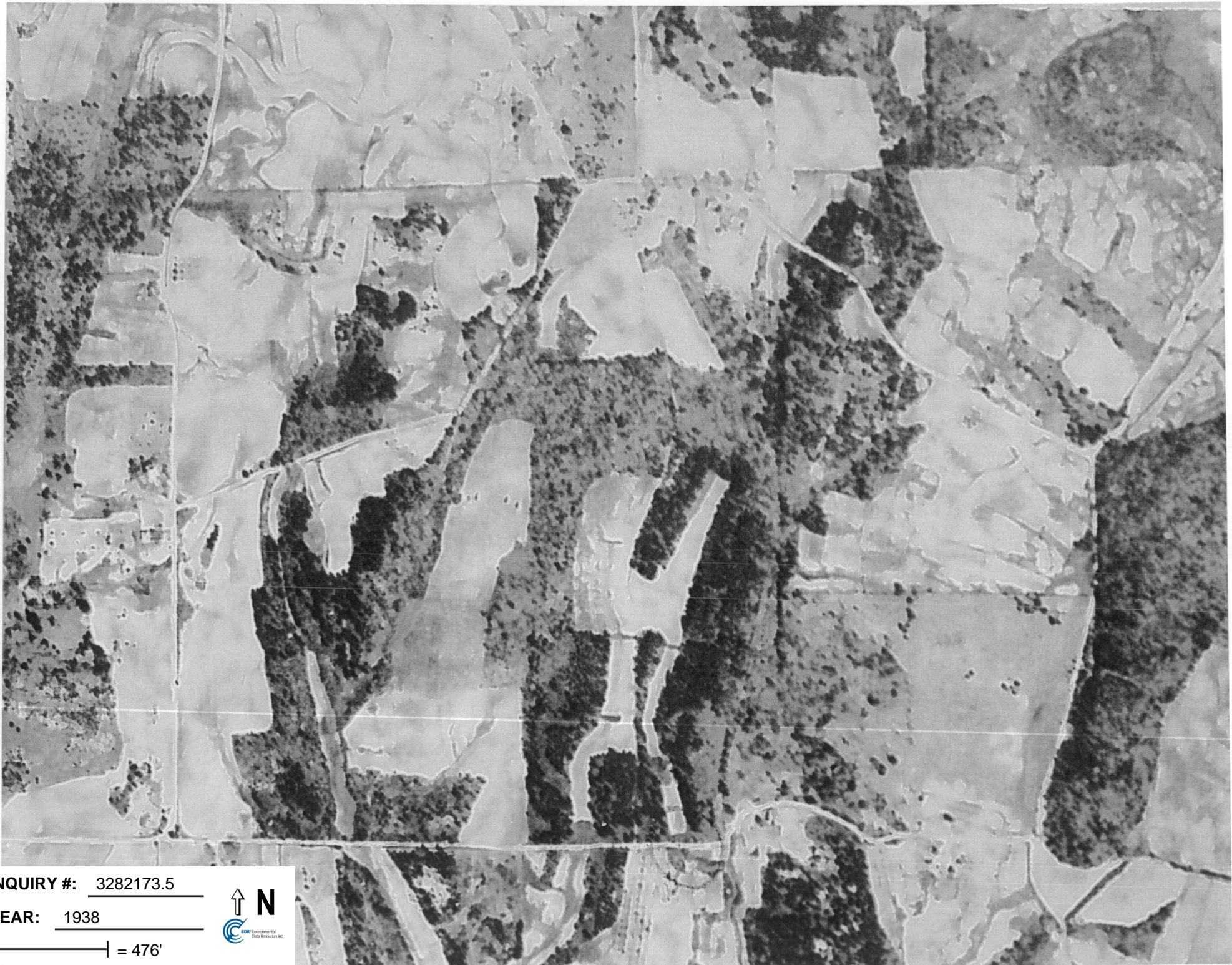


**INQUIRY #:** 3282173.5

**YEAR:** 1950

 = 476'





**INQUIRY #:** 3282173.5

**YEAR:** 1938

 = 476'



## **APPENDIX D: USER QUESTIONNAIRES**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
ENVIRONMENTAL QUESTIONNAIRE**

**AMEC Environment & Infrastructure, Inc.**

**Introduction:**

In order to comply with ASTM E 1527-05 and with the Standard for All Appropriate Inquiries issued by the United States Environmental Protection Agency as set forth in the 40 CFR 312, the user, who is defined below, must provide the information that is requested below to the AMEC Environmental Professional. If the user fails to provide this information, a court could determine that the All Appropriate Inquiry was not complete.

User is defined as the party seeking to use ASTM E 1527-05 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations as outlined in Section 6 of ASTM E 1527-05. The User will normally be AMEC's Client.

The User can obtain a copy of ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* at the ASTM web site <http://www.astm.org/>.

In any case where the questionnaire requests an explanation or the User believes that additional information is appropriate, please provide all relevant information on an attached sheet and identify the question to which the information pertains.

**Site Information:** \_\_\_\_\_

**1. Environmental cleanup liens that are filed or recorded against the site (CFR 312.25)**

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? \_\_\_yes or \_\_\_no If yes, please explain.

**2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)**

Are you aware of any activity and use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? \_\_\_yes or \_\_\_no If yes, please explain.

**3. Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28)**

As the user of this Phase I, do you have any specialized knowledge or experience related to the property or nearby properties? \_\_\_yes or \_\_\_no If yes, please explain.

Are you involved in the same line or business as the current or former occupants of the property or an adjoining so that you would have specialized knowledge of the chemicals and processes used by the type of business? \_\_\_yes or \_\_\_no If yes, please explain.

**4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? \_\_\_yes or \_\_\_no

If you concluded that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? \_\_\_yes or \_\_\_no If yes, please explain.

**5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of a release or threatened release? \_\_\_yes or \_\_\_no For example, as user:

- Do you know the past uses of the property? \_\_\_yes or \_\_\_no If yes, please explain.
  
- Do you know of specific chemicals that are present or once were present at the property? \_\_\_yes or \_\_\_no If yes, please explain.
  
- Do you know of spills or other chemical releases that have taken place at the property? \_\_\_yes or \_\_\_no If yes, please explain.
  
- Do you know of any environmental cleanups that have taken place at the property? \_\_\_yes or \_\_\_no If yes, please explain.

**6. The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**

As the user of this Phase I, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? \_\_\_yes or \_\_\_no If yes, please explain.

\_\_\_\_\_  
Signed/Date

\_\_\_\_\_  
Printed Name

**Please Circle One**

Property Owner; Former Property Owner; Potential Buyer of Property; Real Estate

Agent; Other (if other, please explain)

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## **APPENDIX E: PERSONNEL QUALIFICATIONS**



Jeffery A. Moore, P.G.  
Senior Geologist

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## **EDUCATION**

Bachelor of Science in Geology, 1995 (Washington & Lee University)

## **PROFESSIONAL REGISTRATIONS**

Professional Geologist in Georgia, North Carolina, Kentucky, and Virginia

## **CAREER SUMMARY**

Mr. Moore is a geologist with sixteen years of experience as a manager and geologist for numerous municipal and industrial solid waste, petroleum and hazardous waste site investigations, hydrogeologic site investigations, contamination assessments, remedial facility investigations, assessments of corrective measures, hazardous and municipal solid waste site investigations, and groundwater remediation sites.

He has conducted over one hundred Phase I and II ESAs for industrial manufacturing and commercial facilities, residential developments, and undeveloped parcels in conformance with American Society for Testing and Materials (ASTM) standards and commercial lending guidelines, including NEPA documents, Transaction Screens, Condition Surveys, and Environmental Impact Studies.

**DAVID E. SMOAK, P.G.**  
**Principal Geologist / Project Manager**

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**CAREER SUMMARY**

Mr. Smoak is a hydrogeologist with over 25 years of successful environmental consulting experience working as a client advocate with expertise in hydrogeology, contamination assessment and site remediation at sites throughout Alabama, Florida, Georgia and Tennessee and South Carolina. In 1982, Mr. Smoak began his career as a hydrogeologist for a water resources/groundwater supply consulting firm in Southwest Florida where he supervised many deep drilling projects for water supply development/augmentation and injection studies, as well as design and implementation of groundwater monitoring plans for industry and contamination assessments. In 1985, Mr. Smoak joined Environmental Science and Engineering, Inc. (now MACTEC Engineering and Consulting, Inc.) and within two years assumed management of the Hydrogeology Department overseeing a variety of projects including industrial assessment and remediation, landfill assessment and closures, and Phase I/II Environmental Site Assessments. In 1990, Mr. Smoak joined a small construction/water treatment company to expand services into environmental and geoscience market, resulting in company growth, building a new facility and opening two branch offices. In 1993, Mr. Smoak rejoined ESE (now MACTEC), as the Hydrogeology Department Manager and was also appointed interim office manager prior to relocating to the Atlanta area in 1995, where he has continued as a Principal/ Project Manager providing consulting expertise to commercial and industrial clients for a wide diversity of environmental and hydrogeologic issues.

Based on these experiences, Mr. Smoak has extensive hydrogeologic expertise in both ground-water contamination and water-resources investigations. His experience includes design and installation of ground-water monitoring and recovery systems; in-situ thermal remediation, chemical oxidation, geophysical logging; soil and ground-water sampling; contaminant migration investigations; environmental site assessments; RCRA Facility Investigations; Remedial Investigations; Active and Closed Landfill Investigations; Georgia Hazardous Site Response Act investigations; site remediation evaluation; project management; data evaluation; and report preparation.

**EDUCATION**

B.S., Geology, Florida Atlantic University, 1982

**LICENSES/REGISTRATIONS/CERTIFICATIONS**

Professional Geologist, Alabama No. 204  
Professional Geologist; Florida No. 752  
Professional Geologist; Georgia No. 1314  
Professional Geologist; Tennessee No. 2461

**REPRESENTATIVE PROJECT EXPERIENCE**

*Project Manager, Southwire Company, Former Offsite Disposal/Remediation Site on Georgia Hazardous Sites Inventory (HSRA), Carrollton, Georgia*

*David E. Smoak, P.G.*

Provided management and technical oversight for assessment activities of 76-acre parcel and 1,400 foot drainage creek extending through a residential area. Studies were designed to characterize and delineate metals impacts to soils, sediment and surface water. Over 200 soil samples were collected from 63 direct-push boring locations. 26 sediment and 4 surface water samples were collected from 13 drainage creek locations. The project included a statistical background study, human health and ecological risk assessment and evaluation of potential remedial alternatives.

*Principal Hydrogeologist/Site Manager, In-Situ Electrical Resistance Heating, Confidential Client, Adhesives Manufacturing Plant, Cartersville, GA*

Responsible for site investigation and remediation activities at a former adhesives manufacturing plant that was listed as a State Superfund (GA HSRA) site. Following settlement of litigation, site operations were transferred to another facility and further assessment and remediation alternatives were completed. Site assessment activities included over fifty soil borings, installation of 30 monitoring wells, over forty geoprobe borings and temporary monitoring wells. Major site contaminants exceeding clean-up criteria included methylene chloride, tetrachloroethylene, trichloroethylene, bromochloromethane. The primary source area was the floor drain system inside the facility. The remediation area included approximately 12,000 cubic yards with contaminated soil and groundwater extending from surface to 30 feet below ground surface. A remedial alternatives evaluation resulted in selection of in-situ electrical resistance heating (ERH) as the most cost-effective remedy. A corrective action plan was submitted and approved by the state. A bid scope and ERH contractor selection criteria were developed. Site remediation was implemented using 56 electrodes of three designs with co-located soil vapor extraction wells, an ERH power control unit designed to deliver 75 to 300 volts to each electrode, drip line irrigation to maintain moisture around the electrodes, liquid phase carbon treatment, a vapor recovery system including a 40-hp blower, condenser, cooling tower and vapor phase carbon. After four months of operation, the ERH confirmation sampling indicated over 99% reduction in soil samples with all achieving risk reduction standards. Over 1,800 pounds of contaminant mass were removed during the ERH remediation. Following a short monitoring period, groundwater contaminant reductions of over 95% were achieved with all three of five source area monitoring wells meeting closure standards. Supplemental vertical assessment was performed indicating residual contaminant mass extending to 70 ft-bgs in a portion of the former source area. A supplemental deep sapolite thermal phase consisting of 15 additional electrodes was installed and is currently operating. The ERH remedy realized approximately one-million dollars in cost savings compared to a guaranteed prior remediation option using in-situ chemical oxidation and bioremediation. The site is currently undergoing confirmation sampling to evaluate compliance with residential cleanup standards.

*Task Manager/Principal Geologist, Southwire Facility RCRA Compliance, Carrollton, Georgia*  
Responsible for RCRA facility investigations at one plasticizer tank farm Solid Waste Management Unit (SWMU), three areas of concerns including a metals impacted groundwater seep, historic cathode production facility and a groundwater mercury impacted area, and technical oversight of monitoring and remediation at a 15 million gallon wastewater Hazardous Waste Management Unit (HWMU). Site investigations have included soil and groundwater sampling from dozens of direct-push borings and temporary wells, over twenty new monitoring wells installed by hollow-stem augering and sonic drilling techniques and ongoing groundwater sampling from over 40 pre-existing monitoring wells. Remediation effectiveness is evaluated for the existing groundwater recovery and interceptor trench systems.

*Project Principal, Allene Avenue, former ESB Lead-Acid Battery Manufacturing Plant Investigation*

*David E. Smoak, P.G.*

Responsible for technical oversight and quality for groundwater investigation at former ESB, Inc. State Superfund site, where lead-acid automobile batteries were manufactured. Included installation of 6 groundwater monitoring wells, soil sampling, soil geotechnical analysis, aquifer slug testing, well surveying, removal of 57 drums of nonhazardous investigation-derived waste (IDW) (e.g., purge water), and quarterly sampling of 10 wells and reporting. Investigation conducted to evaluate leaching of shallow lead impacts to groundwater and potentially save client cost of deeper soil/groundwater remediation.

*Project Manager/Task Manager, Principal, Phase I and II Due Diligence/Site Assessment Audits, Confidential Clients*

Client Coordinator and technical director; Supervised data acquisition, field assessment and reporting activities to complete environmental site assessments at over 50 properties including warehouse/business complexes, manufacturing facilities, a banking communications center office, a hydraulics equipment manufacturing/testing facility, shopping plazas, an electronics manufacturing/repair facility, former petroleum service stations, poultry portfolio, undeveloped properties and transportation companies. Project tasks were performed to meet or exceed "due diligence" and "all appropriate inquiry" criteria for lending institutions and in accordance with ASTM E1527 and E1528. Tasks included review of site history, review of permit and enforcement history, one-quarter to one-half mile survey of offsite businesses and water use, site walk-through, limited on site assessment/sampling, review and compilation of information on topography, geology, surface and groundwater hydrology, and preparation and review of final site assessment/audit reports.

*Principal Hydrogeologist/Technical Advisor, Specifications Development for In-Situ Electrical Resistance Heating, Former Dry Cleaner Site, Owosso, Michigan*

Provided technical assistance in preparation of design specifications for State of Michigan RFP for guarantee remediation project using in-situ thermal technology for subsurface chlorinated solvent impacts from historic dry cleaning operation. The project is complex involving interior and exterior treatment of adjoining buildings with one of the buildings (restaurant) to remain occupied during remediation. Specification package was designed to provide a level bidding process for qualified contractors. MACTEC will evaluate bids and provide oversight of the thermal implementation following award by the State.

*Project Manager: DSM Chemicals North America, Inc. RCRA Consulting Services, Augusta, Georgia.*

Took over project management in May 2006. Responsible for project oversight, evaluation and quality services including ongoing RFI investigation, long-term semiannual groundwater monitoring and corrective action effectiveness monitoring for two SWMAs. Site monitoring network includes over 60 Type 2/3 monitoring wells completed to depths ranging from 20 to 100 ft bgs. Site contaminants include Benzene and chlorinated solvents. Additional interim corrective actions are under evaluation for control of offsite migration of TCE. Forensic evaluation of co-mingled plumes and potential upgradient responsible parties, regulatory coordination, project scoping, costing and financial management. One SWMA remediation system includes a 250-foot-long horizontal well for ground water recovery and plume containment. A second system includes multi-phase extraction and air sparging using 11 air sparge and 11 SVE wells for remediating benzene impacts

*Principal Hydrogeologist/Project Manager, Assessment and Remediation, Big Escambia Creek Gas Plant, Atmore, AL*

Managed environmental contamination issues since 1988 at a large natural gas plant located in south Alabama. Successful in maintaining client relationships through ownership changes that

*David E. Smoak, P.G.*

included ExxonMobil, Vintage Petroleum (now Occidental Petroleum) and currently Escambia Operating Company owned by Eagle Rock Energy Partners. Managed several site investigation phases and groundwater monitoring program to evaluate source area hydrocarbon trends and migration patterns in the subsurface groundwater and soils. Upper aquifer impacts have migrated into the lower (80-120 ft) aquifer due to discontinuity in the intermediate clay aquitard. Assessment activities included CPT using induced fluorescence (IF) screening for product, soil gas surveys, geoprobe sampling and installation of over 50 monitoring wells by hollow stem auger, mud rotary and sonic drilling methods. Involved with agency negotiations to reduce the frequency and number of monitoring wells required for semiannual monitoring. Offsite private property wells were abandoned. Directed field testing and prepared an interim corrective action plan to mitigate offsite migration in the lower (100-foot) aquifer using groundwater extraction to establish hydraulic barrier. Installed groundwater recover and treatment system including six recovery wells, treatment system (low profile air stripper, iron treatment, clarifier and sand filters) with iron sludge drying bed and surface discharge under an NPDES general permit.

*Principal Hydrogeologist/Multi-Task Manager, Assessment / Remediation, Confidential Client, Chemical Manufacturer, Tucker, GA*

Managed assessment, pilot study, and design of a 45-well air sparging and soil vapor extraction system for in-situ groundwater and soil treatment of chlorinated solvent contamination. On-site assessment included source area Geoprobe investigation, variable interval low flow sampling of existing 20-well network, hydraulic conductivity testing, installation and sampling of three vertical assessment bedrock wells. Extensive coordination was required to install the system concurrently with a warehouse expansion of the facility. Offsite assessment activities included site access negotiation, geoprobe sampling/screening, installation of two vertical assessment bedrock wells and five lateral assessment monitor wells. A pilot study was performed to assess innovative in-well air sparging effectiveness for active remediation of the offsite contaminant plume. Additionally, a bench scale study is being performed to evaluate a permeable reactive barrier approach for passive downgradient plume control.

*Principal Hydrogeologist, State Hazardous Waste Site (GA HSRA) Assessment and Remediation, Confidential Client, Manufacturer of Chemical Lubricants, Cleaners and Products for the Electronics Industry, Kennesaw, Georgia*

Directed and provided technical oversight of Phase II subsurface investigation to determine source and extent of chlorinated solvent impacts. Assessment tasks performed included preliminary geoprobe sampling of soil and groundwater at 20 locations, installation and sampling of ten monitor wells, geotechnical testing, and report preparation. Coordination and oversight of self-directed cleanup of isolated area using Enhanced Fluid Vapor Recovery technology. Provided technical support and coordination for air sparge pilot study and system design. Management oversight for the installation and expansion of an air sparge/soil vapor extraction system consisting of 16 pairs of injection and extraction wells, compressor, liquid ring blower, knock-out tank, liquid and vapor phase carbon, and an in-situ diffused aeration extraction well. Managed operation/maintenance and monitoring of the system from 2001 through 2006. Additional site remediation included excavation of 500 tons of contaminated soil and replacement of facility underground piping and underground process waste water and fire suppression water tanks. Site remediation has achieved targeted soil and groundwater alternative clean-up levels and has moved from active remediation to post-remediation monitoring.

*Project Manager, State Hazardous Waste Site (GA HSRA) Assessment and Remediation, Metals Heat Treating Facility, Confidential Client, Conyers, Georgia*

*David E. Smoak, P.G.*

Directed and provided technical oversight of subsurface investigation to determine source and extent of chlorinated solvent contamination (PCE and degradation compounds) discovered during an earlier environmental site assessment. Field tasks performed included a soil gas survey, geoprobe borings/sampling, hand auger borings/sampling, drainfield delineation, sump/piping evaluation and monitor well installation. The investigation indicated source impact from the facility's septic drainfield and former solvent dip tank. Supplemental offsite assessment work required DOT permitting and adjacent property access agreements to install delineation monitor wells which indicated offsite groundwater plume migration to four offsite properties. Prepared a site assessment/conceptual remediation report, SVE pilot study report and SVE design. Performed an SVE pilot study to design a full scale SVE system for source soil remediation. Managed SVE System Installation consisting of two vapor extraction wells, 7.5 hp vacuum blower and carbon treatment for emissions. Source soil impacts were remediated to meet residential standards in 18 months. Downgradient groundwater monitoring indicated 20% to 75% reductions in VOCs during SVE implementation. A Compliance Status Report and Corrective Action Plan were submitted to GAEPD under requirements of the Hazardous Sites Response Act. The long-term plan for the site is to complete groundwater remediation using airsparging/SVE and offsite monitored natural attenuation.

*Sr. Hydrogeologist/Task Manager, RCRA Corrective Measures Study, Alabama State Docks, Mobile, Alabama*

Designed and performed post-RFI investigation to support proposed remediation of creosote contamination from a former wood-treating site. The investigation included conducting 56 geoprobe borings to an average depth of 20 feet to determine clay depth and thickness, DNAPL thickness and mobility. The study was designed to evaluate the engineering feasibility of installing a series of recovery trenches system as part of the CMS. Prepared hydrogeologic sections of the CMS.

*Sr. Hydrogeologist, RCRA Corrective Measures Modification, Alabama State Docks, Mobile, Alabama*

Responsible for preparation of hydrogeologic components of a Corrective Measures Modification Plan to provide further DNAPL delineation and recovery upon a 100-foot-deep regional confining layer. The current DNAPL recovery system was upgraded following completion of eight deep DNAPL investigation borings by installing two additional deep recovery wells and upgraded pumps.

*Sr. Hydrogeologist/Task Manager, RCRA RFI, Alabama State Docks, Mobile, Alabama*

Responsible for implementing subsurface investigation tasks of a Phase II RFI Work Plan for a former 90-year operating wood treating site. Tasks included a well integrity/DNAPL survey of 53 existing monitor wells, installation of seven additional double-cased monitor wells to depths ranging from 55 to 105 feet, eight CPT borings including downhole electrical logging and sampling to depths of 100 to 120 feet to assess downward vertical migration of DNAPL, and coordination/oversight of 14 additional investigation borings to depths of 25 to 80 feet using continuous split spoon sampling to evaluate DNAPL presence. Responsible for data evaluation and report preparation for Phase II RFI report.

*Project Manager/Task Manager, Petroleum UST Assessment and Remediation, Multiple Clients, Florida/Georgia*

Mr. Smoak has managed and supervised the removal, replacement and closure of numerous underground storage tanks, and has assisted clients with preparation and execution of underground storage tank monitoring plans. During the late 1980's and through the 1990's, Mr. Smoak managed County Administered assessment and remedation contracts with Lee County and Collier County, Florida. Additionally, Mr. Smoak managed numerous site assessment and

*David E. Smoak, P.G.*

remediation projects for petroleum release sites owned by Texaco, Chevron, ExxonMobil and Shell Oil Company. Mr. Smoak has prepared and reviewed CAP – Part A and CAP – Part B applications for the United States Postal Service, Old Dominion Freight Lines and Consolidated Freightways/Conway Southern under the Georgia UST program.

*Project Manager, EPA Emergency Response, Follow-up Assessment, American Thread Fire Site, Mitchell & Mitchell, PC, Dalton, Georgia*

Prepared work plan under CERCLIS directive to assess impacts to a 4-foot soil cover layer used in an EPA emergency response action to reduce smoke emissions from a 250,000 sq. ft warehouse fire. Subsurface smoldering persisted for over a year. Conducted a geophysical investigation to evaluate subsurface voids and collapse prone areas. Cover soil sampling was performed at eighteen locations with two samples collected at each location. The site was in a residential area and had media attention. A removal action was completed to remove 1200 tons of soil and associated construction debris from three areas which exceeded residential risk-based exposure limits and State notification criteria. The site received a CERCLA No Further Action Status.

**APPENDIX C**  
**SOIL SAMPING RESULTS**

**C-1**

**Table III, Soil Analytical Results Summary (1995; Dobbs Env.)**

TABLE III (1 of 5)  
 SOIL ANALYTICAL RESULTS SUMMARY (1995)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

Constituent	S-1A 2.5' (1-24-95)	S-1B 6' (1-24-95)	S-1C 9' (1-24-95)	S-2A 3' (1-24-95)	S-2B 6' (1-24-95)
acetone	1,400	< 650	48	86	< 12
2-butanone	1,200	890	12	430	< 12
carbon disulfide	< 1,200	< 650	< 12	< 12	< 12
carbon tetrachloride	13,000	2,300	7.5J	110	190
chloroform	< 1,200	< 650	< 12	< 59	< 12
chloromethane	< 1,200	< 650	< 12	< 59	< 12
1,1-dichloroethane	2,200	140J	< 12	67	60
1,2-dichloroethane	< 1,200	< 650	< 12	110	100
1,1-dichloroethene	2,700	470J	4.1J	1,400	120
ethylbenzene	290J	< 650	< 12	< 12	< 12
methylene chloride	240,000B	12,000B	370B	34BJ	9.6BJ
4-methyl-2-pentanone	750J	< 650	< 12	< 12	< 12
styrene	< 1,200	< 650	< 12	< 12	< 12
tetrachloroethene	440,000	9,200	150	7.5J	1.5J
toluene	9,200	370J	4.3J	< 12	< 12
1,1,1-trichloroethane	760,000	16,000	49	710	1,200
1,1,2-trichloroethane	< 1,200	< 650	< 12	< 12	2J
trichloroethene	5,800	210J	2.3J	16	< 12
xylene (total)	1,400	< 650	< 12	< 12	< 12

All concentrations are in micrograms per kilogram or ppb.

