

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**ROMA PROPERTY  
U.S. HIGHWAY 220 AT THE VIRGINIA STATE LINE  
HENRY COUNTY, VIRGINIA**

**PREPARED FOR:**

**HENRY COUNTY ENGINEERING AND MAPPING  
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Fieldwork Completed: July 26, 2007  
Report Publication Date: August 17, 2007

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Roma Property  
U.S. Highway 220 at the Virginia State Line  
Henry County, Virginia

**Prepared For:**

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- APPENDIX 3:** Laboratory Report

## 1.0 EXECUTIVE SUMMARY

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Timmons Group has completed a Phase II Environmental Site Assessment (ESA) of the Roma property (hereafter the "subject property" or "subject site") located north and west of U.S. Route 220 at the Virginia/North Carolina border in Henry County, Virginia. The subject property is bordered to the north by a single family residence, undeveloped woodlands and Marrowbone Reservoir; to the east and south by railroad tracks for Norfolk Southern Railroad, a chemical manufacturing facility owned and operated by Chesapeake Custom Chemical Corporation (Custom Chemical), a cemetery, single family residences and US Route 220; and to the west by undeveloped woodlands. The subject property is being evaluated for development as an industrial park. The completion of a Phase II ESA was recommended by Timmons Group following the completion of a Phase I ESA which identified Recognized Environmental Conditions (RECs) for the subject property. The RECs were identified based on the current and former usage of the subject site and the nature of the surrounding properties.

The site is currently undeveloped and unimproved and was formerly used as the location of a sporting clay shooting club. A cemetery which predates the 1900's is located near the southern border of the subject property near the Norfolk Southern railroad tracks.

### **Methods**

The Phase II ESA consisted of collecting subsurface soil samples for laboratory analysis from thirteen (13) onsite locations using a Geoprobe<sup>®</sup> direct-push hydraulic sampler. In addition, two (2) exploratory boreholes were advanced into the subsurface of the property using an air-rotary drill-rig to determine the depth to groundwater beneath the site. Upon completion, one of the boreholes was converted to a groundwater monitoring well from which one (1) groundwater sample was collected for laboratory analysis. In conjunction with groundwater sampling, a water interface probe was used to determine the depth to the static water table in the groundwater monitoring well.

### **Soil and Groundwater Results**

All soil and groundwater sampling was conducted in accordance with American Society of Testing and Materials (ASTM) Standards. Soil and groundwater analysis was completed by Primary Laboratories in Mechanicsville, Virginia. Collected soil samples were analyzed for various adsorbed phase parameters including Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO), semi-volatile organics and RCRA 8 Metals using appropriate EPA Methods. The collected groundwater sample was analyzed for dissolved phase concentrations of TPH-DRO.

### **Conclusions/Recommendations**

Based on the results of the Phase II ESA and in accordance with Virginia Department of Environmental Quality (VDEQ) regulations and US Environmental Protection Agency guidelines, Timmons Group recommends no further action for the subject property.

## 2.0 INTRODUCTION

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### 2.1 Purpose and Scope of Services

Timmons Group recently completed a Phase I Environmental Site Assessment (ESA) for the Roma property which is located north and west of U.S. Route 220 at the Virginia/North Carolina border in Henry County, Virginia (Appendix 1). The Phase I ESA was completed to satisfy the due diligence requirements in conjunction with the proposed purchase of the subject property. The results of the Phase I ESA identified three (3) environmental concerns associated with the subject property as detailed below:

