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Atlanta Environmental Consultants

Response and Remediation Program

3440 Blue Springs Rd. Suite 503
Kennesaw, Georgia 30144

Phone: 678-738-7004
Fax: 678-738-7005

February 28, 2011

Ms. Jessica McCarron
Hazardous Sites Response Program
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Dr S.E., Suite 1462 East
Atlanta, Georgia 30334

AEC Report REB-2406

SUBJECT: VRP Application and Conceptual Site Model for Property Containing Roswell Cleaners (formerly Roswell Cleaners & Coin Laundry), 1013 Alpharetta Street, Roswell, Fulton County, Georgia, HSI #10883.

Dear Ms. McCarron:

Thank you for your kind assistance in clarifying and assisting in completion of our Voluntary Remediation Program (VRP) Application requirements for property containing Roswell Cleaners (formerly Roswell Cleaners & Coin Laundry), 1013 Alpharetta Street, Roswell, Fulton County, Georgia (hereinafter Subject Property). Please accept the attached Application and Conceptual Site Model (CSM) to complete the Application. Also attached is a projected Milestone Schedule, as well as our summary of hours.

Once we have received confirmation of enrollment into the VRP and approval of the approach described in the Preliminary CSM, we will begin implementation of the Plan according to the attached milestone schedule. If EPD has any questions or comments regarding the Application or Preliminary CSM, we would be pleased to meet with you at your convenience to discuss the plan.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Peter T. Kallay'.

Peter T. Kallay, P.E.
Manager, Environmental Services.
Georgia P.E. Number 24002

HALLMAN & WINGATE

LLC
ATTORNEYS AT LAW

RICHARD A. WINGATE

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MARIETTA, GEORGIA 30060
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BY FEDERAL EXPRESS

Ms. Jessica Jewell McCarron
Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, S.E.
Suite 1462 East
Atlanta, GA 30334

Response and Remediation Program

Re: Richard E. Bowen
Roswell Cleaners
1013 Alpharetta Street
Roswell, Fulton County, Georgia
HSI #10883
HW File No. 3174/001

Dear Ms. McCarron:

Enclosed please find a completed VRP Application and Conceptual Site Model together with two CDs for the above-referenced property.

If you have any questions or comments concerning this matter, please do not hesitate to contact the undersigned.

Sincerely,



Richard A. Wingate

For HALLMAN & WINGATE, LLC

RAW:kps
Enclosure

c: Mr. Richard E. Bowen
Peter T. Kallay, P.E.
F. Edwin Hallman, Jr., Esq.



Atlanta Environmental Consultants

3440 Blue Springs Rd. Suite 503
Kennesaw, Georgia 30144



Phone: 678-738-7004
Fax: 678-738-7005

PROJECTED MILESTONE SCHEDULE

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**Roswell Cleaners
1013 Alpharetta Street
Roswell, Fulton County, Georgia 30075
HSI #10883**

MAR - 1 2011

Response and Remediation Program

February 28, 2011

The following presents the projected Milestone Schedule for implementation of the Voluntary Remediation Program (VRP) at property containing Roswell Cleaners (formerly Roswell Cleaners & Coin Laundry), 1013 Alpharetta Street, Roswell, Fulton County, Georgia. HSI #10883.

<u>Plan, Report or Action</u>	<u>Date to be Submitted</u>
Submit Preliminary Conceptual Site Model	at time of VRP Application
Complete Horizontal Delineation where Access is Available	12 months after enrollment
Complete Horizontal Delineation where Access is not Available	24 months
Complete Vertical Delineation	30 months
Final Voluntary Remediation Plan	30 months
Preliminary Cost Estimate for Implementation of Remediation and Associated Actions	30 months
Submit Compliance Status Report Including Required Certifications	60 months
Semi-Annual Status Reports with Updated Conceptual Site Model	Every 6 months

Voluntary Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION

COMPANY NAME	Property Owner – Richard E. Bowen			
CONTACT PERSON/TITLE	Richard A. Wingate, Esq. Attorney for Landowner			
ADDRESS	166 Anderson Street, S.E., Suite 210, Marietta, Georgia 30060			
PHONE	404 588 2530	FAX	404 588 2535	E-MAIL rwingate@hallmanwingate.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP				
NAME	Peter T. Kallay, P.E.		GA PE/PG NUMBER	PE 24002
COMPANY	Atlanta Environmental Consultants, LLC			
ADDRESS	3440 Blue Springs Road, Suite 503, Kennesaw, Georgia 30144			
PHONE	678 738 7004	FAX	675 738 7005	E-MAIL AtlantaEnviro@cs.com

APPLICANT'S CERTIFICATION

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


- (1) The property must have a release of regulated substances into the environment;
- (2) The property shall not be:
 - (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
 - (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
 - (C) A facility required to have a permit under Code Section 12-8-66.
- (3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
- (4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.

In order to be considered a participant under the VRP:

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

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

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

APPLICANT'S SIGNATURE			
APPLICANT'S NAME/TITLE (PRINT)	Richard E. Bowen, property owner	DATE	February 28, 2011

QUALIFYING PROPERTY INFORMATION			
TAX PARCEL ID	12-1902-0412-061-6	PROPERTY SIZE (ACRES)	0.647
PROPERTY ADDRESS	1013 Alpharetta Street		
CITY	Roswell	COUNTY	Fulton
LATITUDE	34° 1' 33" N	LONGITUDE	84°21' 32" W
PROPERTY OWNER(S)	Richard E. Bowen	PHONE #	(770) 565-1924
MAILING ADDRESS	811 Serramonte Drive		
CITY	Marietta	STATE/ZIP	Georgia, 30068
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	\$5,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.	04/29/10	
2.	WARRANTY DEED(S) FOR QUALIFYING PROPERTY.		
3.	TAX PLAT OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).		
4.	ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).		
5.	<p>The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a PROJECTED MILESTONE SCHEDULE for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule.</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.	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;		
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;		
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and		
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.		
	SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:		
6.	<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, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.</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> <div style="display: flex; justify-content: space-between;"> <div> <p>Peter T. Kallay Printed Name and GA PE/PG Number</p> <p>PE 24002</p> </div> <div> <p>February 28, 2011 Date</p> </div> </div> <p>Signature and Stamp</p>		

AEC Proj. No. REB-2406
Client Richard Bowen

Client/File No. HSI Site No. 10883
Time Period May to December 2010

Atlanta Environmental Consultants
TIME REPORT

Site Loc 1013 Alpharetta St., Roswell, GA
Signature [Signature]
Date January 24, 2011