J = Estimated value (less than PQL but greater than zero)

B = Analyte found in blank

TABLE III (2 of 5)  
 SOIL ANALYTICAL RESULTS SUMMARY (1995)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

Constituent	S-3 3' (1-24-95)	S-4 2.5' (1-24-95)	PS-1 (2-06-95)	S-1C 18'-20' (2-06-95)	S-2C 18'-20' (2-06-95)
acetone	<12	22	37	48	16
2-butanone	<12	<13	<13	12	<12
carbon disulfide	<12	<13	<13	<12	<12
carbon tetrachloride	<12	35	<13	7.5J	7.9J
chloroform	<12	<13	<13	<12	<12
chloromethane	<12	<13	<13	<12	<12
1,1-dichloroethane	9.1J	<13	<13	<12	5.3J
1,2-dichloroethane	<12	13	<13	<12	2.5
1,1-dichloroethene	<12	10J	<13	4.1J	6.2
ethylbenzene	<12	<13	<13	<12	<12
methylene chloride	8.9BJ	8.4BJ	4.1BJ	370B	370B
4-methyl-2-pentanone	<12	<13	<13	<12	<12
styrene	<12	9.7J	<13	<12	<12
tetrachloroethene	<12	100	<13	150	12
toluene	<12	<13	<13	4.3J	<12
1,1,1-trichloroethane	4.9J	220	<13	49	52
1,1,2-trichloroethane	<12	<13	<13	<12	<12
trichloroethene	1.6J	<13	<13	2.3J	<12
xylene (total)	<12	<13	<13	<12	<12

All concentrations are in micrograms per kilogram or ppb.

J = Estimated value (less than PQL but greater than zero)

B = Analyte found in blank

TABLE III (3 of 5)  
 SOIL ANALYTICAL RESULTS SUMMARY (1995)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

Constituent	S-3G 35'-40' (2-06-99)	SB-4 15' (2-21-95)	SB-4 35' (2-21-95)	SB-5 10' (2-22-95)	SB-5 15' (2-22-95)
acetone	13	230	<11	200	67
2-butanone	<11	36	<11	38	<12
carbon disulfide	<11	4.1J	<11	<14	<12
carbon tetrachloride	3.2J	<13	<11	<14	<12
chloroform	<11	<13	<11	<14	<12
chloromethane	<11	<13	<11	<14	<12
1,1-dichloroethane	2.5J	<13	7.7J	<14	<12
1,2-dichloroethane	<11	<13	3.9J	<14	<12
1,1-dichloroethene	5.3J	<13	8.7J	<14	<12
ethylbenzene	<11	<13	<11	<14	<12
methylene chloride	370B	16B	18B	26B	20B
4-methyl-2-pentanone	<11	<13	<11	<14	<12
styrene	<11	<13	<11	<14	<12
tetrachloroethene	1.8J	<13	<11	<14	<12
toluene	<11	<13	<11	25	3.6J
1,1,1-trichloroethane	21	13	170	7.5J	4.9J
1,1,2-trichloroethane	<11	<13	<11	<14	<12
trichloroethene	<11	<13	<11	6.9J	<12
xylene (total)	<11	, 13	<11	<14	<12

All concentrations are in micrograms per kilogram or ppb.  
 J = Estimated value (less than PQL but greater than zero)  
 B = Analyte found in blank

TABLE III (4 of 5)  
 SOIL ANALYTICAL RESULTS SUMMARY (1995)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

Constituent	SB-6 15'	SB-6 25'	SB-7 8'-10'	SB-7 20'
acetone	< 13	< 12	49	< 12
2-butanone	< 13	< 12	< 12	< 12
carbon disulfide	< 13	< 12	< 12	< 12
carbon tetrachloride	< 13	< 12	< 12	< 12
chloroform	< 13	< 12	< 12	< 12
chloromethane	< 13	< 12	< 12	< 12
1,1-dichloroethane	4.9J	< 12	< 12	< 12
1,2-dichloroethane	< 13	< 12	< 12	< 12
1,1-dichloroethene	< 13	< 12	< 12	< 12
ethylbenzene	< 13	< 12	< 12	< 12
methylene chloride	21B	19B	19B	19B
4-methyl-2-pentanone	< 13	< 12	< 12	< 12
styrene	< 13	< 12	< 12	< 12
tetrachloroethene	3.7J	< 12	< 12	< 12
toluene	< 13	< 12	< 12	< 12
1,1,1-trichloroethane	4.4J	3J	< 12	1.9J
1,1,2-trichloroethane	< 13	< 12	< 12	< 12
trichloroethene	< 13	< 12	< 12	< 12
xylene (total)	< 13	< 12	< 12	< 12

All concentrations are in micrograms per kilogram or ppb.  
 J = Estimated value (less than PQL but greater than zero)  
 B = Analyte found in blank

TABLE III (5 of 5)  
 SOIL ANALYTICAL RESULTS SUMMARY (1995)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

Constituent	SB-8 3.5'-5' (3-29-95)	SB-8 8.5'-10' (3-29-95)	SB-9 13.5'-15' (3-29-95)	SB-9 23.5'-25 (3-29-95)
acetone	<5	<5	<5	<5
2-butanone	<5	<5	<5	<5
carbon disulfide	<5	<5	<5	<5
carbon tetrachloride	<5	<5	<5	<5
chloroform	<5	<5	<5	<5
chloromethane	<5	<5	<5	<5
1,1-dichloroethane	<5	<5	<5	<5
1,2-dichloroethane	<5	<5	<5	<5
1,1-dichloroethene	<5	<5	<5	<5
ethylbenzene	<5	<5	<5	<5
methylene chloride	<5	<5	<5	<5
4-methyl-2-pentanone	<5	<5	<5	<5
styrene	<5	<5	<5	<5
tetrachloroethene	<5	<5	<5	<5
toluene	<5	<5	<5	<5
1,1,1-trichloroethane	<5	<5	<5	<5
1,1,2-trichloroethane	<5	<5	<5	<5
trichloroethene	<5	<5	<5	<5
xylene (total)	<5	<5	<5	<5

All concentrations are in micrograms per kilogram or ppb.  
 J = Estimated value (less than PQL but greater than zero)  
 B = Analyte found in blank

**C-2**

**Table 5, Summary of Soil Concentrations (2001-2002; Arcadis)**

Table 5  
Summary of Soil Concentrations  
AMC International  
Dalton, Whitfield County, Georgia  
HSI No. 10405

Sample ID	Depth (feet)	Date Collected	Collected By	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Total 1,2-Dichloroethene	Chloroform	Carbon Tetrachloride	Benzene	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	Xylenes, Total	m&p-Xylene	o-Xylene	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Naphthalene
AMC-1 (EPD)	0.0	6/26/01	EPD	Trace	ND	ND	ND	ND	NA	ND	ND	ND	ND	1.8	4.1	210	NA	610	120	4.9	ND	Trace
AMC-1	0.0	6/26/01	Dobbs Env.	10 E	<0.0044	<0.044	NA	NA	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	4.7 E	42.0	280 E	82 E	NA	NA	NA	<0.0044	NA
AMC-2 (EPD)	0.0	6/26/01	EPD	Trace	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	1.8	68	4.9	NA	16	3.8	Trace	<1.0	ND
AMC-2	0.0	6/26/01	Dobbs Env.	26	0.0076	<0.039	NA	NA	<0.0039	<0.0039	<0.0039	0.0047	<0.0039	110	1.1	0.49	2.30	NA	NA	NA	<0.0039	NA
AMC-2A	0.0	7/19/01	Dobbs Env.	5.00	<0.250	<2.50	NA	NA	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	1.70	ND	<0.250	NA	NA	NA	<0.250	NA
AMC-2A	1.0	7/19/01	Dobbs Env.	<9.80	<9.80	<98.0	NA	NA	<9.80	<9.80	<9.80	<9.80	<9.80	<9.80	220	<9.80	73.0	NA	NA	NA	<9.80	NA
AMC-3 (EPD)	0.0	6/26/01	EPD	<200,000	<1,000	<1,000	<1,000	<1,000	NA	<1,000	<1,000	<1,000	<1,000	<1,000	12,000	<1,000	NA	<1,000	<1,000	<1,000	<1,000	<1,000
AMC-3	0.0	6/26/01	Dobbs Env.	19 E	0.0240	<0.054	NA	NA	<0.0054	<0.0054	<0.0054	0.0073	0.07	0.052	3,500	2.1 E	7.2 E	NA	NA	NA	<0.0054	NA
AMC-3A	0.0	7/19/01	Dobbs Env.	<5.00	<5.00	<50.0	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	120	<5.00	<5.00	NA	NA	NA	<5.00	NA
AMC-3A	1.0	7/19/01	Dobbs Env.	<250	<250	<2,500	NA	NA	<250	<250	<250	<250	<250	<250	11,000	<250	<250	NA	NA	NA	<250	NA
AMC-4 (EPD)	0.0	6/26/01	EPD	<200,000	<1,000	<1,000	<1,000	<1,000	NA	<1,000	<1,000	<1,000	<1,000	<1,000	16,000	<1,000	NA	<1,000	<1,000	<1,000	<1,000	<1,000
AMC-4	0.0	6/26/01	Dobbs Env.	2.5	0.350	1.7	NA	NA	<0.0038	<0.0038	<0.0038	<0.0038	0.390	0.280	2,300	1.90	6.50	NA	NA	NA	0.350	NA
AMC-4A	0.0	7/19/01	Dobbs Env.	<5.00	<5.00	<50.0	NA	NA	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	140	<5.00	<5.00	NA	NA	NA	<5.00	NA
AMC-4A	1.0	7/19/01	Dobbs Env.	<25.0	<25.0	<250	NA	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,700	<25.0	<25.0	NA	NA	NA	<25.0	NA
AMC-5	0.0	7/19/01	Dobbs Env.	<25.0	<25.0	<250	NA	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,600	<25.0	<25.0	NA	NA	NA	<25.0	NA
AMC-6	0.0	7/19/01	Dobbs Env.	<250	<250	<2,500	NA	NA	<250	<250	<250	<250	<250	<250	15,000	<250	<250	NA	NA	NA	<250	NA
HA-1	0.75	9/12/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-2	0.75	9/12/01	ARCADIS	NA	<0.005	0.011	<0.005	<0.005	NA	<0.005	<0.005	<0.005	0.007	<0.005	1.37	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-2	2.0	9/12/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.156	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-11	1.5	9/12/01	ARCADIS	NA	<0.005	0.032	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	8.52	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-12	1.0	9/12/01	ARCADIS	NA	<0.005	0.014	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	13.1	<0.005	NA	<0.010	<0.005	<0.005	<0.005
HA-14	1.0	9/12/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	7.53	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-15A	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.906	NA	NA	NA	NA	NA	NA	NA
HA-16A	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.34	NA	NA	NA	NA	NA	NA	NA
HA-19	0.75	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.031	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-20	2.0	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.077	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-20	7.0	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	0.011	NA	<0.005	<0.005	<0.005	0.027	<0.005	2.40 E	0.011	NA	<0.010	0.015	<0.005	<0.005	<0.005
HA-20	8.0	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.237 E	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-21	1.0	9/13/01	ARCADIS	NA	<0.005	0.017	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	0.007	8.44 E	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-21	2.0	9/13/01	ARCADIS	NA	<0.005	0.059	<0.005	<0.005	NA	<0.005	<0.005	<0.005	0.012	0.016	10.4 E	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-21	3.0	9/13/01	ARCADIS	NA	<0.005	0.054	<0.005	<0.005	NA	<0.005	<0.005	<0.005	0.024	0.024	11.7 E	0.006	NA	<0.010	0.008	<0.005	<0.005	<0.005
HA-21	7.0	9/13/01	ARCADIS	NA	<0.005	0.064	<0.005	<0.005	NA	0.014	0.031	<0.005	0.150	0.075	15.0 E	0.024	NA	0.062	0.028	<0.005	<0.005	0.007
HA-21	15.5	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.68	NA	NA	NA	NA	NA	NA	NA
HA-21A	1.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	406	NA	NA	NA	NA	NA	NA	NA
HA-21A	2.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	820	NA	NA	NA	NA	NA	NA	NA
HA-21A	4.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	918	NA	NA	NA	NA	NA	NA	NA
HA-22A	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.325	NA	NA	NA	NA	NA	NA	NA
HA-23A	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.8	NA	NA	NA	NA	NA	NA	NA
HA-24	5.0	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.146	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-25	6.25	9/13/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.124	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-26	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.22	NA	NA	NA	NA	NA	NA	NA
HA-27	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,870	NA	NA	NA	NA	NA	NA	NA
HA-27A	2.0	10/11/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	2,880	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-27A	6.0	10/11/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	0.009	<0.005	0.032	<0.005	10,000	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-28	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	144	NA	NA	NA	NA	NA	NA	NA
HA-29	2.0	9/17/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.2	NA	NA	NA	NA	NA	NA	NA
HA-32	2.0	10/4/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA	NA
HA-33	2.0	10/4/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.028	NA	NA	NA	NA	NA	NA	NA
HA-35	2.0	10/4/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.863	NA	NA	NA	NA	NA	NA	NA
HA-36	2.0	10/4/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.039	NA	NA	NA	NA	NA	NA	NA
HA-37	2.0	10/4/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018	NA	NA	NA	NA	NA	NA	NA
HA-39	2.0	10/4/01	ARCADIS	NA																		

Table 5  
 Summary of Soil Concentrations  
 AMC International  
 Dalton, Whitfield County, Georgia  
 HSI No. 10405

Sample ID	Depth (feet)	Date Collected	Collected By	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Total 1,2-Dichloroethene	Chloroform	Carbon Tetrachloride	Benzene	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	Xylenes, Total	m&p-Xylene	o-Xylene	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Naphthalene
HA-41	2.0	10/11/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<b>0.012</b>	<0.005	<b>0.062</b>	<0.005	<b>7,800</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-41	6.0	10/11/01	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>62</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-41A	2.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.77</b>	NA	NA	NA	NA	NA	NA	NA
HA-41A	6.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.291</b>	NA	NA	NA	NA	NA	NA	NA
HA-41A	10.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.034</b>	NA	NA	NA	NA	NA	NA	NA
HA-42	1.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1438</b>	NA	NA	NA	NA	NA	NA	NA
HA-42	2.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1020</b>	NA	NA	NA	NA	NA	NA	NA
HA-42	4.0	10/11/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1495</b>	NA	NA	NA	NA	NA	NA	NA
HA-45	2.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>117</b>	NA	NA	NA	NA	NA	NA	NA
HA-45	4.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>6.71</b>	NA	NA	NA	NA	NA	NA	NA
HA-46	2.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>6.28</b>	NA	NA	NA	NA	NA	NA	NA
HA-46	6.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>4.57</b>	NA	NA	NA	NA	NA	NA	NA
HA-47	2.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.660</b>	NA	NA	NA	NA	NA	NA	NA
HA-47	6.0	1/10/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.288</b>	NA	NA	NA	NA	NA	NA	NA
HA-48	2.0	1/29/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>6.72</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-49	2.0	1/29/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-49	4.0	1/29/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-50	2.0	1/26/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-50	3.5	1/26/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-51	2.0	1/26/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>3.49</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-51	6.0	1/26/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.124</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-52	2.0	3/5/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-52	6.0	3/5/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-53	2.0	3/5/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-54	2.0	3/6/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.009</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-54	6.0	3/6/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<b>0.283E</b>	<b>1.62</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-55	2.0	3/6/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-55	6.0	3/6/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
HA-56	4.8	5/31/02	ARCADIS	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.015	<0.010	<0.005	<0.005	<0.005	<0.005
DP-1	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>32.8</b>	NA	NA	NA	NA	NA	NA	NA
DP-1	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.96</b>	NA	NA	NA	NA	NA	NA	NA
DP-1	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.57</b>	NA	NA	NA	NA	NA	NA	NA
DP-1	6.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1.20</b>	NA	NA	NA	NA	NA	NA	NA
DP-2	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>74.6</b>	NA	NA	NA	NA	NA	NA	NA
DP-2	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.80</b>	NA	NA	NA	NA	NA	NA	NA
DP-2	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.047</b>	NA	NA	NA	NA	NA	NA	NA
DP-4	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.30</b>	NA	NA	NA	NA	NA	NA	NA
DP-4	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>3.30</b>	NA	NA	NA	NA	NA	NA	NA
DP-4	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>3.00</b>	NA	NA	NA	NA	NA	NA	NA
DP-4	6.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.70</b>	NA	NA	NA	NA	NA	NA	NA
DP-4	8.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>874</b>	NA	NA	NA	NA	NA	NA	NA
DP-5	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>3.79</b>	NA	NA	NA	NA	NA	NA	NA
DP-5	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.17</b>	NA	NA	NA	NA	NA	NA	NA
DP-5	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>3.80</b>	NA	NA	NA	NA	NA	NA	NA
DP-5	6.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>715</b>	NA	NA	NA	NA	NA	NA	NA
DP-5	8.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1.39</b>	NA	NA	NA	NA	NA	NA	NA
DP-6	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.40</b>	NA	NA	NA	NA	NA	NA	NA
DP-6	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1.37</b>	NA	NA	NA	NA	NA	NA	NA
DP-6	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.50</b>	NA	NA	NA	NA	NA	NA	NA
DP-6	8.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>718</b>	NA	NA	NA	NA	NA	NA	NA
DP-7	1.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.61</b>	NA	NA	NA	NA	NA	NA	NA
DP-7	2.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1.98</b>	NA	NA	NA	NA	NA	NA	NA
DP-7	4.0	10/2/01	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1.24</b>	NA	NA	NA	NA	NA	NA	NA

Table 5  
 Summary of Soil Concentrations  
 AMC International  
 Dalton, Whitfield County, Georgia  
 HSI No. 10405

Sample ID	Depth (feet)	Date Collected	Collected By	Acetone	1,1-Dichloroethene	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Total 1,2-Dichloroethene	Chloroform	Carbon Tetrachloride	Benzene	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	Xylenes, Total	m&p-Xylene	o-Xylene	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Naphthalene
DP-9	1.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>18.3</b>	NA	NA	NA	NA	NA	NA	NA
DP-9	2.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>2.06</b>	NA	NA	NA	NA	NA	NA	NA
DP-9	4.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>58.0</b>	NA	NA	NA	NA	NA	NA	NA
DP-9	6.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>283</b>	NA	NA	NA	NA	NA	NA	NA
DP-10	1.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>1995</b>	NA	NA	NA	NA	NA	NA	NA
DP-10	2.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>3.20</b>	NA	NA	NA	NA	NA	NA	NA
DP-10	4.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>523</b>	NA	NA	NA	NA	NA	NA	NA
DP-10	6.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>11.4</b>	NA	NA	NA	NA	NA	NA	NA
DP-10	8.0	10/3/02	ARCADIS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>4.0</b>	NA	NA	NA	NA	NA	NA	NA
MW-13	2.0	1/23/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-13	4.5	1/23/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-14	2.0	1/23/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-14	4.5	1/23/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-16	2.0	1/11/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-16	6.0	1/11/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-17	2.0	1/11/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.010</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-17	4.5	1/11/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.011</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-17A	2.0	1/29/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005
MW-17A	5.0	1/29/02	ARCADIS	NA	<0.005	<0.010	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.005</b>	<0.005	NA	<0.010	<0.005	<0.005	<0.005	<0.005

Notes: All units in milligrams per kilogram (mg/kg)  
 Bold indicates detection above background.  
 NA - Not Analyzed  
 For some EPD samples the DL is not readable on the copy provided; therefore ND is used to indicate Not Detected.  
 Monitoring well designations MW-13, -14, -16, -17, and -17A are the same as PMW-13, 14, 16, 17, and 17a in the laboratory report.

**C-3**

**Soil Analytical Results Summary (July, 5-6, 2005; Dobbs Env.)**

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

CONSTITUENT	SB-1(1)	SB-1(5)	SB-1(10)	SB-1(15)
1,1,1-Trichloroethane	< 2.9	< 3.4	< 3.2	< 3.9
1,1-Dichloroethane	< 2.9	< 3.4	< 3.2	< 3.9
1,1-Dichloroethene	< 2.9	< 3.4	< 3.2	< 3.9
2-Butanone	< 5.9	<b>15</b>	< 6.4	< 7.8
Acetone	< 12	<b>33</b>	<b>14</b>	< 16
cis-1,2-Dichloroethene	< 2.9	< 3.4	< 3.2	< 3.4
Tetrachloroethene	< 2.9	< 3.4	< 3.2	< 3.4
Trichloroethene	< 2.9	< 3.4	< 3.2	< 3.4

CONSTITUENT	SB-2(1)	SB-2(5)	SB-2(10)	SB-2(15)
1,1,1-Trichloroethane	< 2.6	< 2.2	< 3.2	< 2.8
1,1-Dichloroethane	< 2.6	< 2.2	< 3.2	< 2.8
1,1-Dichloroethene	< 2.6	< 2.2	< 3.2	< 2.8
2-Butanone	< 5.3	< 4.4	< 6.5	< 5.5
Acetone	<b>21</b>	< 8.7	< 13	<b>12</b>
cis-1,2-Dichloroethene	< 2.6	< 2.2	< 3.2	< 2.8
Tetrachloroethene	< 2.6	< 2.2	< 3.2	< 2.8
Trichloroethene	< 2.6	< 2.2	< 3.2	< 2.8

CONSTITUENT	SB-3 (1)	SB-3(5)	SB-3(10)
1,1,1-Trichloroethane	< 2.0	< 1.4	< 3.8
1,1-Dichloroethane	< 2.0	< 1.4	< 3.8
1,1-Dichloroethene	< 2.0	< 1.4	< 3.8
2-Butanone	< 4.0	< 2.9	< 7.5
Acetone	<b>32</b>	<b>28</b>	<b>24</b>
cis-1,2-Dichloroethene	< 2.0	< 1.4	< 3.8
Tetrachloroethene	<b>5.8</b>	<b>10</b>	<b>20</b>
Trichloroethene	< 2.0	< 1.4	< 3.8

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

CONSTITUENT	SB-4(1)	SB-4(5)	SB-4(10)
1,1,1-Trichloroethane	< 1.7	< 2.4	< 2.8
1,1-Dichloroethane	< 1.7	< 2.4	< 2.8
1,1-Dichloroethene	< 1.7	< 2.4	< 2.8
2-Butanone	< 3.4	< 4.7	< 5.7
Acetone	86	< 9.4	< 11
cis-1,2-Dichloroethene	< 1.7	6.0	< 2.8
Tetrachloroethene	9.0	2.9	< 2.8
Trichloroethene	< 1.7	3.2	< 2.8

CONSTITUENT	SB-5(1)	SB-5(5)	SB-5(10)
1,1,1-Trichloroethane	< 2.5	< 3.2	< 3.8
1,1-Dichloroethane	< 2.5	< 3.2	< 3.8
1,1-Dichloroethene	< 2.5	< 3.2	< 3.8
2-Butanone	< 4.9	< 6.4	< 7.5
Acetone	44	< 13	< 15
cis-1,2-Dichloroethene	< 2.5	< 3.2	< 3.8
Tetrachloroethene	< 2.5	< 3.2	< 3.8
Trichloroethene	< 2.5	< 3.2	< 3.8

CONSTITUENT	SB-6(1)	SB-6(5)	SB-6(10)
1,1,1-Trichloroethane	< 2.8	< 3.3	< 3.4
1,1-Dichloroethane	< 2.8	< 3.3	< 3.4
1,1-Dichloroethene	< 2.8	< 3.3	< 3.4
2-Butanone	< 5.6	< 6.7	< 6.7
Acetone	110	< 13	< 13
cis-1,2-Dichloroethene	< 2.8	< 3.3	< 3.4
Tetrachloroethene	< 2.8	< 3.3	< 3.4
Trichloroethene	< 2.8	< 3.3	< 3.4

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

CONSTITUENT	SB-7(1)	SB-7(5)	SB-7(10)
1,1,1-Trichloroethane	< 3.3	< 3.9	< 3.1
1,1-Dichloroethane	< 3.3	< 3.9	< 3.1
1,1-Dichloroethene	< 3.3	< 3.9	< 3.1
2-Butanone	< 6.6	< 7.8	< 6.1
Acetone	<b>39</b>	< 16	< 12
cis-1,2-Dichloroethene	< 3.3	< 3.9	< 3.1
Tetrachloroethene	<b>4.5</b>	< 3.9	< 3.1
Trichloroethene	< 3.3	< 3.9	< 3.1

CONSTITUENT	SB-8(1)	SB-8(5)	SB-8(10)	SB-8(15)
1,1,1-Trichloroethane	< 3.3	< 2.5	< 3.3	< 3.2
1,1-Dichloroethane	< 3.3	< 2.5	< 3.3	< 3.2
1,1-Dichloroethene	< 3.3	< 2.5	< 3.3	< 3.2
2-Butanone	< 6.6	< 4.9	< 6.5	< 6.4
Acetone	<b>64</b>	< 9.8	< 13	< 13
cis-1,2-Dichloroethene	< 3.3	< 2.5	< 3.3	< 3.2
Tetrachloroethene	< 3.3	< 2.5	< 3.3	< 3.2
Trichloroethene	< 3.3	< 2.5	< 3.3	< 3.2
Carbon Disulfide	<b>15</b>	< 4.9	< 6.5	

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

CONSTITUENT	SB-9(1)	SB-9(5)	SB-9(10)
1,1,1-Trichloroethane	< 3.6	< 2.7	< 2.3
1,1-Dichloroethane	< 3.6	< 2.7	< 2.3
1,1-Dichloroethene	< 3.6	< 2.7	< 2.3
2-Butanone	< 7.2	< 5.3	19
Acetone	140	790	9,700
cis-1,2-Dichloroethene	120	4.8	< 2.3
Tetrachloroethene	620,000	350,000	92,000
Trichloroethene	660	5.8	4.6
Carbon Disulfide	< 7.2	7.4	< 4.6
Toluene	5.4	13	7.0
Cyclohexane	< 3.6	12	6.2
Ethylbenzene	< 3.6	3.2	< 2.3
m,p-Xylene	< 7.2	9.0	< 4.6
Methylene Chloride	< 3.6	5.4	20
o-Xylene	< 7.2	3.4	< 4.6