- Chesapeake Custom Chemical Corporation (Custom Chemical) is a chemical manufacturing facility that borders the subject property to the south. Based on information acquired from the US Environmental Protection Agency (EPA) website, Custom Chemical is currently monitored by the EPA for toxic stack emissions. Details on stack emissions indicate a class code that corresponds to potential uncontrolled emissions <100 tons/year. The plant is recorded with the EPA as manufacturing plastics materials, synthetic resins and biodiesel. In addition, the site reconnaissance revealed the presence of multiple aboveground storage tanks (ASTs) at the facility. Based on the EPA data and the presence of multiple ASTs, the Custom Chemical facility presents an environmental condition to the subject property.
- Norfolk Southern Railroad tracks extend along the southern boundary of the subject property. Railroad tracks are historically suspect sites of environmental impact based on the use of creosote treated railroad ties and leaking diesel fuel from locomotives in addition to increased metals concentrations in the surrounding soils. Based on the potential for soil and groundwater contamination, the railroad tracks represent an environmental condition for the subject property.
- A cemetery is located near the southern boundary of the subject property; in addition, a separate cemetery is located south adjacent to the subject property. Cemeteries in use prior to 1910 have been documented as potential sources of arsenic and lead contamination based on former embalming and burial techniques. Based on separate reconnaissance by the User and Timmons Group, the cemeteries located onsite and adjacent to the subject property were identified as having gravesites that predate 1910. Based on the potential for soil contamination, the cemeteries present an environmental concern for the subject property.

Based on the above information, Timmons Group recommended conducting a Phase II ESA for the subject property to investigate whether the identified environmental conditions have impacted soil and/or groundwater beneath the subject property.

In completing the Phase II ESA, soil samples were collected from thirteen (13) locations using a Geoprobe® direct-push hydraulic sampler. In addition, one (1) groundwater sample was collected from one (1) monitoring well that was installed on the subject site using an air rotary drill rig. The collected soil samples were analyzed for various adsorbed phase parameters including Lead, Arsenic, Total Petroleum Hydrocarbons –

Diesel Range Organics (TPH-DRO), and RCRA 8 Metals using appropriate EPA Methods. The collected groundwater sample was analyzed for dissolved phase concentrations of TPH-DRO.

## **2.2 Limitations**

This report was prepared solely for the use of Henry County, their lenders, assigns and/or successors in accordance with the agreed upon scope of services. The conclusions provided in this report are based only on the information contained in this document. Additional information with respect to this site or nearby sites, which was not available at the time this assessment was prepared, could modify the conclusions stated herein. This report has been prepared in accordance with industry standards; no other warranty, expressed or implied, is made as to the professional advice provided under the terms of the agreement between Henry County and Timmons Group.

The purpose of this Phase II was to evaluate the presence or absence of soil and/or groundwater contamination beneath the site through the collection of soil and groundwater samples and did not include determining the vertical and or lateral extent of contamination, if present.

This Phase II ESA was completed in accordance with all applicable ASTM and regulatory procedures for the collection of soil and groundwater samples. However, it should be noted that the collected soil and/or groundwater samples analyzed for this investigation represent isolated data points within the boundaries of the subject property and should not be considered to represent homogeneous subsurface conditions across the entire property.

The selection of sampling locations was based on a random determination of high probability areas of potential environmental impact as reflected by the locations of suspect source areas and the physical setting of the subject site.

### 3.0 SITE DESCRIPTION

The subject property is located north and west of U.S. Route 220 at the Virginia/North Carolina border in Henry County, Virginia and consists of approximately 612 acres (Appendix 1). Table 1 summarizes the ownership details of the subject parcels.

Deed Book/Page Number	Owner Name	Acres	Current Site Usage
705/642	Roma Realty LLC	612.00	Undeveloped

The site is currently undeveloped and unimproved and was formerly used as the location of a sporting clay shooting club. A cemetery which predates the 1900's is located near the southern border of the subject property near the railroad tracks.

#### 3.1 Adjoining Property Usage

The subject site is located in a rural residential area of Henry County, Virginia and is bordered as detailed below:

Adjoining Property Usage	
<i>North:</i>	A single family residence, undeveloped woodlands and Marrowbone reservoir.
<i>East:</i>	Norfolk Southern Railroad tracks, Chesapeake Custom Chemical Corporation chemical manufacturing facility, a cemetery, single family residences and US Route 220.
<i>South:</i>	Norfolk Southern Railroad tracks, Chesapeake Custom Chemical Corporation chemical manufacturing facility, a cemetery, single family residences and US Route 220.
<i>West:</i>	Undeveloped woodlands.

#### 3.2 Utilities

According to observations, public utilities include overhead electric and telephone services. Based on the rural nature of the site and vicinity, private residences in the site vicinity are suspected of utilizing private water wells and/or septic systems. Stormwater management is accomplished by drainage ditches.