DATE	HOURS	ACTIVITY DESCRIPTION
5/6	1.25	Receive signed proposal; discuss details of developing Conceptual Site Model with Mr. Bowen
5/18	1.75	Draft text of CSM and Figures. Meeting with Mr. Bowen to discuss details of Draft.
5/20	1.25	Continue Drafting CSM. Review and revise text, figures and tables. Discuss with Mr. Bowen.
5/21	4.25	Continue Drafting CSM. Review and revise text, figures and tables. Draft Milestone schedule.
5/28	0.75	Confirm approval of Final Draft with Mr. Bowen. Produce Final CSM. Sign and Seal. Mail.
8/18	1.00	Meeting with Terri Drabek: Details of modeling and drafting associated with project.
8/26	0.75	Receive, review EPD Comments letter. Discuss in detail with Mr. Bowen. Start drafting response.
8/27	1.25	Continue work on response letter. Review and revise. Arrange meeting with Mr. Bowen.
9/1	1.75	Meeting with Mr. Bowen. Discuss response letter in detail. Draft summary. Draft to Mr. Wingate
9/2	1.50	Receive, review Mr. Bowen's and Mr. Wingate's review comments. Discuss. Review and revise Draft.
9/3	3.25	Review and revise Draft. Discuss in detail with Mr. Wingate. Draft Figures, take to Terri to CADD
9/7	3.75	Prepare Draft Final. Ask Terri, Bonnie and Mr. Wingate to review. Discuss response letter in detail with Mr. Wingate. Discuss Figures with Terri.
9/14	1.75	Communications, discussion and correspondence with Terri, Bonnie and Mr. Wingate: agreement on final content of Response Letter. Finalize, print on letterhead. Prep to mail. Organize, file papers.
9/21	0.75	Meeting with Mr. Bowen. Discuss contents of Response Letter in detail, conclusions and recommendations.
9/23	2.50	Call from David Reuland, EPD. Discuss possible approaches, covenant. Discuss w/ Mr. Bowen, Mr. Wingate
9/24	4.25	Prepare agenda for meeting. Discuss Type IV RRS for Construction Workers. Review & revise. Prep for meeting
10/1	1.50	Final prep for meeting. Meeting with Mr. Bowen and Mr. Wingate. Plan meeting with David Reuland.
12/23	0.75	Prepare Draft Bullet Point List for discussion. Discuss with Mr. Bowen and Mr. Wingate. Review, revise.
12/29	1.75	Discuss Bullet Point lists prepared by Mr. Bowen, Mr. Wingate and myself. Consolidate and final list.
		Receive new Comments Letter from EPD. Review and discuss with Mr. Bowen. Leave message for Mr. Wingate.
		Meeting and detailed discussion regarding Johnson & Ettinger Model and other issues in Comments Letter with Terri Drabek.
	35.75	

Client Richard Bowen

Client/File No. HSI Site No. 10883

Time Period January - February 2011

Site Loc 1013 Alpharetta St., Roswell, GA

Signature

Date February 25, 2011

[illegible]

CONCEPTUAL SITE MODEL

ROSWELL CLEANERS
1013 Alpharetta Street
Roswell, Fulton County, Georgia 30075
HSI #10883

Prepared For:

Mr. Richard E. Bowen
811 Serramonte Drive
Marietta, Georgia 30068

February 2011

AEC Project Number REB-2406



Peter T. Kallay, P.E.

02/28/2011



Atlanta Environmental Consultants
3440 Blue Springs Road, Suite 503
Kennesaw, Georgia 30144

Phone (678) 738-7004
Fax (678) 569-2419

Site Description

The site, a commercial property in the City of Roswell, Fulton County Tax Parcel # 12-1902-0412-061-6, contains one single story commercial concrete block slab-on-grade building constructed in 1966, based on available records of the Fulton County Tax Assessor. The building currently houses Roswell Cleaners. Part of the building that had formerly housed a coin laundry is vacant at this time. Records indicate the building has been used primarily as a dry cleaners during all or most of its life. It has operated under the names Roswell Sunshine Center, Sunshine Center, Sunshine Cleaners (or Roswell Sunshine Cleaners), Roswell Cleaners & Coin Laundry, and Roswell Cleaners. Figure 1 shows the site location. Figure 2 shows a site plan and possible sources.

Site Surface and Subsurface Setting

The site is situated on fill material (soil) up to 15 feet deep overlying the original soil horizon. The site, including all areas with soil concentrations of volatile organic compounds (VOC), is capped with concrete or asphalt pavement in good condition, so no contact with these soils by the public will occur. Concentrations in soils primarily occur in the source area, on the property on which Roswell Cleaners is located. A layer of topsoil appears to be present at the top of the original native soils.

No water wells or other groundwater use within a mile of the site is known or suspected, as confirmed by a water well and water sources/water resources survey conducted in conjunction with Hazardous Site Response Act (HSRA) Notification submitted for this site, including drinking water and irrigation wells.

Environmental Assessment and Graphical 3-Dimensional Conceptual Site Model

Environmental assessment has been conducted onsite, and has indicated the presence of tetrachloroethene (PCE) and its biodegradation products in soils and groundwater. The samples analyzed that are referenced in this report were collected on August 27, 2008 and analyzed and reported by Advanced Chemistry Labs, Inc., a qualified analytical laboratory, on September 5, 2008. The highest soil concentrations of these compounds were 84.2 milligrams per kilogram (mg/kg) PCE, 5.29 mg/kg trichloroethene (TCE), 2.37 mg/kg cis-dichloroethene (cis-DCE), and 0.841 trans-dichloroethene (trans-DCE), all collected in the soil boring located at MW-4 at 15 feet deep (Figure 3). Concentrations were also identified in groundwater. The highest groundwater concentrations identified were 2.010 milligrams per liter (mg/L) PCE, 0.156 mg/L TCE, 0.315 mg/L cis-DCE, 0.036 mg/L trans-DCE, all in MW-4, and 0.003 mg/L vinyl chloride in MW-2 (Figure 4). A potentiometric map and groundwater flow direction is shown on Figure 5.

The attached Figures, included as part of this CSM, show a graphical three-dimensional representation of soil and groundwater concentrations, sources of contamination, expected contaminant movement, receptors and pathways (Figures 6 through 10).

Vapor Intrusion Pathway

Atlanta Environmental Consultants will utilize Soil Gas Sampling, a Georgia Environmental Protection Division (EPD) approved method. Collection of soil gas samples will be by use of vapor probes installed through the building's floor slab and appropriately sealed at the probes' entry point through the floor. Several soil gas samples will be collected in building interior

locations well away from the building edges, in accordance with Georgia EPD policies and guidelines. Sampling will be performed in accordance with EPA Method TO-15.