CONSTITUENT	SB-10(1)	SB-10(5)	SB-10(10)	SB-10(15)
1,1,1-Trichloroethane	< 3.4	< 2.7	< 3.1	< 3.0
1,1-Dichloroethane	< 3.4	< 2.7	< 3.1	< 3.0
1,1-Dichloroethene	< 3.4	< 2.7	< 3.1	< 3.0
2-Butanone	< 6.8	< 5.3	< 6.3	< 6.1
Acetone	42	54	< 13	< 12
cis-1,2-Dichloroethene	< 3.4	< 2.7	< 3.1	< 3.0
Tetrachloroethene	< 3.4	23	6,500	340
Trichloroethene	< 3.4	< 2.7	< 3.1	< 3.1

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
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CONSTITUENT	SB-11(1)	SB-11(5)	SB-11(10)
1,1,1-Trichloroethane	< 1.9	< 2.5	< 3.8
1,1-Dichloroethane	< 1.9	< 2.5	< 3.8
1,1-Dichloroethene	< 1.9	< 2.5	< 3.8
2-Butanone	< 3.9	< 5.0	< 7.5
Acetone	<b>59</b>	<b>29</b>	< 15
cis-1,2-Dichloroethene	< 1.9	< 2.5	< 3.8
Tetrachloroethene	< 1.9	< 2.5	< 3.8
Trichloroethene	< 1.9	< 2.5	< 3.8

CONSTITUENT	SB-12(1)	SB-12(5)	SB-12(10)	SB-12(15)
1,1,1-Trichloroethane	< 3.7	< 3.6	< 3.3	< 3.2
1,1-Dichloroethane	< 3.7	< 3.6	< 3.3	< 3.2
1,1-Dichloroethene	< 3.7	< 3.6	< 3.3	< 3.2
2-Butanone	< 7.4	< 7.3	< 6.6	< 6.4
Acetone	< 15	< 15	< 13	< 13
cis-1,2-Dichloroethene	< 3.7	< 3.6	< 3.3	< 3.2
Tetrachloroethene	< 3.7	< 3.6	< 3.3	< 3.2
Trichloroethene	< 3.7	< 3.6	< 3.3	< 3.2

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
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CONSTITUENT	SB-13(1)	SB-13(5)	SB-13(10)
1,1,1-Trichloroethane	4.6	< 2.9	< 3.2
1,1-Dichloroethane	< 2.4	< 2.9	< 3.2
1,1-Dichloroethene	< 2.4	< 2.9	< 3.2
2-Butanone	< 4.7	< 5.8	< 6.5
Acetone	18	32	< 13
cis-1,2-Dichloroethene	< 2.4	< 2.9	< 3.2
Tetrachloroethene	4.3	< 2.9	< 3.2
Trichloroethene	< 2.4	< 2.9	< 3.2

CONSTITUENT	SB-14(1)	SB-14(5)	SB-14(10)
1,1,1-Trichloroethane	< 3.2	< 2.3	< 3.1
1,1-Dichloroethane	< 3.2	< 2.3	< 3.1
1,1-Dichloroethene	< 3.2	< 2.3	< 3.1
2-Butanone	< 6.4	< 4.6	< 6.2
Acetone	16	< 9.2	< 12
cis-1,2-Dichloroethene	< 3.2	< 2.3	< 3.1
Tetrachloroethene	9.6	7.0	< 3.1
Trichloroethene	< 3.2	< 2.3	< 3.1

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

SOIL ANALYTICAL RESULTS SUMMARY (July, 5-6, 2005)  
 AMC International  
 310 Brookhollow Industrial Boulevard  
 Dalton, Georgia

CONSTITUENT	HA-1(1)	HA-1(5)	HA-2(1)	HA-2(5)
1,1,1-Trichloroethane	< 4.0	< 3.7	< 4.0	< 3.6
1,1-Dichloroethane	< 4.0	< 3.7	< 4.0	< 3.6
1,1-Dichloroethene	< 4.0	< 3.7	< 4.0	< 3.6
2-Butanone	< 8.0	< 7.5	< 8.0	< 7.2
Acetone	<b>95</b>	<b>51</b>	<b>21</b>	< 14
cis-1,2-Dichloroethene	< 4.0	< 3.7	< 4.0	< 3.6
Tetrachloroethene	<b>120</b>	<b>36</b>	<b>82</b>	<b>5,300</b>
Trichloroethene	< 4.0	< 3.7	< 4.0	< 3.6

NOTE: All concentrations are in micrograms per liter (ug/kg or ppb)

Type 3 Risk Reduction Standards

CONSTITUENT	Appendix I (ug/kg)	GWx3 (ug/kg)	Arcadis Type 3 Calculated RRS (mg/kg)	Arcadis Type 4 Calculated RRS (mg/kg)
1,1,1-Trichloroethane	5,440	20		7,400
1,1-Dichloroethane	30	400		1,600
1,1-Dichloroethene	360	0.7		5
2-Butanone	790			7,900
Acetone	2,740	400		200,000
cis-1,2-Dichloroethene				20,000
Tetrachloroethene	180	0.5		39
Trichloroethene	130	0.5		1
Carbon Disulfide		400		920
Toluene	14,400	100		2,700
Cyclohexane	20,000			
Ethylbenzene	20,000	70		240
m,p-Xylene	20,000*	10*		4,100,000
Methylene Chloride	80	0.5		160
o-Xylene	20,000*	10*		4,100,000

NOTE: For Xylenes the calculated concentrations are for total xylenes.

## **APPENDIX D**

### **GROUNDWATER AND SURFACE WATER SAMPLING RESULTS**

		TABLE II													
AMC International		1,1,1-Trichloroethane													
310 Brookhollow Industrial Boulevard		1 of 3													
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15
2/22&3/30/1995		10,000	2.7	2,900											
3/8/1999		5,300	< 5	1,000											
10/4/2000		1,400	< 5	920	150	500	120,000	150,000	150,000						
3/14/2001		150	< 5	470	98	380	47,000	120,000	23,000						
10/9/2001		9,000	< 5	1,400	350	880	72,000	240,000	280,000						
3/5&5/29/2002		280	< 5	630	130	390	23,000	91,000	89,000	< 5	< 5	53			
11/12/2002		1,000	< 5	570	160	96	4,700	180,000	77,000	< 5	< 5	140			
6/17/2003		6,200	< 5	380	88	100	63,000	190,000	110,000	< 5	< 5	< 500			
1/6-8/2004		100	< 5	680	90	89	30,000	78,000	78,000	< 5	< 5	160			
8/3-4/2004		320	< 5	770	130	330	42,000	81,000	81,000	< 5	< 5	< 2,500			
1/19-20/2005		110	< 5	330	51	170	29,000	190,000	93,000	< 5	< 5	< 2,500			
6-28-29/2005		6,600	< 5	420	49	200				< 5	< 5	< 2,500			
5/31-6/1/2006			< 5	240	46	210	21,000	140,000	58,000	< 5	< 5	43			
4/3-4/2007			< 5	160	37	92	9,200	30,000	28,000	< 5	< 5	< 100	58	< 5	< 5
4/29-5/1/2008		1,500	< 5	180	16	8.2	6,500	120,000	16,000	< 5	< 5	21	85	< 5	< 5
12/9/2008		NS	< 5	190	10	100	3,300	83,000	14,000	< 5	< 5	23	40	< 5	< 5
7/28-8/5/2009		3,500	< 5	190	64	82	1,500	26,000	15,000	< 5	< 5	< 5	42	< 5	< 5
4/5-9/2010		2,900	< 5	180	38/36	6.6	9,100	41,000	16,000	< 5	< 5	< 47	< 5	< 5	< 5
11/29-12/3/2010		150	< 5	130	26	87	1,800	16,000	3,000	< 5	< 5	< 2,500/< 2,500	23	< 5	< 5
06/27-07/1/2011		64	< 5	210	28/30	48	9,100	21,000/21,000	15,000	< 5	< 5	< 260	33	< 5	< 5
11/14-18 & 22/2011		2,100	< 5	110	14	42/44	8,800	16,000	4,000	< 5	< 5/< 5	< 510	20	< 5	< 5

		TABLE II											
AMC International		1,1,1-Trichloroethane											
310 Brookhollow Industrial Boulevard		2 of 3											
		AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12	
1/6-8/2004		< 5	< 500	< 5	< 5	< 5	< 5	< 5	54	< 5	< 5	30,000	
8/3-4/2004		< 2,500	NS	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	1,900	
1/19-20/2005		< 2,500	< 5	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
6-28-29/2005		< 2,500	< 500	< 250	< 5	< 5	< 5	< 5	5	< 2,500	< 5	< 2,500	
5/31-6/1/2006		10	NS	< 5	< 5	< 5	12	< 5	13	< 5	< 5	blocked	
4/3-4/2007		< 1,000	< 100	< 50	< 5	< 5	9.4	< 5	< 100	< 500	< 5	blocked	
4/29-5/1/2008		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	14	
12/9/2008		< 5	31	NS	< 5	Dry	32	< 5	12	< 5	< 5	26	
7/28-8/5/2009		< 5	< 5	< 5	< 5	< 5	17	< 5	< 5	< 5	< 5	130	
4/5-9/2010		< 47/< 47	11	< 47	< 5	< 5	46	< 5	30	< 5	< 5/< 5	< 47/< 47	
11/29-12/3/2010		15/20	< 250	< 5	< 5	< 5	31	< 5	< 2,500	< 250/< 250	< 5	< 2,500/< 2,500	
06/27-07/1/2011		< 51	< 51	< 5	< 5	< 5	36	< 5	< 260	< 5/< 5	< 5	< 260	
11/14-18 & 22/2011		7.6	23/19	< 5	< 5	< 5	21	< 5	< 260	< 26	< 5	< 260	



		TABLE II													
AMC International		1,1-Dichloroethane													
310 Brookhollow Industrial Boulevard		1 of 3													
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15
2/22&3/30/1995		43	< 5	32											
3/8/1999		1,700	< 5	28											
10/4/2000		90	< 5	27	18	22	1,100	3,400	1,000						
3/14/2001		36	< 5	29	29	36	73	670	710						
10/9/2001		110	< 5	30	69	30	4,000	2,300	3,200						
3/5&5/29/2002		81	< 5	26	39	26	53	290	500	< 5		8.4			
11/12/2002		150	< 5	25	44	40	59	2,600	260	< 5		16			
6/17/2003		22	< 5	32	31	110	2,700	< 5,000	< 5,000	< 5		< 500			
1/6-8/2004		< 5	< 5	26	29	110	1,800	1,400	1,400	< 5		19			
8/3-4/2004		< 5	< 5	17	23	18	990	740	780	< 5	< 5	< 2,500			
1/19-20/2005		< 5	< 5	17	20	24	< 2,500	< 2,500	< 2,500	< 5	< 5	< 2,500			
6-28-29/2005		22	< 5	18	16	20				< 5	< 5	< 2,500			
5/31-6/1/2006			< 5	16	20	21	1,400	1,600	1,200	< 5	< 5	5.4			
4/3-4/2007			< 5	14	23	15	1,400	1,000	1,000	< 5	< 5	< 100	< 5	< 5	< 5
4/29-5/1/2008		14	< 5	16	8.6	< 5	940	150	230	< 5	< 5	11	< 5	< 5	< 5
12/9/2008		NS	< 5	12	8.4	11	1,300	350	560	< 5	< 5	< 5	< 5	< 5	< 5
7/28-8/5/2009		34	< 5	17	22	13	50	710	870	< 5	< 5	< 5	< 5	< 5	< 5
4/5-9/2010		26	< 5	12	15/15	< 5	920	430	600	< 5	< 5	< 47	< 5	< 5	< 5
11/29-12/3/2010		< 5	< 5	8	14	11	220	870	57	< 5	< 5	< 2,500/< 2,50	< 5	< 5	< 5
06/27-07/1/2011		< 5	< 5	12	19/21	17	400	790/650	180	< 5	< 5	< 200	< 5	< 5	< 5
11/14-18 & 22/2011		15	< 5	6.7	9.7	13/13	1,000	500	110	< 5	< 5/< 5	< 400	< 5	< 5	< 5





		TABLE II													
AMC International		1,1-Dichloroethylene													
310 Brookhollow Industrial Boulevard		1 of 3													
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15
2/22&3/30/1995		1,000	< 5	1,100											
3/8/1999		2,500	< 5	620											
10/4/2000		450	< 5	750	75	65	29,000	69,000	100,000						
3/14/2001		140	< 5	260	150	110	15,000	78,000	13,000						
10/9/2001		2,100	< 5	1,100	360	57	21,000	99,000	85,000						
3/5&5/29/2002		270	< 5	640	190	100	17,000	52,000	50,000	< 5		8.5			
11/12/2002		780	< 5	600	180	< 5	1,500	75,000	77,000	< 5		29			
6/17/2003		2,200	< 5	370	130	< 5	21,000	28,000	31,000	< 5		< 500			
1/6-8/2004		33	< 5	790	130	< 5	15,000	24,000	24,000	< 5		40			
8/3-4/2004		120	< 5	590	120	71	14,000	16,000	16,000	< 5	< 5	< 2,500			
1/19-20/2005		76	< 5	630	100	120	9,800	51,000	40,000	< 5	< 5	< 2,500			
6-28-29/2005		3,500	< 5	390	89	95				< 5	< 5	< 2,500			
5/31-6/1/2006			< 5	370	95	100	16,000	35,000	17,000	< 5	< 5	19			
4/3-4/2007			< 5	230	130	45	10,000	9,400	7,300	< 5	< 5	< 100	12	< 5	< 5
4/29-5/1/2008		1,100	< 5	270	36	8.2	7,400	22,000	5,800	< 5	< 5	< 5	23	< 5	< 5
12/9/2008		NS	< 5	500	51	75	12,000	48,000	9,000	< 5	< 5	20	21	< 5	< 5
7/28-8/5/2009		3,100	< 5	28	100	32	1,400	5,700	4,900	< 5	< 5	< 5	< 5	< 5	< 5
4/5-9/2010		3,400	< 5	310	72/76	5.1	10,000	9,600	6,500	< 5	< 5	< 47	< 5	< 5	< 5
11/29-12/3/2010		450	< 5	380	82	74	4,800	7,600	1,400	< 5	< 5	> 2,500/< 2,500	7	< 5	< 5
06/27-07/1/2011		150	< 5	350	78/83	41	2,700	7,600/6,800	7,100	< 5	< 5	< 590	9.6	< 5	< 5
11/14-18 & 22/2011		2,100	< 5	190	44	43/46	9,400	4,300	2,100	< 5	< 5/< 5	< 1,200	8.2	< 5	< 5

		TABLE II											
AMC International		1,1-Dichloroethylene											
310 Brookhollow Industrial Boulevard		2 of 3											
		AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12	
1/6-8/2004		< 5	< 500	< 5	< 5	< 5	< 5	< 5	41	< 5	< 5	< 500	
8/3-4/2004		< 2,500	NS	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
1/19-20/2005		< 2,500	< 5	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
6-28-29/2005		< 2,500	< 500	< 250	< 5	< 5	< 5	< 5	< 5	< 2,500	< 5	< 2,500	
5/31-6/1/2006		11	NS	< 5	< 5	< 5	< 5	< 5	10	< 5	< 5	blocked	
4/3-4/2007		< 1,000	< 100	< 50	< 5	< 5	< 5	< 5	< 100	< 500	< 5	blocked	
4/29-5/1/2008		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	18	
12/9/2008		< 5	29	NS	< 5	Dry	7.6	< 5	19	< 5	< 5	57	
7/28-8/5/2009		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5	< 5	93	
4/5-9/2010		< 47/< 47	5.1	< 47	< 5	< 5	16	< 5	26	< 5	< 5/< 5	< 47/< 47	
11/29-12/3/2010		< 5/< 5	< 250	< 5	< 5	< 5	9.4	< 5	< 2,500	< 250/< 250	< 5	< 2,500/< 2,500	
06/27-07/1/2011		< 120	< 120	< 5	< 5	< 5	11	< 5	< 590	< 5/< 5	< 5	< 590	
11/14-18 & 22/2011		< 5	5.4/7.8	< 5	< 5	< 5	7.3	< 5	< 590	< 59	< 5	< 590	



		TABLE II													
AMC International		Cis-1,2-Dichloroethylene													
310 Brookhollow Industrial Boulevard		1 of 3													
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15
2/22&3/30/1995		< 10	< 10	< 10											
3/8/1999		< 10	< 10	< 10											
10/4/2000		< 5	< 5	< 5	8.6	65	< 5	5.8	9						
3/14/2001		< 5	< 5	< 5	9.1	110	< 5	9.1	17						
10/9/2001		< 5	< 5	< 5	32	57	< 5	8	< 5						
3/5&5/29/2002		< 5	< 5	< 5	22	100	< 5	< 5	8	< 5	< 5	30			
11/12/2002		< 5	< 5	< 5	24	< 5	< 5	< 5	12	< 5	< 5	76			
6/17/2003		< 5	< 5	< 5	17	< 5	< 250	< 5,000	< 5,000	< 5	< 5	< 500			
1/6-8/2004		< 5	< 5	< 5	21	< 5	< 500	< 500	< 500	< 5	< 5	80			
8/3-4/2004		< 5	< 5	< 5	16	< 5	< 5	< 5	< 5	< 5	< 5	< 2,500			
1/19-20/2005		< 5	< 5	< 5	14	< 5	< 2,500	< 2,500	< 2,500	< 5	< 5	< 2,500			
6-28-29/2005		< 5	< 5	< 5	11	< 5	NS	NS	NS	< 5	< 5	< 2,500			
5/31-6/1/2006		blocked	< 5	7.9	19	< 5	< 5	7	12	< 5	< 5	34			
4/3-4/2007		blocked	< 5	21	36	< 5	< 500	< 500	< 100	< 5	< 5	< 100	< 5	< 5	< 5
4/29-5/1/2008		< 5	< 5	16	170	< 5	< 5	< 5	< 5	< 5	< 5	20	18	< 5	< 5
12/9/2008		blocked	< 5	10	190	< 5	< 5	< 5	< 5	< 5	< 5	39	39	< 5	< 5
7/28-8/5/2009		< 5	< 5	22	330	< 5	< 250	< 250	< 250	< 5	< 5	< 5	18	< 5	< 5
4/5-9/2010		< 5	< 5	33	260/220	< 5	< 5	< 5	< 5	< 5	< 5	< 180	< 5	< 5	< 5
11/29-12/3/2010		< 5	< 5	12	180	6.7	< 5	< 50	8.2	< 5	< 5	< 2,500/< 2,50	< 5	< 5	< 5
06/27-07/1/2011		< 5	< 5	27	130/140	150	< 5	< 5/7.7	14	< 5	< 5	< 170	< 5	< 5	< 5
11/14-18 & 22/2011		< 5	< 5	21	70	52/54	< 17	< 34	48	< 5	< 5/ < 5	< 340	< 5	< 5	< 5

		TABLE II											
AMC International		Cis-1,2-Dichloroethylene											
310 Brookhollow Industrial Boulevard		2 of 3											
		AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12	
1/6-8/2004		45	< 500	39	< 5	< 5	< 5	< 5	730	31	< 5	< 500	
8/3-4/2004		< 2,500	NS	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
1/19-20/2005		< 2,500	NS	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
6-28-29/2005		< 2,500	< 5	< 250	< 5	< 5	< 5	< 5	46	< 2,500	< 5	< 2,500	
5/31-6/1/2006		72	< 500	67	< 5	< 5	< 5	< 5	900	26	< 5	blocked	
4/3-4/2007		< 1,000	NS	170	< 5	< 5	< 5	< 5	3,100	< 500	< 5	blocked	
4/29-5/1/2008		62	< 100	80	< 5	< 5	< 5	< 5	710	14	< 5	240	
12/9/2008		340	59	Dry	< 5	Dry	84	< 5	1,700	26	< 5	670	
7/28-8/5/2009		9.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	9.5	
4/5-9/2010		< 180/< 180	< 5	< 180	< 5	< 5	37	< 5	1,700	8.1	< 5/< 5	< 180/< 180	
11/29-12/3/2010		25/41	< 250	< 5	< 5	< 5	13	< 5	< 2,500	< 250/< 250	< 5	< 2,500/< 2,500	
06/27-07/1/2011		< 34	< 34	200	< 5	< 5	15	< 5	1,700	47/50	< 5	< 170	
11/14-18 & 22/2011		9.5	< 5/< 5	< 5	< 5	< 5	8.2	< 5	2,500 J	< 17	< 5	< 170	

						TABLE II					
	AMC International					Cis-1,2-Dichloroethylene					
	310 Brookhollow Industrial Boulevard					3 of 3					
			AMW-13	AMW-14	AMW-15	AMW-16	AMW-17	AMW-18	AMW-19	AMW-20	AMW-21
	1/6-8/2004		93		< 5		< 5	< 5	< 5	< 5	< 500
	8/3-4/2004		< 2,500		< 50		< 5	< 5	< 5	< 5	< 2,500
	1/19-20/2005		< 2,500	< 500	< 5	< 500	< 5	< 5	< 5	< 5	< 2,500
	6-28-29/2005		340	< 500	< 5	5	< 5	< 5	< 5	< 5	< 2,500
	5/31-6/1/2006		610	170	11	9	< 5	< 5	< 5	< 5	260
	4/3-4/2007		350	< 100	< 50	< 100	< 5	< 5	< 5	< 5	< 500
	4/29-5/1/2008		3,200	29	< 5	26	< 5	< 5	< 5	< 5	210
	12/9/2008		3,000	5.6	6.1	52	< 5	Dry	< 5	< 5	860
	7/28-8/5/2009		8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/5-9/2010		2,500	< 5	< 5	14	< 5	< 5	< 5	< 5	430
	11/29-12/3/2010		< 2,500	< 5	< 5	6	< 5	< 5	< 5	< 5	< 2,500
	06/27-07/1/2011		2,200	< 5	< 5	9.9/9.4	< 5	< 5	< 5	< 5	< 170
	11/14-18 & 22/2011		1,400 J	< 5	< 5	< 5	< 5	< 5	< 5/< 5	< 5	280 J

		TABLE II													
AMC International		Tetrachloroethene													
310 Brookhollow Industrial Boulevard		1 of 3													
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15
2/22&3/30/1995		< 5	< 5	2											
3/8/1999		< 5	< 5	< 5											
10/4/2000		< 5	9.2	< 5	< 5	< 5	< 5	< 5	7						
3/14/2001		< 5	11	< 5	< 5	< 5	< 5	< 5	11						
10/9/2001		< 5	11	1,400	< 5	30	< 5	6	< 5						
3/5&5/29/2002		< 5	< 5	< 5	< 5	12	< 5	< 5	8	< 5	< 5	2,000			
11/12/2002		< 5	< 5	5.4	< 5	< 5	< 5	< 5	19	< 5	< 5	11,000			
6/17/2003		< 5	5	< 5	< 5	< 5	< 250	< 5,000	< 5,000	< 5	< 5	14,000			
1/6-8/2004		5.9	< 5	< 5	18	< 5	< 500	< 500	< 500	< 5	< 5	250,000			
8/3-4/2004		7	< 5	< 5	< 5	40	34	13	7	< 5	< 5	38,000			
1/19-20/2005		< 5	< 5	< 5	7	39	< 2,500	< 2,500	< 2,500	< 5	< 5	12,000			
6-28-29/2005		< 5	< 5	< 5	< 5	58				< 5	< 5	4,800			
5/31-6/1/2006			< 5	7.3	11	55	39	140	120	< 5	< 5	24,000			
4/3-4/2007			< 5	11	35	34	< 500	< 500	< 100	< 5	< 5	39,000	1,300	< 5	< 5
4/29-5/1/2008		15	7.1	12	210	36	< 5	22	20	< 5	< 5	12,000	5,400	< 5	< 5
12/9/2008		NS	12	12	240	28	< 5	6.8	< 5	11	< 5	41,000	13,000	< 5	< 5
7/28-8/5/2009		< 5	6.6	52	690	25	< 250	< 250	< 250	< 5	< 5	32,000	5,800	< 5	< 5
4/5-9/2010		28	< 5	63	820/670	24	< 5	< 5	7	< 5	< 5	31,000	27	< 5	< 5
11/29-12/3/2010		6.8	< 5	170	540	330	< 5	< 50	22	< 5	< 5	39,000/37,000	1,500	< 5	< 5
06/27-07/1/2011		5.2	< 5	82	150/170	230	5.5	11-Jul	21	< 5	< 5	36,000	1,300	< 5	< 5
11/14-18 & 22/2011		< 5	< 5	97	150	190/200	< 38	< 77	49	< 5	< 5/< 5	40,000	1,100	< 5	< 5

		TABLE II											
AMC International		Tetrachloroethene											
310 Brookhollow Industrial Boulevard		2 of 3											
		AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12	
1/6-8/2004		250,000	9,500	6,800	< 5	< 5	9.3	< 5	19,000	28,000	< 5	< 500	
8/3-4/2004		200,00	NS	4,400	< 5	< 5	< 5	< 5	14,000	52,000	< 5	30,000	
1/19-20/2005		130,000	< 5	5,300	< 5	< 5	< 5	< 5	39,000	35,000	< 5	45,000	
6/28-29/2005		16,000	6,400	11,000	< 5	< 5	< 5	< 5	2,100	46,000	< 5	37,000	
5/31-6/1/2006		170,000	NS	7,300	< 5	< 5	< 5	< 5	42,000	63,000	< 5	blocked	
4/3-4/2007		170,000	24,000	44,000	< 5	< 5	14	< 5	30,000	49,000	< 5	blocked	
4/29-5/1/2008		140,000	20,000	29,000	< 5	< 5	32	< 5	5,900	15,000	< 5	22,000	
12/9/2008		65,000	39,000	NS	< 5	Dry	1,800	< 5	86,000	55,000	< 5	66,000	
7/28-8/5/2009		94,000	13,000	34,000	< 5	< 5	1,700	< 5	37,000	26,000	< 5	75,000	
4/5-9/2010		88,000/90,000	4,400	17,000	< 5	47	2,800	< 5	51,000	4,800	< 5/< 5	69,000/68,000	
11/29-12/3/2010		1,700/3,500	14,000	120	< 5	280	1,700	< 5	83,000	32,000/33,000	< 5	82,000/84,000	
6/27-7/1/2011		50,000	7,100	15,000	< 5	180	1,400	< 5	42,000	4,200/3,900	25	63,000	
11/14-18 & 22/2011		7,600	12,000	130	< 5	720*	1,300	< 5	70,000	31,000	< 5**	18,000	
			14,000										
* AMW-5 was resampled on 12-08-11 to verify the result obtained during the monitoring event of 1,700 ppb													
**AMW-11D was resampled on 12-08-11 to verify the result obtained during the monitoring event of 74 ppb													