### **3.3 Physical Setting**

#### 3.3.1 Topography

The topography of the inner Piedmont consists of subdued ridges and wide valleys filled with alluvium. As reflected by the USGS Price Quadrangle 7.5 minute topographic map referenced above, topography across the subject site decreases in vertical elevation by as much as 180 feet across the subject property.

#### 3.3.2 Regional Geology

The subject property is located within the inner Piedmont physiographic province of southwestern Virginia and northwestern North Carolina and is underlain by crystalline bedrock formations attributed to the Smith River allochthon and the Sauratown Mountain Anticlinorium. The Smith River allochthon is a complexly folded, shallow synformal structure that is bounded on the northwest by the southeastward-dipping Bowens Creek fault and on the southeast by the northwest-dipping Ridgeway fault. The Sauratown Mountain Anticlinorium is an area of complex geologic deformation of metasedimentary bedrock which surrounds a core of granitic augen gneiss.

#### 3.3.3 Hydrogeology

Regolith is the principle aquifer material in the inner Piedmont province. Regolith is able to store vast amounts of groundwater that can be withdrawn directly as well water and it serves as the principle source of recharge for the underlying, fractured crystalline bedrock formations (Russell, 1994). Piedmont regolith is largely composed of saprolite which is the product of in-situ chemical weathering of crystalline bedrock and reflects the fabric, texture and structure characteristics of the parent formation. The coarseness of a saprolite formation, as determined from the parent bedrock, determines the storativity and potential specific yield of a saprolite aquifer. The degree of bedrock fracturing is also dependent on the texture and permeability of the parent rock; fractures may therefore be closely and evenly spaced, unevenly and sparsely distributed and or unevenly spaced and elongated. Surface expressions of fracture zones are usually represented by draws or upland topographic sags (some of which may contain related seeps or springs and may therefore represent areas of groundwater abundance (LeGrand, 1988, Russell, 1994).

#### 3.3.4 Hydrology

According to the 1964 Price USGS 7.5 Minute Quadrangle Topographic Map (photorevised 1982), perennial and intermittent drainage patterns transect the subject property flowing primarily from southwest to northeast toward Marrowbone Reservoir.

Based on the surficial drainage patterns of the site and surrounding area, groundwater flow would be expected to be controlled by topographic gradients flowing primarily to the northeast toward Marrowbone Reservoir.



### 3.3.5 Site Geology

According to the Geology of the Snow Creek, Martinsville East, Price and Spray Quadrangles, Virginia (Conley and Henika, 1973) the geologic formations in the vicinity of the site are as follows:

<b>Geologic Formation</b>	<b>Description</b>
Alluvium	Gray and brown silts and sands containing cobbles at the base
Gneiss	Muscovite and Muscovite-Biotite Gneiss with interlayered mica schist, graphite mica schist, and feldspathic quartzite; contains some garnet hornblende schist.
Mica Schist	Garnet-mica schist, contains some kyanite and staurolite; has interlayered micaceous quartzite, garnet-mica gneiss, calc-gneiss and graphitic schist layers.
Rich Acres formation	Predominantly fine- to medium-grained gabbro and hornblende metagabbro and contains some quartz diorite, diorite and norite.
Leatherwood Granite	Coarse-grained to porphyritic, pegmatitic leucocratic granite, microcline phenocrysts have some rapakivi texture.
Fork Mountain Mica Schist	Silvery-gray, medium grained, garnetiferous chloritoid-mica schist containing relict sillimanite and sericite pseudomorphs after sillimanite. May contain quartzite interlayers.
Fork Mountain Biotite Gneiss	Coarse to medium-grained, light gray, garnetiferous biotite gneiss, contains some quartzite layers and alumino-silicate rich zones

## 4.0 SITE ASSESSMENT

Timmons Group was onsite July 26, 2007 to advance Geoprobe® borings along the Norfolk Southern railroad tracks and in the vicinity of the onsite and adjacent cemeteries to facilitate soil sample collection. In addition, exploratory soil borings were advanced into the subsurface using an air-rotary drill rig to determine the depth to groundwater beneath the subject property and facilitate the collection of groundwater samples through the installation of temporary groundwater monitoring wells. All sampling activity was conducted in accordance with ASTM Standards. Geoprobe® operations were completed by ICOR Ltd of Woodbridge, Virginia. Drilling was accomplished by Richard Simmons Drilling of Buchanan, Virginia

