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Atlanta Environmental Consultants

3440 Blue Springs Rd. Suite 503 Kennesaw, Georgia 30144

October 19, 2012

Mr. David Brownlee
Acting Program Manager
Response and Remediation Program
Land Protection Branch
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Drive SE
Atlanta, Georgia 30334-9000

CERTIFIED MAIL 7007 1490 0003 2617 5947 RETURN RECEIPT REQUESTED

Re: Semi-Annual Status Report - October 2012

Voluntary Remediation Program Roswell Cleaners, HSI Site No. 10883 Roswell, Fulton County, Georgia Tax Parcel ID No. 12-1902-0412-061-6

AEC Report REB-2407.03

Dear Mr. Brownlee:

Atlanta Environmental Consultants (AEC), on behalf of Mr. Richard E. Bowen, Roswell Cleaners property, 1013 Alpharetta Street, Roswell, Fulton County, Georgia, is pleased to present our third Semi-Annual Status Report (SASR) for the above referenced facility. The Georgia Environmental Protection Division (Georgia EPD) accepted Richard E. Bowen into the Voluntary Remediation Program (VRP) in a letter dated April 21, 2011. The activities, planning, preparation in support of progress of the VRP at the Roswell Cleaners property conducted during the time period between the previously submitted SASR and the current SASR can be summarized as follows:

CORRESPONDENCE WITH THE GEORGIA EPD

A request from Jessica Jewell McCarron, Environmental Engineer III, Response & Remediation Program, was received via email requesting an electronic copy of our previously submitted SASR. The electronic copy, prepared in portable document format (PDF) form, has been provided to the Georgia EPD. No other correspondence has been received by either Mr. Richard E. Bowen or Atlanta Environmental Consultants.



Phone: 678-738-7004

Fax: 678-569-2419

Complete Horizontal Delineation Where Access is Available

Completion of horizontal delineation where access is available has been completed, with completion of the Additional Environmental Assessment activities conducted in April 2012. Installation of an additional well near one possible source location, the dry cleaning machine, confirmed that no detectable concentrations of tetrachloroethene (PCE) or associated products were detected in either soils or groundwater at this location. Therefore, the only source onsite appears to be in the general area of MW-4, as previously identified.

All monitoring wells onsite, including the new well and the existing monitoring wells, were sampled following completion of additional delineation, in order to acquire a consistent and concurrent set of data across the site. The groundwater samples were all collected on the same date during the monitoring event. Additionally, in conjunction with this event, depths to groundwater in all monitoring wells, old and new, were gauged, current water table elevations were calculated, and data was formatted for presentation in the updated Conceptual Site Model (CSM).

Complete Horizontal Delineation Where Access is not Available

Field data, laboratory analytical data and evaluation of current and historical data gathered to date indicates that horizontal delineation of PCE and associated compounds concentrations reasonably attributable to activities onsite associated with Roswell Cleaners has been effectively delineated onsite. Atlanta Environmental Consultants is currently evaluating, planning and making preparations for completion of horizontal delineation where access is not available. Monitoring wells will be sampled again at appropriate times to confirm these findings and complete horizontal delineation where access is available and where access is not available.

Updated Conceptual Site Model

An updated Conceptual Site Model report has been prepared following completion of horizontal delineation where access is available. Tables listing historical and current groundwater data and elevations, and historical and current groundwater dissolved volatile organic compound (VOC) concentrations were prepared and included in the CSM. Existing figures were revised and updated and/or new figures were drafted, as appropriate, showing locations of the new monitoring well, water table elevations, and dissolved VOC concentrations. Water table elevation equipotential contours were developed and drafted. The CSM also includes appropriate conclusions and recommendations.

Additional revisions and updates have been made to the CSM as each additional scope of work in support of the implementation of the VRP has progressed through the field work, data collection efforts and other activities as listed in the Milestone Schedule originally dated February 28, 2011, and subsequently updated for each updated CSM, including the

current updated CSM. No additional revisions and updates to the CSM are warranted at this time. As additional data, site observations, evaluations, or other information is received, the CSM will be updated as appropriate.

Please do not hesitate to contact us should you have any questions.

Thank you.

Sincerely,

ATLANTA ENVIRONMENTAL CONSULTANTS

Peter T. Kallay, P.E.

Manager, Environmental Services

pc: Jessica Jewell McCarron, Georgia EPD

Richard E. Bowen

Richard A. Wingate, Esq., Hallman & Wingate LLC

PROJECTED MILESTONE SCHEDULE

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

October 19, 2012

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. Field data and information received was reviewed for potential revisions to the Milestone Schedule. The Milestone Schedule was updated. No recommended changes were identified. Tasks completed are noted.

Plan, Report or Action	Date to be Submitted
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 * * *

^{*} Tasks completed to date

^{**} Included in the current submittal

AEC Proj. No.	REB-2407	Atlanta Environmenta
Client	Richard Bowen	TIME REPOR
Client/File No.	HSI Site No. 10883	

tlanta Environmental Consultants	TIME REPORT

Site Loc 1013 Alpharetta St., Roswell, GA

Signature
Time Period 2012 Project Hours - VRP - Sheet 2

		Date October 17, 2012
DATE	HOURS	ACTIVITY DESCRIPTION
9/2	0.50	Review and summarize current project status.
7/11	0.50	Communications and correspondence: project invoices
9/18	1.00	Conference call with Richard Bowen: discuss, plan and prepare Semi Annual Status Report (SASR)
9/19	1.25	Confrrence with Mr. Bowen: discuss status, objectives and recommendations for SASR.
9/25	0.75	Begin review of previous SASR, planning and preparation for current SASR.
10/3	1.50	Receive email from Jessica McCarron: electronic copy SASR. Start assembling SASR/CSM components.
10/5	1.00	Meeting with Mr. Bowen: objectives achieved, objectives to address, plan, schedule, recommendations.
10/8	2.50	Draft Semi-Annual Status Report. Drafts to professional reviewers and Mr. Bowen.
10/15	2.25	Review SASR review comments received. Review and revise Draft SASR per comments. Print, review, revise, edit.
10/16	1.50	Review Conceptual Site Model. Update and revise report.
10/17	2.00	Finalize SASR and CSM. Approve Finalization. Start publishing reports.
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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

OCTOBER 2012

AEC Project Number REB-2407

Peter T. Kallay P.E.

acc

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

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

Professional Engineer Certification Registered

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 who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary and Investigation Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name Peter T. Kallay, P.E.	
Signature	
Date	
	Georgia Stamp or Seal
	Georgia Starrip of Seal

Site Description

The Site is a commercial property in the City of Roswell, Fulton County Tax Parcel # 12-1902-0412-061-6. The Site contains one single story commercial concrete block slab-ongrade building that was 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. Available records indicate the building has been used primarily as a dry cleaners since construction. The dry cleaners 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 the Site plan.

Site Surface and Subsurface Setting

The Site is situated on fill material (soil) up to 15 feet deep overlying the original soil horizon. All areas on the Site with measurable soil concentrations of volatile organic compounds (VOC) are capped with concrete or asphalt pavement in good condition. A layer of topsoil from the original soil horizon appears to be present at the depth of the original native soil surface. The resources survey conducted in conjunction with the Hazardous Site Response Act (HSRA) Notification confirms that no water wells or other groundwater use within one mile of the Site is known or suspected.

Environmental Assessment and Graphical 3-Dimensional Conceptual Site Model

Environmental assessment activities conducted at the Site have detected the presence of tetrachloroethene (PCE) and degradation products in soils and groundwater. Samples were collected on August 25-27, 2008, April 16, 2012 and April 18, 2012. All samples were analyzed by Advanced Chemistry Labs, Inc., Atlanta, Georgia.

Soils

Soil samples collected on August 24-25, 2008 from soil boring MW-4 at 15 feet below ground surface (bgs) contained the following constituents: PCE(84.2 milligrams per kilogram (mg/kg)); trichloroethene (TCE) (5.29 mg/kg); cis-dichloroethene (cis-DCE) (2.37 mg/kg); transdichloroethene (trans-DCE) (0.841 mg/kg). See Figure 3.

On April 16, 2012, soil boring/monitoring well MW-5 Bowen was collected. This boring/monitoring well is referred to herein as MW-5 Bowen to distinguish this well from a well previously identified as MW-5 that is located on the Lindsay Property, which is now referred to as MW-5 Lindsay. In addition, on April 14, 2012 a composite sample of investigative derived waste was collected. Both samples were analyzed by EPA Method 8260; no measurable concentrations of any compounds were detected in either sample.

Groundwater

On April 16, 2012 groundwater samples were collected at the site. The following constituents were detected in MW-4: PCE (0.066 milligrams per liter (mg/L)); TCE (0.037 mg/L); cis-DCE (0.056 mg/L); trans-DCE (0.0031 mg/L). Vinyl chloride (0.0036 mg/L) was detected in MW-2. See Fig. 4. No detectable concentrations of any compounds were detected in MW-5 Bowen.

A potentiometric map and groundwater flow direction is presented as Figure 5. Figures 6 through 10 depict the three-dimensional representation of soil and groundwater contamination, potential source areas, groundwater flow direction, and potential receptors.

Vapor Intrusion Pathway

On April 16-18 Atlanta Environmental Consultants attempted to penetrate the floor inside the building to collect soil gas samples through vapor probes. Efforts to bore through the floor were unsuccessful due to the apparent thickness of the concrete slab.

Additional efforts to collect sub-floor gas samples will be performed using heavier concrete-boring equipment. All samples will be collected and analyzed according to EPD guidelines and EPA Method TO-15.

Photo-ionization detector surveys have indicated vapor concentrations in the building's interior and nearby soils not exceeding 1.0 parts per million (ppm), except very briefly following dry cleaner operations. MW-5, installed hydraulically downgradient of the dry cleaning machine, indicated no detectable VOCs in either soils or groundwater.

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 appropriate implementation of, and use of, engineering controls, work practices, personal protective equipment (PPE) or other appropriate means of precluding or minimizing contact. Any construction area shall be barricaded, surrounded with construction fencing and/or employ other appropriate means to preclude access by unauthorized persons.

Surface Water

U.S. Geological Survey (USGS) 7.5-minute series topographic map, Roswell, GA Quadrangle (Figure 1) indicates Hog Wallow Creek at a distance of approximately 1,800 feet in the direction of groundwater flow (east-southeast) from the Site.



Existing data does not suggest that any concentrations of solvents exceeding applicable standards will reach Hog Wallow Creek or any other surface water body. See Figure 1. Groundwater migration rate was calculated at 7.80 feet/year to 19.89 feet/year(average 11.50 feet/year). At this rate groundwater from the Site would reach Hog Wallow Creek from 90 to 231 years, or an average of 157 years. This is the computed rate of groundwater flow and does not take into consideration any retardation or attenuation mechanisms.

Additional Investigations

Horizontal delineation has been completed where access is available.

MW-5 [Bowen] was installed hydraulically downgradient of the dry cleaning machine. MW-5 contained no detectable VOCs in soils or groundwater.

MW-3, located downgradient of the building, exhibited PCE (0.016 mg/L). Using groundwater modeling, PCE is delineated to below Type I Residential RRSs downgradient of MW-3 before reaching the property line.

MW-1, MW-2, and MW-5 delineate concentrations of PCE up-gradient and cross-gradient of the suspected source.

Using groundwater modeling, TCE is delineated to below Type I Residential RRSs in MW-4 (0.037 mg/L) and MW-3 (0.0084 mg/L) before reaching the property line.

Cis-DCE is below Type I Residential Standards in all samples.

VC was not detected in either MW-4 or MW-3.

Low concentrations of PCE, TCE, DCE and VC detected in MW-2 are not a result of activities on the Roswell Cleaners site. . No onsite sources or potential sources have ever existed on the Site upgradient or in the area of MW-2.

Many potential sources of PCE, TCE and associated solvents have formerly existed offsite, hydraulically up-gradient of MW-2, including the former Genuine Auto Parts, NAPA Auto Parts, NAPA Auto Parts machine shop, Auto Body Plus (the location at 1007 Alpharetta Street), Tallant Pete Motors, Big E Motors, Alfa Driving School, Wright, Joe E (believed to have been an automotive business), Capri XL Houseboats, Benson Chevrolet, Marietta Poultry Equipment, Simmons Engineering Co., Wright's Garage Ltd. and possibly others. Many of these sources pre-date Roswell Cleaners.

Completion of horizontal delineation where access is not available is proposed in 24 months. These delineation activities shall include then-current soil and groundwater concentrations and identification of points, if any, at which horizontal delineation does not appear to be complete where access is available. Delineation will be completed to the Voluntary Remediation Program Type I Residential Risk Reduction Standards.

Groundwater Fate and Transport Modeling

BioScreen was utilized to model contaminant concentrations along the route of flow and contaminant transport from MW-4 toward MW-3. The BioScreen model indicated that PCE, the compound present at the highest concentration in the apparent source well (MW-4), would decrease to below 0.005 mg/l before reaching the property line. The BioScreen model also indicated that TCE would decrease to below 0.005 mg/l before reaching the property line. Therefore, delineation where access is available has been completed.

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 until 1981. 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, changes of and temporary storage of spent filters, 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. All investigation findings to date indicate that any potential release was limited to the area of MW-4 at the rear of the building.

Additional Assessment and Risk Reduction Standards

The suspected 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 on the Site. Groundwater will be delineated to appropriate RRSs. In the event site-specific risk reduction standards are proposed, a point of demonstration well will be proposed, as appropriate, 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

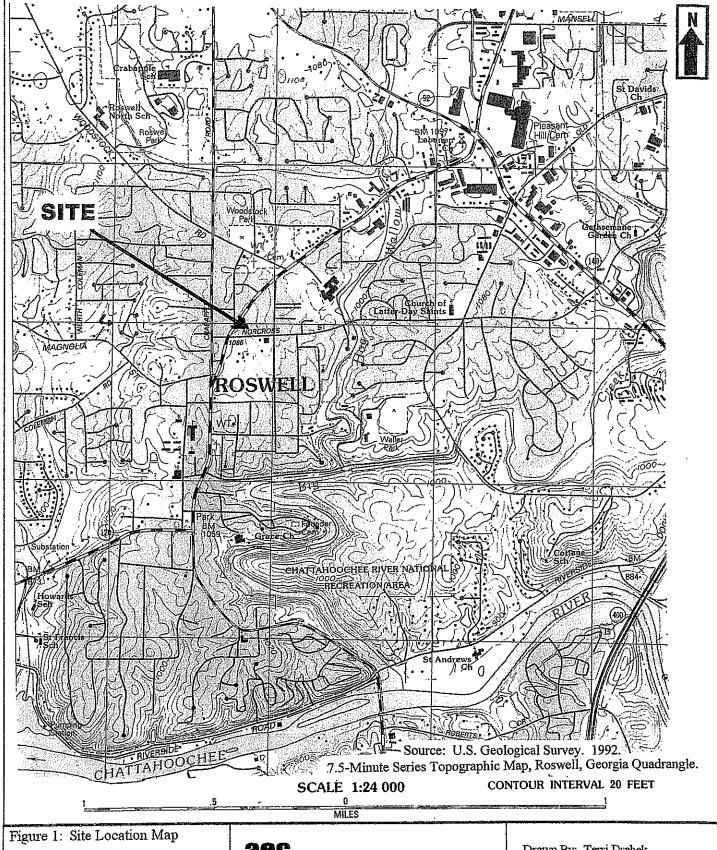
In the event engineering controls are proposed or utilized, a long-term maintenance and monitoring plan will be included as part of the proposed engineering controls remedy.

CONCLUSIONS AND RECOMMENDATIONS

Additional Assessments at the Roswell Cleaners property, 1013 Alpharetta Street, Roswell, Fulton County, Georgia 30075, HSI #10883, supports the following conclusions and recommendations:

- MW-5, located downgradient of the suspected source contained no detectable concentrations of VOCs by EPA Method 8260B in either soils or groundwater indicating that delineation has been achieved at this point.
- PCE and PCE degradation compound concentrations have generally decreased in concentrations since investigation activities commenced. PCE and products reasonably believed to have originated from site activities (MW-4 and MW-3) have been delineated. The only potential onsite source appears to be in the vicinity of MW-4.
- Groundwater flow direction has been determined to be toward the east-southeast.
 Groundwater flow direction has been consistently east-southeast during every gauging event conducted at the Site.
- Low concentrations of PCE, TCE and degradation products of PCE and TCE identified in MW-2 at the property's southwest corner originate from hydraulically upgradient sources toward the west-northwest. No onsite sources at, near or hydraulically up-gradient of MW-2 exist or are known to have ever existed onsite. Other potential off-site sources include a number of former businesses formerly located hydraulically up-gradient of the property containing Roswell Cleaners that typically use solvents, including PCE and/or TCE. The much more extensively degraded mix of chlorinated hydrocarbons at MW-2 suggests an more weathered and likely older source than the onsite source around MW-4.
- The site investigation will proceed in accordance with the Milestone Schedule.