						TABLE II					
	AMC International					Tetrachloroethene					
	310 Brookhollow Industrial Boulevard					3 of 3					
			AMW-13	AMW-14	AMW-15	AMW-16	AMW-17	AMW-18	AMW-19	AMW-20	AMW-21
	1/6-8/2004	35,000			750		< 5	< 5	< 5	< 5	17,000
	8/3-4/2004	66,000			630		< 5	< 5	< 5	< 5	19,000
	1/19-20/2005	66,000	9,300		720	3,900	< 5	< 5	< 5	< 5	11,000
	6-28-29/2005	35,000	3,500		840	3,300	< 5	< 5	< 5	< 5	11,000
	5/31-6/1/2006	52,000	3,000		870	4,000	< 5	< 5	< 5	< 5	26,000
	4/3-4/2007	38,000	10,000		890	3,700	< 5	< 5	< 5	< 5	9,300
	4/29-5/1/2008	30,000	3,700		380	6,700	< 5	< 5	< 5	< 5	11,000
	12/9/2008	50,000	430		660	19,000	< 5	Dry	< 5	10	36,000
	7/28-8/5/2009	55,000	1,100		1,600	16,000	< 5	< 5	< 5	< 5	28,000
	4/5-9/2010	73,000	330		610	6,500	< 5	< 5	< 5	< 5	21,000
	11/29-12/3/2010	49,000	820		510	3,600	38	< 5	< 5	130	12,000
	06/27-07/1/2011	47,000	260		460	2,800/2,700	6	< 5	< 5	17	12,000
	11/14-18 & 22/2011	25,000	500		470	2,900	< 5	< 5	< 5/< 5	38	13,000

		TABLE II														
AMC International		Trichloroethene														
310 Brookholow Industrial Boulevard		1 of 3														
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15	
2/22&3/30/1995		< 10	< 10	< 10												
3/8/1999		< 10	< 10	< 10												
10/4/2000		< 5	< 5	< 5	< 5	< 5	30	68	98							
3/14/2001		< 5	< 5	< 5	< 5	< 5	16	54	15							
10/9/2001		< 5	< 5	< 5	< 5	< 5	15	85	79							
3/5&5/29/2002		< 5	< 5	< 5	< 5	< 5	10	35	38	< 5	< 5	12				
11/12/2002		5.8	< 5	< 5	9.2	270	< 5	92	72	< 5	< 5	46				
6/17/2003		< 5	5.5	< 5	< 5	140	< 250	< 5,000	< 5,000	< 5	< 5	NS				
1/6-8/2004		< 5	< 5	< 5	< 5	5.4	< 500	< 500	< 500	< 5	< 5	77				
8/3-4/2004		< 5	< 5	< 5	< 5	< 5	9.3	24	24	< 5	< 5	< 2,500				
1/19-20/2005		< 5	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 2,500	< 5	< 5	< 2,500				
6-28-29/2005		< 5	< 5	< 5	< 5	< 5	NS	NS	NS	< 5	< 5	< 2,500				
5/31-6/1/2006		< 5	< 5	< 5	< 5	< 5	10	52	26	< 5	< 5	41				
4/3-4/2007		< 5	< 5	< 5	12	< 5	< 500	< 500	< 100	< 5	< 5	< 100	22	< 5	< 5	
4/29-5/1/2008		< 5	< 5	< 5	84	< 5	< 5	35	11	< 5	< 5	27	45	< 5	< 5	
12/9/2008		< 5	< 5	< 5	75	< 5	< 5	33	7.4	< 5	< 5	270	72	< 5	< 5	
7/28-8/5/2009		< 5	< 5	9.6	250	< 5	< 5	10	7.8	< 5	< 5	610	44	< 5	< 5	
4/5-9/2010		< 5	< 5	10	320	< 5	5.6	16	11	< 5	< 5	< 47	< 5	< 5	< 5	
11/29-12/3/2010		6.8	< 5	5.3	210	5.3	< 5	< 50	15	< 5	< 5	< 2,500	14	< 5	< 5	
06/27-07/1/2011		< 5	< 5	6.6	83/92	120	10	13/19	29	< 5	< 5	< 160	12	< 5	< 5	
11/14-18 & 22/2011		< 5	< 5	6	65	24/25	< 16	< 31	51	< 5	< 5/< 5	670 J	11	< 5	< 5	

		TABLE II											
AMC International		Trichloroethene											
310 Brookhollow Industrial Boulevard		2 of 3											
		AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12	
1/6-8/2004		150	NS	65	< 5	< 5	< 5	< 5	270	49	< 5	< 500	
8/3-4/2004		< 2,500	NS	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
1/19-20/2005		< 2,500	< 5	< 250	< 5	< 5	< 5	< 5	< 2,500	< 2,500	< 5	< 500	
6-28-29/2005		< 2,500	< 500	< 250	< 5	< 5	< 5	< 5	20	< 2,500	< 5	< 2,500	
5/31-6/1/2006		76	NS	67	< 5	< 5	< 5	< 5	470	170	< 5	Na	
4/3-4/2007		< 1,000	< 100	210	< 5	< 5	< 5	< 5	1,400	< 500	< 5	NA	
4/29-5/1/2008		56	6	140	< 5	< 5	< 5	< 5	340	63	< 5	140	
12/9/2008		210	190	NS	> 5	NS	23	< 5	1,300	160	> 5	490	
7/28-8/5/2009		60	< 5	210	< 5	< 5	12	< 5	830	120	< 5	700	
4/5-9/2010		< 47	13	< 120	< 5	< 5	32	< 5	1,200	31	< 5	< 47	
11/29-12/3/2010		39/120	< 250	< 5	< 5	< 5	32	< 5	< 2,500	< 250	< 5	< 2,500	
06/27-07/1/2011		< 31	< 31	130	< 5	< 5	19	< 5	1,300	54	< 5	< 160	
11/14-18 & 22/2011		30	25/24	< 5	< 5	< 5	15	< 5	2,000 J	150 J	< 5	< 160	



		TABLE II														
AMC International		Total Volatiles														
310 Brookhollow Industrial Boulevard		1 of 3														
		DMW-1	DMW-2	DMW-3	DMW-5	DMW-6	DRW-1	DRW-2	DRW-3	DMW-10	DMW-11	DMW-12	DMW-13	DMW-14D	DMW-15	
2/22&3/30/1995		11,043.0	27.0	4,034.0												
3/8/1999		9,500.0	< 5	1,648.0												
10/4/2000		1,940.0	9.2	1,897.0	251.6	652.0	150,130.0	222,473.8	251,114.0							
3/14/2001		326.0	11.0	759.0	285.1	636.0	62,089.0	198,733.1	36,753.0							
10/9/2001		11,212.0	11.0	3,930.0	811.0	1,054.0	97,015.0	341,399.0	368,279.0							
3/5&5/29/2002		631.0	< 5	1,296.0	381.0	628.0	40,063.0	143,325.0	139,552.0	< 5	< 5	2,111.9				
11/12/2002		1,935.8	< 5	1,200.4	417.2	406.0	6,259.0	257,692.0	154,363.0	< 5	< 5	11,307.0				
6/17/2003		8,422.0	5.0	782.0	266.0	350.0	86,700.0	218,000.0	141,000.0	< 5	< 5	14,000.0				
1/6-8/2004		138.9	< 5	1,496.0	288.0	204.4	46,800.0	103,400.0	103,400.0	< 5	< 5	250,376.0				
8/3-4/2004		447.0	< 5	1,377.0	289.0	459.0	57,033.3	97,777.0	97,811.0	< 5	< 5	38,000.0				
1/19-20/2005		186.0	< 5	977.0	192.0	353.0	38,800.0	241,000.0	133,000.0	< 5	< 5	12,000.0				
6-28-29/2005		10,122.0	< 5	828.0	165.0	373.0	NS	NS	NS	< 5	< 5	4,800.0				
5/31-6/1/2006		blocked	< 5	641.2	191.0	386.0	77,249.0	176,799.0	76,358.0	< 5	< 5	24,142.4				
4/3-4/2007		blocked	< 5	436.0	273.0	186.0	20,600.0	40,400.0	36,300.0	< 5	< 5	39,000.0	1,392.0	< 5	< 5	
4/29-5/1/2008		2,629.0	7.1	494.0	524.6	52.4	14,840.0	142,207.0	22,061.0	< 5	< 5	51,099.0	5,571.0	< 5	< 5	
12/9/2008		blocked	12.0	724.0	574.4	214.0	16,600.0	131,389.8	23,567.4	11.0	< 5	41,332.0	13,172.0	< 5	< 5	
7/28-8/5/2009		6,634.0	6.6	318.6	1,456.0	152.0	2,950.0	32,420.0	20,777.8	< 5	< 5	32,610.0	5,904.0	< 5	< 5	
4/5-9/2010		6,354.0	< 5	608.0	1,525/1,341	35.7	20,025.6	51,046.0	23,118.0	< 5	< 5	31,000.0	27.0	< 5	< 5	
11/29-12/3/2010		613.6	< 5	705.3	1.1	514.0	6,820.0	24,470.0	4,502.2	< 5	< 5	39,000/37,000	1,544.0	< 5	< 5	
06/27-07/1/2011		219.2	< 5	687.6	488/536	606.0	12,215.5	9,403/28,476	22,344.0	< 5	< 5	36,000.0	1,354.6	< 5	< 5	
11/14-18 & 22/2011		4,215.0	< 5	430.7	352.7	364/382	19,298.0	20,800.0	6,640.4	< 5	< 5/ < 5	40,670.0	1,139.2	< 5	< 5	

AMC International  
310 Brookhollow Industrial Boulevard

TABLE II  
Total Volatiles  
2 of 3

	AMW-1	AMW-2	AMW-3	AMW-4	AMW-5	AMW-6	AMW-7	AMW-9	AMW-10	AMW-11D	AMW-12
1/6-8/2004	250,195.0	9,500.0	6,904.0	< 5	< 5	9.3	< 5	20,123.0	28,080.0	< 5	30,000.0
8/3-4/2004	200.00	NS	4,400.0	< 5	< 5	< 5	< 5	14,000.0	52,000.0	< 5	31,900.0
1/19-20/2005	130,000.0	< 5	5,300.0	< 5	< 5	< 5	< 5	39,000.0	35,000.0	< 5	45,000.0
6/28-29/2005	16,000.0	6,400.0	11,000.0	< 5	< 5	< 5	< 5	2,171.0	46,000.0	< 5	37,000.0
5/31-6/1/2006	170,169.0	NS	7,434.0	< 5	< 5	< 5	< 5	43,402.0	63,196.0	< 5	blocked
4/3-4/2007	170,000.0	24,000.0	44,380.0	< 5	< 5	23.4	< 5	34,500.0	49,000.0	< 5	blocked
4/29-5/1/2008	140,118.0	20,006.0	29,220.0	< 5	< 5	32.0	< 5	6,950.0	15,077.0	< 5	22,419.0
12/9/2008	65,550.0	39,309.0	Dry	< 5	Dry	1,946.6	< 5	89,043.0	55,186.0	< 5	67,269.0
7/28-8/5/2009	94,069.5	13,000.0	34,210.0	< 5	< 5	1,729.0	< 5	37,830.0	26,120.0	< 5	75,932.5
4/5-9/2010	88,000/90,000	4,429.1	17,000.0	< 5	47.0	2,931.0	< 5	53,969.0	30,839.1	< 5/< 5	69,000/68,000
11/29-12/3/2010	1,779/3,681	14,000.0	120.0	< 5	280.0	1,785.4	< 5	83,000.0	32,000/33,000	< 5	82,000/84,000
6/27-7/1/2011	50,000.0	7,100.0	15,330.0	< 5	180.0	1,481.0	< 5	45,000.0	4,301/4,004	25.0	63,000.0
11/14-18 & 22/2011	7,647.1	12,053.4	130.0	< 5	720*	1,351.5	< 5	74,500.0	31,150.0	< 5**	18,000.0
		14,050.8									

\* AMW-5 was resampled on 12-08-11 to verify the result obtained during the monitoring event of 1,700 ppb

\*\*AMW-11D was resampled on 12-08-11 to verify the result obtained during the monitoring event of 74 ppb

		TABLE II									
AMC International		Total Volatiles									
310 Brookhollow Industrial Boulevard		3 of 3									
		AMW-13	AMW-14	AMW-15	AMW-16	AMW-17	AMW-18	AMW-19	AMW-20	AMW-21	
1/6-8/2004		35,377.0		842.0		< 5	< 5	< 5	< 5	17,000.0	
8/3-4/2004		66,000.0		630.0		< 5	< 5	< 5	< 5	19,000.0	
1/19-20/2005		66,000.0	9,300.0	727.4	3,900.0	< 5	< 5	< 5	< 5	11,000.0	
6-28-29/2005		35,640.0	3,500.0	850.0	3,404.0	< 5	< 5	< 5	< 5	11,000.0	
5/31-6/1/2006		53,113.0	3,209.0	890.9	4,116.0	< 5	< 5	< 5	< 5	26,417.6	
4/3-4/2007		38,620.0	10,000.0	1,780.9	3,700.0	< 5	< 5	< 5	< 5	9,300.0	
4/29-5/1/2008		34,624.0	3,753.0	394.1	6,807.0	< 5	< 5	< 5	< 5	11,293.0	
12/9/2008		54,731.0	441.9	674.1	19,231.0	40.0	Dry	< 5	10.0	37,336.9	
7/28-8/5/2009		56,734.0	1,100.0	1,609.4	16,132.0	27.0	< 5	< 5	< 5	28,600.0	
4/5-9/2010		77,200.0	330.0	610.0	6,628.0	39.0	< 5	< 5	< 5	21,780.0	
11/29-12/3/2010		49,000.0	820.0	518.9	3,656.5	138.0	< 5	< 5	130.0	12,000.0	
06/27-07/1/2011		50,700.0	260.0	465.4	2,884.9/2,784.	45.0	< 5	< 5	17.0	12,000.0	
11/14-18 & 22-2011		27,500.0	500.0	475.1	2,958.5	28.0	< 5	< 5/< 5	38.0	13,528.0	

TABLE II							
Tetrachloroethene							
AMC International							
310 Brookhollow Industrial Boulevard							
Date	D Effluent	D Influent	A Effluent pre-carbon	A Effluent post-carbon	A-1 Influent	A-2 Influent	
10/9/2001	< 5	< 5					
3/5&5/29/2002	< 5	7.6					
11/12/2002	< 5	18					
6/17/2003	< 5	< 5,000					
1/6-8/2004	< 5	< 5					
8/3-4/2004	< 5	< 500	58		23,000		
1/19-20/2005	< 5	< 500	58		23,000		
6-28-29/2005	< 5	< 500	220		29,000	2,400	
5/31-6/1/2006	< 5	91	700		41,000	20,000	
4/3-4/2007	< 5	< 10	1,100		47,000	19,000	
4/29-5/1/2008	< 5	< 5	NS		NS	NS	
12/9/2008	NS	NS	NS		NS	NS	
7/28-8/5/2009	< 5	20	27		13,000	25,000	
4/5-9/2010	< 5	6	140		37,000	11,000	
11/29-12/3/2010	< 5	< 500	79		8,700	11,000	
06/27-07/1/2011	< 5	< 77	69		9,900	7,300	
11/14-18 & 22/2011	< 5	31	120	< 5	11,000	6,700	
TABLE II							
1,1,1-Trichloroethene							
AMC International							
310 Brookhollow Industrial Boulevard							
Date	D Effluent	D Influent	A Effluent pre-carbon	A Effluent post-carbon	A-1 Influent	A-2 Influent	
10/9/2001	58	200,000					
3/5&5/29/2002	460	160,000					
11/12/2002	< 5	110,000					
6/17/2003	< 5	130,000					
1/6-8/2004	5.4	12,000					
8/3-4/2004	5.7	69,000	< 5		140		
1/19-20/2005	< 5	140,000	< 5		140		
6-28-29/2005	< 5	69,000	< 5		< 2,500	< 5	
5/31-6/1/2006	< 5	16,000	< 5		32	24	
4/3-4/2007	1,000	37,000	< 5		< 500	< 50	
4/29-5/1/2008	1,800	14,000	NS		NS	NS	
12/9/2008	NS	NS	NS		NS	NS	
7/28-8/5/2009	< 5	19,000	< 5		14	13	
4/5-9/2010	8.6	20,000	< 5		15	11	
11/29-12/3/2010	< 5	12,000	< 5		< 50	< 500	
06/27-07/1/2011	< 5	17,000	< 51		< 51	< 5	
11/14-18 & 22/2011	110	6,500	< 5	< 5	< 51	10	

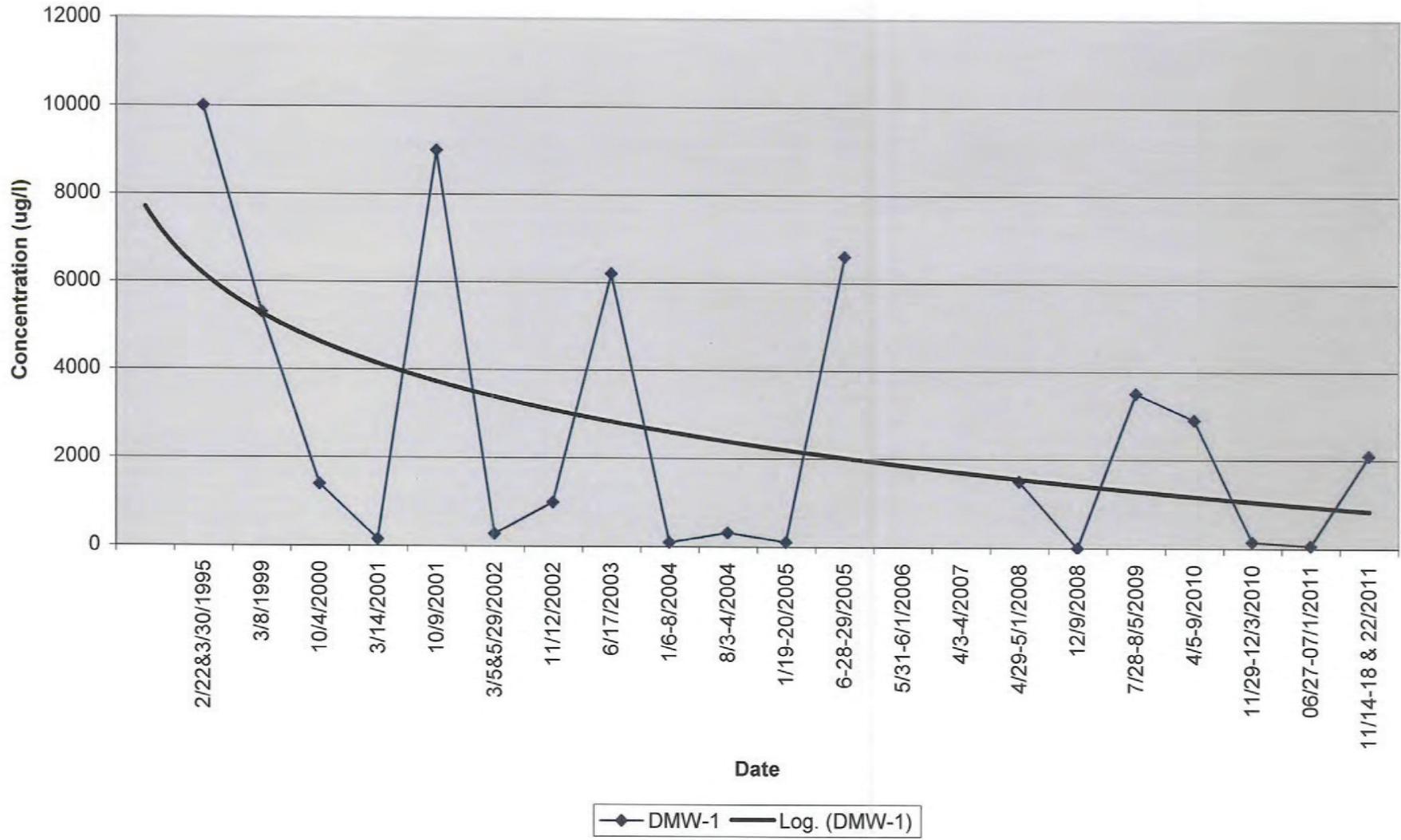
TABLE II							
AMC International				1,1-Dichloroethane			
310 Brookhollow Industrial Boulevard							
Date	D Effluent	D Effluent	D Influent	A Effluent pre-carbon	A Effluent post-carbon	A-1 Influent	A-2 Influent
10/9/2001	< 5	< 5	3,800				
3/5&5/29/2002	18	18	1,500				
11/12/2002	< 5	< 5	1,700				
6/17/2003	< 5	< 5	< 5,000				
1/6-8/2004	< 5	< 5	52	NS		NS	
8/3-4/2004	< 5	< 5	820	< 5		12	
1/19-20/2005	< 5	< 5	1,200	< 5		12	
6-28-29/2005	< 5	< 5	1,300	< 5		< 2,500	< 5
5/31-6/1/2006	< 5	< 5	370	< 5		5.4	< 5
4/3-4/2007	41	41	1,100	< 5		< 500	< 50
4/29-5/1/2008	55	55	340				
12/9/2008	NS	NS	NS	NS		NS	NS
7/28-8/5/2009	< 5	< 5	730	< 5		7	< 5
4/5-9/2010							
11/29-12/3/2010			610				
06/27-07/1/2011	< 5	< 5	810	< 5		< 40	< 40
11/14-18 & 22/2011	10	10	380	< 5	< 5	< 500	< 5
TABLE II							
AMC International				1,1-Dichloroethene			
310 Brookhollow Industrial Boulevard							
Date	D Effluent	D Influent	A Effluent pre-carbon	A Effluent post-carbon	A-1 Influent	A-2 Influent	
10/9/2001	26	38,000					
3/5&5/29/2002	130	80,000					
11/12/2002	< 5	82,000					
6/17/2003	< 5	29,000					
1/6-8/2004	< 5	970	NS		NS		
8/3-4/2004	< 5	11,000	< 5		64		
1/19-20/2005	< 5	40,000	< 5		64		
6-28-29/2005	< 5	18,000	< 5		< 2,500	< 5	
5/31-6/1/2006	< 5	3,600	< 5		22	< 5	
4/3-4/2007	41	12,000	< 5		< 500	< 50	
4/29-5/1/2008	55	3,500					
12/9/2008	NS	NS	NS		NS	NS	
7/28-8/5/2009	< 5	5,400	< 5		< 5	< 5	
4/5-9/2010							
11/29-12/3/2010		4,700					
06/27-07/1/2011	< 5	5,300	< 5		< 120	< 120	
11/14-18 & 22/2011	29	2,300	< 5	< 5	< 500	< 5	



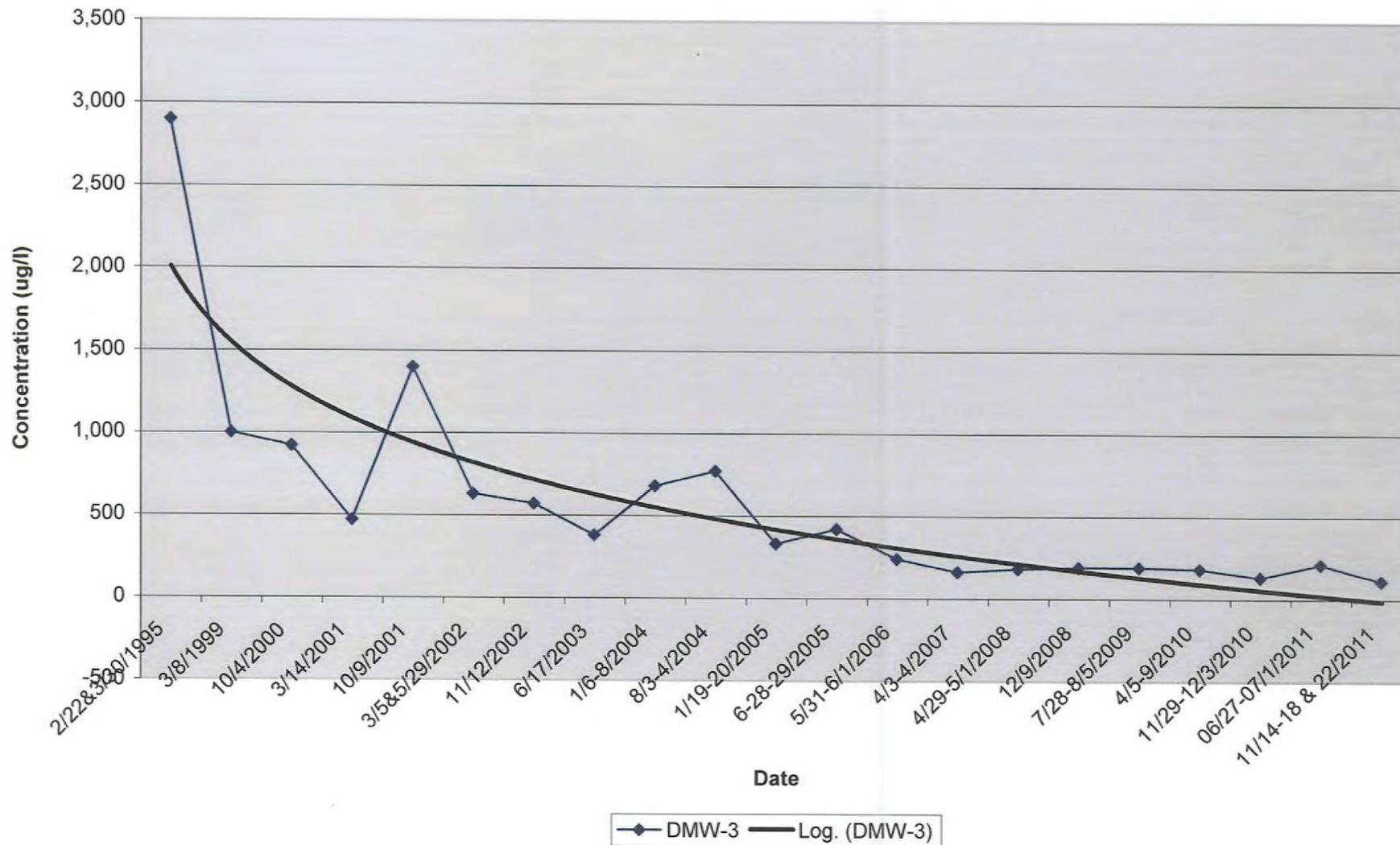
				TABLE II				
	AMC International		Tetrachloroethene					
	310 Brookhollow Industrial Boulevard							
			ASW-1		ASW-4			
	Date		Upstream	ASW-1	(ASW-2)	ASW-ByPass		DSW-1
	1/6-8/2004			< 5	13			NS
	8/3-4/2004			< 5	26			NS
	1/19-20/2005			< 5	91			NS
	6-28-29/2005			< 5	7.3			NS
	5/31-6/1/2006			< 5	< 5			NS
	4/3-4/2007			< 5	< 5			< 5
	4/29-5/1/2008			< 5	< 5			< 5
	12/9/2008			< 5	< 5			< 5
	7/28-8/5/2009			< 5	< 5			< 5
	4/5-9/2010			< 5	83			< 5
	11/29-12/3/2010			< 5	< 5			< 5
	06/27-07/1/2011			< 5	11			NS
	11/14-18 & 22/2011		< 5	< 5	47	< 5		< 5