Potential Exposure during Potential Utility or other Subsurface Construction

No utility or other subsurface construction work is planned or proposed. AEC intends to resample soils in the area in which soils previously exceeded Notification Concentrations (NC). In the event soils to the maximum depth of utilities, foundations and/or other structures onsite meet applicable standards, no further action is proposed. In the event soils exceed standards (including site-specific utility and construction worker cleanup standards) and significant work onsite occurs or is proposed, remediation of soils will be considered and may be implemented. Nevertheless, in accordance with Section 391-3-19-.07(10) of the Rules for Hazardous Site Response, site-specific utility and construction worker cleanup standards will be calculated and compared to soil and groundwater concentrations. Workers onsite shall be notified of the presence of soil VOC concentrations prior to beginning work and shall be aware of and trained in use of appropriate engineering controls, work practices, personal protective equipment (PPE) or other appropriate means of precluding or minimizing contact. The construction area shall be barricaded, surrounded with construction fencing and/or employ other appropriate means to preclude access by unauthorized persons.

Surface Water

Using a scaled U.S. Geological Survey (USGS) 7.5-minute series topographic map, Roswell, GA Quadrangle (Figure 1), a distance of approximately 1,800 feet is indicated in the direction of groundwater flow (east-southeast) from the source to Hog Wallow Creek. Available data does not suggest that any concentrations exceeding applicable standards will reach Hog Wallow Creek or any other surface water body. Were any concentrations to reach Hog Wallow Creek, the most likely point based on the groundwater flow direction determined, is shown on Figure 1. At the calculated rate of groundwater migration, ranging from 7.09 feet/year to 30.47 feet/year, average 15.37 feet/year, groundwater from the site would reach Hog Wallow Creek from 59 to 254 years, in an average of 117 years. This is the rate of groundwater flow and does not take into consideration any retardation or attenuation mechanisms that would have the effect of further slowing the contaminant migration velocity and further increasing the length of time it would take dissolved VOC concentrations to reach Hog Wallow Creek. No other point of withdrawal between the site and Hog Wallow Creek was identified. No groundwater use between the site and Hog Wallow Creek was found; Hog Wallow Creek is the nearest point of exposure. Dissolved concentrations are projected to decrease to below applicable standards before reaching Hog Wallow Creek. Since no likelihood of contact with groundwater between the site and Hog Wallow Creek exists, and no standards will be exceeded when groundwater reaches Hog Wallow Creek, the groundwater pathway is incomplete.

Additional Investigations

Completion of horizontal delineation where access is available was proposed in 12 months and completion of horizontal delineation where access is not available was proposed in 24 months. These delineation activities shall include current, former or existing dry cleaning machines and along sanitary sewers and/or other underground utility lines in these areas following the proposed schedule. Delineation will be completed to the Voluntary Remediation Program Type I Residential Risk Reduction Standards. Appropriate investigation and testing to verify whether any possible on-going releases are occurring will be conducted.

Suspected Sources of Regulated Substances

The Subject Property has been the location of a successive series of businesses operating dry cleaners over a period exceeding 40 years. Dry cleaners most commonly use PCE as a dry cleaning solvent. Regulation of purchase, storage, use, handling and accumulation of spent PCE and disposal of PCE was non-existent to very limited from 1966 until 1981, in comparison to current regulations. In general, care in preventing or minimizing drips, spills or releases was less stringent during the earlier years of dry cleaning businesses at this location as compared to more recent years. It is believed that dry cleaners operators followed rules in existence at the times of their operations. PCE may have entered the environment during delivery and handling of containers (e.g., drums and buckets), pouring PCE into dry cleaning machines, draining spent PCE, sweeping and mopping of floors. PCE may have entered the environment from vaporization, drips and spills, PCE-containing filters, rags, mops etc that may have been disposed, spent PCE handling, etc. following common practices and rules, nonexistent, limited, and more regulated, as may have existed over the years.

A NAPA Auto Parts store with a machine shop was formerly located adjacent to the Subject Property and hydraulically upgradient of the site. It is believed that the machine shop may have utilized PCE or TCE as parts cleaning solvents. A former auto body shop, Auto Body Plus, Inc. was also located adjacent to the Subject Property and hydraulically upgradient of the site on the same property on which the NAPA Auto Parts machine shop was located. The auto body shop was also believed to have used solvents in their line of business. Other businesses formerly located in the area potentially having used solvents in their business include an Esso service station, Benson Chevrolet, used auto dealers, auto repair shops, dry cleaners, machine shops, service stations, pest control services and others that may have potentially employed solvents or products containing solvents. Figure 2 shows some possible offsite sources.

Preliminary evaluation of applicable approaches to remediation of the site suggests the following. Soils are not subject to contact with any populations (except trained workers on rare occasions such as utility workers, foundation workers and the like). In order to preclude contact with existing concentrations, the soils will remain capped with asphalt pavement, which will be sealed, maintained and kept in good repair as required to provide an effective cap. Workers, on rare occasions when subsurface work may be required, should be appropriately notified regarding the existence of PCE and related compounds and provided with appropriate health and safety information, safe work practices and equipment to minimize exposure in accordance with applicable rules. No utility or subsurface work is planned or proposed. Soils in areas where concentrations exceed Notification Concentrations (NC) will be resampled. In the event soils to the maximum depth of utilities, foundations and/or other structures onsite meet applicable standards, no further action is proposed. In the event soils exceed standards (including site-specific utility and construction worker cleanup standards) and significant work onsite occurs or is proposed, remediation of soils will be considered and may be implemented. Nevertheless, in accordance with Section 391-3-19-.07(10) of the Rules for Hazardous Site Response, site-specific utility and construction worker cleanup standards will be calculated and compared to soil and groundwater concentrations. In the event any subsurface work is required, the contractor shall be required to have trained workers or be supervised by a qualified health and safety officer and use barricades, construction fencing or other appropriate means to preclude entry by unauthorized persons.

Groundwater will not come into contact with any populations except trained environmental consultants. Groundwater will be sampled at the time of selection of the most appropriate remedy. The most current Risk Reduction Standards, rules and concentrations (or concentrations

developed using a RRS Evaluation) as adopted by the Georgia Environmental Protection Division (EPD) at the time of this determination will be utilized. The most appropriate remedy appropriate for a commercial setting with no receptors or completed pathways within 1,800 feet of the site will be then selected and implemented. Environmental consultants and well drillers constructing or sampling wells shall be Hazardous Waste Operations (HAZWOPER) trained with up-to-date annual refresher training, and shall be familiar with all safe practices. An appropriate Site Specific Health and Safety Plan shall be maintained, updated, provided to each worker and reviewed in a health and safety meeting prior to beginning work. Available data does not suggest that any concentrations exceeding applicable standards will reach Hog Wallow Creek. In the direction of groundwater flow, using a scaled U. S. Geological Survey (USGS) topographic map, Roswell Quadrangle, indicated a distance of approximately 1,800 feet in the east-southeast groundwater flow direction indicated by our calculations and shown on the potentiometric map included in this document. At the calculated rate of groundwater migration, ranging from 7.09 feet/year to 30.47 feet/year, averaging 15.37 feet/year determined using slug tests, groundwater from the site would reach Hog Wall Creek from 59 to 254 years, an average of 117 years. Attenuation mechanisms may further increase time to reach the creek. At the likely rate of groundwater attenuation, concentrations will not exceed drinking water standards nor in-stream water quality standards by the time groundwater from the site reaches Hog Wallow Creek. No other point of withdrawal between the site and Hog Wallow Creek has been identified or is known to exist.