### 4.1 Soil Sampling

#### 4.1.1 Geoprobe® Direct Push Hydraulic Sampler

A total of thirteen (13) Geoprobe® borings were advanced into the subsurface to facilitate soil sample collection. Nine (9) of the Geoprobe® borings were advanced at locations adjacent to the Norfolk Southern Railroad tracks and four (4) Geoprobe® borings were located adjacent to the cemeteries. Soil sampling was accomplished using a two (2) inch diameter by four (4) foot long continuous Macro-Core® sampling device. The Geoprobe® soil sampling protocol is as follows:

*Prior to advancement into the subsurface, the Macro-Core® sampler was washed in an Alconox® solution and rinsed with clean water after which a new acetate liner was inserted into the sampler. The sampler was then positioned beneath the drive head and advanced into the subsurface to the desired depth. Upon attaining the desired depth, the Macro-Core® sampler was withdrawn from the subsurface for sample retrieval. Upon recovery from the subsurface, the cutting shoe was unthreaded from the Macro-Core® sampler and the filled acetate liner was separated from the cutting shoe. The Acetate liner was then opened to enable access to the collected soil sample.*

Upon accessing the collected sample, Timmons Group personnel inspected the soils noting the physical properties of the collected material and identifying the presence of any environmental contamination. Soil samples retained for laboratory analysis were packed into four (4) ounce laboratory cleansed sample jars and sealed with a Teflon lined lid such that minimal headspace was present in the jar upon sealing.

Based on the results of the Phase I ESA and the suspected contaminants associated with the RECs, the collected soil samples were analyzed for the following parameters:

REC (Location)	Potential Contaminates	Analytical Parameters
Cemeteries	Lead and arsenic	Lead and arsenic
Norfolk Southern Railroad tracks	Creosote, diesel fuel, metals	SW-846 8270, TPH-DRO, RCRA 8 metals

Areas located topographically downgradient of the Custom Chemical facility were not able to be accessed by the Geoprobe® as a result of thick undergrowth.

#### 4.1.2 Drilling Rig

The drilling rig used to accomplish the Phase II ESA workscope utilized air-rotary drilling methods; therefore, representative soil samples could not be collected from the boreholes for analysis.

### **4.2 Temporary Groundwater Monitoring Well Installation and Gauging**

An air-rotary drilling rig was used to advance two (2) borings into the subsurface (MW-1 and MW-2) to determine the depth to groundwater beneath the subject property. Soil Boring MW-1 was advanced northwest of the Custom Chemical facility near the head region of an intermittent stream channel (Appendix 1). Soil Boring MW-2 was advanced near the head region of an intermittent stream channel in the southwestern area of the subject property (Appendix 1). Each boring was logged during drilling to identify the presence of water bearing zones and the depth to the bedrock interface. Both soil borings were advanced to a depth of 50 feet below surface grade (bsg). Upon completion, MW-1 was determined to be dry while MW-2 was noted to have encountered significant water bearing zones at approximate depths of 35 feet and 43 feet bsg. The drilling logs are presented as Appendix 2. Based on the drilling results, MW-2 was converted into a temporary groundwater monitoring well to facilitate groundwater sampling.

Monitoring well MW-2 was constructed with twenty (20) feet of two (2) inch diameter flush joint threaded 0.010 slot schedule 40 polyvinyl chloride (PVC) screen and approximately thirty (30) feet of two (2) inch diameter schedule 40 PVC riser pipe. The annulus of the borehole was backfilled with washed well gravel to 28 feet bsg. A two (2) foot thick bentonite seal was placed above the gravel pack and the remaining 26 feet of annular space was grouted to grade. The well head was finished as an approximate two (2) foot stick-up and was sealed with a locking gripper cap.

At the conclusion of monitoring well installation, MW-2 was gauged with a groundwater interface probe to determine the depth to static groundwater. The gauging data reflected a depth to static groundwater of approximately 25 feet bsg.