**APPENDIX E**  
**MONITORING WELL CONCENTRATION VERSUS TIME TREND PLOTS**

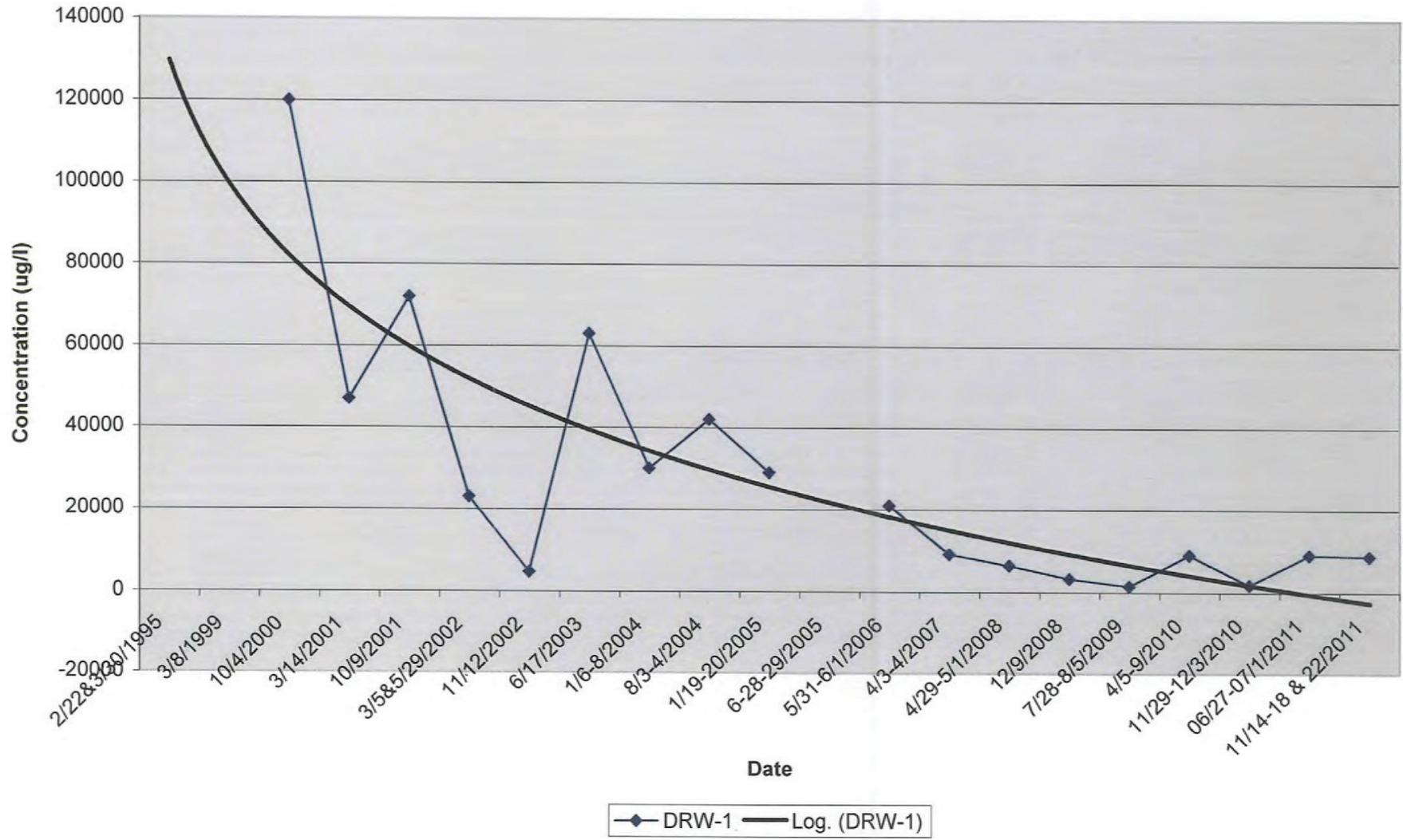
### DMW-1 1,1,1-Trichloroethane Trend (Logarithmic)



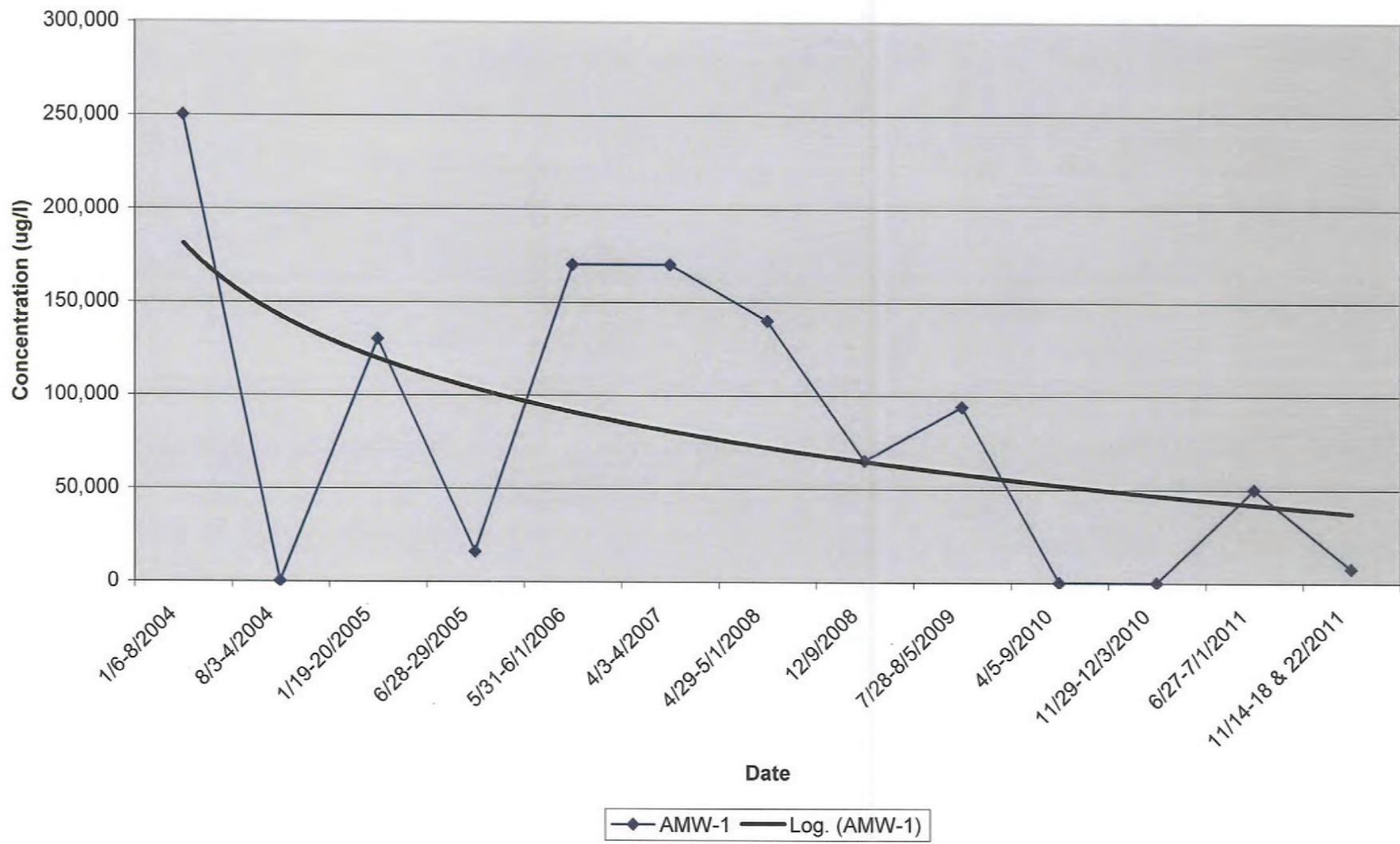
### DMW-3 1,1,1-Trichloroethane Trend (Logarithmic)



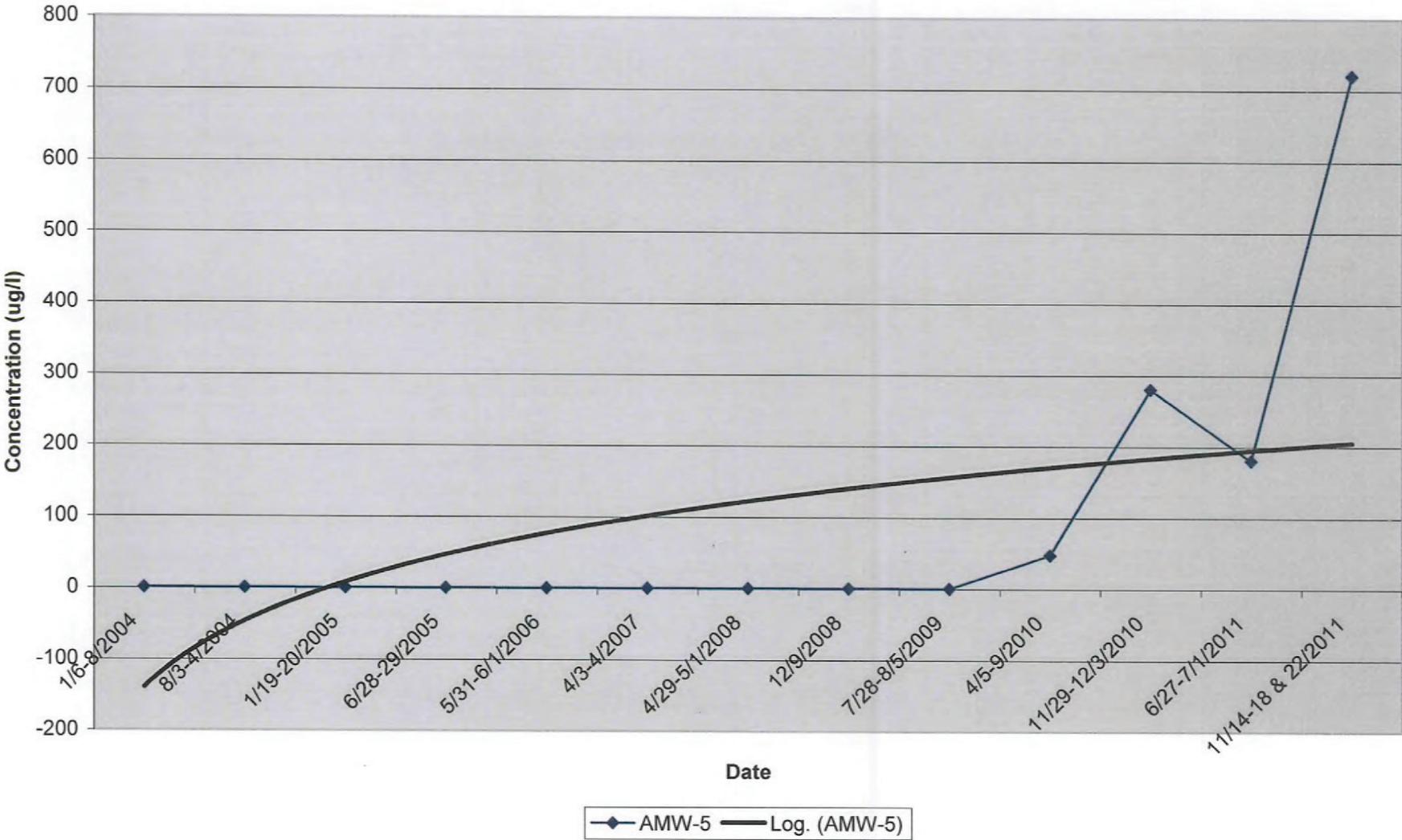
### DRW-1 1,1,1-Trichloroethane Trend (Logarithmic)



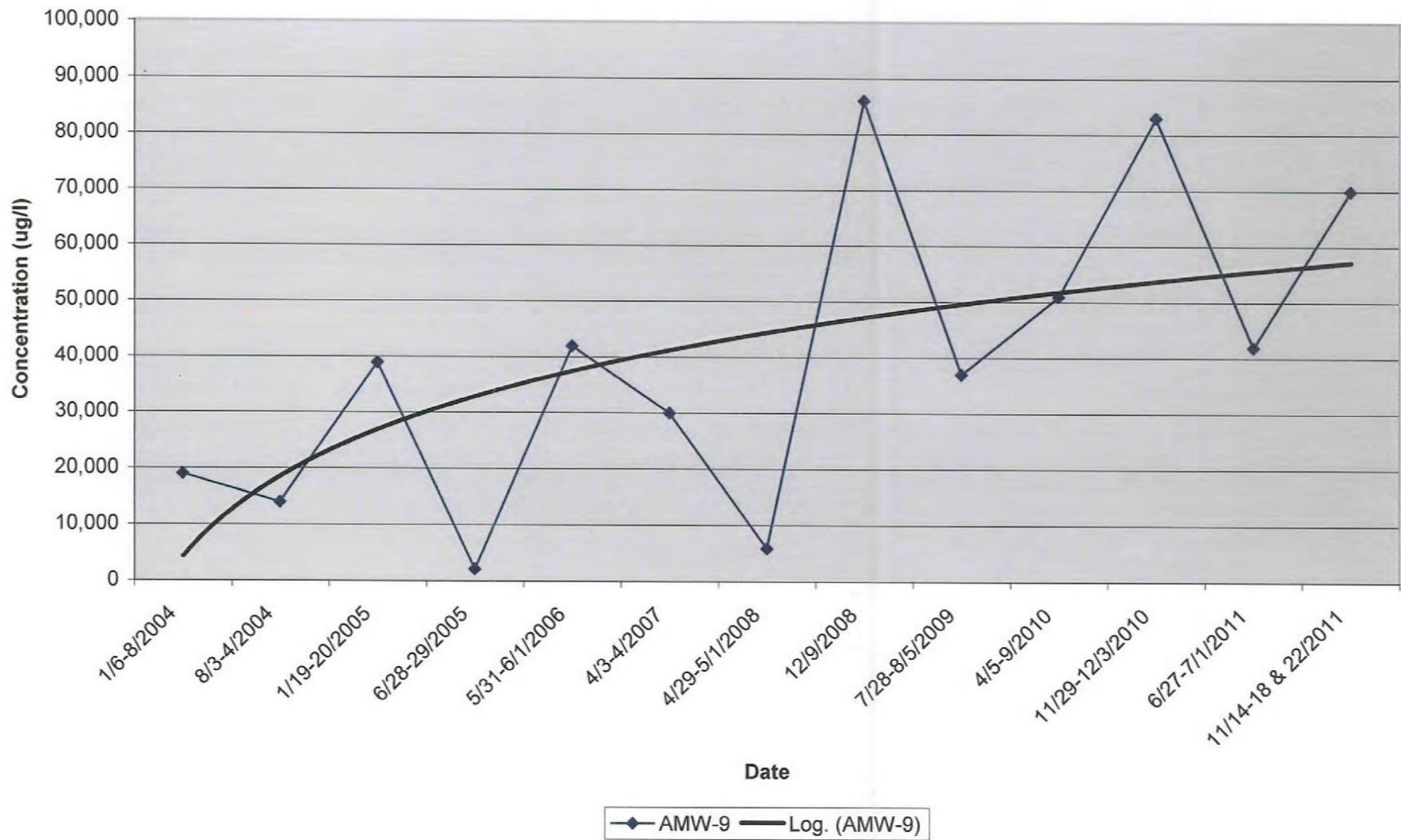
AMW-1  
Tetrachloroethene Trend (Logarithmic)



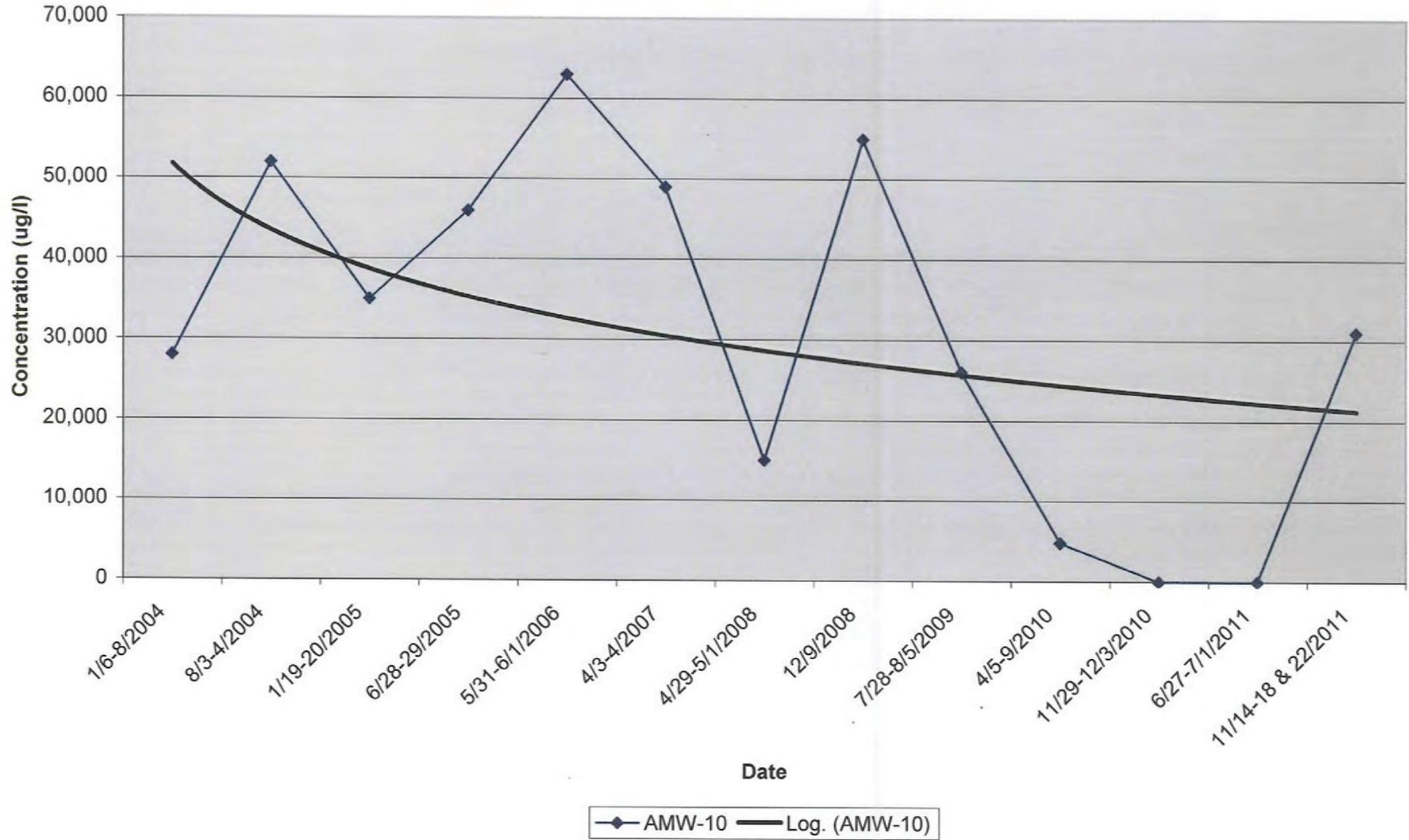
### AMW-5 Tetrachloroethene Trend (Logarithmic)



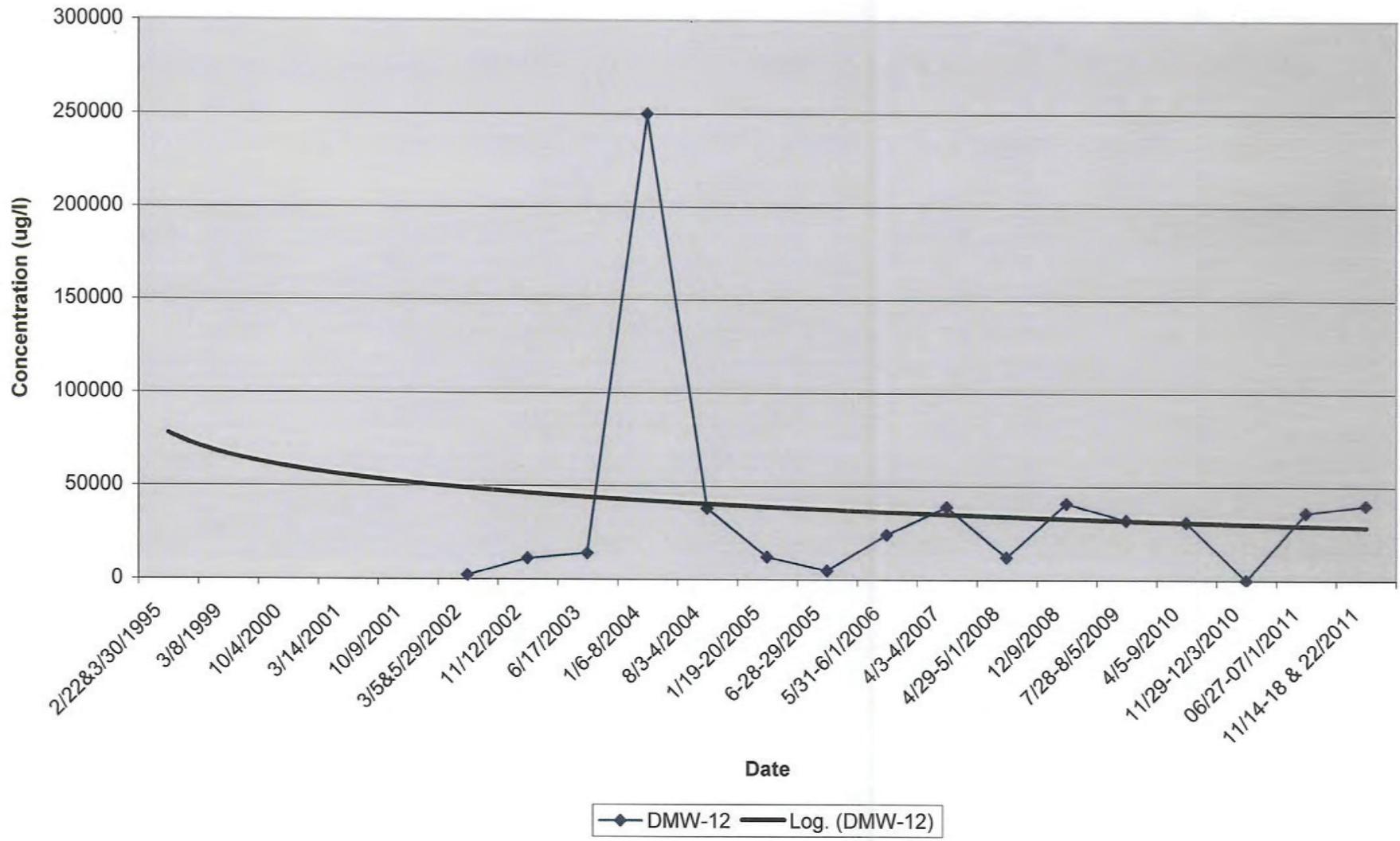
### AMW-9 Tetrachloroethene Trend (Logarithmic)