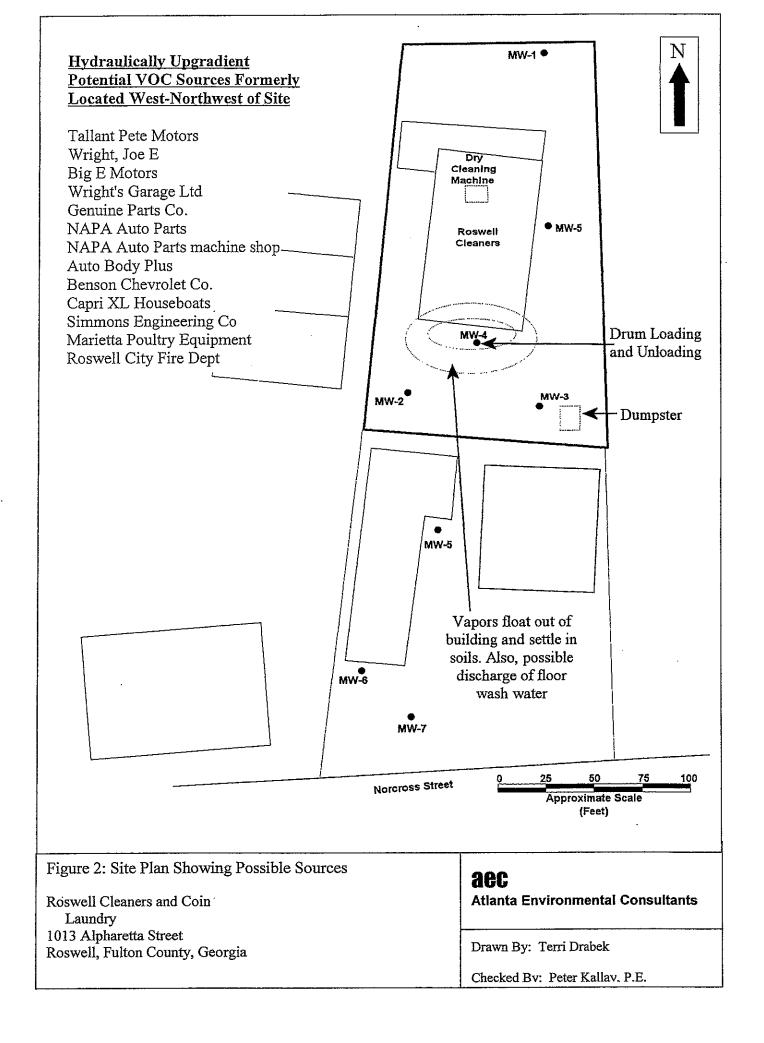
Roswell Cleaners and Coin Laundry 1013 Alpharetta Street Roswell, Georgia 30075

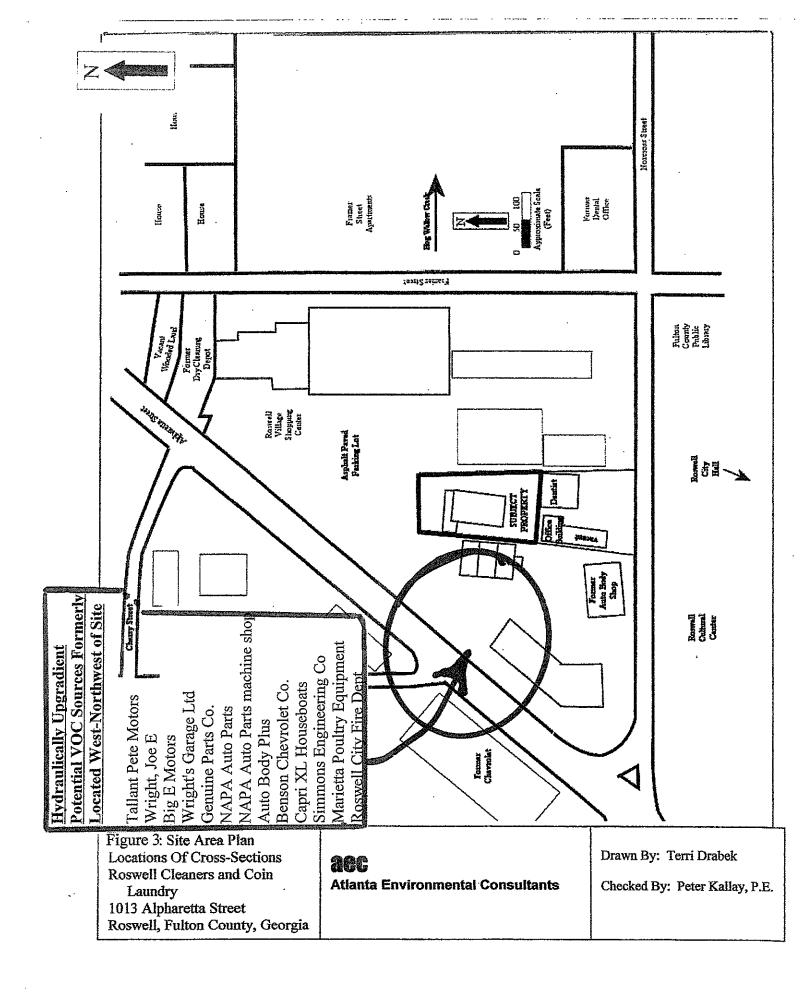
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Drawn By: Terri Drabek

Checked By: Peter Kallay, P.E.





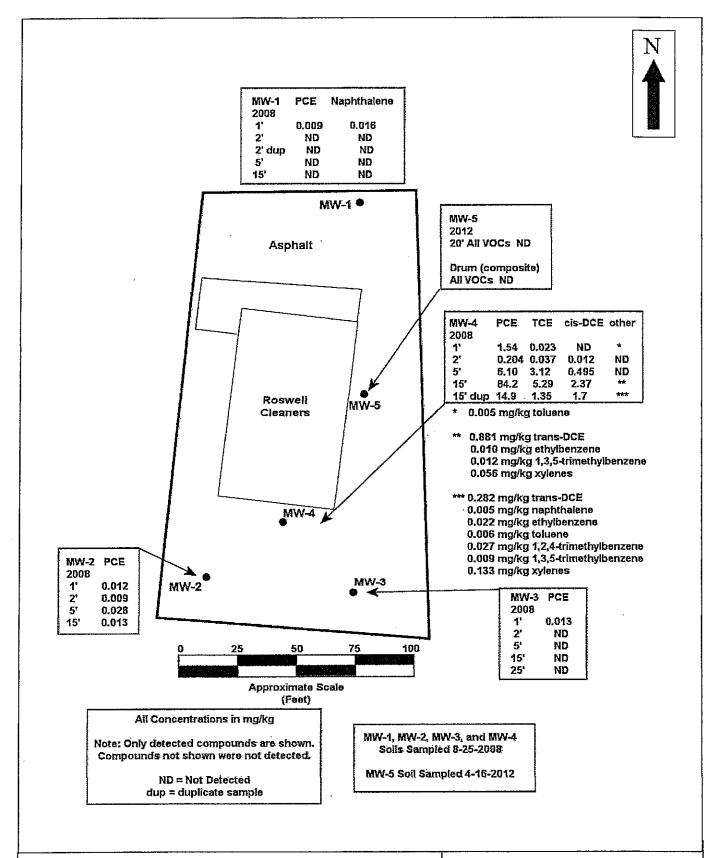


Figure 4: Soil Boring Locations Analytical Results

Roswell Cleaners and Coin Laundry 1013 Alpharetta Street Roswell, Fulton County, Georgia

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Atlanta Environmental Consultants

Drawn By: Terri Drabek

Checked By: Peter Kallay, P.E.



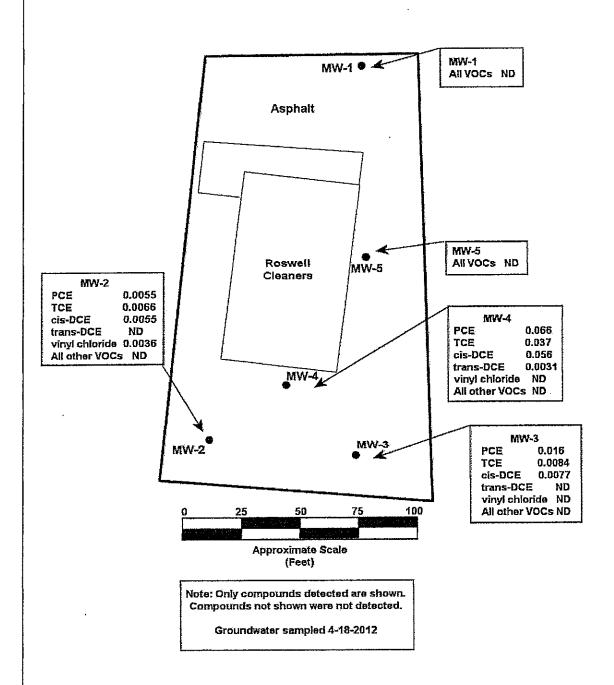


Figure 5: Monitor Wells and Groundwater Analytical Results

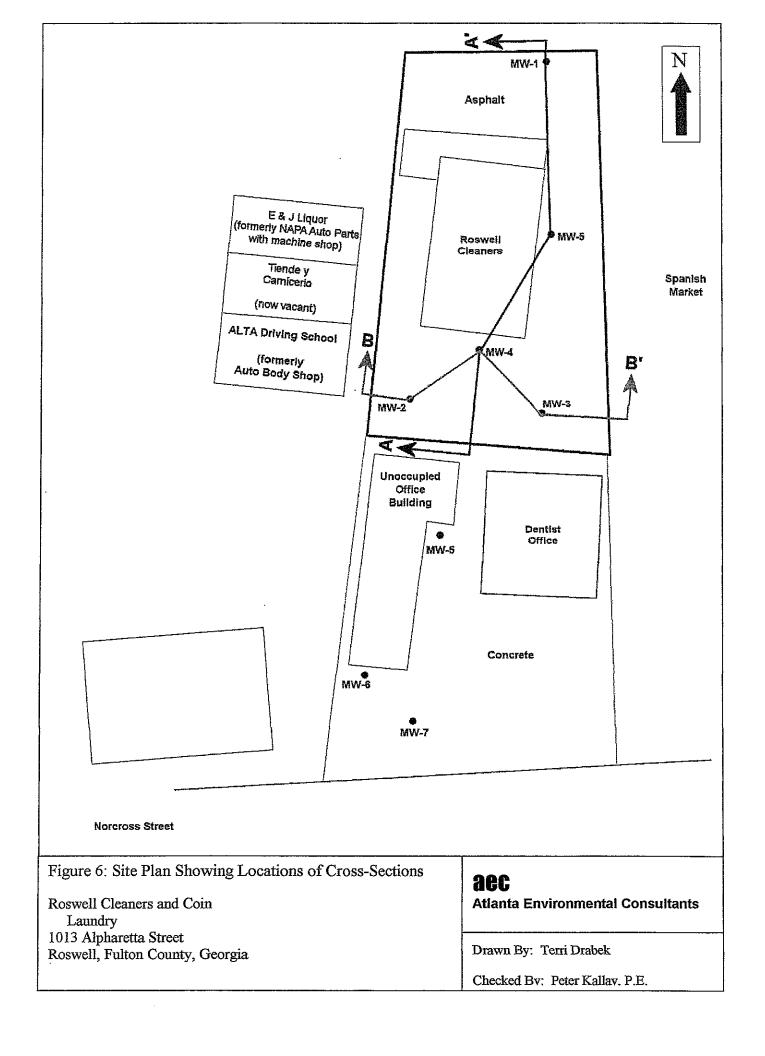
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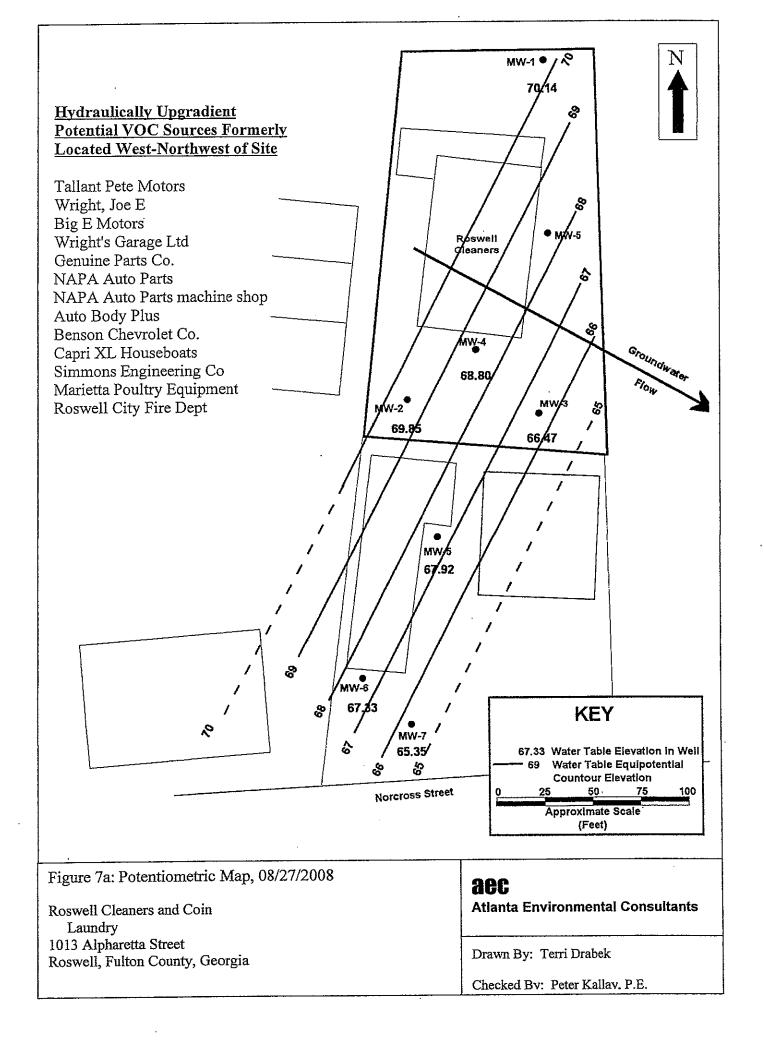
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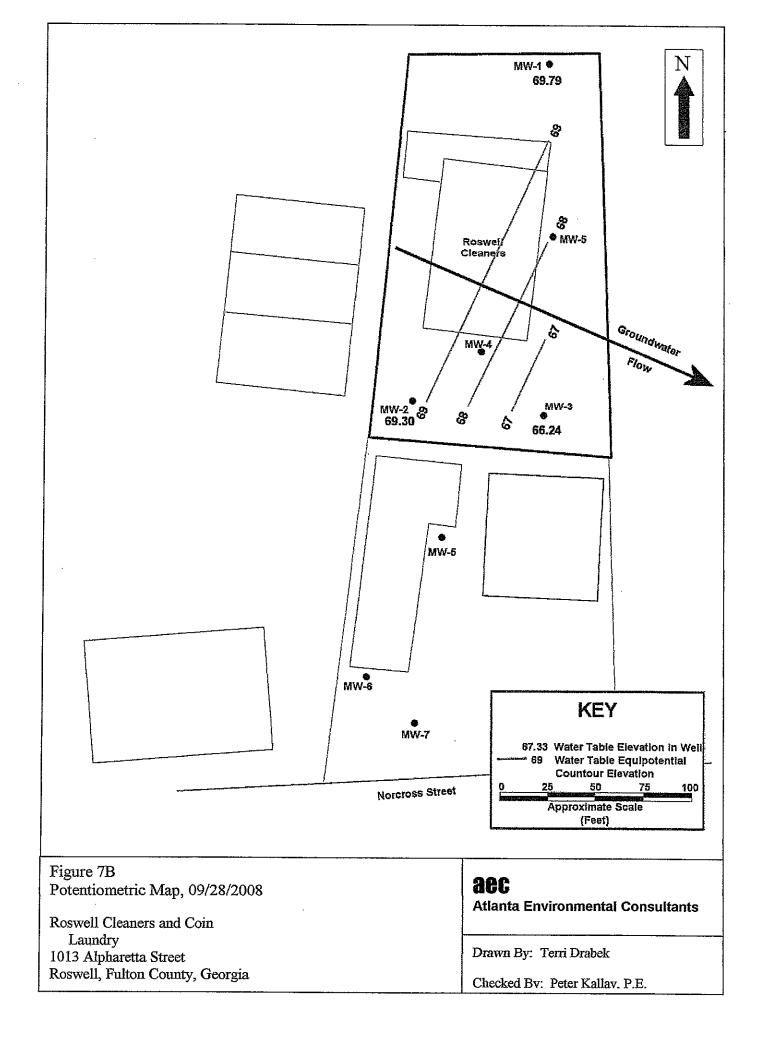
Atlanta Environmental Consultants