The drilling and gauging data for MW-1 and MW-2 indicates that groundwater beneath the subject property occurs in water-filled bedrock fractures that exhibit confined aquifer conditions.

### **4.3 Groundwater Sampling**

Groundwater sampling was conducted according to the following ASTM protocol:

*Following installation and prior to sampling, the groundwater monitoring wells was developed by purging a minimum of three times the volume of the groundwater column from the monitoring well. Monitoring well development was accomplished using a dedicated polyethylene bailer. Once monitoring well*

*development/ purging was complete, the monitoring well was allowed to recover at least 90% before groundwater sampling occurred.*

Based on the results of the Phase I ESA and the suspected contaminants associated with the RECs, the collected groundwater sample from MW-2 was analyzed for the following parameters:

Monitoring Well ID	Related REC	Analytical Parameters
MW-1	Chesapeake Custom Chemical Plant	Not Sampled - groundwater not detected
MW-2	Norfolk Southern Railroad Tracks	Organic and inorganic volatile compounds, Total Petroleum Hydrocarbon (TPH) – Diesel Range Organics (DRO)

The collected groundwater sample was contained in a one (1) liter amber glass bottle that was preserved with hydrochloric acid. The sample bottle was filled in accordance with the parameter requirements. Following collection, the groundwater sample was packed in an ice-filled cooler for additional preservation and shipment to the laboratory.

#### 4.4 Analytical Results

##### 4.1.1 Adsorbed Phase Analytical Results

Table 1 presents the adsorbed phase analytical results for the soil samples collected from locations beside the railroad tracks. The complete laboratory report is included as Appendix 3.

TABLE 1 – Railroad Tracks Adsorbed Phase Analytical Results			
Railroad Sample Number	TPHDRO (mg/Kg)	RCRA Metals (mg/Kg)	Semi-Volatiles (mg/Kg)
RR-1	BDL	37.5 (Barium), 29.1 (Chromium), 16.3 (Lead), 0.12 (Mercury)	BDL
RR-2	BDL	81.1 (Barium), 30.6 (Lead)	BDL
RR-3	BDL	114.0 (Barium), 25.7 (Chromium)	BDL
RR-4	BDL	84.2 (Barium), 18.1 (Chromium), 6.4 (Lead)	BDL

(continued)

<b>TABLE 1 – Railroad Tracks Adsorbed Phase Analytical Results</b>			
<b>Railroad Sample Number</b>	<b>TPH-DRO (mg/Kg)</b>	<b>RCRA Metals (mg/Kg)</b>	<b>Semi-Volatiles (mg/Kg)</b>
RR-5	BDL	103.0 (Barium), 37.0 (Chromium), 15.2 (Lead)	BDL
RR-6	BDL	85.9 (Barium), 10.0 (Chromium), 14.0 (Lead)	BDL
RR-7	BDL	117.0 (Barium), 18.9 (Chromium), 10.5 (Lead), 0.09 (Mercury)	BDL
RR-8	BDL	96.3 (Barium), 23.0 (Chromium), 15.2 (Lead)	BDL
RR-9	BDL	55.6 (Barium), 18.5 (Chromium), 16.3 (Lead), 0.06 (Mercury)	BDL

**NOTES:** TPH-DRO analyzed using EPA Method 3550/8015(M) – reporting limit = 10 mg/Kg  
 RCRA Metals analyzed using SW 846 Method 3030E/3120B except for Mercury which was analyzed by Method 3112B – reporting limits indicated by the laboratory report  
 Semi-Volatiles analyzed using SW 846 Method 8270C – reporting limits = 0.33 mg/Kg  
 BDL = Below Detection Limits

Table 2 presents the adsorbed phase analytical results for the sample collected from the vicinity surrounding the cemeteries. The complete laboratory report is included in Appendix 3.