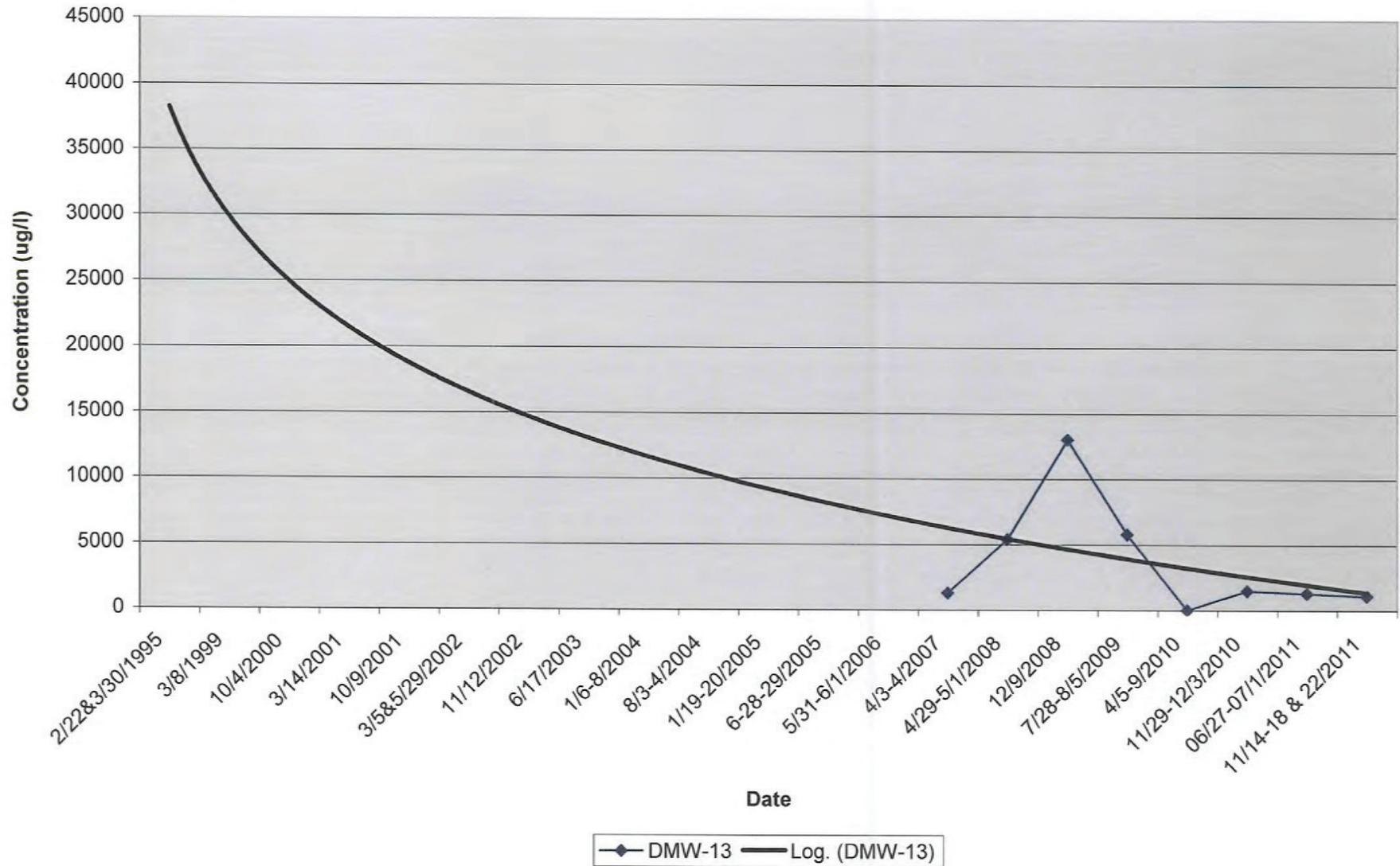
AMW-10  
Tetrachloroethene Trend (Logarithmic)



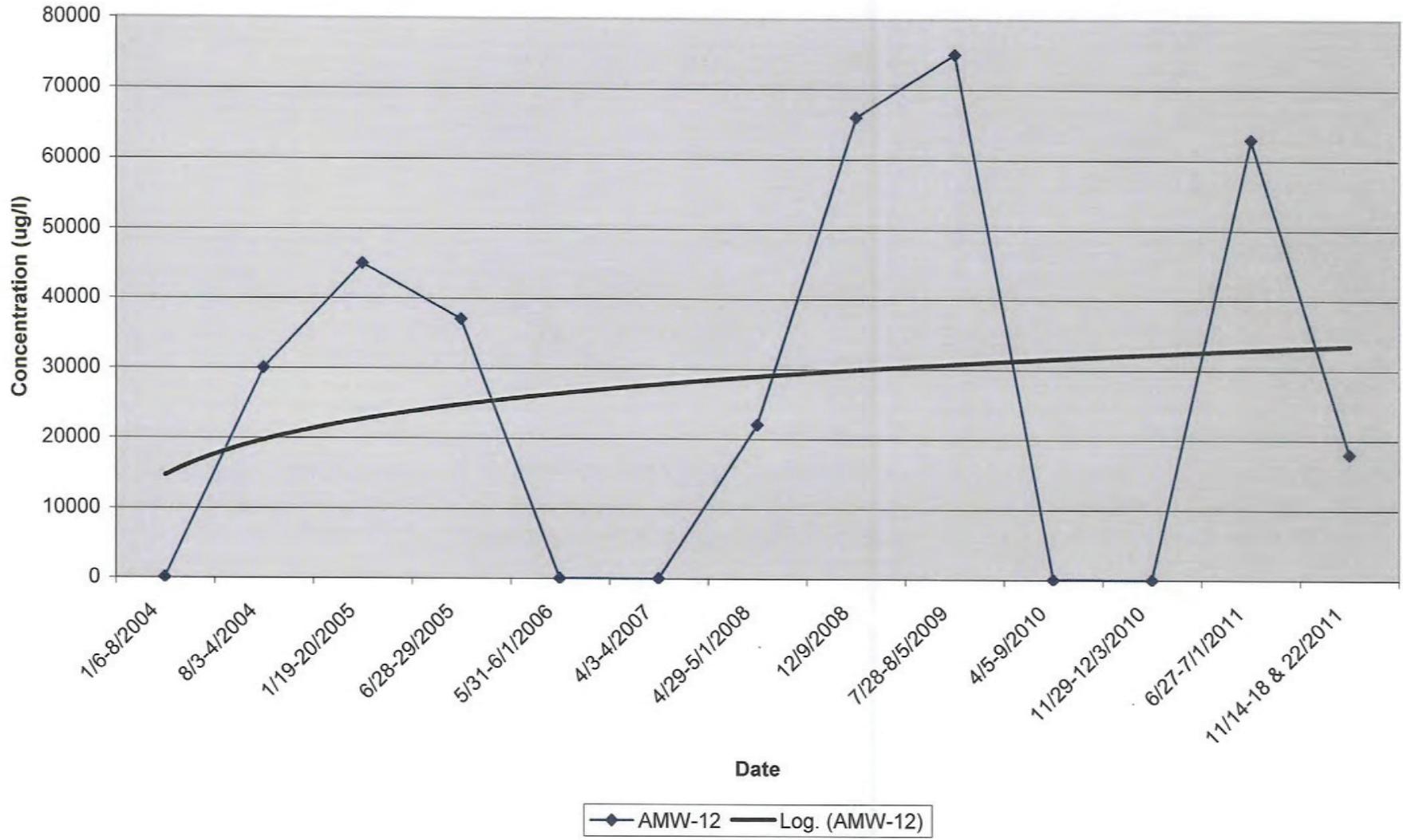
### DMW-12 Tetrachloroethene Trend (Logarithmic)



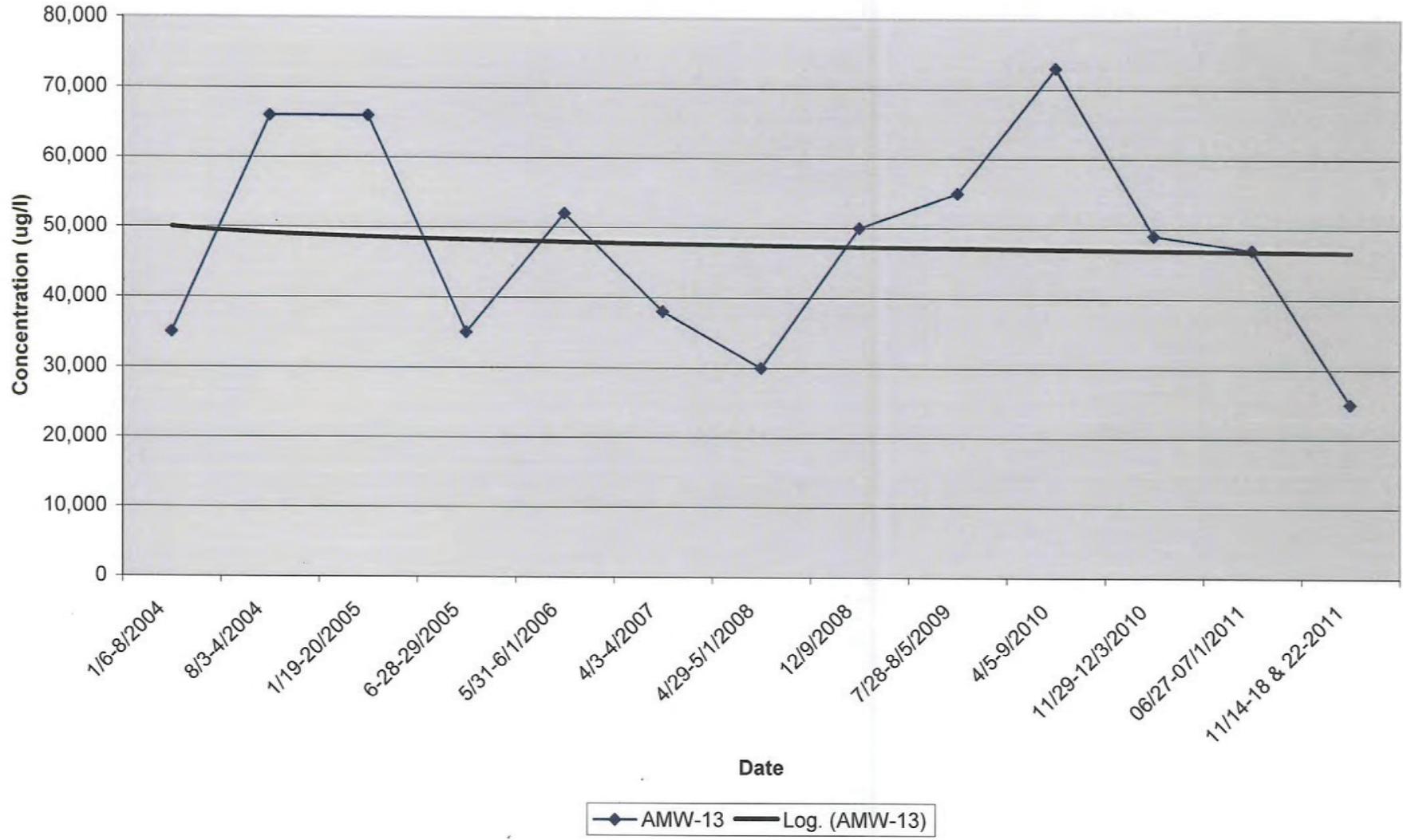
DMW-13 Tetrachloroethene Trend (Logarithmic)



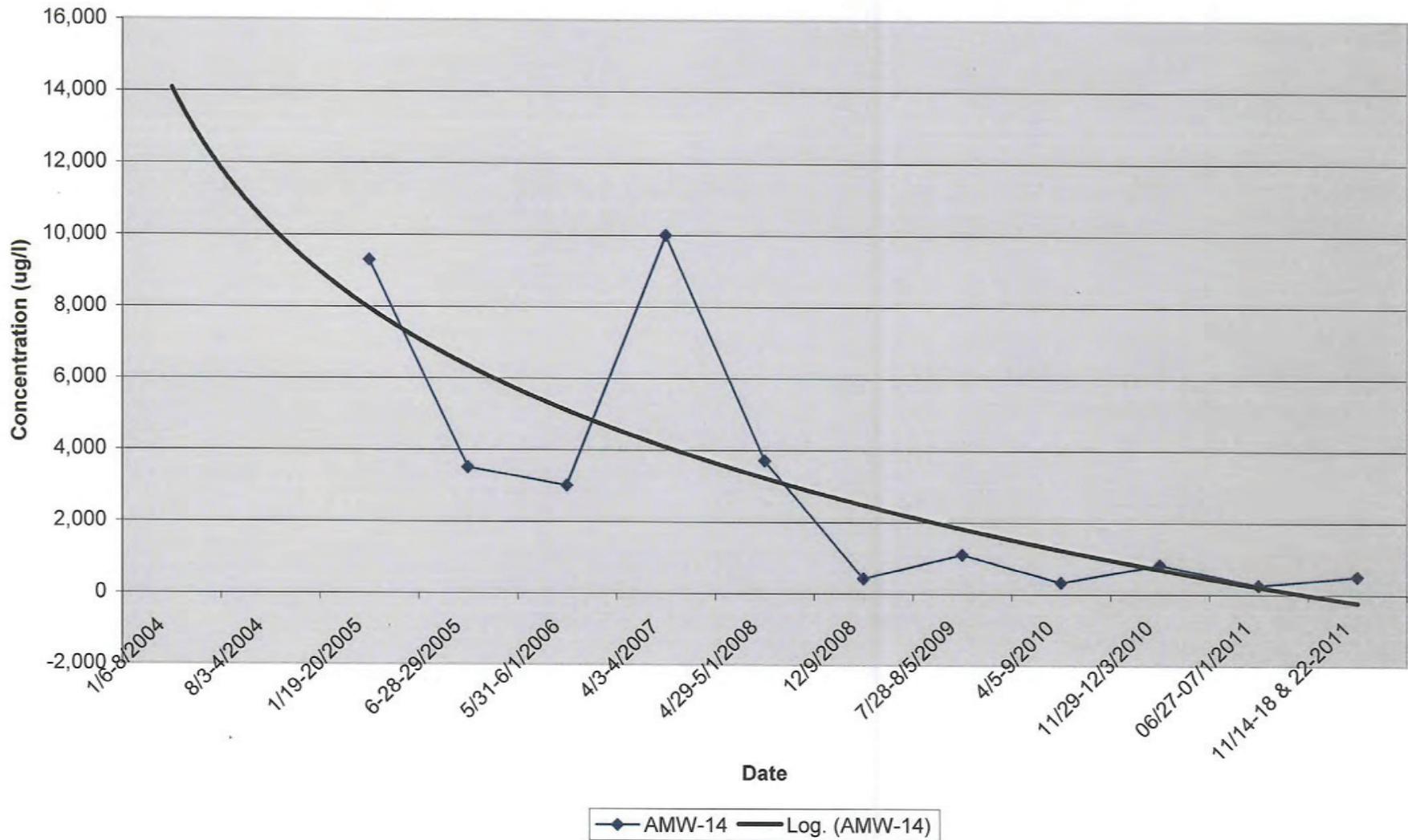
AMW-12  
Tetrachloroethene Trend (Logarithmic)



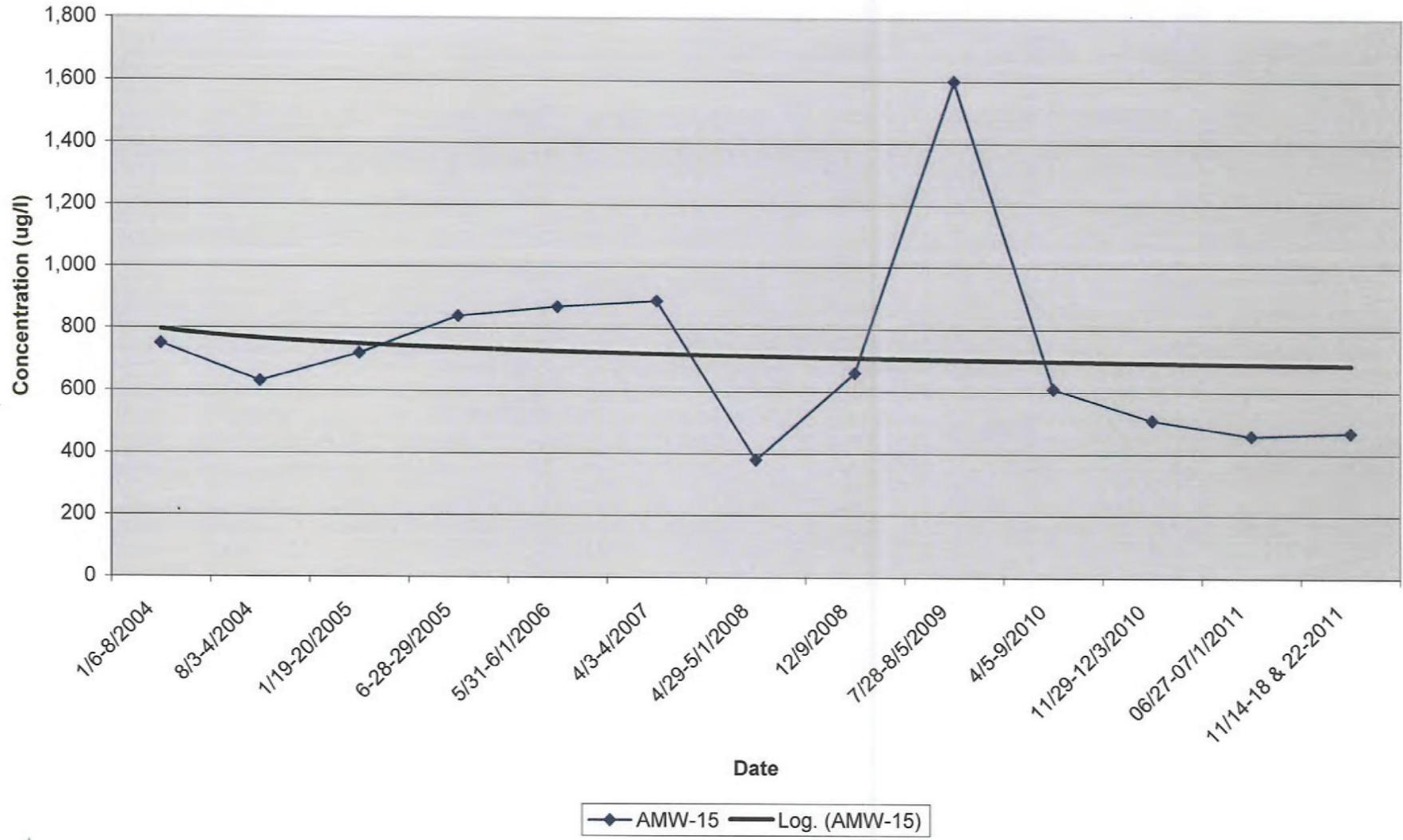
### AMW-13 Tetrachloroethene Trend (Logarithmic)



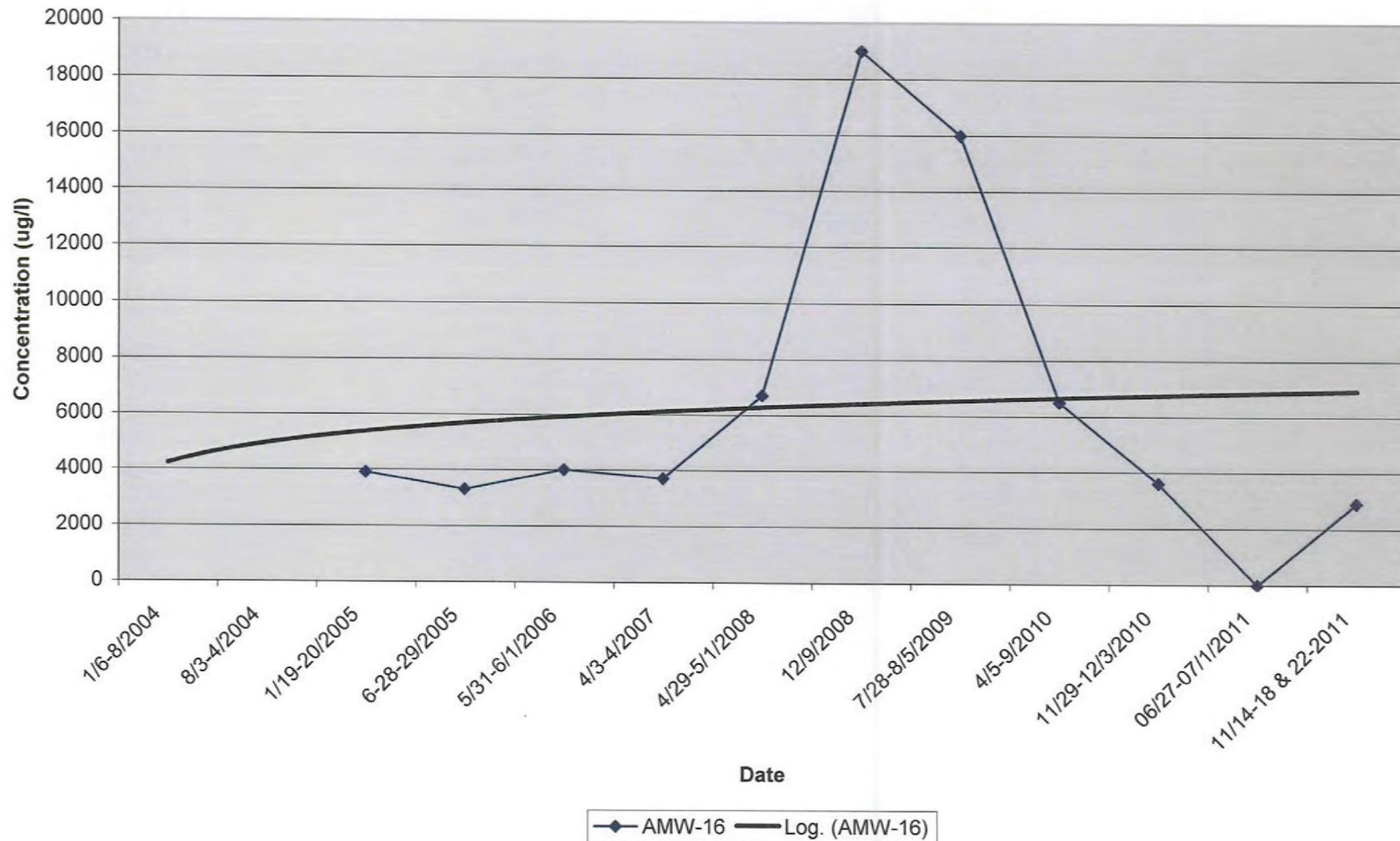
### AMW-14 Tetrachloroethene Trend (Logarithmic)



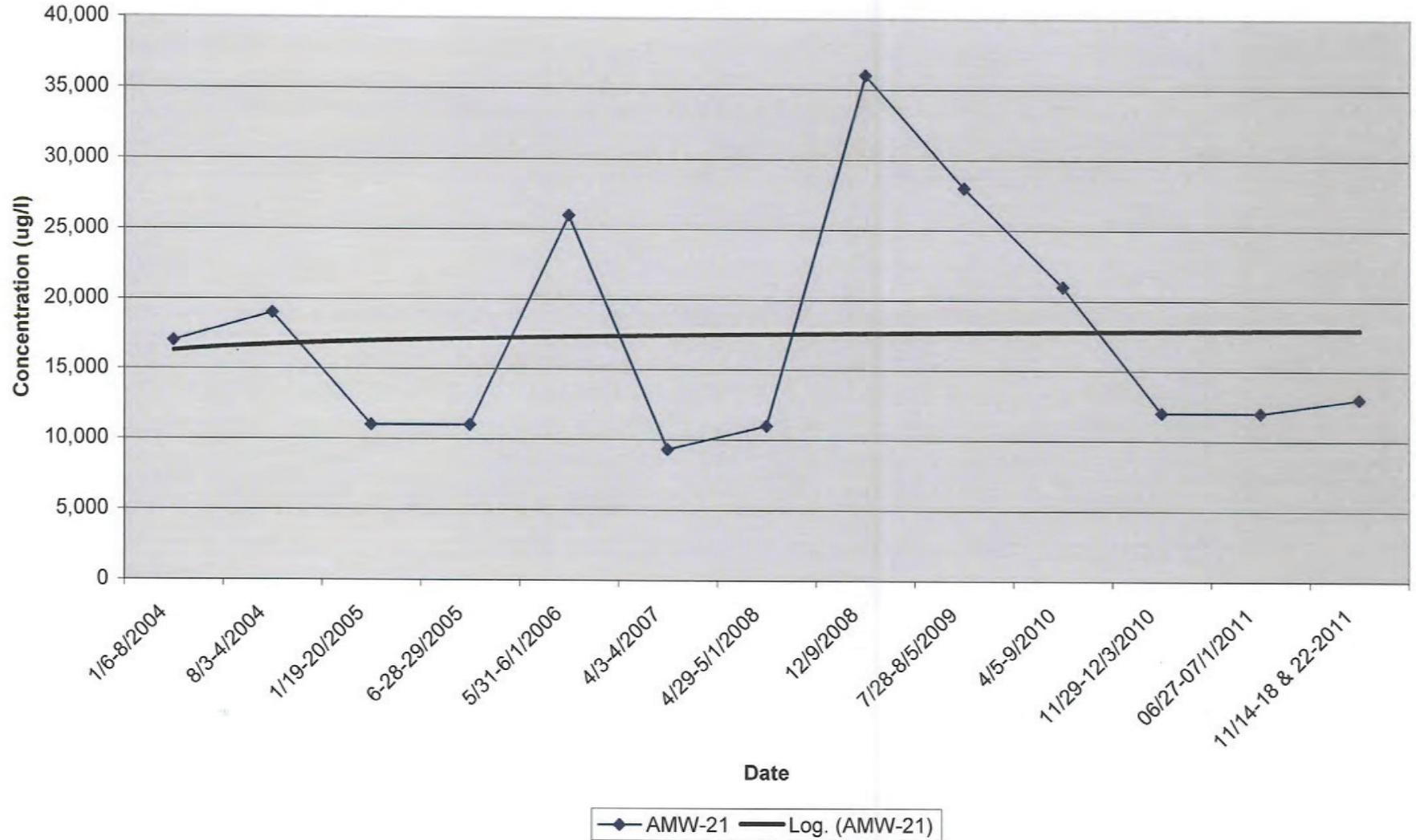
### AMW-15 Tetrachloroethene Trend (Logarithmic)



### AMW-16 Tetrachloroethene Trend (Logarithmic)



**AMW-21**  
**Tetrachloroethene Trend (Logarithmic)**



**APPENDIX F**  
**RISK REDUCTION STANDARDS FOR SOIL AND GROUNDWATER**

## APPENDIX F: RISK REDUCTION STANDARDS FOR APOLLO DALTON SITE

The Apollo Dalton property will remain industrial use in the future. The property is zoned for industrial use. Therefore, the owner has opted to certify the on-site groundwater and soils to non-residential RRS. As such, the detected groundwater and soil concentrations will be compared to RRS calculated for non-residential receptors. Type 1 RRS have been selected for delineation of site constituents. These values are presented on Table F-1 and F-3.