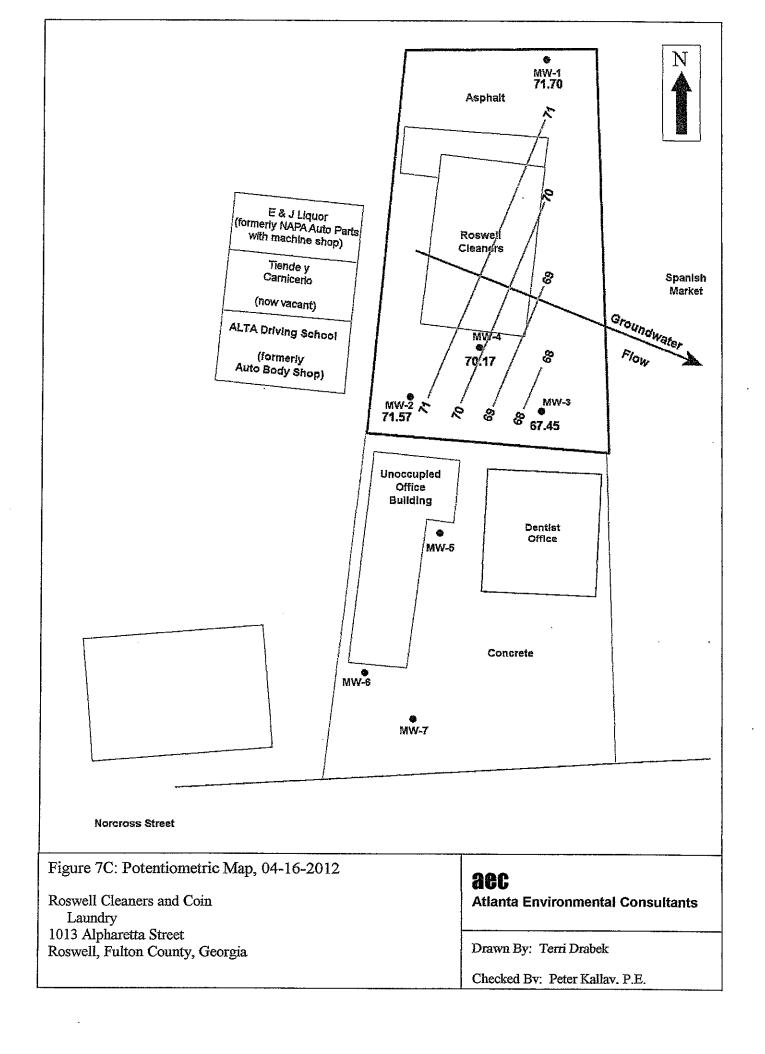
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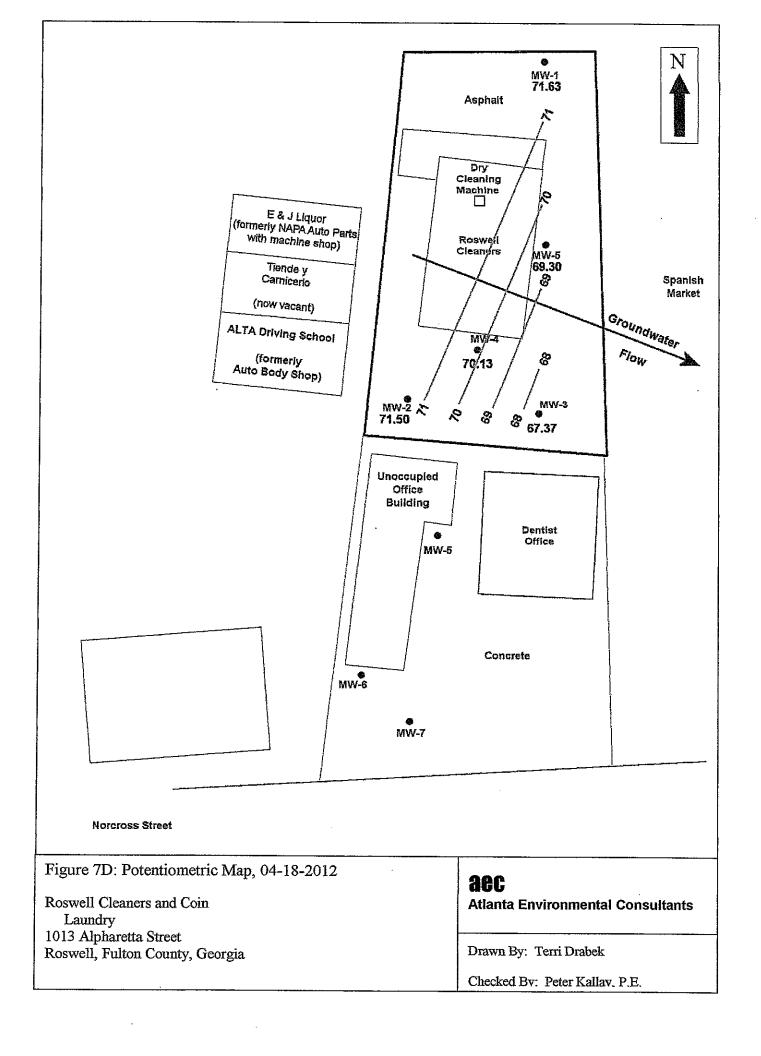
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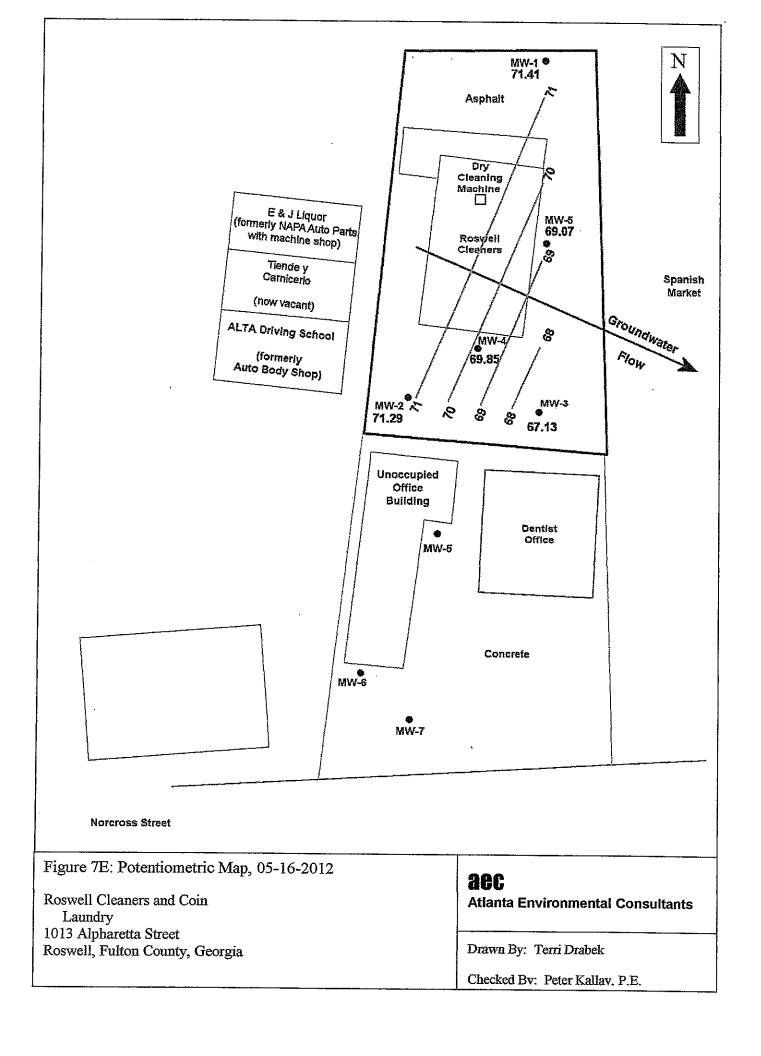


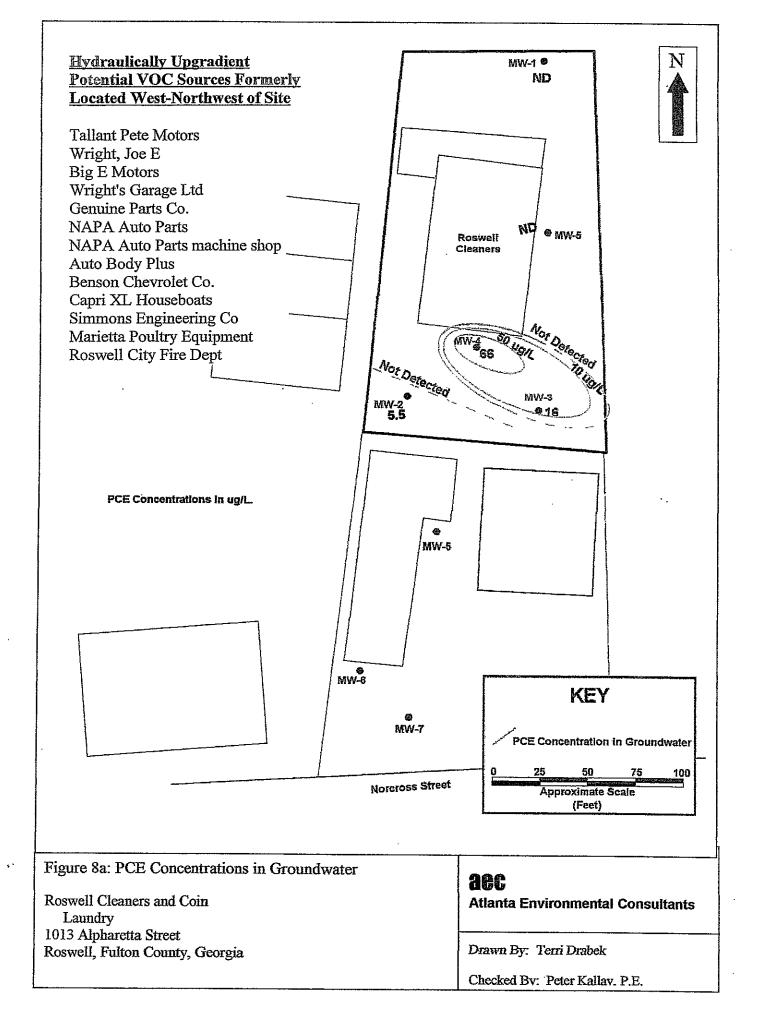


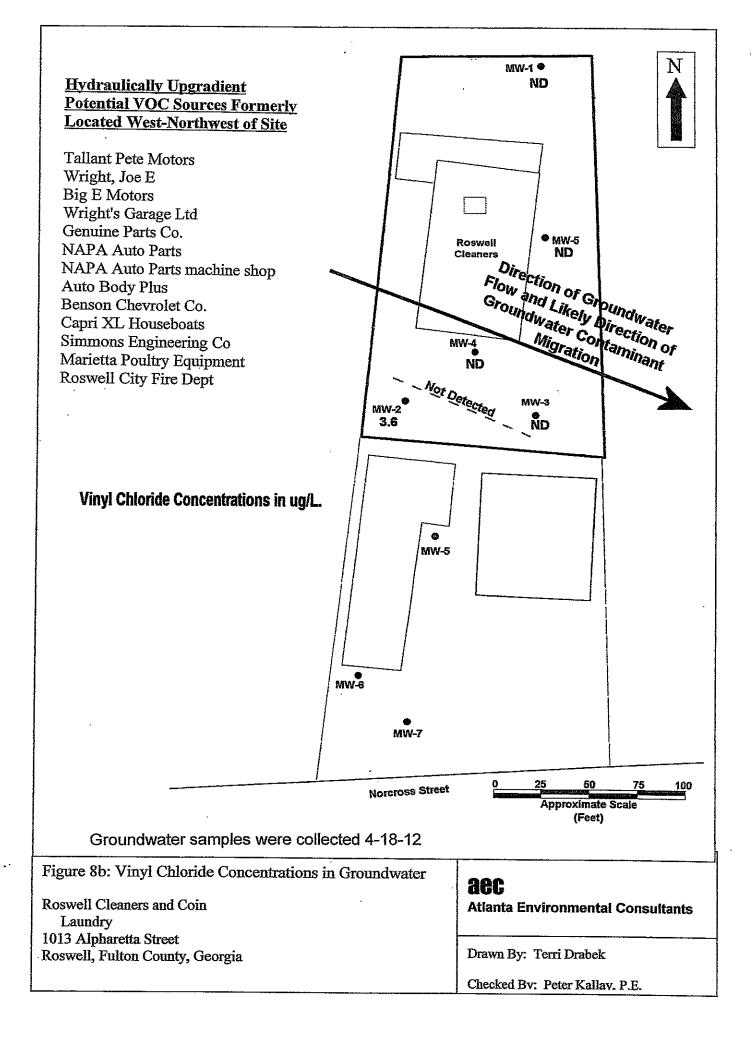


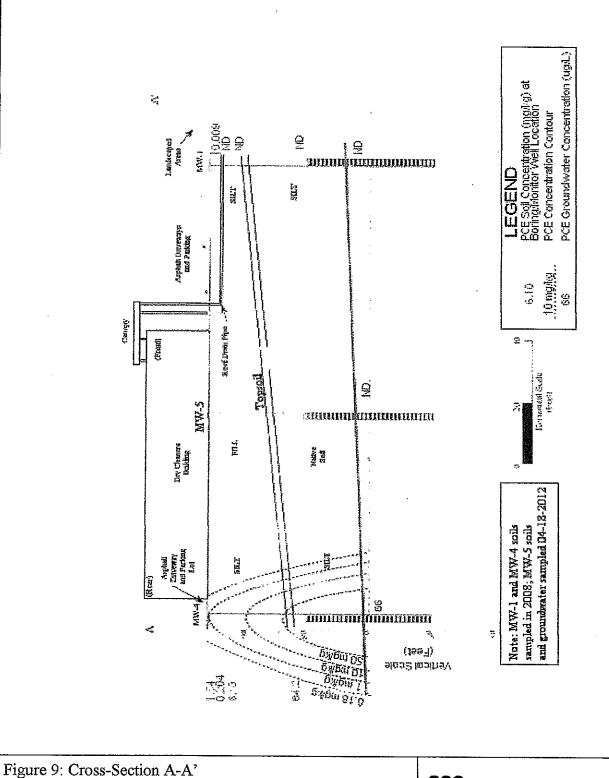












Roswell Cleaners and Coin
Laundry

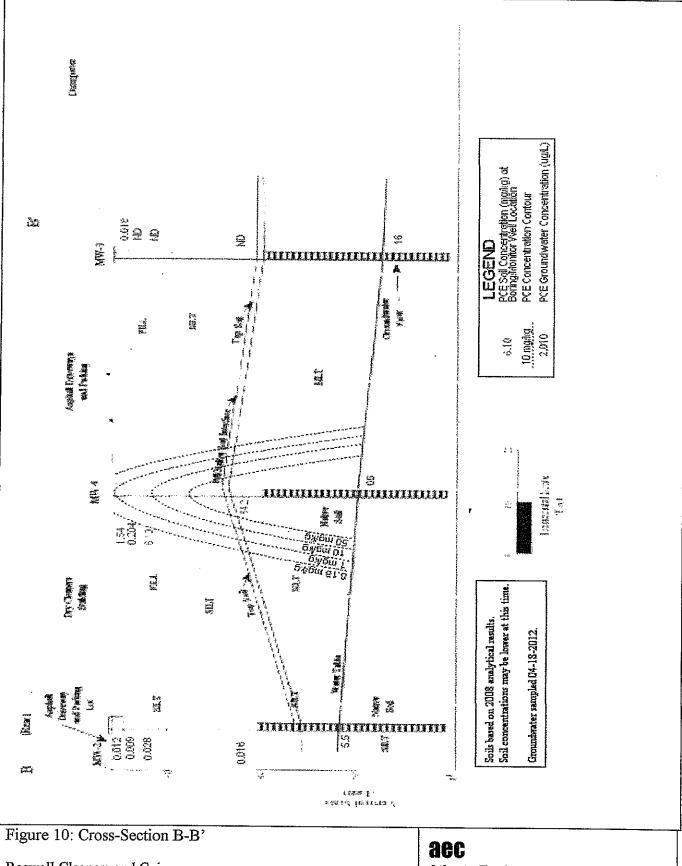
1013 Alpharetta Street Roswell, Fulton County, Georgia

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Atlanta Environmental Consultants

Drawn By: Terri Drabek

Checked By: Peter Kallay, P.E.