Proposed Additional Assessment and Risk Reduction Standards

The source appears to be in the area of MW-4. Soil concentrations of PCE and its biodegradation products are non-detectable or very low in all other soil samples collected in soil borings conducted prior to installation of monitoring wells. Groundwater will be delineated to appropriate concentrations representative of appropriate standards for commercial property with no receptors or completed pathways within 1,500 feet of the site. The most current Risk Reduction Standards, rules and concentrations (or concentrations developed using a RRS Evaluation) as adopted by the Georgia Environmental Protection Division (EPD) at the time of the delineation will be utilized. Type III Risk Reduction Standards may be adopted as the applicable standard following evaluation of all data collected after delineation has been completed. In the event site-specific risk reduction standards are proposed, a point of demonstration well will be proposed along with an appropriate monitoring schedule.

Site Delineation Concentration Criteria

Site delineation will be completed to Voluntary Remediation Program Type I Residential Risk Reduction Standards. Risk Reduction Standards (RRS) proposed for groundwater are as follows, from Table 1 of Appendix III unless otherwise noted:

Constituent	Delineation of Groundwater Stds (mg/l)
Tetrachloroethene (PCE)	0.005
Trichloroethene (TCE)	0.005
Cis-Dichloroethene (cis-DCE)	0.07*
Trans-DCE	0.1
Vinyl Chloride	0.002

* Federal Maximum Contaminant Level (MCL).

Risk Reduction Standards proposed for soils are as follows, from Appendix I:

Constituent	Delineation of Soil Standards (mg/kg)
PCE	0.18
TCE	0.13
Cis-DCE	0.53
Trans-DCE	0.53

Proposed Engineering Controls

Engineering Controls, consisting of an asphalt cover, is the primary proposed remedy. In the event additional delineation or investigation work suggests other points of exposure, they will be addressed as appropriate. In the event engineering controls are proposed or utilized, a long-term maintenance and monitoring plan will be included as part of the proposed engineering controls remedy.

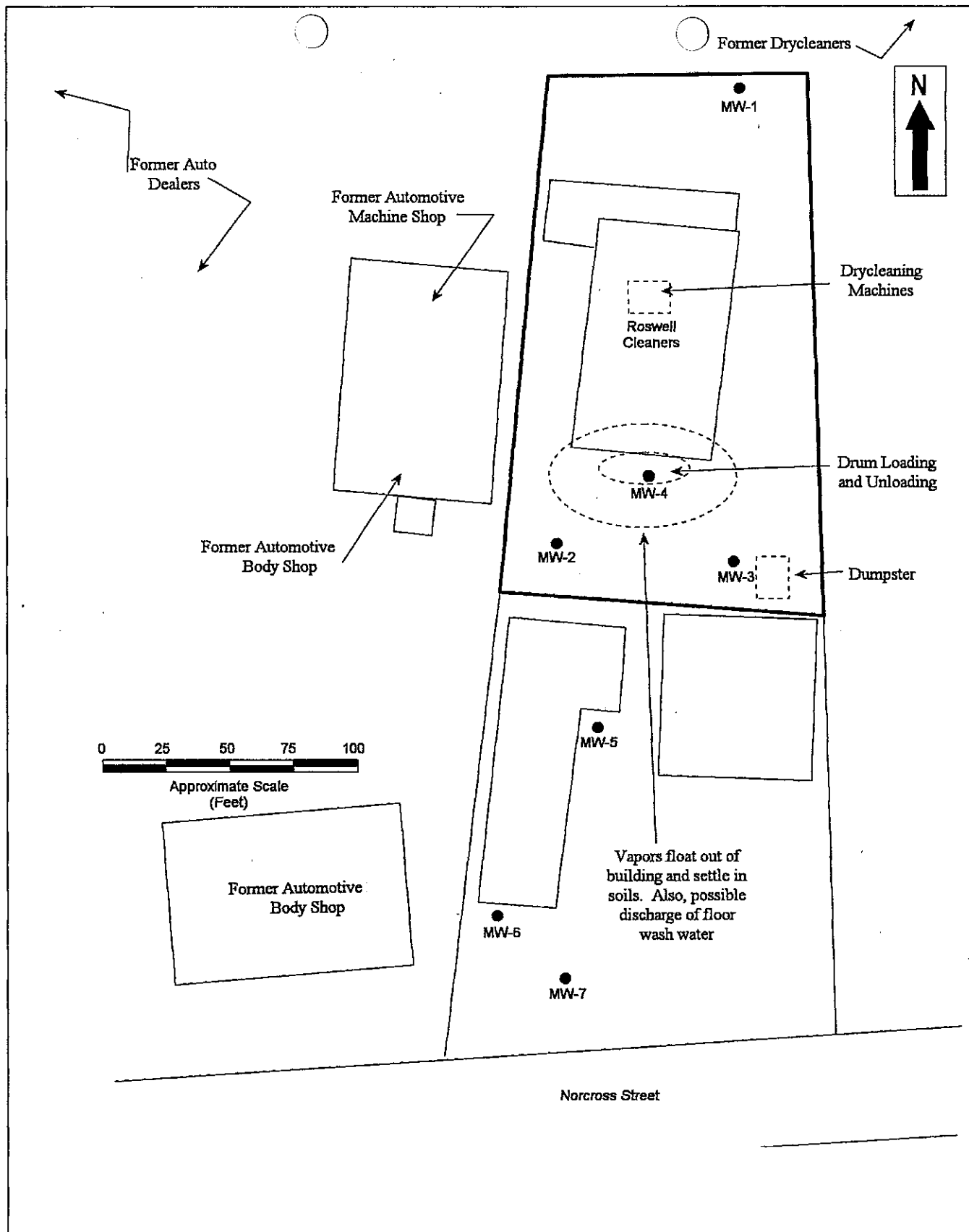


Figure 2 : Site Plan Showing
Possible Sources
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