Default Type 3 and Type 4 RRS for industrial workers have been used throughout the site to compare to regulated substances detected during the investigation.

Exposure assumptions used to calculate the soil RRS for the site are listed below:

Parameter	Type 3	Type 4 Industrial Worker
Body Weight	70 kilograms (kg) (HSRA Rule)	70 kg
Exposure Duration	25 years (HSRA Rule)	25 years ( USEPA, 2002)
Exposure Frequency	250 days/year (HSRA Rule)	250 days/year (USEPA, 2002)
Soil Ingestion Rate	50 mg/day (HSRA Rule)	50 mg/day (HSRA Rule)
Air Inhalation Rate	20 m <sup>3</sup> /day (HSRA Rule)	20 m <sup>3</sup> /day (USEPA, 2002)
Particulate Emission Factor	4.63E+9 m <sup>3</sup> /kg (HSRA default)	4.63E+9 m <sup>3</sup> /kg (HSRA default)
Volatilization Factor	Chemical –Specific (see Table F-9)	Chemical –Specific (see Table F-9)

USEPA, 2002 – Supplemental Guidance for Developing Soil Screening Levels for Superfund, OSWER 9355.4-24.

Table F-1 in Appendix F summarizes the soil RRS that have been calculated (Table F-2 through Table F-9). The identified non-residential RRS should be protective of the industrial/commercial workers working at the site.

Table F-2 identifies the toxicity values used for the risk-based calculations. These values were taken from the most recent version (April 2012) of U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) tables and updated with current Integrated Risk Information System (IRIS) values, where applicable. The Weight of Evidence classifications were obtained from the IRIS database.

Table F-3 lists Type 1/3, Type 2, and Type 4 RRS for groundwater. These groundwater RRS serve as target goals for groundwater remediation and the soil to groundwater leaching RRS. Because of the industrial/commercial nature of the area, use of groundwater for potable water is not expected to occur, and the owner will file a deed notice to restrict groundwater use at the site. Nonetheless, at this time, the Type 3 and Type 4 RRS assume ingestion of groundwater as drinking water. The groundwater exposure assumptions for the potential receptors are listed on the bottom of Table F-3.

Table F-4 lists the Type 1 and Type 3 RRS for soils which are calculated in agreement with the HSRA rule. The default exposure assumptions from the Rule are listed on the bottom of the table. Table F-5 presents the soil to groundwater leaching RRS and assumes a dilution attenuation factor (DAF) of 1 for the site-specific Type 4 RRS receptors, based on the size of the groundwater plume. These values are based on equations provided in EPA's Soil Screening Guidance – Technical Background Document (SSG) and use the Type 1 through 4 Groundwater RRS (Table F-3) as target goals for leachate. The physical soil parameters are default parameters listed in the SSG, and the chemical parameters are from the RSL tables, when available. The Non-Residential leaching RRS are the higher of the Type 3 or Type 4 values.

Tables F-6 presents the site-specific calculations for Type 2 RRS, which are based on default assumptions for residential adults and children. The assumptions used are listed on the bottom of Table F-6. Table F-7 presents the calculations used for the site-specific Type 4 RRS, which are based on industrial workers exposure assumptions from USEPA guidance (USEPA, 2002).

Table F-8 lists the volatilization factors used for the detected constituents that are potentially volatile in soil. These factors are used in Tables F-3, F-6, and F-7.

**Table F-1  
Summary of Soil RRS**

<b>PARAMETER</b>	<b>Type 1 RRS mg/kg</b>	<b>Type 2 RRS DAF of 1 mg/kg</b>	<b>Type 3 RRS Surface mg/kg</b>	<b>Type 3 RRS Subsurface mg/kg</b>	<b>Type 4 RRS IW DAF of 1 mg/kg</b>
<b><u>Volatile Organic Compounds (VOCs)</u></b>					
1,1,1-Trichloroethane	2.0E+01	9.3E-01	2.0E+01	2.0E+01	4.7E+00
1,1,2,2-Tetrachloroethane	5.0E-01	2.0E-03	5.0E-01	5.0E-01	2.0E-03
1,1-Dichloroethane	4.0E+02	1.1E+00	4.0E+02	4.0E+02	1.1E+00
1,1-Dichloroethene	7.0E-01	3.7E-02	7.0E-01	7.0E-01	1.9E-01
2-Butanone	2.0E+02	4.7E-01	2.0E+02	2.0E+02	2.4E+00
Acetone	4.0E+02	1.6E+00	4.0E+02	4.0E+02	9.4E+00
Benzene	5.0E-01	2.6E-03	5.0E-01	5.0E-01	4.5E-03
Carbon Disulfide	4.0E+02	1.2E+00	4.0E+02	4.0E+02	1.2E+00
Carbon Tetrachloride	5.0E-01	1.9E-03	5.0E-01	5.0E-01	3.9E-03
Chloroform	3.9E+00	2.2E-02	4.9E+00	8.0E+00	2.2E-02
cis-1,2-Dichloroethene	7.0E+00	2.1E-02	7.0E+00	7.0E+00	6.0E-02
Cyclohexane	2.0E+01	3.6E+00	2.0E+01	2.0E+01	1.8E+01
Ethylbenzene	7.0E+01	7.8E-01	7.0E+01	7.0E+01	7.8E-01
Isopropylbenzene	2.2E+01	3.3E-01	2.2E+01	2.2E+01	1.7E+00
Methylene Chloride	5.0E-01	1.9E-02	5.0E-01	5.0E-01	1.2E-01
Tetrachloroethene	5.0E-01	8.6E-03	5.0E-01	5.0E-01	4.4E-02
Toluene	1.0E+02	6.9E-01	1.0E+02	1.0E+02	3.6E+00
Trichloroethene	5.0E-01	1.8E-03	5.0E-01	5.0E-01	1.9E-03
Xylenes, mixture	1.0E+03	9.8E+00	1.0E+03	1.0E+03	9.8E+00
<b><u>SVOCS</u></b>					
Naphthalene	1.0E+02	6.6E-02	1.0E+02	1.0E+02	6.6E-02

Table F-2  
Toxicity Values

PARAMETER	Chronic Reference Dose		Cancer Slope Factor		Weight of Evidence	Source for Chronic RfDs and SFs
	Oral (RfDo) (mg/kg/day)	Inhalation (RfDi) (mg/kg/day)	Oral (SFo) (mg/kg/day)-1	Inhalation (SFi) (mg/kg/day)-1		
<b><u>Volatile Organic Compounds (VOCs)</u></b>						
1,1,1-Trichloroethane	2.0E+00	1.4E+00	ND	ND	D	IRIS
1,1,2,2-Tetrachloroethane	2.0E-02	ND	2.0E-01	2.0E-01	C	IRIS, CALEPA
1,1-Dichloroethane	2.0E-01	ND	5.7E-03	5.6E-03	C	PPRTV, CALEPA
1,1-Dichloroethene	5.0E-02	5.7E-02	ND	ND	C	IRIS
1,2-Dichloroethane	6.0E-03	2.0E-03	9.1E-02	9.1E-02	B2	IRIS, PPRTV
2-Butanone	6.0E-01	1.4E+00	ND	ND	NA	IRIS
Acetone	9.0E-01	8.9E+00	ND	ND	NA	IRIS, ATSDR
Benzene	4.0E-03	8.6E-03	5.5E-02	2.7E-02	A	IRIS
Carbon Disulfide	1.0E-01	2.0E-01	ND	ND	ND	IRIS
Carbon Tetrachloride	4.0E-03	2.9E-02	7.0E-02	2.1E-02	B2	IRIS
Chloroethane	ND	2.9E+00	ND	ND	NA	IRIS
Chloroform	1.0E-02	2.8E-02	3.1E-02	8.1E-02	B2	IRIS, Cal EPA, ATSDR
Cis-1,2-Dichloroethene	2.0E-03	ND	ND	ND	NA	IRIS
Cyclohexane	ND	1.7E+00	ND	ND	NA	IRIS
Ethylbenzene	1.0E-01	2.9E-01	1.1E-02	8.8E-03	D	CALEPA, IRIS
Isopropylbenzene	1.0E-01	1.1E-01	ND	ND	D	ND
Methylene Chloride	6.0E-03	1.7E-01	2.0E-03	3.5E-05	B2	IRIS, ATSDR
Tetrachloroethene	6.0E-03	1.1E-02	2.1E-03	9.1E-04	B	IRIS
Toluene	8.0E-02	1.4E+00	ND	ND	D	IRIS
Trichloroethene	5.0E-04	5.7E-04	5.0E-02	1.4E-02	A	IRIS
Vinyl chloride	3.0E-03	2.9E-02	7.2E-01	1.5E-02	A	IRIS
Xylenes, mixture	2.0E-01	2.9E-02	ND	ND	NA	IRIS
<b><u>Semi-volatile Organic Compounds</u></b>						
Naphthalene	2.0E-02	8.6E-04	ND	1.2E-01	C	IRIS, CALEPA

SOURCES: EPA Regional Screening Level Table, April 2012.  
 IRIS Integrated Risk Information System  
 PPRTV Provisional Peer Reviewed Toxicity Values  
 CALEPA California Environmental Protection Agency  
 HEAST Health Exposure Assessment Summary Tables  
 ATSDR Agency for Toxic Substances and Disease Registry  
 NCEA National Center for Environmental Assessment  
 NJ New Jersey Department of Environmental Protection  
 ND No Data  
 NA Not Available

Table F-3  
Type 1 through Type 4 Ground Water RRS, mg/L

Parameter	Chronic Reference Dose		Cancer Slope Factor		Source for Chronic RfDs and CSFs	Volatile? (a)	Type 1/ Type 3 (mg/L)	Type 2 Standard (mg/L) Adult		Type 2 Standard (mg/L) Child		Type 2 Overall	Overall Residential	Type 4 (mg/L) Industrial Worker		Type 4 Overall IW	Overall Nonresidential IW
	Oral (mg/kg/day)	Inhalation (mg/kg/day)	Oral (mg/kg/day)-1	Inhalation (mg/kg/day)-1				Noncarcinogenic	Carcinogenic	Noncarcinogenic	Carcinogenic			Noncarcinogenic	Carcinogenic		
<b>Volatile Organic Compounds (VOCs)</b>																	
1,1,1-Trichloroethane	2.0E+00	1.4E+00	ND	ND	IRIS	v	2.0E-01	9.0E+00	ND	2.7E+00	ND	2.7E+00	2.7E+00	1.3E+01	ND	1.3E+01	1.3E+01
1,1,2,2-Tetrachloroethane	2.0E-02	ND	2.0E-01	2.0E-01	IRIS, CALEPA	v	5.0E-03	7.3E-01	7.0E-04	3.1E-01	1.1E-03	7.0E-04	5.0E-03	2.0E+00	1.3E-03	1.3E-03	5.0E-03
1,1-Dichloroethane	2.0E-01	ND	5.7E-03	5.6E-03	PPRTV, CALEPA	v	4.0E+00	7.3E+00	2.5E-02	3.1E+00	3.8E-02	2.5E-02	4.0E+00	2.0E+01	4.6E-02	4.6E-02	4.0E+00
1,2-Dichloroethane	5.0E-02	5.7E-02	ND	ND	IRIS	v	7.0E-03	3.4E-01	ND	1.0E-01	ND	1.0E-01	1.0E-01	5.2E-01	ND	5.2E-01	5.2E-01
2-Butanone	6.0E-03	2.0E-03	9.1E-02	9.1E-02	IRIS, PPRTV	v	5.0E-03	1.4E-02	1.6E-03	4.0E-03	2.4E-03	1.6E-03	5.0E-03	2.0E-02	2.9E-03	2.9E-03	5.0E-03
Acetone	9.0E-01	1.4E+00	ND	ND	IRIS	v	2.0E+00	7.0E+00	ND	2.2E+00	ND	2.2E+00	2.2E+00	1.2E+01	ND	1.2E+01	1.2E+01
Benzene	4.0E-03	8.9E+00	ND	ND	IRIS, ATSDR	v	4.0E+00	2.2E+01	ND	8.0E+00	ND	8.0E+00	8.0E+00	4.6E+01	ND	4.6E+01	4.6E+01
Carbon Disulfide	1.0E-01	8.6E-03	5.5E-02	2.7E-02	IRIS	v	5.0E-03	4.4E-02	4.5E-03	1.4E-02	7.1E-03	4.5E-03	5.0E-03	7.2E-02	8.8E-03	8.8E-03	8.8E-03
Carbon Tetrachloride	1.0E-01	2.0E-01	ND	ND	IRIS	v	4.0E+00	1.0E+00	ND	3.3E-01	ND	3.3E-01	4.0E+00	1.7E+00	ND	1.7E+00	4.0E+00
Chloroethane	4.0E-03	2.9E-02	7.0E-02	2.1E-02	IRIS	v	5.0E-03	8.6E-02	4.9E-03	3.1E-02	8.0E-03	4.9E-03	5.0E-03	1.7E-01	1.0E-02	1.0E-02	1.0E-02
Chloroform	ND	2.9E+00	ND	ND	IRIS	v	1.0E-02	2.1E+01	ND	6.0E+00	ND	6.0E+00	6.0E+00	3.0E+01	ND	3.0E+01	3.0E+01
Cis-1,2-Dichloroethene	1.0E-02	2.8E-02	3.1E-02	8.1E-02	IRIS, Cal EPA, ATSDR	v	8.0E-02	1.3E-01	2.0E-03	4.3E-02	2.9E-03	2.0E-03	8.0E-02	2.2E-01	3.4E-03	3.4E-03	8.0E-02
Cyclohexane	2.0E-03	ND	ND	ND	IRIS	v	7.0E-02	7.3E-02	ND	3.1E-02	ND	3.1E-02	7.0E-02	2.0E-01	ND	2.0E-01	2.0E-01
Ethylbenzene	ND	1.7E+00	ND	ND	IRIS	v	5.0E-03	1.2E+01	ND	3.5E+00	ND	3.5E+00	3.5E+00	1.7E+01	ND	1.7E+01	1.7E+01
Isopropylbenzene	1.0E-01	2.9E-01	1.1E-02	8.8E-03	CALEPA, IRIS	v	7.0E-01	1.3E+00	1.5E-02	4.4E-01	2.4E-02	1.5E-02	7.0E-01	2.3E+00	2.9E-02	2.9E-02	7.0E-01
Methylene Chloride	1.0E-01	1.1E-01	ND	ND	ND	v	5.0E-03	6.6E-01	ND	2.0E-01	ND	2.0E-01	2.0E-01	1.0E+00	ND	1.0E+00	1.0E+00
Tetrachloroethene	6.0E-03	1.7E-01	2.0E-03	3.5E-05	IRIS, ATSDR	v	5.0E-03	1.9E-01	3.9E-01	7.4E-02	8.1E-01	7.4E-02	7.4E-02	4.5E-01	1.2E+00	4.5E-01	4.5E-01
Toluene	6.0E-03	1.1E-02	2.1E-03	9.1E-04	IRIS	v	5.0E-03	6.0E-02	1.3E-01	1.9E-02	2.0E-01	1.9E-02	1.9E-02	9.8E-02	2.6E-01	9.8E-02	9.8E-02
Trichloroethene	8.0E-02	1.4E+00	ND	ND	IRIS	v	1.0E+00	2.3E+00	ND	8.8E-01	ND	8.8E-01	1.0E+00	5.2E+00	ND	5.2E+00	5.2E+00
Vinyl chloride	5.0E-04	5.7E-04	5.0E-02	1.4E-02	IRIS	v	5.0E-03	3.4E-03	7.1E-03	1.0E-03	1.2E-02	1.0E-03	5.0E-03	5.2E-03	1.5E-02	1.5E-02	5.2E-03
Xylenes, mixture	3.0E-03	2.9E-02	7.2E-01	1.5E-02	IRIS	v	2.0E-03	7.2E-02	1.1E-03	2.6E-02	2.2E-03	1.1E-03	2.0E-03	1.5E-01	3.3E-03	3.3E-03	3.3E-03
	2.0E-01	2.9E-02	ND	ND	IRIS	v	1.0E+01	2.1E-01	ND	5.9E-02	ND	5.9E-02	1.0E+01	2.9E-01	ND	2.9E-01	1.0E+01
<b>Semi-volatile Organic Compounds</b>																	
Naphthalene	2.0E-02	8.6E-04	ND	1.2E-01	IRIS, CALEPA	v	2.0E-02	6.2E-03	1.4E-03	1.8E-03	2.0E-03	1.4E-03	2.0E-02	8.8E-03	2.4E-03	2.4E-03	2.0E-02

Equation 2 (Noncarcinogens):

Equation 1 (Carcinogens):

IRIS Integrated Risk Information System

HEAST - Health Effects Assessment Summary Table FY1997, USEPA.  
NCEA - National Center for Exposure Assessment, USEPA.  
PPRTV - Provisional Peer Reviewed Toxicity Values, USEPA.  
Cal EPA - California Environmental Protection Agency

$$C = \frac{THI \times BW \times AT \times 365 \text{days/year}}{EF \times ED \times [(1/RfDi \times K \times IRa) + (1/RfDo \times IRw)]}$$

$$C = \frac{TR \times BW \times AT \times 365 \text{days/year}}{EF \times ED \times [(SfI \times K \times IRa) + (SfO \times IRw)]}$$

ND Toxicity values not available

DL Detection limit

(a) Compound is not volatile in water.

Where:

THI = Target Hazard Index =  
BW = Body Weight =  
AT = Averaging Time =  
EF = Exposure Frequency =  
ED = Exposure Duration =  
RfDi = Inhalation Reference Dose =  
K = Volatilization Factor = 0.0005 x 1000 L/m3 =  
IRa = Inhalation Rate for Air =  
RfDo = Oral Reference Dose =  
IRw = Ingestion Rate for Water =  
TR = Target Risk =

SfO = Oral Cancer Slope Factor =  
SfI = Inhalation Cancer Slope Factor =

Type 2 Adult

1  
70 kg  
30 years (noncarc.); 70 (carc)  
350 days/year

30 years  
Chemical Specific  
0.5 L/m3  
20 m3/day  
Chemical Specific  
2 L/day  
0.00001

Chemical Specific  
Chemical Specific

Type 2 Parameters Child

1  
15 kg  
6 years (noncarc.); 70 (carcinogens)  
350 days/year

6 years  
Chemical Specific  
0.5 L/m3  
15 m3/day  
Chemical Specific  
1 L/day  
0.00001

Chemical Specific  
Chemical Specific

Type 4 Industrial Worker Parameters

1  
70 kg  
25 years for noncarcinogens; 70 years for carc.  
250 day/year

25 year  
Chemical Specific  
0.5 L/m3  
20 m3/day  
Chemical Specific  
1 L/day  
0.00001

Chemical Specific  
Chemical Specific

Table F-4  
Type 1 and Type 3 Soil RRS, mg/kg

PARAMETER	Volatilization Factor (m <sup>3</sup> /kg)	HSRA Type I Soil Criteria (mg/kg) (a)	HSRA Appendix I Value (mg/kg) (b)	Type I Groundwater RRS (mg/L) (c)	Type 1 GW RRS x 100 (mg/kg)	Number 1 (mg/kg) (d)	Risk-Based Residential Type 1 Noncarcinogenic (mg/kg) (e)	Risk-Based Residential Type 1 Carcinogenic (mg/kg) (f)	Risk-Based Soil Type 1 RRS (mg/kg) (g)	Overall Type 1 RRS (mg/kg) (h)	Risk-Based Nonresidential Type 3 Noncarcinogenic (mg/kg) (e)	Risk-Based Nonresidential Type 3 Carcinogenic (mg/kg) (f)	Risk-Based Soil Type 3 RRS (mg/kg) (g)	Subsurface Soil Type 3 RRS (mg/kg) (i)	Surface Soil Type 3 RRS (mg/kg) (j)
<b>Volatile Organic Compounds (VOCs)</b>															
1,1,1-Trichloroethane	1.6E+03	ND	5.4E+00	2.0E-01		2.0E+01	1.0E+04	ND	1.0E+04	2.0E+01	1.1E+04	ND	1.1E+04	2.0E+01	2.0E+01
1,1,2,2-Tetrachloroethane	1.9E+04	ND	1.3E-01	5.0E-03	RL	5.0E-01	1.3E+04	9.5E+01	9.5E+01	5.0E-01	4.1E+04	1.3E+02	1.3E+02	5.0E-01	5.0E-01
1,1-Dichloroethane	2.1E+03	ND	3.0E-02	4.0E+00		4.0E+02	1.3E+05	4.2E+02	4.2E+02	4.0E+02	4.1E+05	5.4E+02	5.4E+02	4.0E+02	4.0E+02
1,1-Dichloroethene	8.7E+02	ND	3.6E-01	7.0E-03		7.0E-01	2.4E+02	ND	2.4E+02	7.0E-01	2.5E+02	ND	2.5E+02	7.0E-01	7.0E-01
2-Butanone	7.8E+03	ND	7.9E-01	2.0E+00		2.0E+02	4.7E+04	ND	4.7E+04	2.0E+02	5.4E+04	ND	5.4E+04	2.0E+02	2.0E+02
Acetone	6.7E+03	ND	2.7E+00	4.0E+00		4.0E+02	1.9E+05	ND	1.9E+05	4.0E+02	2.6E+05	ND	2.6E+05	4.0E+02	4.0E+02
Benzene	4.5E+03	ND	2.0E-02	5.0E-03		5.0E-01	1.8E+02	1.8E+01	1.8E+01	5.0E-01	1.9E+02	2.3E+01	2.3E+01	5.0E-01	5.0E-01
Carbon Disulfide	8.9E+02	ND	DL	4.0E+00		4.0E+02	8.5E+02	ND	8.5E+02	4.0E+02	9.0E+02	ND	9.0E+02	4.0E+02	4.0E+02
Carbon Tetrachloride	1.3E+03	ND	1.7E-01	5.0E-03		5.0E-01	1.7E+02	6.6E+00	6.6E+00	5.0E-01	1.8E+02	8.4E+00	8.4E+00	5.0E-01	5.0E-01
Chloroform	2.8E+03	ND	6.8E-01	8.0E-02		8.0E+00	3.6E+02	3.9E+00	3.9E+00	3.9E+00	3.9E+02	4.9E+00	4.9E+00	8.0E+00	4.9E+00
cis-1,2-Dichloroethene	2.7E+03	ND	5.3E-01	7.0E-02		7.0E+00	1.3E+03	ND	1.3E+03	7.0E+00	4.1E+03	ND	4.1E+03	7.0E+00	7.0E+00
Cyclohexane	7.8E+02	ND	2.0E+01	5.0E-03	RL	5.0E-01	6.4E+03	ND	6.4E+03	2.0E+01	6.8E+03	ND	6.8E+03	2.0E+01	2.0E+01
Ethylbenzene	7.6E+03	ND	2.0E+01	7.0E-01		7.0E+01	9.2E+03	9.2E+01	9.2E+01	7.0E+01	1.1E+04	1.2E+02	1.2E+02	7.0E+01	7.0E+01
Isopropylbenzene	8.4E+03	ND	2.2E+01	5.0E-03	RL	5.0E-01	4.2E+03	ND	4.2E+03	2.2E+01	4.6E+03	ND	4.6E+03	2.2E+01	2.2E+01
Methylene Chloride	2.1E+03	ND	8.0E-02	5.0E-03		5.0E-01	1.2E+03	3.6E+03	1.2E+03	5.0E-01	1.6E+03	6.7E+03	1.6E+03	5.0E-01	5.0E-01
Tetrachloroethene	2.7E+03	ND	1.8E-01	5.0E-03		5.0E-01	1.4E+02	3.2E+02	1.4E+02	5.0E-01	1.5E+02	4.1E+02	1.5E+02	5.0E-01	5.0E-01
Toluene	5.6E+03	ND	1.4E+01	1.0E+00		1.0E+02	2.2E+04	ND	2.2E+04	1.0E+02	3.2E+04	ND	3.2E+04	1.0E+02	1.0E+02
Trichloroethene	2.5E+03	ND	1.3E-01	5.0E-03		5.0E-01	6.7E+00	1.9E+01	6.7E+00	5.0E-01	7.1E+00	2.5E+01	7.1E+00	5.0E-01	5.0E-01
Xylenes, mixture	7.9E+03	ND	2.0E+01	1.0E+01		1.0E+03	1.1E+03	ND	1.1E+03	1.0E+03	1.2E+03	ND	1.2E+03	1.0E+03	1.0E+03
<b>SVOCS</b>															
Naphthalene	6.4E+04	ND	1.0E+02	2.0E-02		2.0E+00	2.6E+02	6.1E+02	2.6E+02	1.0E+02	2.8E+02	7.7E+02	2.8E+02	1.0E+02	1.0E+02

Notes:

- (a) Table 2, Appendix III of HSRA regulations  
 (b) Appendix I of HSRA regulations. Value is the soil concentration that triggers notification requirements.  
 (c) Table 1, Appendix III of HSRA regulations. For those substances not listed, reporting limit used as the Type I groundwater RRS.  
 (d) Value is the highest of the Appendix I value and the groundwater RRS x 100.