Roswell Cleaners and Coin

Laundry 1013 Alpharetta Street Roswell, Fulton County, Georgia

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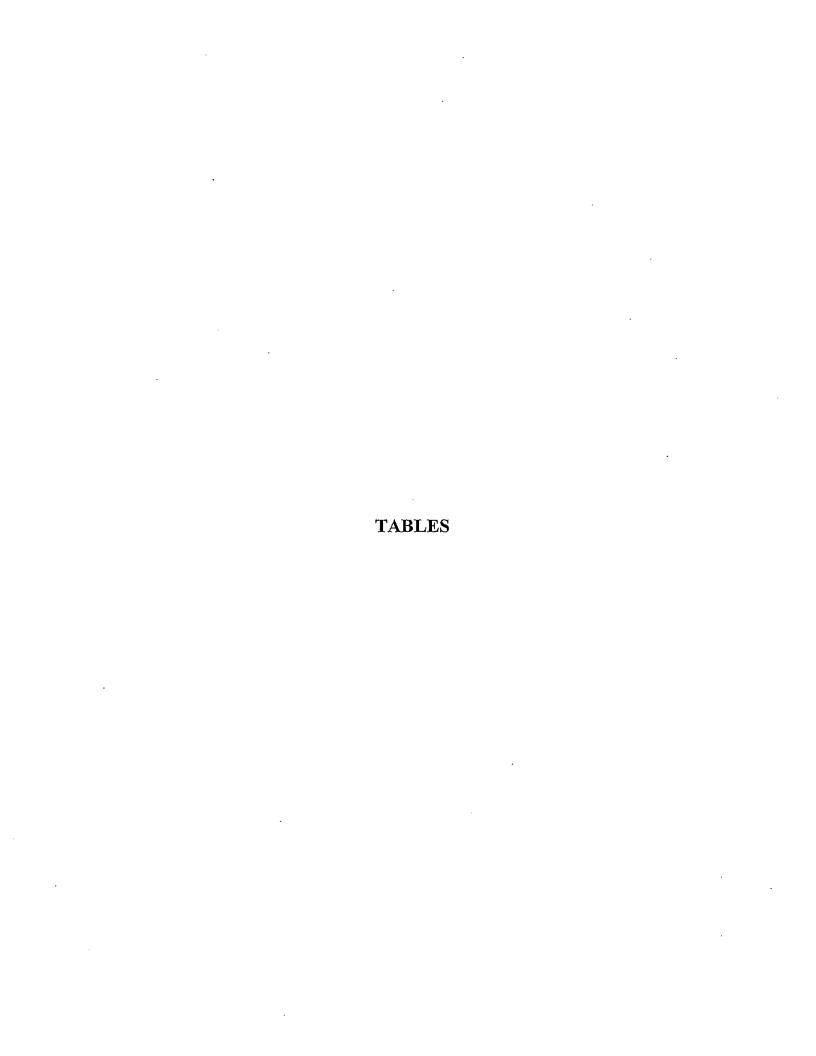


TABLE 1. Groundwater Analytical Results Roswell Cleaners and Coin Laundry 1013 Alpharetta Street, Roswell, Fulton County, Georgia 30075

Groundwater samples were collected on August 27, 2008 and April 18, 2012

SAMPLE		ANALYTICAL RESULTS - Milligrams Per Liter (mg/L)						
ID	PCE	TCE	cis-DCE	trans-DCE	VC	OTHER		
		_						
MW-1 2008	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			
MW-1 2012	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			
MW-2 2008	ND (0.005)	ND (0.005)	0.014	ND (0.005)	0.003	*		
MW-2 2012	0.0055	0.0066	0.0055	ND (0.005)	0.0036			
MW-3 2008	0.150	0.152	0.177	0.004	ND (0.002)			
MW-3 2012	0.016	0.0084	0.0077	ND (0.005)	ND (0.002)			
MW-4 2008	2.010	0.156	0.315	0.036	ND (0.002)			
MW-4 2012	0.066	0.037	0.056	0.0031	ND (0.002)			
MW-5 Bowen 12	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			
MW-5 Lindsay 08	ND (0.005)	ND (0.005)	0.005	ND (0.005)	ND (0.002)			
MW-6 Lindsay 08	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			
MW-7 Lindsay 08	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Eqpt Blank 08	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	**		
Trip Blank 08	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)			

NOTES:

Concentrations are given in milligrams per liter (mg/L)

Volatile Organic Compounds (VOC) were analyzed by EPA Method 8260B

ND = Not Detected (Below Quantitation Limits)

PCE = Tetrachloroethene, also known as perchloroethylene, tetrachloroethylene, or perc

TCE = Trichloroethene, also known as trichloroethylene

DCE = Dichloroethene

VC = Vinyl Chloride

Lindsay = Sample was collected on Lindsay Property; Bowen - Sample was collected on Bowen Property.

2008 or 08 = Sample was collected during 2008 sampling event on August 27, 2008

2012 or 12 = Sample was collected during 2012 sampling event on April 18, 2012

* = Chloroform 0.004 mg/l

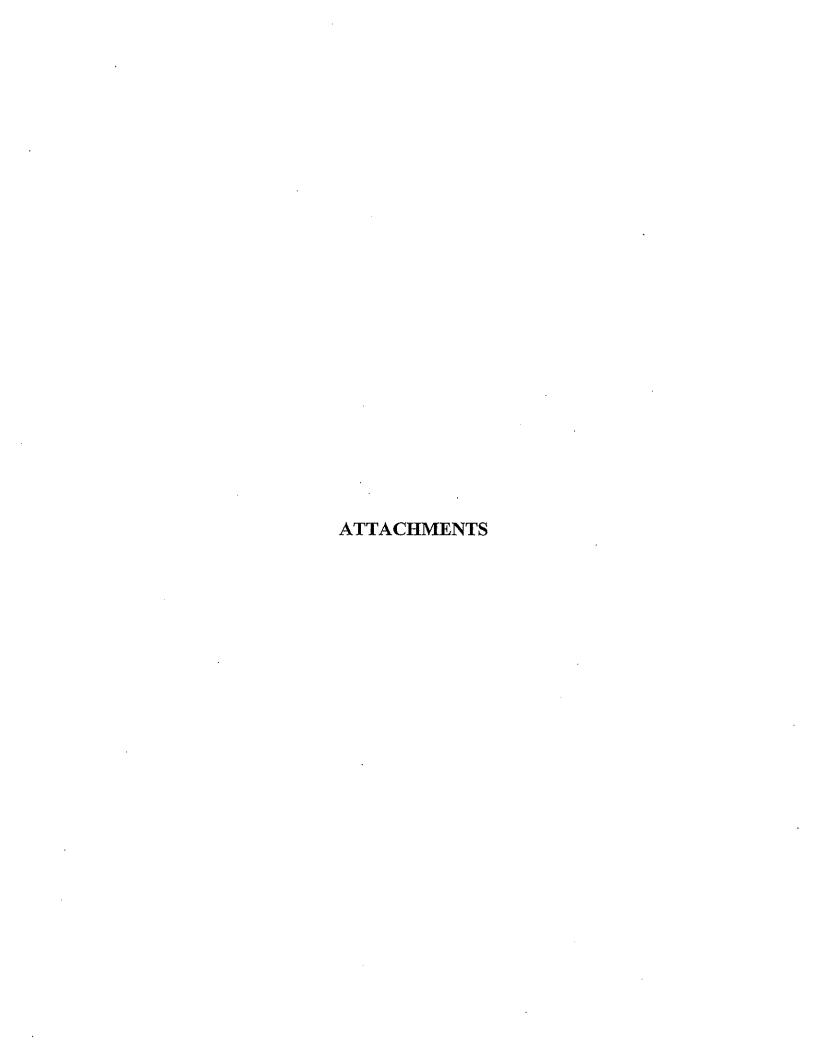
** = Naphthalene 0.006 mg/l

Table 2. Water Table Elevations Roswell Cleaners and Coin Laundry 1013 Alpharetta Street Roswell, Fulton County, Georgia

MONITORING	DATE	TOP-OF-CASING	DEPTH TO	WATER TABLE	NOTES
WELL ,	MEASURED	ELEVATION	WATER	ELEVATION	
		(feet)	(feet)	(feet)	·
MW-1	8/26/2008	93.77	23.56	70.21	
MW-1	8/27/2008	93.77	23.63	70.14	
MW-1	9/28/2008	93.77	23.98	69.79	slug test date
MW-1	4/16/2012	93.77	22.07	71.70	
MW-1	4/18/2012	93.77	22.14	71.63	
MW-1	5/16/2012	93.77	22.36	71.41	
MW-2	8/26/2008	94.12	24.49	69.63	
MW-2	8/27/2008	94.12	24.27	69.85	
MW-2	9/28/2008	94.12	24.82	69.30	slug test date
MW-2	4/16/2012	94.12	22.55	71.57	
MW-2	4/18/2012	94.12	22.62	71.50	
MW-2	5/16/2012	94.12	22.83	71.29	
MW-3	8/26/2008	94.87	28.46	66.41	
MW-3	8/27/2008	94.87	28.40	66.47	
MW-3	9/28/2008	94.87	28.63	66.24	slug test date
MW-3	4/16/2012	94.87	27.42	67.45	
MW-3	4/18/2012	94.87	27.50	67.37	
MVV-3	5/16/2012	94.87	27.74	67.13	
MW-4	8/26/2008	94.57	26.22	68.35	
MW-4	8/27/2008	94.57	25.77	68.80	
MW-4	4/16/2012	94.57	24.40	70.17	
MW-4	4/18/2012	94.57	24.44	70.13	
MW-4	5/16/2012	94.57	24.72	69.85	
MW-5 Bowen	4/18/2012	94.82	25.52	69.30	
MW-5 Bowen	5/16/2012	94.82	25.75	69.07	
MW-5 Lindsay	8/26/2008	82.92	15.22	67.70	
MW-5 Lindsay	8/27/2008	82.92	15.00	67.92	
MW-6 Lindsay	8/26/2008	81.59	14.60	66.99	
MW-6 Lindsay	8/27/2008	81.59	14.26	67.33	
-					
MW-7 Lindsay	8/26/2008	81.18	16.00	65.18	
MW-7 Lindsay	8/27/2008	81.18	15.83	65.35	

Notes:

1. Top of Casing Elevations are relative elevations, relative to an assumed height of instrument (H.I.) of 100.00 feet on August 26, 2008.



aec <u>Soil Boring Log</u>

Atlanta Environmental Consultants

Field Rep.

Peter T. Kallay, P.E.

REB-2401, 1013 Alpharetta St., Roswell, GA

Date

<u>MW-1</u>

Project No. Driller

Betts Environmental Recovery

Crew

Boring No.

August 25, 2008
Sam Conner, Jason Allwood,

Paul Summers

De	pth		Time	Туре	1st	2nd	3rd	Reco-	PID/
From	То	Soil Description			6"	6"	6"	very	FID
		Surface: Asphalt Pavement	9:30						
0.25	2	Red-brown SILT with some clay and some sand.	9:45	НА					3.3
		Damp, no odor, lumpy, some hard lumps. FILL					<u> </u>		
2	5	same as above, except some black organic	9:55	HA					0.8
		matter is present; some beige mottling was							
		observed. Damp, no odor. FILL							
						T			
5	7	Black, dark grey, light grey and red-brown	10:30	SPT	3	3	3	3	0.4
		mottled clayey SILT. Damp, slight odor of						45%	
		aged sewage. FILL							
							<u> </u>		
7	10	Red-brown clayey SILT with a little mica.	10:40	SPT	4	6	14	14	0.3
11	15	Underlain by nearly horizontally stratified thin							
		brown, dark brown, tan and beige layers, foliated,							
		with some mica, clayey SILT. Damp, no odor							
							<u> </u>		
15	20	Same as above, but red-brown and tan colors	10:50	SPT	7	7	8	9	0.2
		predominate. Damp, no odor.							
						<u> </u>			
20	25	Same as above, but there are more black and	10:55	SPT	11	12	21	28	0.1
		dark brown layers.				<u> </u>			
25		Same as above, but red, black, brown, tan and	11:05	SPT	4	6	8	9	0.1
		beige layers are curved, almost as if				<u> </u>			
		conchoidal. Moist, no odor.							
						ļ		<u> </u>	<u> </u>
			<u> </u>		_	ļ			
						<u> </u>	<u> </u>	<u> </u>	<u> </u>
		BORING TERMINATED at 35 feet				 	_		
			<u> </u>	<u> </u>		}			

Meti	hod:	Hollow-Stem Augers	S		
Auger	Х	Size <u>6 1/4</u>	_ OD	WeatherCloud	dy_overcast_light_rain
Wash		Size	_OD	Standby Time	
Core		Size	OD	Water Level	25 feet
Casing	Size:	2"	_	Borehole Depth	35 feet
Undist	urbed	SPT		Date Completed	8/25/2008
			Callana		

SOIL BORING LOG

Atlanta Environmental Consultants

Field Rep.

Peter T. Kallay, P.E.

Betts Environmental Recovery

Boring No.

<u>MW-2</u>

Project No. Driller REB-2401, 1013 Alpharetta St., Roswell, GA

Date Crew August 25, 2008 Sam Conner, Jason Allwood,

Paul Summers

De	pth		Time	Туре	1st	2nd	3rd	Reco-	PID/
From	То	Soil Description			6"	6"	6"	very	FID
		Surface: Asphalt Pavement	11:45						
									-
0.25	2	Reddish-brown SILT with some clay and sand.	11:50	HA					1.1
		Damp, no odor. FILL							1.2
2	10	Same as above, damp, no odor. FILL	11:55	SPT	1	1	1	1	1.0
								45%	
10	15	Same as above, moist to wet, no odor. FILL	12:00	SPT	1	1	1	1	1.1
								100%	
15	16	Brown clayey SILT, more clayey than above	12:05	SPT	4	4	4	4	0.6
		wet, no odor. FILL						35%	
16		Quartz rocks, brown sandy SILT.							
19	20	Dk brown topsoil, moist to wet, no odor							
20	25	Green-grey silty CLAY, plastic.	12:15	SPT	1	2	1	2	0.3
		moist to wet, no odor (except topsoil odor)						70%	
25	30	Mottled tan, beige, brown sandy SILT with some							
		quartz gravel. Very loose and crumbly.	12:25	SPT	4	5	8	6	0.8
		Moist, no odor.						85%	
			<u> </u>						
30	35	Same as above, but there are more black and	12:30	SPT	5	6	10	10	0.4
		dark brown layers. Moist to wet, no odor.			ļ				
35		Brown to red-brown SILT with a little clay and	12:45	SPT	4	5	6	5	0.2
		mica. Very loose and crumbly. Some gravel.							
		Wet, no odor.							
			ļ						
		DODING TEDUNATED AND A	ļ				<u> </u>		
		BORING TERMINATED at 35 feet	<u> </u>		ļ				
			1						

Method:	Hollow-Ste	m Augers		
Auger X	Size <u>6</u>	<u>1/4</u> OD	Weather <u>Partly Cloudy, rain earlier</u> war	m
Vash 💮	Size	OD	Standby Time	
Core	Size	OD	Water Level <u>25 feet</u>	
Casing Size	e: <u>2"</u>	11 Tab	Borehole Depth 35 feet	
Jndisturbe	d SPT		Date Completed 8/25/2008	
Mater I nee	!	Gallone		

aec SOIL BORING LOG

Atlanta Environmental Consultants

Field Rep.