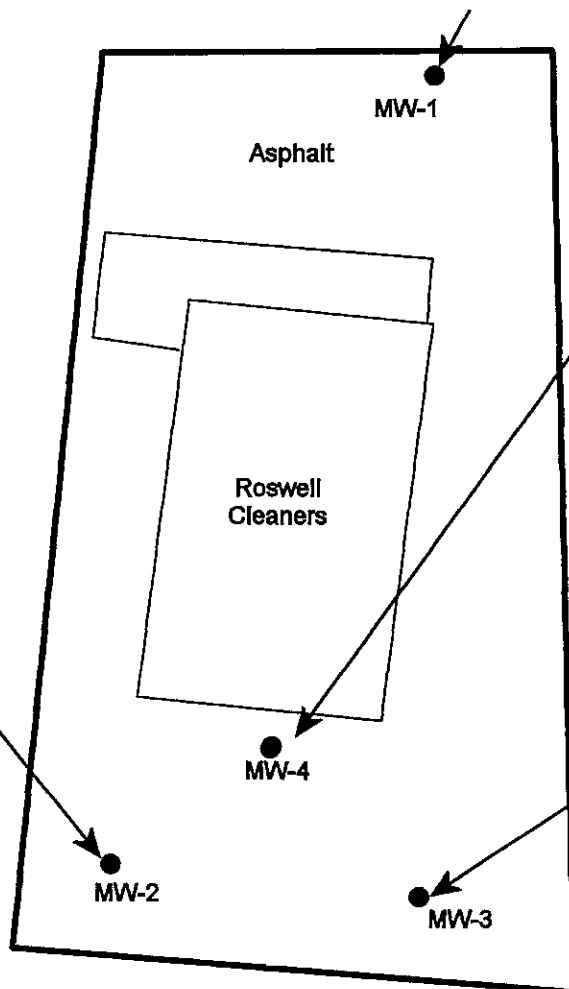
aec
Atlanta Environmental Consultants

Drawn By: Terri Drabek
Checked By: Peter Kallay, P.E.

MW-1	PCE	Naphthalene
1'	0.009	0.016
2'	ND	ND
2' dup	ND	ND
5'	ND	ND
15'	ND	ND



MW-2	PCE
1'	0.012
2'	0.009
5'	0.028
15'	0.013



MW-4	PCE	TCE	cis-DCE	other
1'	1.54	0.023	ND	*
2'	0.204	0.037	0.012	ND
5'	6.10	3.12	0.495	ND
15'	84.2	5.29	2.37	**
15' dup	14.9	1.35	1.7	***

* 0.005 mg/kg toluene

** 0.881 mg/kg trans-DCE
0.010 mg/kg ethylbenzene
0.012 mg/kg 1,3,5-trimethylbenzene
0.056 mg/kg xylenes

*** 0.282 mg/kg trans-DCE
0.005 mg/kg naphthalene
0.022 mg/kg ethylbenzene
0.006 mg/kg toluene
0.027 mg/kg 1,2,4-trimethylbenzene
0.009 mg/kg 1,3,5-trimethylbenzene
0.133 mg/kg xylenes

MW-3	PCE
1'	0.013
2'	ND
5'	ND
15'	ND
25'	ND

All Concentrations in mg/kg.

Note: Only detected compounds are show.
Compounds not shown were not detected.

ND = Not Detected
dup = duplicate sample

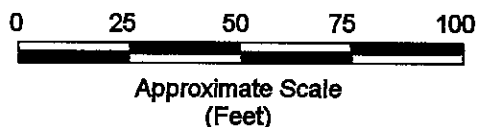


Figure 3 : Soil Boring Locations
Analytical Results
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

acc
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Checked By: Peter Kallay, P.E.

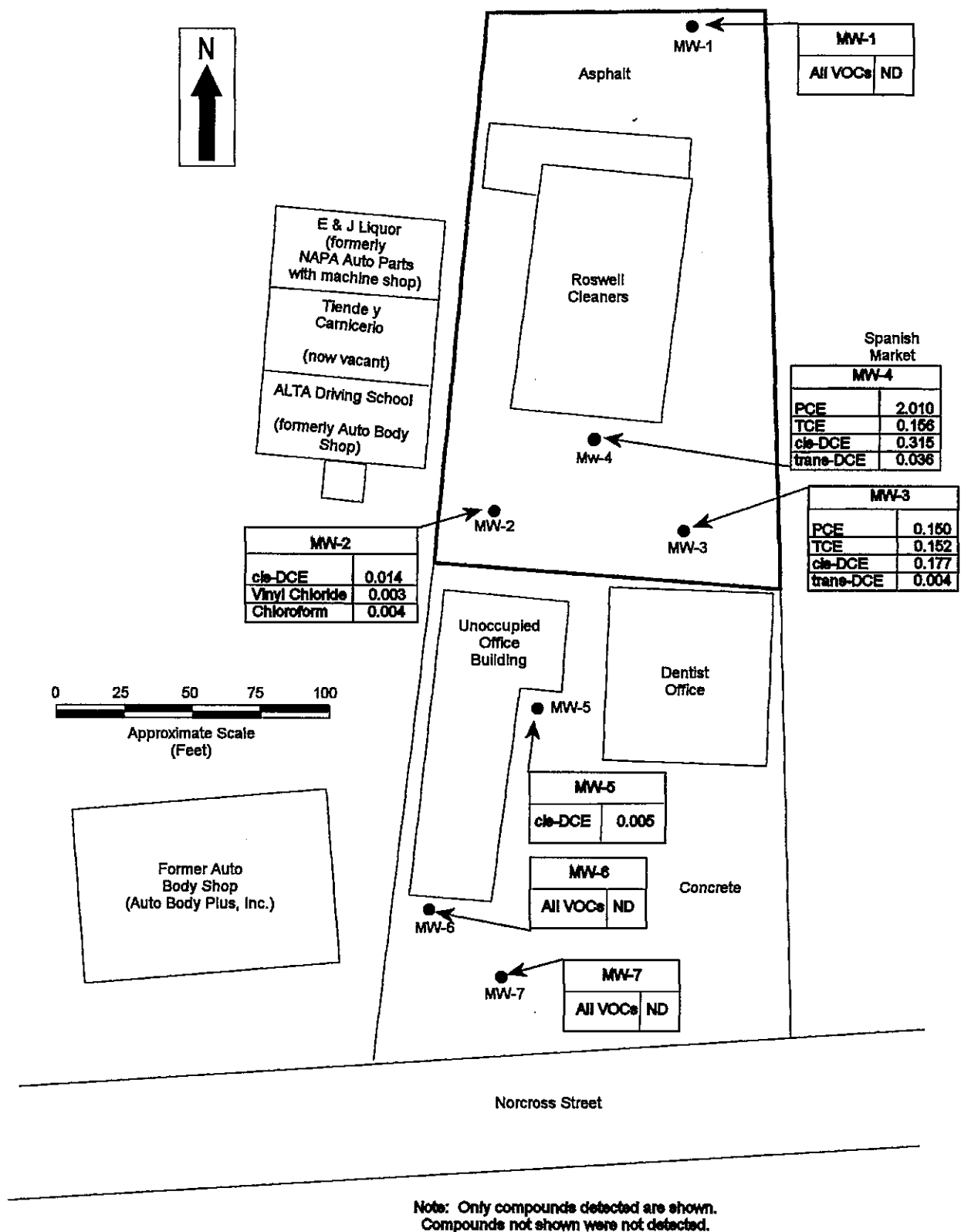


Figure 4 : Monitor Wells and
Groundwater Analytical Results
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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Checked By: Peter Kallay, P.E.