<b>TABLE 2 –Cemetery Adsorbed Phase Analytical Results</b>			
<b>Cemetery Sample Number</b>	<b>Sample Depth (ft.)</b>	<b>Lead (mg/Kg)</b>	<b>Arsenic (mg/Kg)</b>
CU-1	8.0	25.3	BDL
CU-2	8.0	8.7	BDL
CU-3	12.0	15.5	BDL
CU-4A	8.0	6.6	BDL
CU-4B	12.0	BDL	BDL

**NOTES:** Lead and Arsenic analyzed using SW 846 Method 3030E/3120B – reporting limits = 5.0 mg/Kg  
 BDL = Below Detection Limits

#### 4.1.2 Vapor Phase Analytical Results

Based on the low volatility of the suspected contaminants, soil samples were not retained for vapor phase screening.

#### 4.1.3 Dissolved Phase Analytical Results

The groundwater sample collected from groundwater monitoring well MW-2 did not contain a measurable concentration of TPH-DRO above the detection limit of 1.0 mg/L. The laboratory report is included in Appendix 3.

## 5.0 CONCLUSIONS

Timmons Group has completed a Phase II ESA of the Roma property located north and west of U.S. Route 220 at the Virginia/North Carolina border in Henry County, Virginia.

### Adsorbed Phase Analytical Data

The maximum adsorbed phase metals concentrations detected in the soils onsite are below the risk based concentrations (RBC) established by the US Environmental Protection Agency (USEPA) for residential soil concentrations in USEPA Region III (Table 3). In addition, the measured mercury concentrations are within the range of acceptable background concentrations as defined by the Department of Health and Human Services, Agency for Toxic Substances and Disease Registry.

<b>Metal</b>	<b>Maximum Adsorbed Phase Metals Concentrations Detected Onsite</b>	<b>USEPA Region III Risk Based Concentration Levels</b>
Barium	117.0 mg/Kg	16,000 mg/Kg
Chromium VI	37.0 mg/Kg	230 mg/Kg
Lead	30.6 mg/Kg	400 mg/Kg
Mercury	0.12 mg/Kg	0.02 – 625 mg/Kg*

\* Range of normal background levels as defined by the Department of Health and Human Services, Agency for Toxic Substances and Disease Registry

Based on the above, the measured concentrations do not present a risk to the subject property.

### Groundwater

The drilling and gauging data for MW-1 and MW-2 indicates that groundwater beneath the subject property occurs in water-filled bedrock fractures that exhibit confined aquifer conditions. Despite being located near suspect topographic expressions of bedrock fracturing, the absence of groundwater in MW-1 indicates that not all bedrock fractures are groundwater filled. The occurrence of groundwater beneath the site is therefore discontinuous which minimizes the potential risks for groundwater contamination from potential nearby sources.

Based on the results and conclusion of this Phase II ESA, no further investigation is warranted.

## 6.0 REFERENCES

Conley, J.F. and Henika, W.S., 1973. Geology of the Snow Creek, Martinsville East, Price, and Spray Quadrangles, Virginia, Virginia Division of Mineral Resources Report of Investigations 33.

US Department of Health and Human Services <http://www.atsdr.cdc.gov/>

Legrand, H.E., 1988. Region 21, Piedmont and Blue Ridge, *in* Back, W., Rosenshein, J.S., and Seaber, P.R., eds., Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America, v. O-2.

Russell, J.T., 1994. The Influence of Saprolite Composition, Texture, and Structure on Groundwater Flow in the Piedmont Province, Henry County, Virginia, unpublished Masters Thesis, Old Dominion University.

USEPA, 2006. Region III RBC Table, at [www.epa.gov/reg3hwmd/risk/human/index.htm](http://www.epa.gov/reg3hwmd/risk/human/index.htm).