Peter T. Kallay, P.E.

Boring No.

<u>MW-3</u>

Project No. Driller REB-2401, 1013 Alpharetta St., Roswell, GA Betts Environmental Recovery

Date Crew August 25, 2008 Sam Conner, Jason Allwood,

Paul Summers

					1 ddi C	ummer	<u> </u>		
De	pth		Time	Туре	1st	2nd	3rd	Reco-	PID/
From	То	Soil Description			6"	6"	6"	very	FID
		Surface: Asphalt Pavement	1:25						
0.25	2	Red-brown silty CLAY, damp, no odor.	1:35	HA					0.4
		FILL							
2	5	Same as above, damp, no odor. FILL	1:40	HA					0.5
			,						
5		Same as above, damp, no odor.	1:45	SPT	1	3	5		0.3
6	10	Beige uniform grain size fine SAND with no		<u> </u>				65%	
		fines. Damp. No odor. FILL						ļ	
			4 ==		ļ				
10	15	Tan, beige, light brown fine SAND with a slight	1:55	SPT	4	14	16	22	0.3
		greenish cast. Very loose and crumbly.	1					ļ	
		Damp. No odor. FILL	ļ		-		!	<u> </u>	
15	20	red-brown, tan, beige and various shades of	2:05	SPT	4	18	16	27	0.8
10	20	brown layers sandy SILT. Damp, no odor.	2.00	OF I	4	10	10	21	0.0
		Drown layers sandy GILT. Damp, no odor.		<u> </u>				ļ	
20	25	Same as above, but layers are mostly medium	2:20	SPT	15	23	27	35	0.7
		brown, grey and beige. Damp to moist. No odor.			1 .0				0.7
		brown, groy and borgo. Bamp to moon in bash							
25	30	Same as above, moist, no odor.	2:30	SPT	6	7	7	8	0.4
30	35	Same as above, wet, no odor.	2:45						
		BORING TERMINATED at 35 feet							
					1			1	ļ

Meth	nod:	Hollow-	Stem Aug	ers		•					
Auger	Х	Size _	6 1/4	OD	Weath	ег	Cloudy	overc	ast ligi	ot rain.	····
Wash		Size		OD	Standby Time						
Core		Size _		OD	Water	Level _		25 feet			
Casing	Size:	2"			Boreho	ole Dep	th	35 feet			
Undist	ırbed	SPT			Date C	omplet	ed	8	/25/200	8	
Water I	Loss _		_	Gallons							

SOIL BORING LOG aec

Atlanta Environmental Consultants

Field Rep.

Peter T. Kallay, P.E.

Boring No.

<u>MW-4</u>

Project No. REB-2401, 1013 Alpharetta St., Roswell, GA

Date

August 26, 2008

Driller Betts Environmental Recovery Crew

Sam Conner, Jason Allwood

Depth				Туре	1st	2nd	3rd	Reco-	PID/
From To		Soil Description			6"	6"	6"	very	FID
		Surface: Asphalt Pavement	10:00						
0.25	1	Grey to beige sandy GRAVEL Dry, no odor	10:30	HA					1.3
		FILL							
1	5	Red-brown clayey SILT with some sand and	10:45	HA					3.3
		some mica. Damp, no odor, but slight odor noticeable with depth. FILL							
		noticeable with depth. FILL							
5	10	brown and red-brown clayey SILT with clumps of	10:55	SPT	1	2	3	90%	18
		black soil around 10 feet. Damp, solvent odor						90%	
10		Same as above, damp, solvent odor FILL	11:00	SPT	2	4	6	7	778
12	15	tan, brown, beige horizontally stratified sandy SILT				<u> </u>		100%	
15	20	tan-brown, beige and black layered sandy SILT	11:10	CDT	2	3	5	5	849
13	20	Damp, solvent odor	11.10	OF I		3		90%	043
20	25	Same as above, with a lot of mica, horizontally	11:25	SPT	6	5	4	4	36.
		stratified. Damp, strong solvent odor.						65%	
25	30	Same as above, but layers are predominantly	11:40	SPT	6	4	5	5	34.4
		brown, beige and red. moist, slight odor						55%	
30	35	Same as above, wet, slight odor	11:55						
	:								
		BORING TERMINATED at 35 feet					,		
Meti	and:	Hollow-Stem Augers				<u> </u>			

Met	hod:	Hollow-Stem Auger	S		
Auger	Х	Size <u>6 1/4</u>	_ OD	Weather <u>Cloud</u>	y overcast light rain.
Wash		Size	_OD	Standby Time	•
Core		Size	_OD	Water Level	<u>25 feet</u>
Casing	Size:	2"	_	Borehole Depth	35 feet
Undist	urbed	SPT		Date Completed	8/26/2008
Motor	000		Gallone		

aec SOIL BORING LOG

Atlanta Environmental Consultants

Field Rep.

Peter T. Kallay, P.E.

Boring No.

<u>MW-5</u>

Project No.

REB-2401, 1013 Alpharetta St., Roswell, GA

Date

April 16, 2012

Driller

Betts Environmental Recovery

Crew

Jason Allwood, Paul Summers,

Sam Conner

De	pth		Time	Туре	1st	2nd	3rd	Reco-	PID/
From	То	Soil Description			6"	6"	6"	very	FID
0	0.25	Surface: Asphalt Pavement	2:50						
0.25	. 1	Red-brown sandy SILT, damp, no odor. FILL		CUT		 			0.2
		(Rig Shut down. Pin was bad. Replacement pin	was pro	cured	and ins	talled)			
5		Red-brown with tan streaks sandy SILT with	E:40	SPT	 	2	5		1.2
٥	0	some clay, some mica, moist, no odor. FILL	3.40	OF 1	1		- 3		1.2
		some day, some inica, moist, no odor. Fill		ļ		ļ			
10	11	Same as above. FILL. Underlain by white and	5:50	SPT	15	29	30		0.3
		tan silty SAND with a few black specks. Sand							
		has mixed grain sizes, some mica, moist, no odor							
15	16	White and tan horizontally stratified SILT,	6:05	SPT	7	7	8		0.4
		very micaceous, underlain by brown, beige and							
		It grey 1-2" layers of silty SAND, micaceous of							
		varying grain sizes. Moist. No odor.							
			0.45	COT	 				
20	21	Tan, beige, it brown fine SILT, horizontally	6:15	SPT	7	8	8		1.1
		stratified with some mica. Moist, slight		 -	<u> </u>				ļ
		undetermined odor.							
25	26	Grey, black and tan fine SILT, micaceous,	6:20	SPT	6	12	22		0.1
		horizontally stratified at 20 deg. Dip. Wet.							
		no odor.							
30	31	White, tan, silver, black and grey mottled SILT	6:35	SPT	12	9	10		0.3
		with some mica. Various colors predominate							
		every few inches. Horizontally stratified with							
		20 deg. Dip. Wet, saturated. No odor.			1				
		BORING TERMINATED at 35 feet							
		Light- Characteristics							

IVIETNO	a: r	Tollow-Stelli Augels	*		
Auger	X .	Size <u>6 1/4</u>	OD	Weather <u>Clo</u>	oudy warm breezy.
Wash		Size	OD	Standby Time	
Core		Size	OD	Water Level	26 feet
Casing Si	ize:	2"		Borehole Depth _	35 feet
Undisturb	ed	SPT		Date Completed_	. 0/16/2012
Water Los	SS		Gallons		

SLUG TESTS EVALUATION

Roswell Cleaners & Coin Laundry 1013 Alpharetta Street Roswell, Fulton County, Georgia

Raw Data Collected in the Field 09-28-08

WELL	TIME	Elapsed	D.T.W.	Drawdown	%	%
	H:MM:SS	Time(min)	(feet)	(feet)	Recovery	Drawdown
		min:sec				
MW-1						
	Static Dept	h to Water 2	3.98 Feet.	Test Started	: 2:26 P.M.	
	2:26:00	0:00	24.48	0.50	0%	100%
	2:26:20	0:20	24.40	0.42	16%	84%
	2:26:40	0:40	24.32	0.34	32%	68%
	2:27:00	1:00	24.30	0.32	36%	64%
	2:28:00	2:00	24.28	0.30	40%	60%
	2:28:30	2:30	24.26	0.28	44%	56%
	2:29:00	3:00	24.24	0.26	48%	52%
	2:29:30	3:30	24.22	0.24	52%	48%
	2:30:00	4:00	24.21	0.23	54%	46%
	2:31:00	5:00	24.20	0.22	56%	44%
	2:32:00	6:00	24.19	0.21	58%	42%
	2:33:00	7:00	24.18	0.20	60%	40%
	2:34:00	8:00	24.17	0.19	62%	38%
	2:35:00	9:00	24.15	0.17	66%	34%
	2:36:00	10:00	24.14	0.16	68%	32%
	2:37:00	11:00	24.13	0.15	70%	30%
	2:38:00	12:00	24.12	0.14	72%	28%
	2:39:00	13:00	24.11	0.13	74%	26%
	2:40:00	14:00	24.10	0.12	76%	24%
	2:41:00	15:00	24.09	0.11	78%	22%
	2:43:00	17:00	24.08	0.10	80%	20%
	3:00:00	34.00	24.04	0.06	88%	12%
	3:26:00	60.00	23.99	0.01	98%	2%

WELL	TIME H:MM:SS	Elapsed Time(min)	D.T.W. (feet)	Drawdown (feet)	% Recovery	% Drawdowr
MW-2	Otatia Dant	[4 00 F4	T4 C44	2.04 D M	<u> </u>
		h to Water 2				1000/
	3:04:00		25.15	0.33	0%	100%
	3:04:20		25.12	0.30	9%	91%
	3:04:40		25.10	0.28	15%	85%
	3:05:00	1:00	25.09	0.27	18%	82%
	3:06:00	2:00	25.07	0.25	24%	76%
	3:07:00	3:00	25.05	0.23	30%	70%
	3:08:00	4:00	25.03	0.21	36%	64%
,	3:09:00	5:00	25.01	0.19	42%	58%
	3:10:00	6:00	25.00	0.18	45%	55%
	3:11:00	7:00	24.99	0.17	48%	52%
	3:15:00	11:00	24.97	0.15	55%	45%
·	3:19:00	15:00	24.95	0.13	61%	39%
	3:22:00	18:00	24.92	0.10	70%	30%
	3:25:00	21:00	24.89	0.07	79%	21%
	3:51:00	47.00	24.86	0.04	88%	12%
	4:10:00	66.00	24.85	1	91%	9%
	4:10.00	00,00	24.00	0.03	9170	970

.

WELL ·	TIME H:MM:SS	Elapsed Time(min)	D.T.W. (feet)	Drawdown (feet)	% Recovery	% Drawdown
MW-3						
	Static Depti	h to Water 2	8.63 Feet.	Test Started	3:32 P.M.	
	3:32:20	0:00	28.91	0.28	0%	100%
	3:32:20	0:20	28.89	0.26	7%	93%
	3:33:00	1:00	28.88	0.25	11%	89%
	3:33:30	1:30	28.86	0.23	18%	82%
	3:34:00	2:00	28.85	0.22	21%	79%
	3:34:30	2:30	28.84	0.21	25%	75%
	3:35:00	3:00	28.83	0.20	29%	71%
	3:36:00	4:00	28.82	0.19	32%	68%
	3:38:00	6:00	28.81	0.18	36%	64%
	3:40:00	8:00	28.80	0.17	39%	61%
	3:44:00	12:00	28.77	0.14	50%	50%
	3:48:00	16:00	28.74	0.11	61%	39%
	3:54:00	22:00	28.73	0.10	64%	36%
	4:07:00	35.00	28.69	0.06	79%	21%
	4:21:00	49.00	28.65	0.02	93%	7%

Analysis Method: Bouwer & Rice, 1976.

	Paramete	er Values: R	aw Data an	d Basic Calcu	ılations
Pa	rameter	MW-1	Units	MW-2	MW-3
Well Diam		0.167		0.167	0.167
Borehole I	Diameter	0.54		0.54	0.54
Rc	eff well radius	0.18		0.18	0.18
Well Depti			feet	35	35
Static D.T.	.W.	23.98		24.82	28.63
Н		11.02	feet	10.18	6.37
L		20	feet	20	20
Rw	well rad (undist aq)	0.27	feet	0.27	0.27
L/Rw		74.07		74.07	74.07
Α		2.95		2.80	2.20
В		0.55		0.50	0.45
С		1.00		0.90	0.65
Yo		0.50	feet	0.33	0.28
Yt		0.19	feet	0.12	0.10
In(Yo/Yt)		0.97		1.01	1.03
t		8	minutes	16	19
Re	eff radius (diss Y)	< 1.450	feet	1.313	1.105
In(Re/Rw)		2.759		2.622	2.415
In(H/Rw)		3.709		3.630	3.161
D	eff aquifer thick.	20	feet	20	20
	(assumed)				
S		0.20		0.20	0.20
n		0.35		0.35	0.35
dh/dl		0.049	ft/ft	0.049	0.049
V		0.054	feet/day	0.0271	0.0214

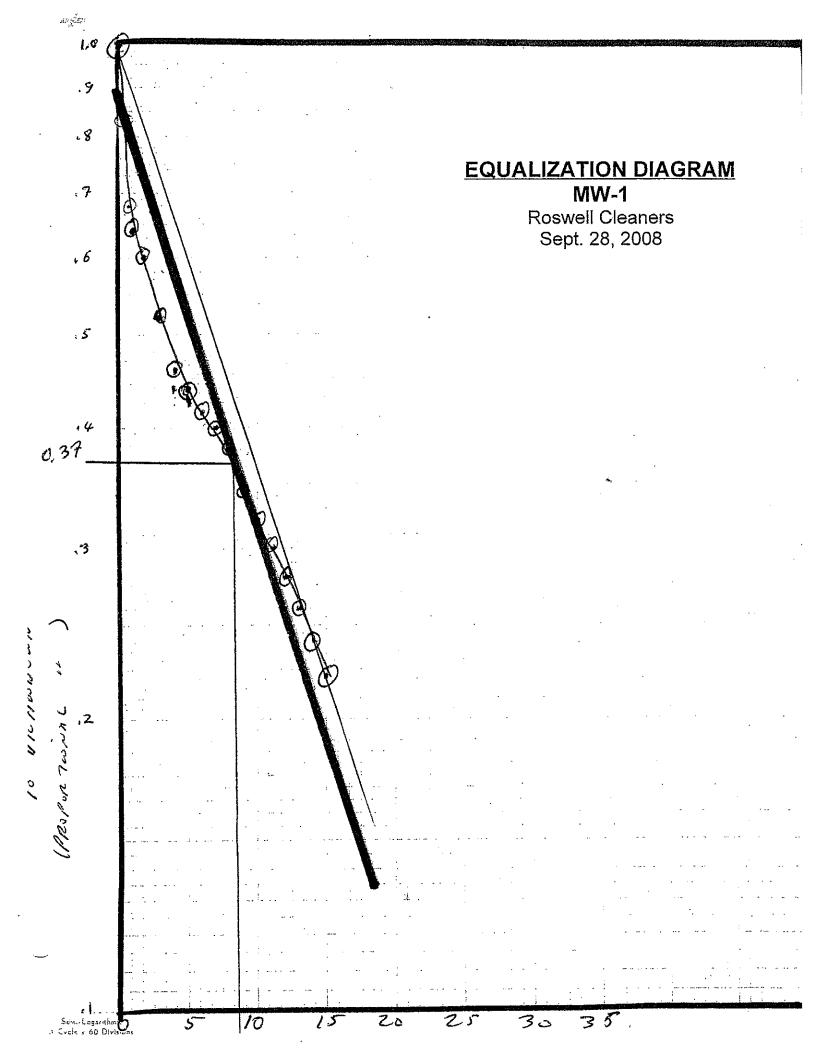
Reference: 1976. Bouwer, H. and R. C. Rice. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells. Water Resources Research V. 12 No. 3 pp. 423-429. June 1976. American Geophysical Union (AGU), Washington, DC