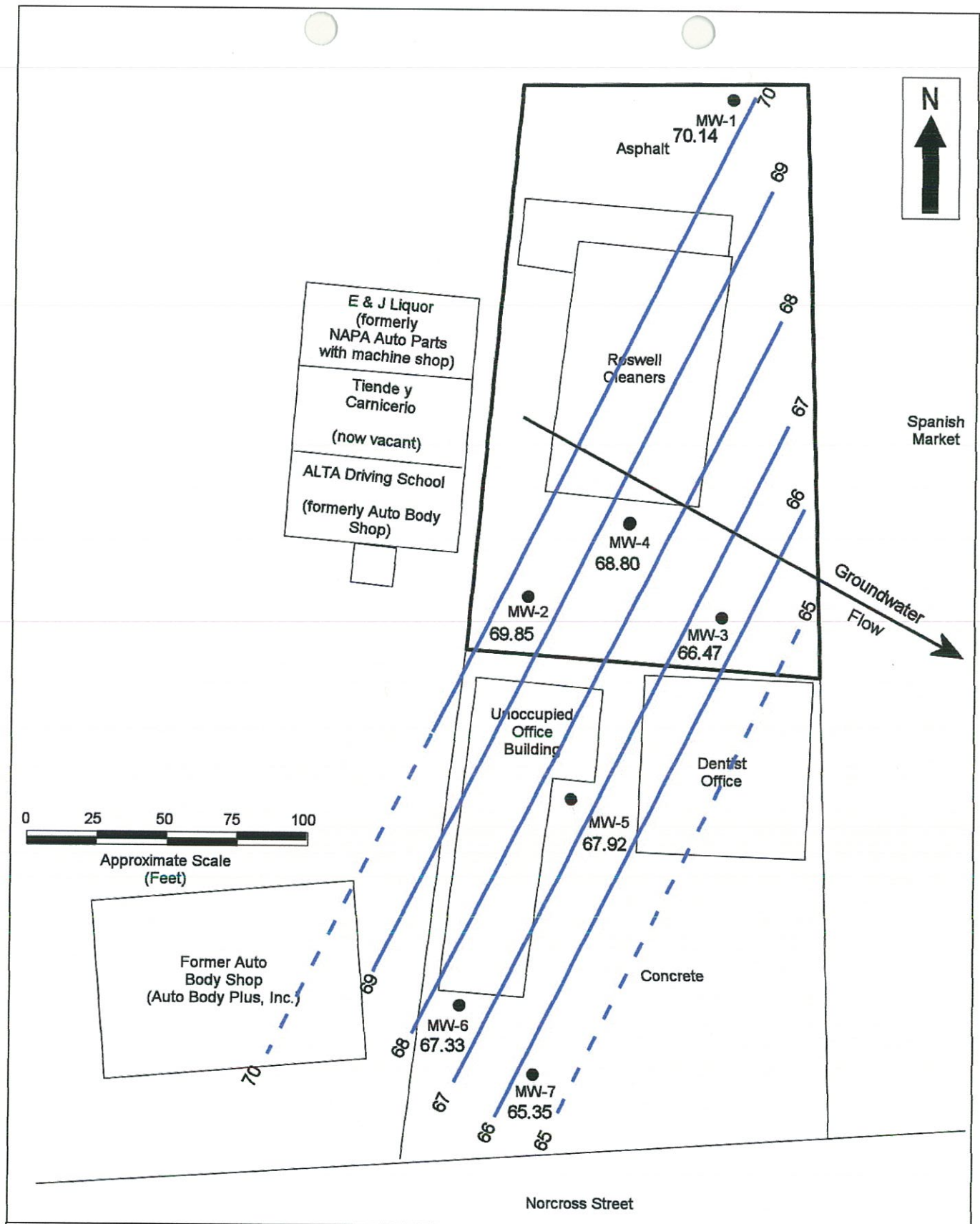


Figure 5 : Potentiometric Map
 8/27/2008
 Roswell Cleaners and Coin
 Laundry
 1013 Alpharetta Street
 Roswell, Fulton County, Georgia