(e) 
$$\frac{THI \times BW \times ATn \times 365 \text{days/year}}{EF \times ED \times [(1/RI_{Di} \times (1/VF + 1/PEF) \times InhR) + (1/RI_{Do} \times Irs \times CF)]}$$

(f) 
$$\frac{TR \times BW \times ATc \times 365 \text{days/year}}{EF \times ED \times [(SFi \times (1/VF + 1/PEF) \times InhR) + (Sfo \times Irs \times CF)]}$$

- (g) Minimum of noncarcinogenic and carcinogenic concentrations.  
 (h) Minimum concentration of Number 1 and Type 1 RRS.  
 (i) Maximum concentration of Number 1 and HSRA Type 1 Soil Criteria.  
 (j) Minimum concentration of the risk-based soil Type 3 RRS and the subsurface soil Type 3 RRS.  
 RL Reporting Limit  
 RRS Risk Reduction Standard  
 GW Groundwater  
 ND Not Determined - Can not be calculated

Exposure Parameters	Residential	Nonresidential	Unit
	Type 1	Type 3	
Total Hazard Index (THI)	1	1	unitless
Target Risk (TR)	1.E-05	1.E-05	unitless
Target Risk (TR) WOE - C	1.E-04	1.E-04	
Body Weight (BW)	70	70	kg
Averaging Time, Carcinogen (ATc)	70	70	yrs
Averaging Time, Noncarcinogen (ATn)	30	25	yrs
Exposure Duration (ED)	30	25	yrs
Exposure Frequency (EF)	350	250	days/yr
Soil Ingestion Rate (IRs)	114	50	mg/day
Air Inhalation Rate (InhR)	15	20	m <sup>3</sup> /day
Particulate Emission Factor (PEF)	4.63E+09	4.63E+09	m <sup>3</sup> /kg
Conversion Factor (CF)	1.E-06	1.E-06	kg/mg
Volatilization Factor (VF)	Chemical-specific ;chemical-specific		m <sup>3</sup> /kg

Table F-5  
Soil to Ground water Leachability

	$K_d$ (L/kg) (1)	$K_{oc}$ (L/kg) (2)	Source	$\phi_w$	$\phi_a$	H' (unitless)	$\phi_w + \phi_a * H' / \rho_b$	Groundwater Type 1/3 RRS ( $C_w$ , mg/L)	$C_w * 1$	Pathway Type 1/3 $C_s$ (mg/kg)	Groundwater Type 2 RRS ( $C_w$ , mg/L)	$C_w * 1$	Pathway Type 2 $C_s$ (mg/kg)	Residential Soil Leaching Criteria (3)	Industrial Worker Groundwater Type 4 RRS ( $C_w$ , mg/L)	$C_w * 1$	Pathway Type 4 $C_s$ (mg/kg)	Industrial Worker Soil Leaching Criteria (4)
foc=0.002																		
<b>Volatile Organic Compounds (VOCs)</b>																		
1,1,1-Trichloroethane	8.8E-02	4.4E+01	RSL	3.0E-01	1.3E-01	7.0E-01	2.6E-01	2.0E-01	2.0E-01	7.0E-02	2.7E+00	2.7E+00	9.3E-01	9.3E-01	1.3E+01	1.3E+01	4.7E+00	4.7E+00
1,1,2,2-Tetrachloroethane	1.9E-01	9.5E+01	RSL	3.0E-01	1.3E-01	1.5E-02	2.0E-01	5.0E-03	5.0E-03	2.0E-03	7.0E-04	7.0E-04	2.7E-04	2.0E-03	1.3E-03	1.3E-03	5.0E-04	2.0E-03
1,1-Dichloroethane	6.4E-02	3.2E+01	RSL	3.0E-01	1.3E-01	2.3E-01	2.2E-01	4.0E+00	4.0E+00	1.1E+00	2.5E-02	2.5E-02	7.2E-03	1.1E+00	4.6E-02	4.6E-02	1.3E-02	1.1E+00
1,1-Dichloroethene	6.4E-02	3.2E+01	RSL	3.0E-01	1.3E-01	1.1E+00	3.0E-01	7.0E-03	7.0E-03	2.5E-03	1.0E-01	1.0E-01	3.7E-02	3.7E-02	5.2E-01	5.2E-01	1.9E-01	1.9E-01
2-Butanone	9.0E-03	4.5E+00	RSL	3.0E-01	1.3E-01	2.3E-03	2.0E-01	2.0E+00	2.0E+00	4.2E-01	2.2E+00	2.2E+00	4.7E-01	4.7E-01	1.2E+01	1.2E+01	2.4E+00	2.4E+00
Acetone	4.7E-03	2.4E+00	RSL	3.0E-01	1.3E-01	1.4E-03	2.0E-01	4.0E+00	4.0E+00	8.2E-01	8.0E+00	8.0E+00	1.6E+00	1.6E+00	4.6E+01	4.6E+01	9.4E+00	9.4E+00
Benzene	2.9E-01	1.5E+02	RSL	3.0E-01	1.3E-01	2.3E-01	2.2E-01	5.0E-03	5.0E-03	2.6E-03	4.5E-03	4.5E-03	2.3E-03	2.6E-03	8.8E-03	8.8E-03	4.5E-03	4.5E-03
Carbon Disulfide	4.3E-02	2.2E+01	RSL	3.0E-01	1.3E-01	5.9E-01	2.5E-01	4.0E+00	4.0E+00	1.2E+00	3.3E-01	3.3E-01	9.7E-02	1.2E+00	1.7E+00	1.7E+00	5.0E-01	1.2E+00
Carbon Tetrachloride	8.7E-02	4.3E+01	RSL	3.0E-01	1.3E-01	1.1E+00	3.0E-01	5.0E-03	5.0E-03	1.9E-03	4.9E-03	4.9E-03	1.9E-03	1.9E-03	1.0E-02	1.0E-02	3.9E-03	3.9E-03
Chloroform	6.4E-02	3.2E+01	RSL	3.0E-01	1.3E-01	1.5E-01	2.1E-01	8.0E-02	8.0E-02	2.2E-02	2.0E-03	2.0E-03	5.4E-04	2.2E-02	3.4E-03	3.4E-03	9.4E-04	2.2E-02
Cis-1,2-Dichloroethene	7.9E-02	4.0E+01	RSL	3.0E-01	1.3E-01	1.7E-01	2.1E-01	7.0E-02	7.0E-02	2.1E-02	3.1E-02	3.1E-02	9.2E-03	2.1E-02	2.0E-01	2.0E-01	6.0E-02	6.0E-02
Cyclohexane	2.9E-01	1.5E+02	RSL	3.0E-01	1.3E-01	6.1E+00	7.3E-01	5.0E-03	5.0E-03	5.1E-03	3.5E+00	3.5E+00	3.6E+00	3.6E+00	1.7E+01	1.7E+01	1.8E+01	1.8E+01
Ethylbenzene	8.9E-01	4.5E+02	RSL	3.0E-01	1.3E-01	3.2E-01	2.3E-01	7.0E-01	7.0E-01	7.8E-01	1.5E-02	1.5E-02	1.7E-02	7.8E-01	2.9E-02	2.9E-02	3.2E-02	7.8E-01
Isopropylbenzene	1.4E+00	7.0E+02	RSL	3.0E-01	1.3E-01	4.7E-01	2.4E-01	5.0E-03	5.0E-03	8.2E-03	2.0E-01	2.0E-01	3.3E-01	3.3E-01	1.0E+00	1.0E+00	1.7E+00	1.7E+00
Methylene Chloride	4.3E-02	2.2E+01	RSL	3.0E-01	1.3E-01	1.3E-01	2.1E-01	5.0E-03	5.0E-03	1.3E-03	7.4E-02	7.4E-02	1.9E-02	1.9E-02	4.5E-01	4.5E-01	1.2E-01	1.2E-01
Tetrachloroethene	1.9E-01	9.5E+01	RSL	3.0E-01	1.3E-01	7.2E-01	2.6E-01	5.0E-03	5.0E-03	2.3E-03	1.9E-02	1.9E-02	8.6E-03	8.6E-03	9.8E-02	9.8E-02	4.4E-02	4.4E-02
Toluene	4.7E-01	2.3E+02	RSL	3.0E-01	1.3E-01	2.7E-01	2.2E-01	1.0E+00	1.0E+00	6.9E-01	8.8E-01	8.8E-01	6.1E-01	6.9E-01	5.2E+00	5.2E+00	3.6E+00	3.6E+00
Trichloroethene	1.2E-01	6.1E+01	RSL	3.0E-01	1.3E-01	4.0E-01	2.3E-01	5.0E-03	5.0E-03	1.8E-03	1.0E-03	1.0E-03	3.7E-04	1.8E-03	5.2E-03	5.2E-03	1.9E-03	1.9E-03
Xylenes, mixture	7.7E-01	3.8E+02	RSL	3.0E-01	1.3E-01	2.1E-01	2.2E-01	1.0E+01	1.0E+01	9.8E+00	5.9E-02	5.9E-02	5.8E-02	9.8E+00	2.9E-01	2.9E-01	2.9E-01	9.8E+00
<b>Semi-volatile Organic Compounds</b>																		
Naphthalene	3.1E+00	1.5E+03	RSL	3.0E-01	1.3E-01	1.8E-02	2.0E-01	2.0E-02	2.0E-02	6.6E-02	1.4E-03	1.4E-03	4.7E-03	6.6E-02	2.4E-03	2.4E-03	7.8E-03	6.6E-02

NA Not Available

ND No Data Available

RSL EPA Regional Screening Level

HSDB Toxnet Hazardous Substances Data Base

1.  $K_d$  values taken from USEPA Regional Screening Table User's Guide.

2.  $K_{oc}$  values taken from the EPA RSL Chemical-specific Parameters Supporting Table May 2010 unless otherwise noted.  $K_d = K_{oc} * f_{oc}$  where  $f_{oc}$  equals 0.00143 {Site Specific}.

3. Residential leaching value is the higher of the values based on the Type 1 and Type 2 groundwater RRS.

4. Non-residential leaching value is the higher of the values based on Type 3 and Type 4 groundwater RRS.

$\phi_w$  Water-filled soil porosity = 0.3 (L/L)

$\phi_a$  Air-filled soil porosity = 0.13 (L/L)

H' Dimensionless Henry Law Constant (HLC x 41) (unitless)

$\rho_b$  Dry soil bulk density = 1.5 kg/L

RRS Risk Reduction Standard

$C_w$  Target Leachate Concentration (mg/L)

$C_s$  Screening Level in soil (mg/kg)

**Table F-6**  
**Type 2 Soil RRS, mg/kg**

PARAMETER	Volatilization Factor (m <sup>3</sup> /kg)	Residential Leaching DAF=1 (mg/kg)	Risk-Based Residential Child		Risk-Based Residential Adult		Risk-Based Soil Type 2 RRS (mg/kg) (c)	Overall Type 2 RRS DAF=1 (mg/kg) (d)
			Noncarcinogenic (mg/kg) (a)	Carcinogenic (mg/kg) (b)	Noncarcinogenic (mg/kg) (a)	Carcinogenic (mg/kg) (b)		
<b>Volatile Organic Compounds (VOCs)</b>								
1,1,1-Trichloroethane	1.6E+03	9.3E-01	2.2E+03	ND	7.9E+03	ND	2.2E+03	9.3E-01
1,1,2,2-Tetrachloroethane	1.9E+04	2.0E-03	1.6E+03	9.3E+00	1.5E+04	7.4E+00	7.4E+00	2.0E-03
1,1-Dichloroethane	2.1E+03	1.1E+00	1.6E+04	4.5E+01	1.5E+05	3.2E+01	3.2E+01	1.1E+00
1,1-Dichloroethene	8.7E+02	3.7E-02	5.1E+01	ND	1.8E+02	ND	5.1E+01	3.7E-02
2-Butanone	7.8E+03	4.7E-01	9.2E+03	ND	3.7E+04	ND	9.2E+03	4.7E-01
Acetone	6.7E+03	1.6E+00	3.3E+04	ND	1.6E+05	ND	3.3E+04	1.6E+00
Benzene	4.5E+03	2.6E-03	3.6E+01	1.8E+01	1.4E+02	1.4E+01	1.4E+01	2.6E-03
Carbon Disulfide	8.9E+02	1.2E+00	1.8E+02	ND	6.4E+02	ND	1.8E+02	1.2E+00
Carbon Tetrachloride	1.3E+03	1.9E-03	3.4E+01	6.9E+00	1.3E+02	5.0E+00	5.0E+00	1.9E-03
Chloroform	2.8E+03	2.2E-02	7.3E+01	4.1E+00	2.7E+02	2.9E+00	2.9E+00	2.2E-02
cis-1,2-Dichloroethene	2.7E+03	2.1E-02	1.6E+02	ND	1.5E+03	ND	1.6E+02	2.1E-02
Cyclohexane	7.8E+02	3.6E+00	1.4E+03	ND	4.8E+03	ND	1.4E+03	3.6E+00
Ethylbenzene	7.6E+03	7.8E-01	1.8E+03	9.4E+01	7.3E+03	7.1E+01	7.1E+01	7.8E-01
Isopropylbenzene	8.4E+03	3.3E-01	8.6E+02	ND	3.2E+03	ND	8.6E+02	3.3E-01
Methylene Chloride	2.1E+03	1.9E-02	2.1E+02	2.8E+03	1.0E+03	3.2E+03	2.1E+02	1.9E-02
Tetrachloroethene	2.7E+03	8.6E-03	3.0E+01	3.3E+02	1.1E+02	2.4E+02	3.0E+01	8.6E-03
Toluene	5.6E+03	6.9E-01	3.6E+03	ND	1.9E+04	ND	3.6E+03	6.9E-01
Trichloroethene	2.5E+03	1.8E-03	1.4E+00	1.9E+01	5.0E+00	1.4E+01	1.4E+00	1.8E-03
Xylenes, mixture	7.9E+03	9.8E+00	2.3E+02	ND	8.3E+02	ND	2.3E+02	9.8E+00
<b>SVOCS</b>								
Naphthalene	6.4E+04	6.6E-02	5.6E+01	6.5E+01	2.0E+02	4.6E+01	4.6E+01	6.6E-02

**Notes:**

RRS Risk Reduction Standard  
ND Not Determined - Can not be calculated

(a) 
$$\frac{\text{THI} \times \text{BW} \times \text{ATn} \times 365\text{days/year}}{\text{EF} \times \text{ED} \times [(1/\text{RfDi} \times (1/\text{VF} + 1/\text{PEF}) \times \text{InhR}) + (1/\text{RfDo} \times \text{Irs} \times \text{CF})]}$$

(b) 
$$\frac{\text{TR} \times \text{BW} \times \text{ATc} \times 365\text{days/year}}{\text{EF} \times \text{ED} \times [(SFI \times (1/\text{VF} + 1/\text{PEF}) \times \text{InhR}) + (SFO \times \text{Irs} \times \text{CF})]}$$

(c) Minimum of noncarcinogenic and carcinogenic concentrations.  
(d) Minimum concentration of Leaching Value and Risk-based Value.

**Exposure Parameters**

Total Hazard Index (THI)  
Target Risk (TR)  
Body Weight (BW)  
Averaging Time, Carcinogen (ATc)  
Averaging Time, Noncarcinogen (ATn)  
Exposure Duration (ED)  
Exposure Frequency (EF)  
Soil Ingestion Rate (IRs)  
Air Inhalation Rate (InhR)  
Particulate Emission Factor (PEF)  
Conversion Factor (CF)  
Volatilization Factor (VF)

	Residential Child Type 2	Residential Adult Type 2
	1	1
	1.E-05	1.E-05
	15	70
	70	70
	6	30
	6	30
	350	350
	200	100
	15	20
	4.63E+09	4.63E+09
	1.E-06	1.E-06
	Chemical-specific	Chemical-specific

Table F-7  
Type 4 Soil RRS, mg/kg  
Default Industrial Worker

PARAMETER	Volatilization Factor (m <sup>3</sup> /kg)	Nonresidential Leaching Leaching DAF=1 (mg/kg)	Risk-Based Industrial Worker		Risk-Based Soil	Overall
			Noncarcinogenic (mg/kg) (a)	Carcinogenic (mg/kg) (b)	IW Type 4 RRS (mg/kg) (c)	IW Type 4 RRS DAF=1 (mg/kg) (d)
<b>Volatile Organic Compounds (VOCs)</b>						
1,1,1-Trichloroethane	1.6E+03	4.7E+00	1.1E+04	ND	1.1E+04	4.7E+00
1,1,2,2-Tetrachloroethane	1.9E+04	2.0E-03	4.1E+04	1.3E+01	1.3E+01	2.0E-03
1,1-Dichloroethane	2.1E+03	1.1E+00	4.1E+05	5.4E+01	5.4E+01	1.1E+00
1,1-Dichloroethene	8.7E+02	1.9E-01	2.5E+02	ND	2.5E+02	1.9E-01
2-Butanone	7.8E+03	2.4E+00	5.4E+04	ND	5.4E+04	2.4E+00
Acetone	6.7E+03	9.4E+00	2.6E+05	ND	2.6E+05	9.4E+00
Benzene	4.5E+03	4.5E-03	1.9E+02	2.3E+01	2.3E+01	4.5E-03
Carbon Disulfide	8.9E+02	1.2E+00	9.0E+02	ND	9.0E+02	1.2E+00
Carbon Tetrachloride	1.3E+03	3.9E-03	1.8E+02	8.4E+00	8.4E+00	3.9E-03
Chloroform	2.8E+03	2.2E-02	3.9E+02	4.9E+00	4.9E+00	2.2E-02
cis-1,2-Dichloroethene	2.7E+03	6.0E-02	4.1E+03	ND	4.1E+03	6.0E-02
Cyclohexane	7.8E+02	1.8E+01	6.8E+03	ND	6.8E+03	1.8E+01
Ethylbenzene	7.6E+03	7.8E-01	1.1E+04	1.2E+02	1.2E+02	7.8E-01
Isopropylbenzene	8.4E+03	1.7E+00	4.6E+03	ND	4.6E+03	1.7E+00
Methylene Chloride	2.1E+03	1.2E-01	1.6E+03	6.7E+03	1.6E+03	1.2E-01
Tetrachloroethene	2.7E+03	4.4E-02	1.5E+02	4.1E+02	1.5E+02	4.4E-02
Toluene	5.6E+03	3.6E+00	3.2E+04	ND	3.2E+04	3.6E+00
Trichloroethene	2.5E+03	1.9E-03	7.1E+00	2.5E+01	7.1E+00	1.9E-03
Xylenes, mixture	7.9E+03	9.8E+00	1.2E+03	ND	1.2E+03	9.8E+00
<b>SVOCS</b>						
Naphthalene	6.4E+04	6.6E-02	2.8E+02	7.7E+01	7.7E+01	6.6E-02

**Notes:**

RRS Risk Reduction Standard  
ND Not Determined - Can not be calculated

(a) 
$$\frac{\text{THI} \times \text{BW} \times \text{ATn} \times 365 \text{days/year}}{\text{EF} \times \text{ED} \times [(1/\text{RfDi} \times (1/\text{VF} + 1/\text{PEF}) \times \text{InhR}) + (1/\text{RfDo} \times \text{Irs} \times \text{CF})]}$$

(b) 
$$\frac{\text{TR} \times \text{BW} \times \text{ATc} \times 365 \text{days/year}}{\text{EF} \times \text{ED} \times [(SFi \times (1/\text{VF} + 1/\text{PEF}) \times \text{InhR}) + (SFo \times \text{Irs} \times \text{CF})]}$$

(c) Minimum of noncarcinogenic and carcinogenic concentrations.  
(d) Minimum concentration of Leaching Value and Risk-based Value.

**Exposure Parameters**

Total Hazard Index (THI)  
Target Risk (TR)  
Body Weight (BW)  
Averaging Time, Carcinogen (ATc)  
Averaging Time, Noncarcinogen (ATn)  
Exposure Duration (ED)  
Exposure Frequency (EF)  
Soil Ingestion Rate (IRs)  
Air Inhalation Rate (InhR)  
Particulate Emission Factor (PEF)  
Conversion Factor (CF)  
Volatilization Factor (VF)

**Industrial Worker Type 4**

	Unit
1	unitless
1.E-05	unitless
70	kg
70	yrs
25	yrs
25	yrs
250	days/yr
50	mg/day
20	m <sup>3</sup> /day
4.63E+09	m <sup>3</sup> /kg
1.E-06	kg/mg
Chemical-specific	m <sup>3</sup> /kg

Table F-8

Derivation of VF Factors (Soil-to-Air Volatilization Factor)

Based on Regional Screening Level Chemical-specific Parameters Supporting Table April 2012

Analyte	CAS No.	MW	H <sup>+</sup> (unitless)	HLC (atm-m <sup>2</sup> /mole)	Dia (cm <sup>2</sup> /s)	Diw (cm <sup>2</sup> /s)	Koc (L/kg)	Dei (cm <sup>2</sup> /sec)	K <sub>d</sub> (cm <sup>3</sup> /g)	K <sub>as</sub> (g/cm <sup>3</sup> )	Y (cm <sup>2</sup> /sec)	VF (m <sup>3</sup> /kg)
Acetone	67-64-1	58.08	0.0014309	0.000035	0.1059228	0.0000115	2.364	7.46E-02	4.73E-02	3.04E-02	4.58E-04	6.72E+03
Benzene	71-43-2	78.11	0.2269011	0.00555	0.0895384	0.0000103	145.8	6.31E-02	2.92E+00	7.80E-02	9.85E-04	4.53E+03
Carbon Disulfide	75-15-0	76.13	0.5887163	0.0144	0.1064466	0.000013	21.73	7.50E-02	4.35E-01	1.36E+00	1.62E-02	8.89E+02
Carbon Tetrachloride	56-23-5	153.82	1.1283729	0.0276	0.0571435	9.7849E-06	43.89	4.03E-02	8.78E-01	1.29E+00	8.36E-03	1.25E+03
Chloroform	67-66-3	119.38	0.1500409	0.00367	0.0769197	0.0000109	31.82	5.42E-02	6.36E-01	2.36E-01	2.48E-03	2.77E+03
Cumene (Isopropylbenzene)	98-82-8	120.2	0.4701554	0.0115	0.0603044	7.8566E-06	697.8	4.25E-02	1.40E+01	3.38E-02	2.90E-04	8.44E+03
Cyclohexane	110-82-7	84.16	6.1324612	0.15	0.0799752	9.1079E-06	145.8	5.64E-02	2.92E+00	2.11E+00	1.69E-02	7.78E+02
Dichloroethane, 1,1-	75-34-3	98.96	0.2297629	0.00562	0.0836446	0.0000106	31.82	5.89E-02	6.36E-01	3.62E-01	4.04E-03	2.12E+03
Dichloroethylene, 1,1-	75-35-4	96.94	1.0670482	0.0261	0.0863138	0.000011	31.82	6.08E-02	6.36E-01	1.68E+00	1.55E-02	8.66E+02
Dichloroethylene, 1,2-cis-	156-59-2	96.94	0.1668029	0.00408	0.0884088	0.0000113	39.6	6.23E-02	7.92E-01	2.11E-01	2.56E-03	2.74E+03
Dichloroethylene, 1,2-trans-	156-60-5	96.94	0.1668029	0.00408	0.0876126	0.0000112	39.6	6.17E-02	7.92E-01	2.11E-01	2.54E-03	2.75E+03
Ethylbenzene	100-41-4	106.17	0.3221586	0.00788	0.0684652	8.4558E-06	446.1	4.82E-02	8.92E+00	3.62E-02	3.52E-04	7.64E+03
Methyl Ethyl Ketone (2-Butanone)	78-93-3	72.11	0.0023262	0.0000569	0.0914443	0.0000102	4.51	6.44E-02	9.02E-02	2.59E-02	3.37E-04	7.84E+03
Methylene Chloride	75-09-2	84.93	0.13287	0.00325	0.0999389	0.0000125	21.73	7.04E-02	4.35E-01	3.07E-01	4.13E-03	2.12E+03
Naphthalene	91-20-3	128.18	0.0179886	0.00044	0.0604994	0.000008377	1544	4.26E-02	3.09E+01	5.84E-04	5.06E-06	6.43E+04
Tetrachloroethane, 1,1,2,2-	79-34-5	167.85	0.0150041	0.000367	0.0489206	9.2902E-06	94.94	0.034475766	1.8988	7.92E-03	5.54E-05	1.94E+04
Tetrachloroethylene	127-18-4	165.83	0.7236304	0.0177	0.0504664	9.4551E-06	94.94	0.035565136	1.8988	3.82E-01	2.56E-03	2.65E+03
Toluene	108-88-3	92.14	0.2714636	0.00664	0.0778053	9.2045E-06	233.9	0.054831651	4.6780	5.82E-02	6.41E-04	5.64E+03
Trichloroethane, 1,1,1-	71-55-6	133.41	0.7031889	0.0172	0.0648174	0.000009599	43.89	0.045678701	0.8778	8.03E-01	6.41E-03	1.55E+03
Trichloroethylene	79-01-6	131.39	0.4026983	0.00985	0.0686618	0.0000102	60.7	0.048387962	1.2140	3.33E-01	3.06E-03	2.45E+03
Xylenes	1330-20-7	106.17	0.2117743	0.00518	0.0847395	9.9011E-06	382.9	0.059718383	7.6580	2.77E-02	3.35E-04	7.86E+03

Equation is from USEPA, 1991b.

VF = Volatilization Factor (m<sup>3</sup>/kg)

$$VF = (LS \times V \times DH) / (A) * \frac{(3.14 \times Y \times T)^{1/2}}{(2 \times Dei \times P \times Kas \times 0.001)}$$

$$Y = \frac{Dei \times P}{P + (p(1-P)/Kas)}$$

LS = Length of side of contaminated area =

45 m (default)

V = wind speed in mixing zone =

2.25 m/s (default)

DH = diffusion height =

2 m

A = area of contamination =

20,250,000 cm<sup>2</sup> (default)

T = exposure interval =

790000000 s = 25 yrs

Dei = effective diffusivity (cm<sup>2</sup>/s) =

Chemical Specific

P = air filled soil porosity (unitless) =

0.35 (default)

Kas = soil/air partition coefficient (g soil/cm<sup>3</sup> air) =

Chemical Specific

Conversion factor =

0.001 kg/g

p = True soil density or particulate density =

2.65 g/cm<sup>3</sup> (default)

**APPENDIX G**  
**REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION**

**Summary of Hours and Services**

AMC International, Inc.

HSI Site No. 10405

AMEC Project No. 6122-12-0076

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Submittal to EPD date April 12, 2013 (3rd Revision)

Gregory J. Wrenn, P.E.

Preparation of submittal, Application Form, Checklist, Schedule and Review

78 hours charged through April 5, 2013

David E. Smoak, P.G.

Preparation of submittal Application Form and Checklist and Schedule and Review

165 hours charged through April 5, 2013

Robert Rogero, P.G

Preparation of submittal and Schedule

105 hours charged through April 5, 2013