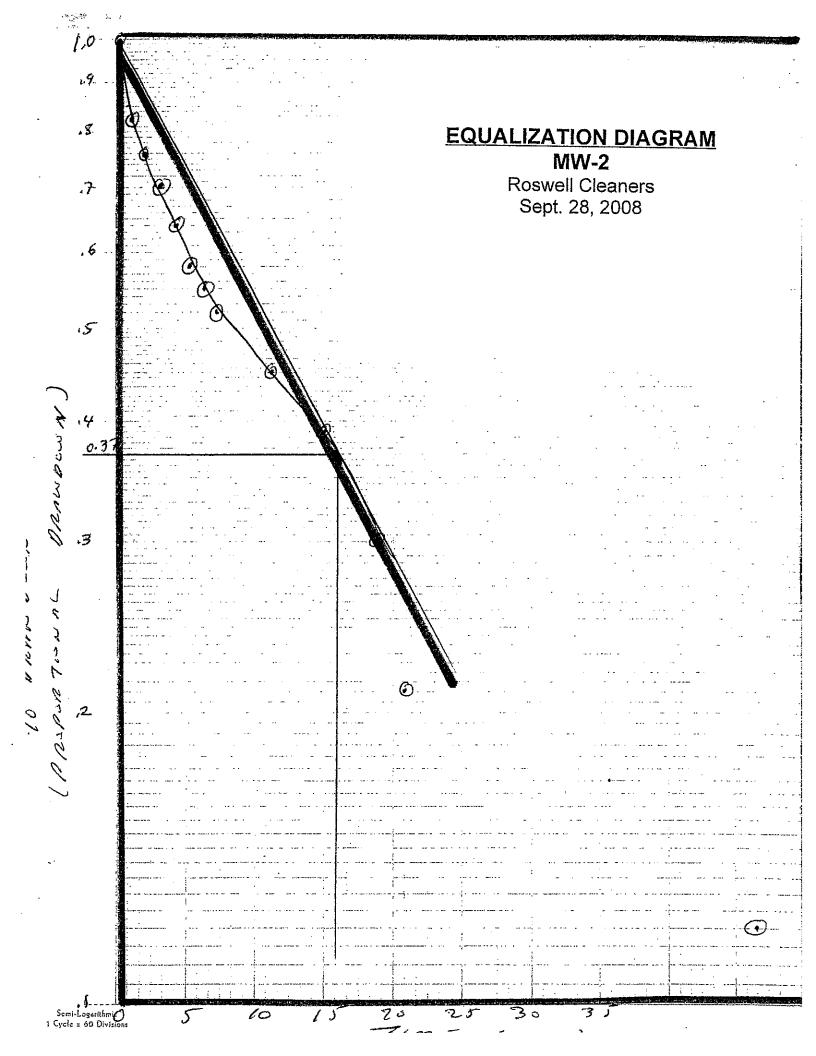
Detailed Calculations

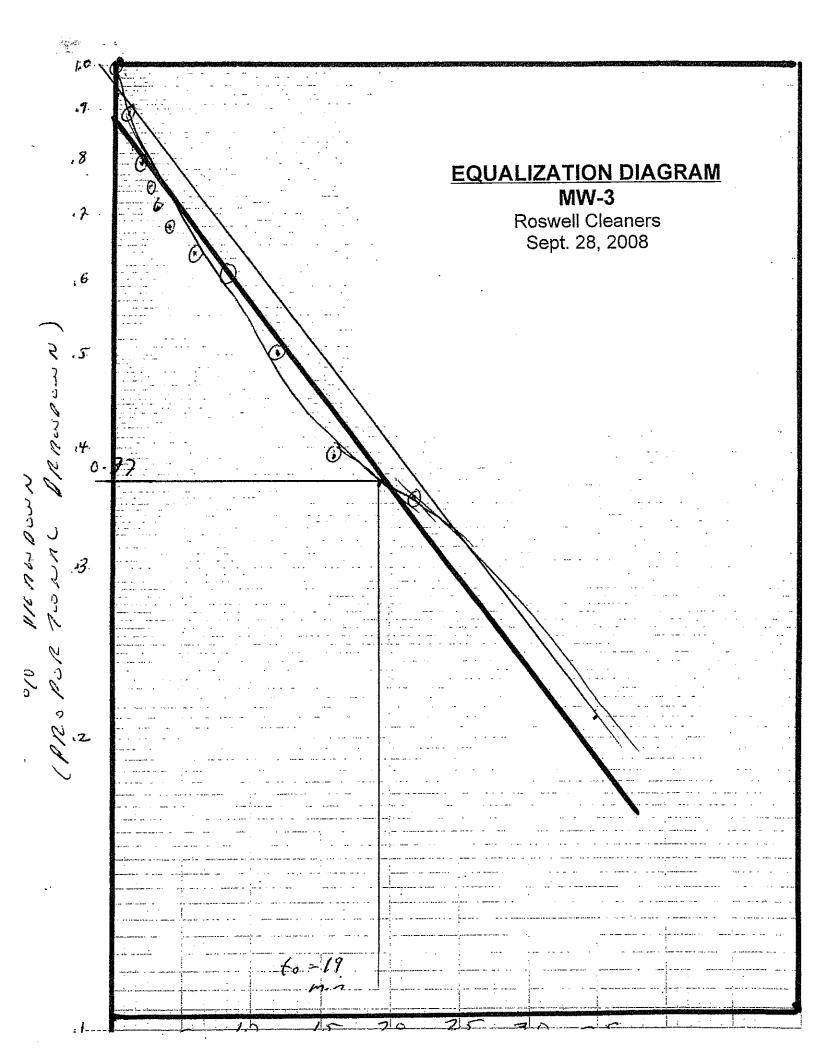
Parameter /Formula	MW-1	MW-2	MW-3	Eq#
<u>1</u> <u>in (Yo)</u> t Yt	0.120948	0.063225	0.05419	Eq (1)
<u>In(D - H)</u> Rw	3.504333	8.460819	9.675086	Eq (2)
<u>A + B In [(D - H)/Rw]</u> L/Rw	0.065845	0.0783	0.06615	Eq (4)
<u>1.1</u>	0.296572	0.30305	0.347999	Eq (5)
In(H/Rw) In <u>(Re)</u>	2.759253	2.62226	2.414593	Eq (6)
Rw <u>Rc * Rc In(Re/Rw)</u>	0.002235	0.002124	0.0020	Eq (7)
2 L K = (Eq 1) (Eq 7)	2.70E-04	1.34E-04	1.06E-04	Eq (8)
Kd = K * 1440	feet/sec 0.39	feet/sec 0.19	feet/sec 0.15	Eq (9)
Kg = Kd * 7.48	feet/day 2.91	feet/day 1.45	feet/day 1.14	Eq (10)
T = Kg * D	gpd/ft2 58.2	gpd/ft2 28.9	gpd/ft2 22.8	Eq (11)
	gpd/ft	gpd/ft	gpd/ft	
<u>V = Kd * dh</u> n dl	0.054 feet/day	0.0271 feet/day	0.0214 feet/day	Eq (12)
Vy = V * 365	19.89	9.88 feet/year	7.80 feet/year	Eq (13)
	feet/year	ieeryeai	reeryear	

Average groundwater flow velocity = (product of 3 Vy values) ** 1/3

11.50 feet per year









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Fax: (770) 409-1844 e-mail: acl@acl-labs.net

Laboratory Report

ACL Project #: 63407

Client Proj #: REB-2409 / Roswell Cleaners

Prepared For:

Atlanta Environmental Consultants 3440 Blue Springs Rd. Suite 503 Kennesaw, GA 30144-0000

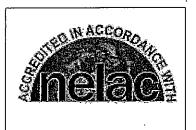
Attention: Mr. Peter Kallay

Report Date: 04/27/2012

This report contains 5 pages.

(including this cover page and chain of custody)

Technical Director



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3039 Amwiler Road, Suite 100, Atlanta, GA 30360 P. O. Box 88610, Atlanta, GA 30356

Phone: (770) 409-1444 Fax: (770) 409-1844 e-mail: acl@acl-labs.net

Explanation of Symbols and Abbreviations

Listed below are common symbols and abbreviations typically used in reporting technical data:

PQL	Practical Quantitation Limit	MDL	Method Detection Limit
BQL	Below Quantitation Limit	BDL	Below Method Detection Limit
MPN	Most Probable Number	TNTC	Too Numerous To Count
NTU	Nephelometric Turbidity Units	BTU	British Thermal Units
°C	Degrees Centigrade	°F	Degrees Fahrenheit
μmhos/cm	micromhos/cm	cfu	Colony Forming Unit
DF	Dilution Factor	meg	milliequivalents
kg	kilogram(s)	g	gram(s)
mg	milligram(s)	μg	microgram(s)
l or L	liter(s)	ml or mL	milliliter(s)
μ l or μ L	microliter(s)	m³	cubic meter(s)
İb	pound(s)	ft ³	cubic foot(feet)
ft	foot(feet)	su	Standard Units
<	Less than	>	Greater than

mg/L, mg/kg Units of concentration in milligrams per liter for liquids and milligrams per kilogram for solids.

Also referred to as parts per million or "ppm" when the assumption is made that the specific

gravity or density is one (1 g/mL).

 μ g/L, μ g/kg Units of concentration in micrograms per liter for liquids and micrograms per kilogram for solids.

Also referred to as parts per billion or "ppb" when the assumption is made that the specific

gravity or density is one (1 g/mL).

wt % Units of concentration expressed on a weight/weight basis (e.g. grams per 100 grams).

Surrogate Compound(s) added by the laboratory for quality control monitoring.

mg/kg,dw Units of concentration in milligrams per kilogram (dry weight basis).

Data Qualifiers:

B Analyte was also detected in the method blank

E Estimated value - analyte was detected at concentration greater than upper calibration limit

F Estimated value - analyte should have been tested as a field parameter

H Estimated value - sample was analyzed beyond the accepted holding time

J Estimated value - analyte was detected < PQL and ≥ MDL.

L The batch-specific LCS and/or LCSD was not within lab control limits for this analyte

M The batch-specific MS and/or MSD was not within lab control limits for this analyte

R The RPD between batch-specific sample/dup or MS/MSD was not within lab control limits for this analyte

S The surrogate recovery was not within quality control limits

Z Laboratory specific qualifier – refer to case narrative

* Performed in strict accordance with the procedures and controls of the ACL quality system, but not currently in the NELAC list of certified analytes/methods

Solid samples (i.e. soil, sludge, solid waste) are reported on a wet weight basis unless otherwise noted. Estimated uncertainty values are available upon request.

Representation and Limitation of Liability – The accuracy of all analytical results for samples begins as it is received by the laboratory. The integrity of the sample begins at the time it is placed in the possession of authorized ACL personnel. All other warranties, expressed or implied, are disclaimed. Liability is limited to the cost of the analysis.



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Client:

Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

Client Proj #: ACL Project #: REB-2409 / Roswell Cleaners

63407

04/17/2012 Date Received: 04/27/2012 Date Reported:

Contact:

Mr. Peter Kallay

Volatile Organics (5035/8260B)

Sample ID:

Units:

ACL Sample #:

MW-5 Drum

293171

Matrix:

Soil

mg/kg

Date Sampled:

04/16/2012 18:55

Date Prepared:

04/16/2012

Date Analyzed:

04/23/2012

Analyst:

Analyte	Result	PQL	<u>Analyte</u>	<u>Result</u>	PQL
Acetone	BQL	0.100	1,3-Dichloropropane	BQL	0.005
Acrolein	BQL	0.050	2,2-Dichloropropane	BQL	0.005
Acrylonitrile	BQL	0.050	1,1-Dichloropropene	BQL	0.005
Benzene	BQL	0.005	cis-1,3-Dichloropropene	BQL	0.005
Bromobenzene	BQL	0.005	trans-1,3-Dichloropropene	BQL	0.005
Bromochloromethane	BQL	0.005	Ethylbenzene	BQL	0.005
Bromodichloromethane	BQL	0.005	Hexachlorobutadiene	BQL	0.005
Bromoform	BQL	0.005	2-Hexanone	BQL	0.050
Bromomethane	BQL	0.010	Isopropylbenzene	BQL	0.005
2-Butanone	BQL	0.100	p-Isopropyltoluene	BQL	0.005
n-Butylbenzene	BQL	0.005	4-Methyl-2-pentanone	BQL	0.050
sec-Butylbenzene	BQL	0.005	Methylene chloride	BQL	0.005
tert-Butylbenzene	BQL	0.005	Naphthalene	BQL	0.005
Carbon disulfide	BQL	0.005	n-Propylbenzene	BQL	0.005
Carbon tetrachloride	BQL	0.005	Styrene	BQL	0.005
Chlorobenzene	BQL	0.005	1,1,1,2-Tetrachloroethane	BQL	0.005
Chloroethane	BQL	0.010	1,1,2,2-Tetrachloroethane	BQL	0.005
2-Chloroethylvinyl ether	BQL	0.010	Tetrachloroethene	BQL	0.005
Chloroform	BQL	0.005	Toluene	BQL	0.005
Chloromethane	BQL	0.010	1,2,3-Trichlorobenzene	BQL -	0.005
2-Chlorotoluene	BQL	0.005	1,2,4-Trichlorobenzene	BQL	0.005
4-Chlorotoluene	BQL	0.005	1,1,1-Trichloroethane	BQL	0.005
1,2-Dibromo-3-chloropropane	BQL	0.005	1,1,2-Trichloroethane	BQL	0.005
Dibromochloromethane	BQL	0.005	Trichloroethene	BQL	0.005
1,2-Dibromoethane	BQL	0.005	Trichlorofluoromethane	BQL	0.005
Dibromomethane	BQL	0.005	1,2,3-Trichloropropane	BQL	0.005
1,2-Dichlorobenzene	BQL	0.005	1,2,4-Trimethylbenzene	BQL	0.005
1,3-Dichlorobenzene	BQL	0.005	1,3,5-Trimethylbenzene	BQL	0.005
1,4-Dichlorobenzene	BQL	0.005	Vinyl acetate	BQL	0.050
Dichlorodifluoromethane	BQL	0.010	Vinyi chloride	BQL	0.010
1,1-Dichloroethane	BQL	0.005	m,p-Xylene	BQL	0.010
1,2-Dichloroethane	BQL	0.005	o-Xylene	BQL	0.005
1,1-Dichloroethene	BQL	0.005			
cis-1,2-Dichloroethene	BQL	0.005			
trans-1,2-Dichloroethene	BQL	0.005			
1,2-Dichloropropane	BQL	0.005			



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Sample Log-in Checklist

Client Name: Atlanta Environmental Consultants	ACL Project Number: 63407
Cooler Check	
Yes No Ice Present? ☑ ☐ Temperature 4 °C	Yes No Evidence Tape Present? Evidence Tape Intact?
For coolers with a temperature greater than 6°C or with a dam	naged evidence seal, the bottles affected are identified below.
Yes No Chain-of-Custody Form Included? ☑ □ Field Sampling Sheet Included? □ ☑	
Cooler Shipping and Receipt	
	ing Number:
	pt Time: 10:45 AM
Bottle Check	
Acid Preserved Sample (pH Check): pH<2? Yes (pH for VO vials to be checked upon analysis)	
Base Preserved Samples (pH Check): pH>12? N/A	
Chlorine Check (Positive, Negative, N/A): N/A	
Condition of Containers: Evidence Tape Present on Bottles?	
Evidence Tape Intact?	
Loose Caps? ☐ ☑ Broken Bottles? ☐ ☑	,
Cooler Unpacked/Checked By: JA Logged I	n By: JA Log-in Date: 4/17/2012
Comments (if any):	

ACL

ADVANCED CHEMISTRY LABS, INC.

3039 Amwiler Road · Suite 100 · Atlanta, GA 30360 ■ (770) 409-1444 · Fax (770) 409-1844

Company Name: All Missing Man Phone # 678-738-75	Cost me 20	Phone #: 673	67-82	8-700							
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Address: 810E SAKINGS	3 CG 120	Site Location:	1	CLEANERS	6.5	٠		AN	ANALYSIS REQUEST	EST	
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Project Manager:	across	Project #: R	REB.2409	60)		وه					
		Project Name: R C MWD C ATS SET	RC KI	SH JOH	5000	2.					
l attest that the proper field sampling procedures were used during the collection of these samples.	iling procedures these samples.	Sampler Name (Print)	(Print): ス	7. 1CA LC 17 9	N	ß -					
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Laboratory Report

ACL Project #: 63408

Client Proj #: REB-2409 / Roswell Cleaners

Prepared For:

Atlanta Environmental Consultants 3440 Blue Springs Rd. Suite 503 Kennesaw, GA 30144-0000

Attention: Mr. Peter Kallay

Report Date: 04/27/2012

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(including this cover page and chain of custody)

John Andros
Technical Director



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NTU	Nephelometric Turbidity Units	BTU	British Thermal Units
°C	Degrees Centigrade	°F	Degrees Fahrenheit
μmhos/cm	micromhos/cm	cfu	Colony Forming Unit
DF	Dilution Factor	meq	milliequivalents
kg	kilogram(s)	g	gram(s)
mg	milligram(s)	μg	microgram(s)
l or L	liter(s)	ml or mL	milliliter(s)
μ l or μ L	microliter(s)	m³	cubic meter(s)
ĺb	pound(s)	ft ³	cubic foot(feet)
ft	foot(feet)	su	Standard Units
<	Less than	>	Greater than

mg/L, mg/kg Units of concentration in milligrams per liter for liquids and milligrams per kilogram for solids.