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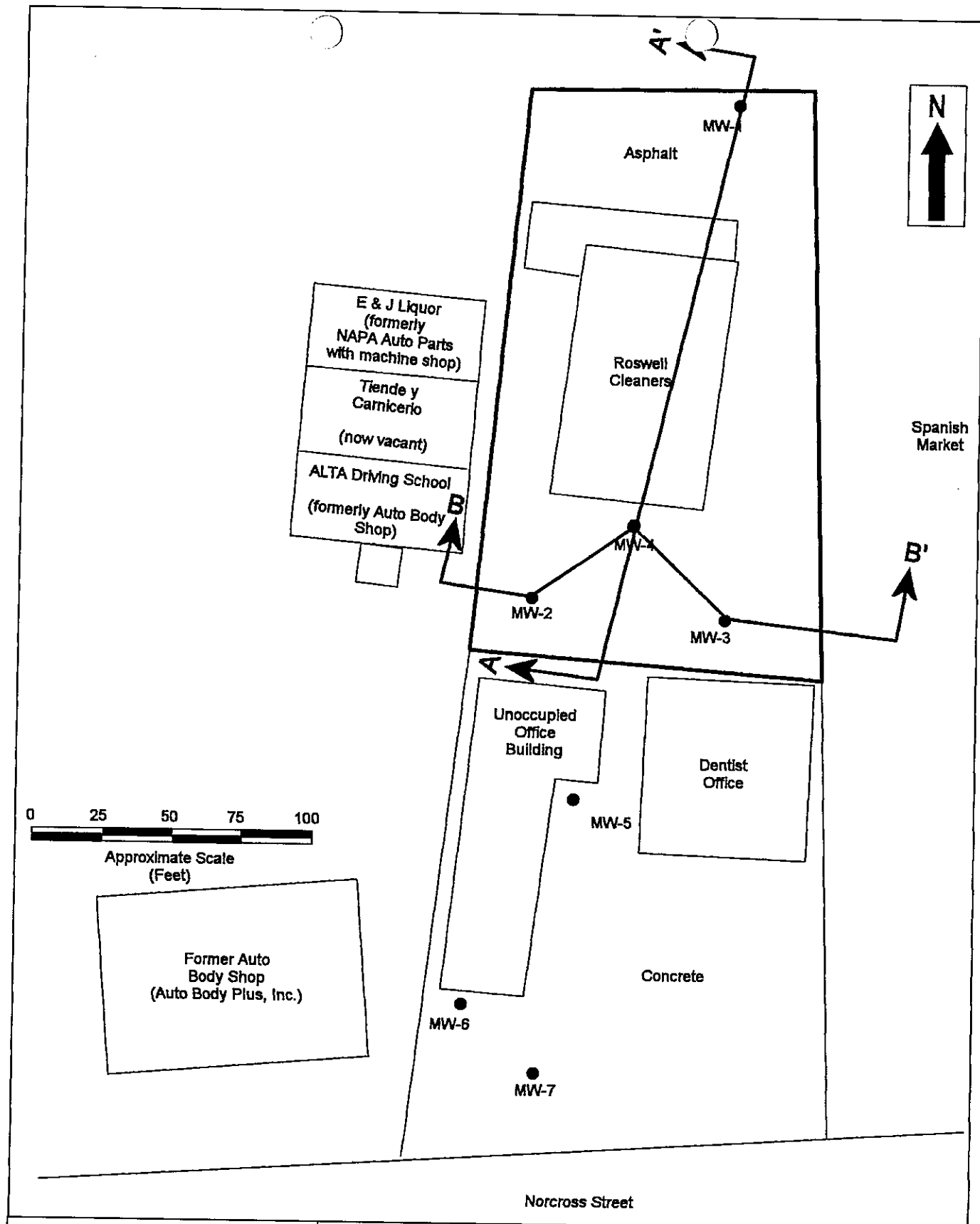
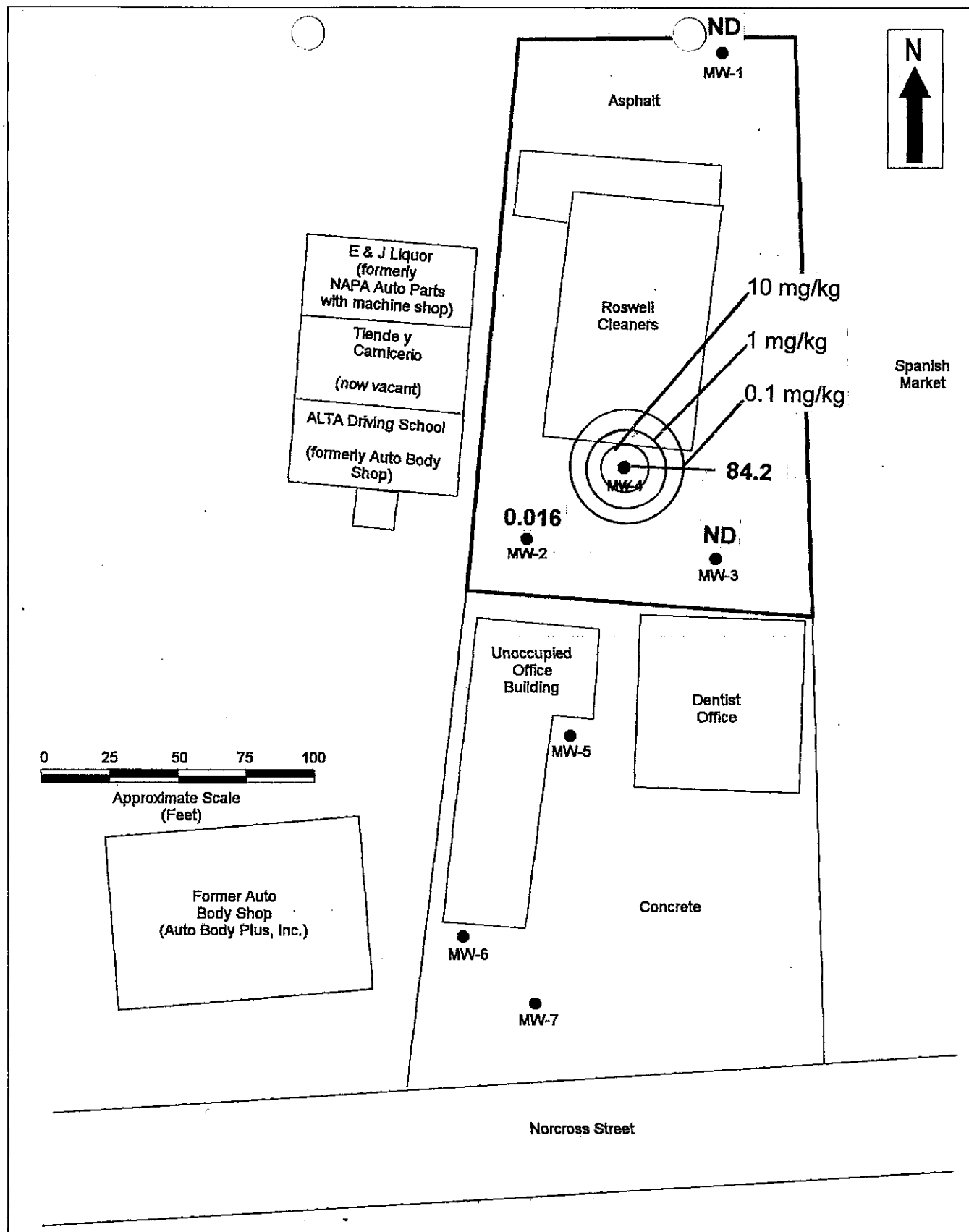


Figure 6 : Site Plan Showing
Locations Of Cross-Sections
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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**Figure 7: PCE Concentrations
In Soil at 15 Feet**
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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Checked By: Peter Kallay, P.E.