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 μ g/L, μ g/kg Units of concentration in micrograms per liter for liquids and micrograms per kilogram for solids.

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wt % Units of concentration expressed on a weight/weight basis (e.g. grams per 100 grams).

Surrogate Compound(s) added by the laboratory for quality control monitoring.

mg/kg,dw Units of concentration in milligrams per kilogram (dry weight basis).

Data Qualifiers:

В	Analyte was al	also detected in the method blank

- E Estimated value analyte was detected at concentration greater than upper calibration limit
- F Estimated value analyte should have been tested as a field parameter
- H Estimated value sample was analyzed beyond the accepted holding time
- J Estimated value analyte was detected < PQL and ≥ MDL
- The batch-specific LCS and/or LCSD was not within lab control limits for this analyte
- M The batch-specific MS and/or MSD was not within lab control limits for this analyte
- R The RPD between batch-specific sample/dup or MS/MSD was not within lab control limits for this analyte
- S The surrogate recovery was not within quality control limits
- Z Laboratory specific qualifier refer to case narrative
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Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

Client Proj #:

REB-2409 / Roswell Cleaners

ACL Project #: 63408

Date Received: 04/17/2012 Date Reported: 04/27/2012

Contact:

Units:

Client:

Mr. Peter Kallay

Volatile Organics (5035/8260B)

MW-5 20' Sample ID:

mg/kg

ACL Sample #:

293172

Matrix: Soil

Date Sampled: 04/16/2012 18:15

Date Prepared: 04/16/2012 Date Analyzed: 04/23/2012

Analyst: JG

Acrolein BQL 0.050 2,2-Dichloropropane BQL 0.050 1,1-Dichloropropene BQL 0.050 1,1-Dichloropropene BQL 0.005 cis-1,3-Dichloropropene BQL 0.005 cis-1,3-Dichloropropene BQL 0.005 trans-1,3-Dichloropropene BQL 0.005 Ethylbenzene BQL 0.005 Ethylbenzene BQL 0.005 Hexachlorobutadiene BQL 0.005 Hexachlorobutadiene BQL 0.005 2-Hexanone BQL 0.005 2-Hexanone BQL 0.010 Isopropylbenzene BQL 0.010 p-Isopropyltoluene BQL 0.005 4-Methyl-2-pentanone BQL 0.005 A-Methyl-2-pentanone BQL 0.005 Methylene chloride BQL 0.005 Methylene chloride BQL 0.005 Naphthalene GQL 0.005 Naphthalene BQL 0.005 Styrene BQL 0.005 Styrene BQL 0.005 Styrene BQL 0.005 Styrene BQL 0.005 Naphthalene	BQL (CBQL (CBQC)(C	0.005 0.005 0.005 0.005
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Chloroethane BQL 0.010 1,1,2,2-Tetrachloroethane	BQL 0	0.005
2-Chloroethylvinyl ether BQL 0.010 Tetrachloroethene	BQL 0	0.005
Chloroform BQL 0.005 Toluene E	BQL 0	0.005
Chloromethane BQL 0.010 1,2,3-Trichlorobenzene E	BQL 0	0.005
2-Chlorotoluene BQL 0.005 1,2,4-Trichlorobenzene E	BQL 0	0.005
4-Chlorotoluene BQL 0.005 1,1,1-Trichloroethane E	BQL 0	0.005
1,2-Dibromo-3-chloropropane BQL 0.005 1,1,2-Trichloroethane E	BQL 0	0.005
Dibromochloromethane BQL 0.005 Trichloroethene	BQL 0	0.005
1,2-Dibromoethane BQL 0.005 Trichlorofluoromethane E	BQL 0	0.005
Dibromomethane BQL 0.005 1,2,3-Trichloropropane E	BQL 0	0.005
1,2-Dichlorobenzene BQL 0.005 1,2,4-Trimethylbenzene E	BQL 0	0.005
1,3-Dichlorobenzene BQL 0.005 1,3,5-Trimethylbenzene E	BQL 0	0.005
1,4-Dichlorobenzene BQL 0.005 Vinyl acetate E	BQL 0	0.050
Dichlorodifluoromethane. BQL 0.010 Vinyl chloride E	BQL 0	0.010
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1,2-Dichloroethane BQL 0.005 o-Xylene E	BQL 0	0.005
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cis-1,2-Dichloroethene BQL 0.005	•	
trans-1,2-Dichloroethene BQL 0.005		0.000
1,2-Dichloropropane BQL 0.005	,	



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Client Name: Atlanta Environmental Consultants	ACL Project Number: 63408
Cooler Check	
Yes No Ice Present? ☑ □	Yes No Evidence Tape Present? □ ☑
Temperature 4 °C	Evidence Tape Intact?
•	a damaged evidence seal, the bottles affected are identified below.
Yes N Chain-of-Custody Form Included? ☑ □	lo]
Field Sampling Sheet Included? 🔲 🕟	2
Cooler Shipping and Receipt	
Shipping Method: Delivered by Customer	Tracking Number:
Receipt Date: 4/17/2012	Receipt Time: 10:45 AM
Bottle Check	
Acid Preserved Sample (pH Check): pH<2? (pH for VO vials to be checked upon analysis)	Yes
Base Preserved Samples (pH Check): pH>12?	N/A
Chlorine Check (Positive, Negative, N/A):	N/A
Condition of Containers:	io
Evidence Tape Present on Bottles?	
Evidence Tape Intact?	
Loose Caps? 🔲 🗓	2
Broken Bottles?	<u> </u>
Cooler Unpacked/Checked By: JA Log	gged In By: JA Log-in Date: 4/17/2012
Comments (if any):	

ADVANCED CHEMISTRY LABS, INC. 3039 Amwiler Road · Suite 100 · Atlanta, GA 30360 **a** (770) 409-1444 · Fax (770) 409-1844

CHAIN-OF-CUSTODY RECORD	ANALYSIS REQUEST	2978	npling Appling Comp	7			TAT Special Handling Next Bus. Day	Cooler Temp. Normal AA/QC Level	MP//2 Time: Received by: Time: Received by:	Date: , Time: Received by Laboratory; ,
Phone # 678-738-7004 Fax# 678-569.2619	s S were	Project #: REB - 2 469 Project Name: RC MIN'C D35653 Sampler Name (Print): PETER 7- CALL MY	Method	121			Remarks:	Lab Use Only: 63408		Date:
15	Address: 3440 BLUESMRINGS 8 7440 STE SO 3 KENNESAW. CH 30144		Sample # of Containers Soil Soil Soil	NO. 5 20' 4 1		2.57	Special Detection Limits	Special Reporting Requirements GEORGIN EPD Example 1997	JSTODY ECORD	Relinquished by:



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Phone: (770) 409-1444 Fax: (770) 409-1844 e-mail: acl@acl-labs.net

Laboratory Report

ACL Project #: 63423

Client Proj #: REB-2409 / Roswell Cleaners

Prepared For:

Atlanta Environmental Consultants 3440 Blue Springs Rd. Suite 503 Kennesaw, GA 30144-0000

Attention: Mr. Peter Kallay

Report Date: 04/27/2012

This report contains 9 pages.

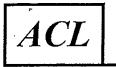
(including this cover page and chain of custody)

John Andros
Technical Director

enelac:

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All test results relate only to the samples analyzed. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. This report may not be reproduced, except in full, without the written permission of ACL (Advanced Chemistry Labs, Inc). ACL maintains the following certifications: NELAC (E87212):



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Phone: (770) 409-1444 Fax: (770) 409-1844 e-mail: acl@acl-labs.net

Explanation of Symbols and Abbreviations

Listed below are common symbols and abbreviations typically used in reporting technical data:

PQL	Practical Quantitation Limit	MDL	Method Detection Limit
BQL	Below Quantitation Limit	BDL	Below Method Detection Limit
MPN	Most Probable Number	TNTC	Too Numerous To Count
NTU	Nephelometric Turbidity Units	BTU	British Thermal Units
°C	Degrees Centigrade	°F	Degrees Fahrenheit
µmhos/cm	micromhos/cm	cfu	Colony Forming Unit
DF	Dilution Factor	meq	milliequivalents
kg	kilogram(s)	g	gram(s)
mg	milligram(s)	μ g	microgram(s) =
l or L	liter(s)	ml or mL	milliliter(s)
μ l or μ L	microliter(s)	m ³	cubic meter(s)
lb	pound(s)	ft ³	cubic foot(feet)
ft	foot(feet)	su	Standard Units
<	Less than	> '	Greater than

mg/L, mg/kg Units of concentration in milligrams per liter for liquids and milligrams per kilogram for solids.

Also referred to as parts per million or "ppm" when the assumption is made that the specific

gravity or density is one (1 g/mL).

 μ g/L, μ g/kg Units of concentration in micrograms per liter for liquids and micrograms per kilogram for solids.

Also referred to as parts per billion or "ppb" when the assumption is made that the specific

gravity or density is one (1 g/mL).

wt % Units of concentration expressed on a weight/weight basis (e.g. grams per 100 grams).

Surrogate Compound(s) added by the laboratory for quality control monitoring.

mg/kg,dw Units of concentration in milligrams per kilogram (dry weight basis).

Data Qualifiers:

B Analyte was also detected in the method blank

E Estimated value - analyte was detected at concentration greater than upper calibration limit

F Estimated value - analyte should have been tested as a field parameter

H Estimated value - sample was analyzed beyond the accepted holding time

J Estimated value - analyte was detected < PQL and ≥ MDL

The batch-specific LCS and/or LCSD was not within lab control limits for this analyte

M The batch-specific MS and/or MSD was not within lab control limits for this analyte

R The RPD between batch-specific sample/dup or MS/MSD was not within lab control limits for this analyte

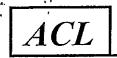
S The surrogate recovery was not within quality control limits

Z Laboratory specific qualifier – refer to case narrative

* Performed in strict accordance with the procedures and controls of the ACL quality system, but not currently in the NELAC list of certified analytes/methods

Solid samples (i.e. soil, sludge, solid waste) are reported on a wet weight basis unless otherwise noted. Estimated uncertainty values are available upon request.

Representation and Limitation of Liability – The accuracy of all analytical results for samples begins as it is received by the laboratory. The integrity of the sample begins at the time it is placed in the possession of authorized ACL personnel. All other warranties, expressed or implied, are disclaimed. Liability is limited to the cost of the analysis.



Contact:

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Atlanta Environmental Consultants Client:

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

Mr. Peter Kallay

Client Proj #:

REB-2409 / Roswell Cleaners

ACL Project #: 63423

04/19/2012 Date Received: Date Reported:

04/27/2012

Volatile Organics (8260B)

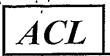
Water Matrix: MW-1 Sample ID:

04/18/2012 15:10 **Date Sampled:**

293207 ACL Sample #: **Date Prepared:** Date Analyzed: 04/23/2012

Analyst: JG Units: μ g/L

Analyte	<u>Result</u>	<u>PQL</u>	<u>Analyte</u>	Result	PQL
Acetone	BQL	100	1,3-Dichloropropane	BQL	5.0
Acrolein	BQL	[.] 50	2,2-Dichloropropane	BQL	5.0
Acrylonitrile	BQL	50	1,1-Dichloropropene	BQL	5.0
Benzene	BQL	5.0	cis-1,3-Dichloropropene	BQL	5.0
Bromobenzene	BQL	5.0	trans-1,3-Dichloropropene	BQL	5.0
Bromochloromethane	BQL	5.0	Ethylbenzene	BQL	5.0
Bromodichloromethane	BQL	5.0	Hexachlorobutadiene	BQL	5.0
Bromoform	BQL	5.0	2-Hexanone	BQL	50
Bromomethane .	BQL	10	Isopropylbenzene	BQL	5.0
2-Butanone	BQL	100	p-Isopropyltoluene	BQL	5.0
n-Butylbenzene	BQL	5.0	4-Methyl-2-pentanone	BQL	50
sec-Butylbenzene	BQL	5.0	Methylene chloride	BQL	5.0
tert-Butylbenzene	BQL	5.0	Naphthalene .	BQL	5.0
Carbon disulfide	BQL	5.0	n-Propylbenzene	BQL	5.0
Carbon tetrachloride	BQĹ	5.0	Styrene	BQL	5.0
Chlorobenzene	BQL	5.0	1,1,1,2-Tetrachloroethane	BQL	5.0
Chloroethane	BQL	10	1,1,2,2-Tetrachloroethane	BQL	5.0
2-Chloroethylvinyl ether	BQL	10	Tetrachloroethene	BQL	5.0
Chloroform	BQL	5.0	Toluene	BQL	5.0
Chloromethane	BQL	10	1,2,3-Trichlorobenzene	BQL	5.0
2-Chlorotoluene	BQL	5.0	1,2,4-Trichlorobenzene	BQL	5.0
4-Chlorotoluene	BQL	5.0	1,1,1-Trichloroethane	BQL	5.0
1,2-Dibromo-3-chloropropane	BQL	5.0	1,1,2-Trichloroethane	BQL	5.0
Dibromochloromethane	BQL	5.0	Trichloroethene	BQL	5.0
1,2-Dibromoethane	BQL	5.0	Trichlorofluoromethane	BQL	5.0
Dibromomethane	BQL	5.0	1,2,3-Trichloropropane	BQL	5.0
1,2-Dichlorobenzene	BQL	5.0	1,2,4-Trimethylbenzene	BQL	5.0
1,3-Dichlorobenzene	BQL	5.0	1,3,5-Trimethylbenzene	BQL	5.0
1,4-Dichlorobenzene	BQL	5.0	Vinyl acetate	BQL	50
Dichlorodifluoromethane	BQL	10	Vinyl chloride	BQL	2.0
1,1-Dichloroethane	BQL	5.0	m,p-Xylene	BQL	10
1,2-Dichloroethane	BQL	5.0	o-Xylene	BQL	5.0
1,1-Dichloroethene	BQL	5.0			
cis-1,2-Dichloroethene	BQL	5.0			
trans-1,2-Dichloroethene	BQL	5.0	•		
1,2-Dichloropropane	BQL	5.0			



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Client:

Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

REB-2409 / Roswell Cleaners

ACL Project #: 63423

Date Received: 04/19/2012 Date Reported: 04/27/2012

Client Proj #:

Contact:

Mr. Peter Kallay

Volatile Organics (8260B)

Sample ID:

Units:

MW-5

Matrix:

Water

ACL Sample #: 293208

 $\mu a/L$

Date Sampled:

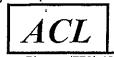
04/18/2012 15:30

Date Prepared:

Date Analyzed: 04/23/2012

Analyst:

units: µg/L			Analyst.		
Analyte	Result	<u>PQL</u>	<u>Analyte</u>	Result	PQL
Acetone	BQL	100	1,3-Dichloropropane	BQL	5.0
Acrolein	BQL	50	2,2-Dichloropropane	BQL	5.0
Acrylonitrile	BQL	50	1,1-Dichloropropene	BQL	5.0
Benzene	BQL	5.0	cis-1,3-Dichloropropene	BQL	5.0
Bromobenzene	BQL	5.0	trans-1,3-Dichloropropene	BQL	5.0
Bromochloromethane	BQL	5.0	Ethylbenzene	BQL	5.0
Bromodichloromethane	BQL	5.0	Hexachlorobutadiene	BQL	5.0
Bromoform	BQL	5.0	2-Hexanone	BQL	50
Bromomethane	BQL	10	Isopropylbenzene	BQL	5.0
2-Butanone	BQL	100	p-Isopropyltoluene	BQL	5.0
n-Butylbenzene	BQL	5.0	4-Methyl-2-pentanone	BQL	50
sec-Butylbenzene	BQL	5.0	Methylene chloride	BQL	5.0
tert-Butylbenzene	BQL	5.0	Naphthalene	BQL	5.0
Carbon disulfide	BQL	5.0	n-Propylbenzene	BQL	5.0
Carbon tetrachloride	BQL	5.0	Styrene	BQL	5.0
Chlorobenzene	BQL	5.0	1,1,1,2-Tetrachloroethane	BQL	5.0
Chloroethane	BQL	10	1,1,2,2-Tetrachloroethane	BQL	5.0
2-Chloroethylvinyl ether	BQL	10	Tetrachloroethene	BQL	5.0
Chloroform	BQL	5.0	Toluene	BQL	5.0
Chloromethane	BQL	10	1,2,3-Trichlorobenzene	BQL	5.0
2-Chlorotoluene	BQL	5.0	1,2,4-Trichlorobenzene	BQL	5.0
4-Chlorotoluene	BQL	5.0	1,1,1-Trichloroethane	BQL	5.0
1,2-Dibromo-3-chloropropane	BQL	5.0	1,1,2-Trichloroethane	BQL	5.0
Dibromochloromethane	BQL	5.0	Trichloroethene	BQL	5.0
1,2-Dibromoethane	BQL	5.0	Trichlorofluoromethane	BQL	5.0
Dibromomethane	BQL	5.0	1,2,3-Trichloropropane	BQL	5.0
1,2-Dichlorobenzene	BQL	5.0	1,2,4-Trimethylbenzene	BQL	5.0
1,3-Dichlorobenzene	BQL	5.0	1,3,5-Trimethylbenzene	BQL	5.0
1,4-Dichlorobenzene	BQL	5.0	Vinyl acetate	BQL	50
Dichlorodifluoromethane	BQL	10	Vinyl chloride	BQL	2.0
1,1-Dichloroethane	BQL	5.0	m,p-Xylene	BQL	10
1,2-Dichloroethane	BQL	5.0	o-Xylene	BQL	5.0
1,1-Dichloroethene	BQL	5.0			
cis-1,2-Dichloroethene	BQL	5.0			
trans-1,2-Dichloroethene	BQL	5.0			
1,2-Dichloropropane	BQL	5.0			
• • • •			1	D 4 10	



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Client: Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

. Mr. Peter Kallay

Client Proj #:

REB-2409 / Roswell Cleaners

ACL Project #: Date Received:

63423 04/19/2012

Date Reported:

04/27/2012

Volatile Organics (8260B)

Sample ID:

Units:

Contact:

MW-2

Matrix:

Water

ACL Sample #:

 μ g/L

293209

Date Sampled:

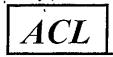
04/18/2012 16:05

Date Prepared:

Date Analyzed: 04/23/2012

Analyst:

			,			
Analyte	<u>Result</u>	<u>PQL</u>	<u>Analyte</u>	<u>Result</u>	<u>PQL</u>	
Acetone	BQL	100	1,3-Dichloropropane	BQL	5.0	
Acrolein	BQL	50	2,2-Dichloropropane	BQL	5.0	
Acrylonitrile	BQL	50	1,1-Dichloropropene	BQL	5.0	
Benzene	BQL	5.0	cis-1,3-Dichloropropene	BQL	5.0	
Bromobenzene	BQL	5.0	trans-1,3-Dichloropropene	BQL	5.0	
Bromochloromethane	BQL	5.0	Ethylbenzene	BQL	5.0	
Bromodichloromethane	BQL	5.0	Hexachlorobutadiene	BQL	5.0	
Bromoform	BQL	5.0	2-Hexanone	BQL	50	
Bromomethane	BQL	10	Isopropylbenzene	BQL	5.0	
2-Butanone	BQL	100	p-Isopropyltoluene	BQL	5.0	
n-Butylbenzene	BQL	5.0	4-Methyl-2-pentanone	BQL	50	
sec-Butylbenzene	BQL	5.0	Methylene chloride	BQL	5.0	
tert-Butylbenzene	BQL	5.0	Naphthalene	BQL	5.0	
Carbon disulfide	BQL	5.0	n-Propylbenzene	BQL	5.0	
Carbon tetrachloride	BQL	5.0	Styrene	BQL	5.0	
Chlorobenzene	BQL	5.0	1,1,1,2-Tetrachloroethane	BQL	5.0	
Chloroethane	BQL	10	1,1,2,2-Tetrachloroethane	BQL	5.0	
2-Chloroethylvinyl ether	BQL	10	Tetrachloroethene	5.5	5.0	
Chloroform	BQL	5.0	Toluene	BQL	5.0	
Chloromethane	BQL	10	1,2,3-Trichlorobenzene	BQL	5.0	
2-Chlorotoluene	BQL	5.0	1,2,4-Trichlorobenzene	BQL	5.0	
4-Chlorotoluene	BQL	5.0	1,1,1-Trichloroethane	BQL	5.0	
1,2-Dibromo-3-chloropropane	BQL	5.0	1,1,2-Trichloroethane	BQL	5.0	
Dibromochloromethane	BQL	5.0	Trichloroethene	6.6	5.0	
1,2-Dibromoethane	BQL	5.0	Trichlorofluoromethane	BQL	5.0	
Dibromomethane	BQL	5.0	1,2,3-Trichloropropane	BQL	5.0	
1,2-Dichlorobenzene	BQL	5.0	1,2,4-Trimethylbenzene	BQL	5.0	
1,3-Dichlorobenzene	BQL	5.0	1,3,5-Trimethylbenzene	BQL	5.0	
1,4-Dichlorobenzene	BQL	5.0	Vinyl acetate	BQL	50	
Dichlorodifluoromethane	BQL	10	Vinyl chloride	3.6	2.0	
1,1-Dichloroethane	BQL	5.0	m,p-Xylene	BQL	10	
1,2-Dichloroethane	BQL	5.0	o-Xylene	BQL	5.0	
1,1-Dichloroethene	BQL	5.0	•			
cis-1,2-Dichloroethene	55	5.0				
trans-1,2-Dichloroethene	BQL	5.0				
1,2-Dichloropropane	BQL	5.0				



ACL Sample #:

 $\mu g/L$

Units:

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Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

293210

Client Proj #: ACL Project #: Date Received: REB-2409 / Roswell Cleaners

63423 04/19/2012

Date Reported: 04/27/2012

Contact:

Client:

Mr. Peter Kallay

Volatile Organics (8260B)

Sample ID: MW-3 Matrix: Date Sampled: Water

04/18/2012 16:55

Date Prepared:

Date Analyzed: 04/23/2012

Analyst:

onits. μg/L			Allalyst.		
Analyte	Result	PQL	<u>Analyte</u>	Result	PQL
Acetone	BQL	100	1,3-Dichloropropane	BQL	5.0
Acrolein	BQL	50	2,2-Dichloropropane	BQL	5.0
Acrylonitrile	BQL	50	1,1-Dichloropropene	BQL	5.0
Benzene	BQL	5.0	cis-1,3-Dichloropropene	BQL	5.0
Bromobenzene	BQL	5.0	trans-1,3-Dichloropropene	BQL	5.0
Bromochloromethane	BQL	5.0	Ethylbenzene	BQL	5.0
Bromodichloromethane	BQL	5.0	Hexachlorobutadiene	BQL	5.0
Bromoform	BQL	5.0	2-Hexanone	BQL	50
Bromomethane	BQL	10	Isopropylbenzene	BQL	5.0
2-Butanone	BQL	100	p-Isopropyltoluene	BQL	5.0
n-Butylbenzene	BQL '	5.0	4-Methyl-2-pentanone	BQL	50
sec-Butylbenzene	BQL	5.0	Methylene chloride	BQL	5.0
tert-Butylbenzene	BQL	5.0	Naphthalene	BQL	5.0
Carbon disulfide	BQL	5.0	n-Propylbenzene	BQL	5.0
Carbon tetrachloride	BQL	5.0	Styrene	BQL	5.0
Chlorobenzenę	BQL	5.0	1,1,1,2-Tetrachloroethane	BQL	5.0
Chloroethane	BQL	10	1,1,2,2-Tetrachloroethane	BQL	5.0
2-Chloroethylvinyl ether	BQL	10	Tetrachloroethene	16	5.0
Chloroform .	BQL	5.0	Toluene	BQL	5.0
Chloromethane	BQL	10	1,2,3-Trichlorobenzene	BQL	5.0
2-Chlorotoluene	BQL	5.0	1,2,4-Trichlorobenzene	BQL	5.0
4-Chiorotoluene	BQL	5.0	1,1,1-Trichloroethane	BQL	5.0
1,2-Dibromo-3-chloropropane	BQL	5.0	1,1,2-Trichloroethane	BQL	5.0
Dibromochloromethane	BQL	5.0	Trichloroethene	8.4	5.0
1,2-Dibromoethane	BQL	5.0	Trichlorofluoromethane	BQL	5.0
Dibromomethane	BQL	5.0	1,2,3-Trichloropropane	BQL	5.0
1,2-Dichlorobenzene	BQL	5.0	1,2,4-Trimethylbenzene	BQL	5.0
1,3-Dichlorobenzene	BQL	5.0	1,3,5-Trimethylbenzene	BQL	5.0
1,4-Dichlorobenzene	BQL	5.0	Vinyl acetate	BQL	50
Dichlorodifluoromethane	BQL	10	Vinyl chloride	BQL	2.0
1,1-Dichloroethane	BQL	5.0	m,p-Xylene	BQL	10
1,2-Dichloroethane	BQL	5.0	o-Xylene	BQL	5.0
1,1-Dichloroethene	BQL	5.0	•	•	
cis-1,2-Dichloroethene	7.7	5.0			
trans-1,2-Dichloroethene	BQL	5.0			
1,2-Dichloropropane	BQL	5.0			



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Client:

Atlanta Environmental Consultants

3440 Blue Springs Rd.

Suite 503

Kennesaw, GA 30144-0000

Client Proj #: ACL Project #:

REB-2409 / Roswell Cleaners

63423

Date Received: 04/19/2012 **Date Reported:** 04/27/2012

Contact:

Mr. Peter Kallay

Volatile Organics (8260B)

Sample ID:

ACL Sample #:

cis-1,2-Dichloroethene

1,2-Dichloropropane

trans-1,2-Dichloroethene

56

3.1

BQL

5.0

5.0

5.0

MW-4

293211

Matrix:

Water

04401

Date Sampled:

04/18/2012 17:30

Date Prepared:

Date Analyzed: 04/2

04/23/2012

Units: μg/L			Analyst:	JG	
Analyte	Result	PQL	<u>Analyte</u>	Result	PQL
Acetone	BQL	100	1,3-Dichloropropane	BQL	5.0
Acrolein	BQL	50	2,2-Dichloropropane	BQL	5.0
Acrylonitrile	BQL	50	1,1-Dichloropropene	BQL	5.0
Benzene	BQL	5.0	cis-1,3-Dichloropropene	BQL	5.0
Bromobenzene	BQL	5.0 .	trans-1,3-Dichloropropene	BQL	5.0
Bromochloromethane	BQL	5.0	Ethylbenzene	BQL	5.0
Bromodichloromethane	BQL	5.0	Hexachlorobutadiene	BQL	5.0
Bromoform .	BQL	5.0	2-Hexanone	BQL	50
Bromomethane	BQL	10	Isopropylbenzene	BQL	5.0
2-Butanone	BQL	100	p-Isopropyltoluene	BQL	5.0
n-Butylbenzene	BQL	5.0	4-Methyl-2-pentanone	BQL	50
sec-Butylbenzene	BQL	5.0	Methylene chloride	BQL	5.0
tert-Butylbenzene	BQL	5.0	Naphthalene	BQL	5.0
Carbon disulfide	BQL	5.0	n-Propylbenzene	BQL	5.0
Carbon tetrachloride	BQL	5.0	Styrene	BQL	5.0
Chlorobenzene	BQL	5.0	1,1,1,2-Tetrachloroethane	BQL	5.0
Chloroethane	BQL	· 10	1,1,2,2-Tetrachloroethane	BQL	5.0
2-Chloroethylvinyl ether	BQL	10	Tetrachloroethene	66	5.0
Chloroform	BQL	5.0	Toluene	BQL	5.0
Chloromethane	BQL	10	1,2,3-Trichlorobenzene	BQL	5.0
2-Chlorotoluene	BQL	5.0	1,2,4-Trichlorobenzene	BQL	5.0
4-Chlorotoluene	BQL	5.0	1,1,1-Trichloroethane	BQL	5.0
1,2-Dibromo-3-chloropropane	BQL	5.0	1,1,2-Trichloroethane	BQL	5.0
Dibromochloromethane	BQL	5.0	Trichloroethene	37	5.0
1,2-Dibromoethane	BQL	5.0	Trichlorofluoromethane	BQL	5.0
Dibromomethane	BQL	5.0	1,2,3-Trichloropropane	BQL	5.0
1,2-Dichlorobenzene	BQL	5.0	1,2,4-Trimethylbenzene	BQL	5.0
1,3-Dichlorobenzene	BQL	. 5.0	1,3,5-Trimethylbenzene	BQL	5.0
1,4-Dichlorobenzene	BQL	5.0	Vinyl acetate	BQL	50
Dichlorodifluoromethane	BQL	10	Vinyl chloride	BQL	2.0
1,1-Dichloroethane	BQL	5.0	m,p-Xylene	BQL	10
1,2-Dichloroethane	BQL	5.0	o-Xylene	BQL	5.0
1,1-Dichloroethene	BQL	5.0			



Phone: (770) 409-1444 Fax: (770) 409-1844 e-mail: acl@acl-labs.net 3039 Amwiler Road • Suite 100 • Atlanta, GA 30360 P.O. Box 88610 • Atlanta, GA 30356 www.advancedchemistrylabs.com

Sample Log-in Checklist

Cooler Check Yes No Ice Present? ✓ □	Yes No Evidence Tape Present?
Temperature 3 °C	Evidence Tape Intact?
For coolers with a temperature greater than 6°0	C or with a damaged evidence seal, the bottles affected are identified below
	Yes No ☑ □
Field Sampling Sheet Included?	
Cooler Shipping and Receipt	
Shipping Method: Delivered by Customer	Tracking Number:
Receipt Date: 4/19/2012	Receipt Time: 2:19 PM
Bottle Check	
Acid Preserved Sample (pH Check): p (pH for VO vials to be checked upon analysi	
Base Preserved Samples (pH Check): pH	H>12? N/A
Chlorine Check (Positive, Negative,	N/A): N/A
Condition of Containers:	•
Eddama Tours	es No □ ☑
Evidence Tape Intact? [
Evidence Tape Intact? [Loose Caps? [

ACL

ADVANCED CHEMISTRY LABS, INC.

3039 Amwiler Road · Suite 100 · Atlanta, GA 30360 ■ (770) 409-1444 · Fax (770) 409-1844

A T CAN TR	Company Name: 6700 ASWINENTAL Phone #: 678-	Phone #: 678-7-38-7604		
" Cod		Fax# 678-569-2418	CHAIN-OI	CHAIN-OF-CUSTODY RECORD
Address:	3 G40 BLUE SPRINGS RD.	Site Location: ROSWELL CLEMMENS	AN	ANALYSIS REQUEST
KENNESAM		No surell, am.		
Project Manager:	roject Manager:	Project #: 1/6 1/2 1/45 9		
7		Project Name: R & NOB 6 15 1555.	D97	
l attest that the prope were used during the	I attest that the proper field sampling procedures were used during the collection of these samples.	Sampler Name (Print): PEVEX 7. Knusy	2.8	
Field	Matrix	Method Sampling Preserved Sampling	370	,
Sample ID	# of Conta Water Soil Air Air	anoM g g	Comp	
MW-(7 /	1,1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Kemarks
MW-5	7	1	7	-
m6-2	7 7	V 4-18-12 45.05	7	,
1204-3		478-124-53	7	
mand	7	1 6-18-19 5:30	7	
AND J. KK	, k			
Special Detection Limits		Remarks:		Snavial Handling
GEORGIA	M EVI			A ACI
Special Reporting Requirements	quirements	. Lab Use Only:	Cooler Temp.	3rd Bus. Day
Fax		ACL Project #: 63423	ω	2A/QC Level
X CTO	Relinquished by Sampler.	Mes 04/19/	2012 2 19 Received by:	i i
RECORD	Relinquished by:	Date:	Time: Received by:	
	Relinquished by:	16/46	7 Times 19 Received by Labora	in Indian
				Largary Con