Figure 8 : PCE Concentrations in
Groundwater (ug/L) 8/27/2008
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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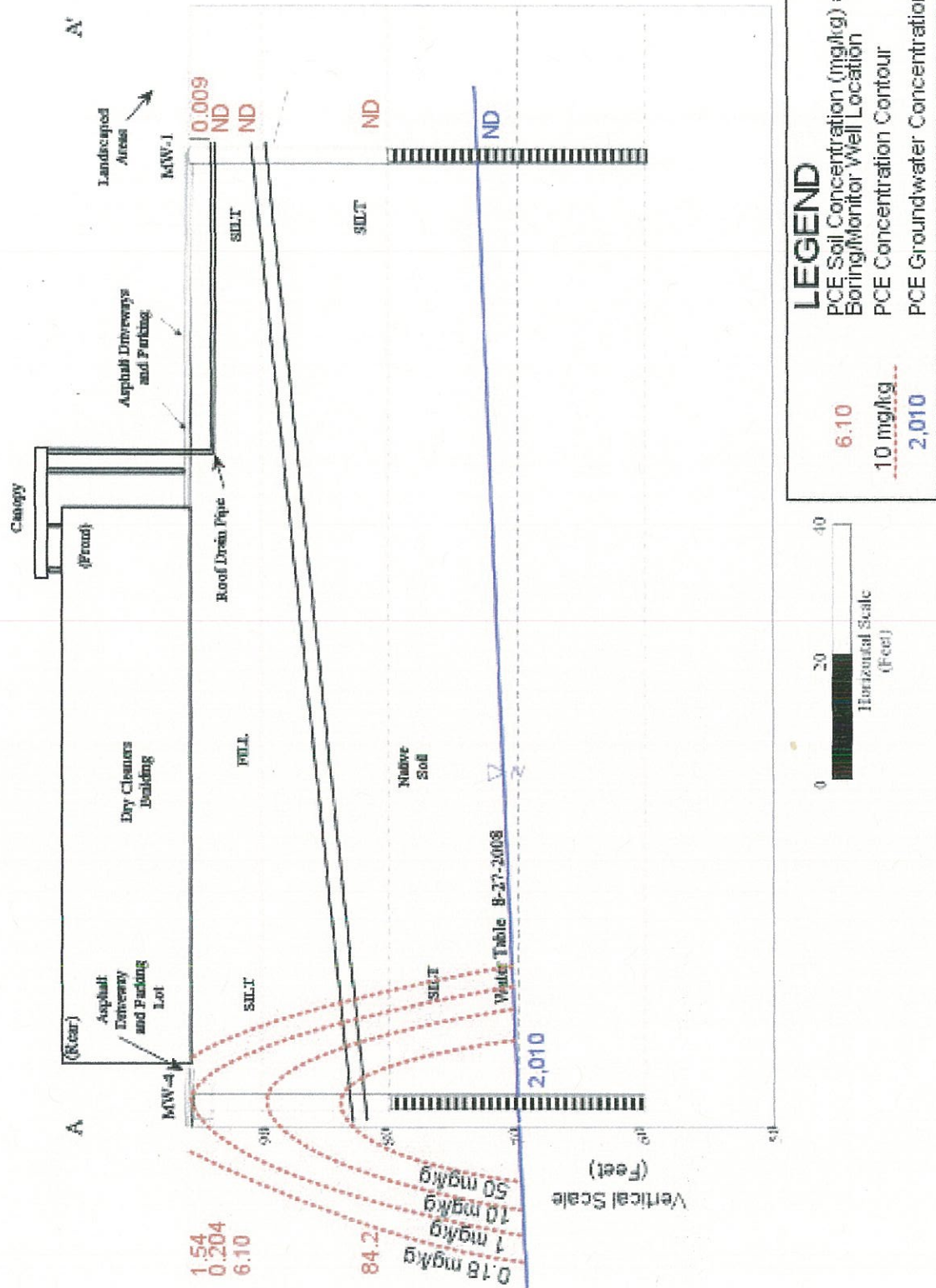


Figure 9 : Cross-Section A-A'
Locations Of Cross-Sections
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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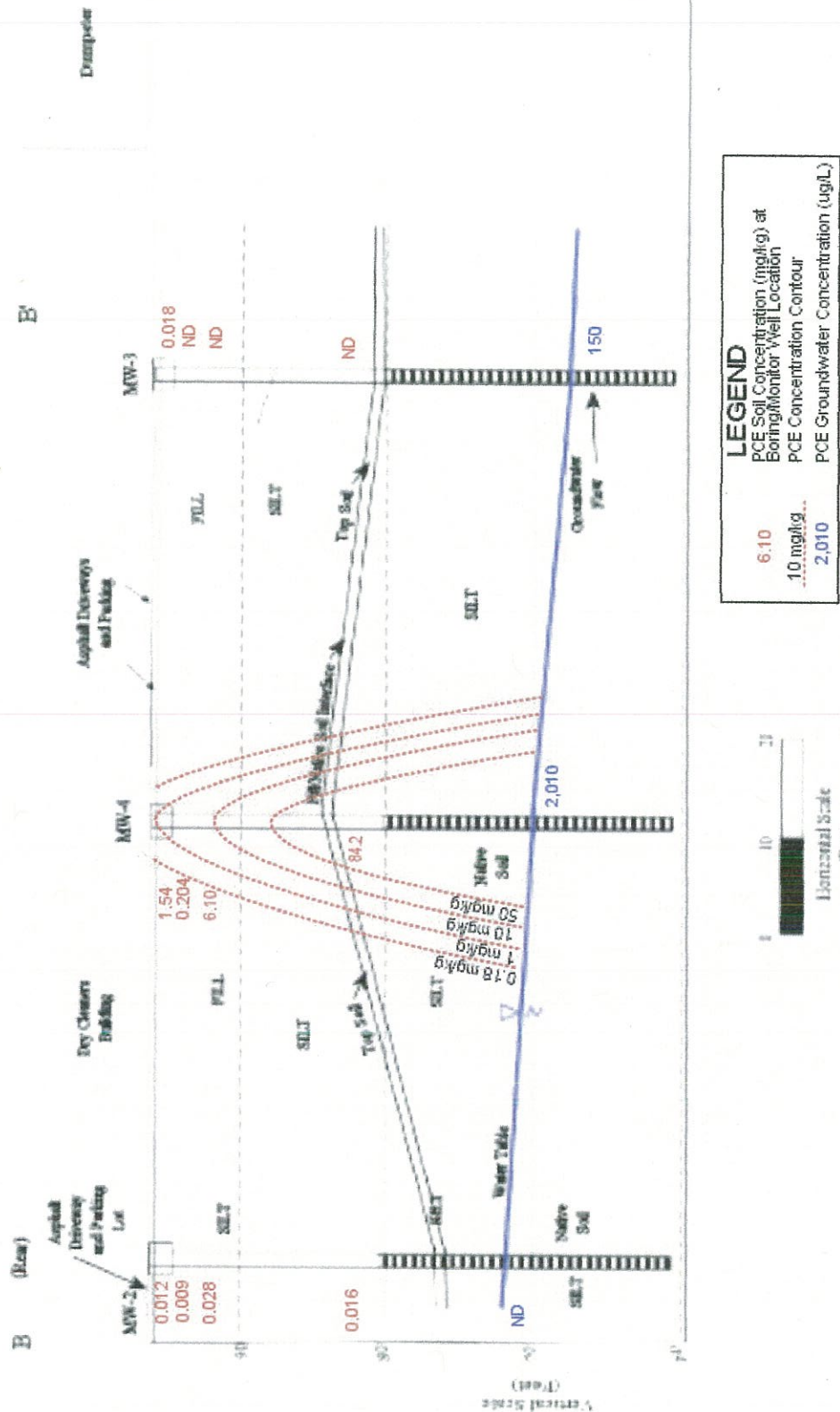


Figure 10.1: Cross-Section B-B'
Locations Of Cross-Sections
Roswell Cleaners and Coin
Laundry
1013 Alpharetta Street
Roswell, Fulton County, Georgia

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