## 7.0 APPENDICES

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**Appendix 1 Site Maps**

**Appendix 2 Drilling Logs**

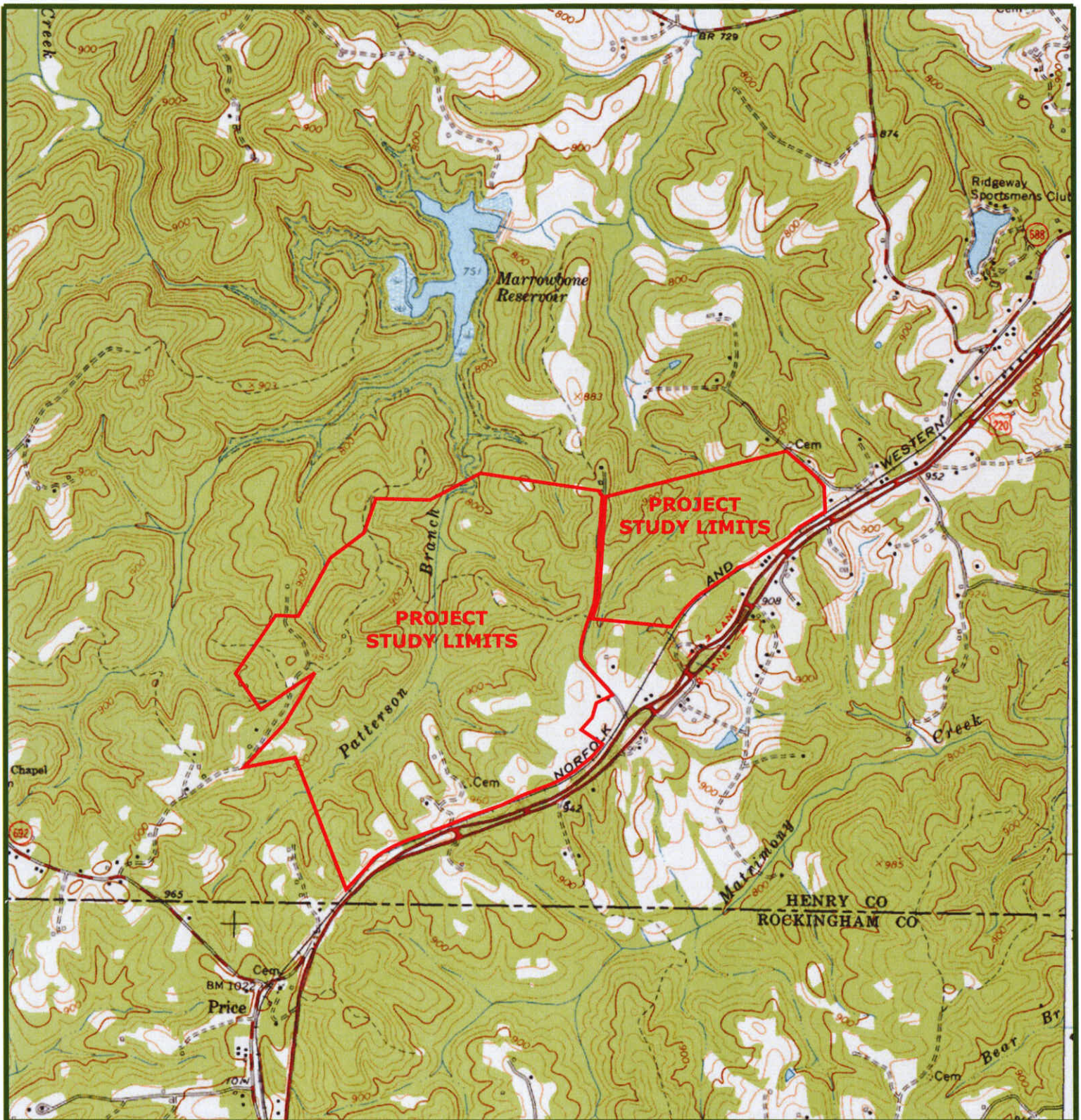
**Appendix 3 Laboratory Report**

# ***APPENDIX 1***

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## **Site Maps**



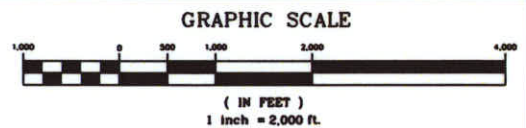


**VICINITY MAP OF  
ROMA PROPERTY**  
HENRY COUNTY, VIRGINIA

JOB NUMBER: 24340  
 DATE: 8/16/07  
 SITE AREA: APPROX. 612 ACRES  
 LATITUDE: 36°33'16" N  
 LONGITUDE: 79°54'06" W

**TIMMONS GROUP**

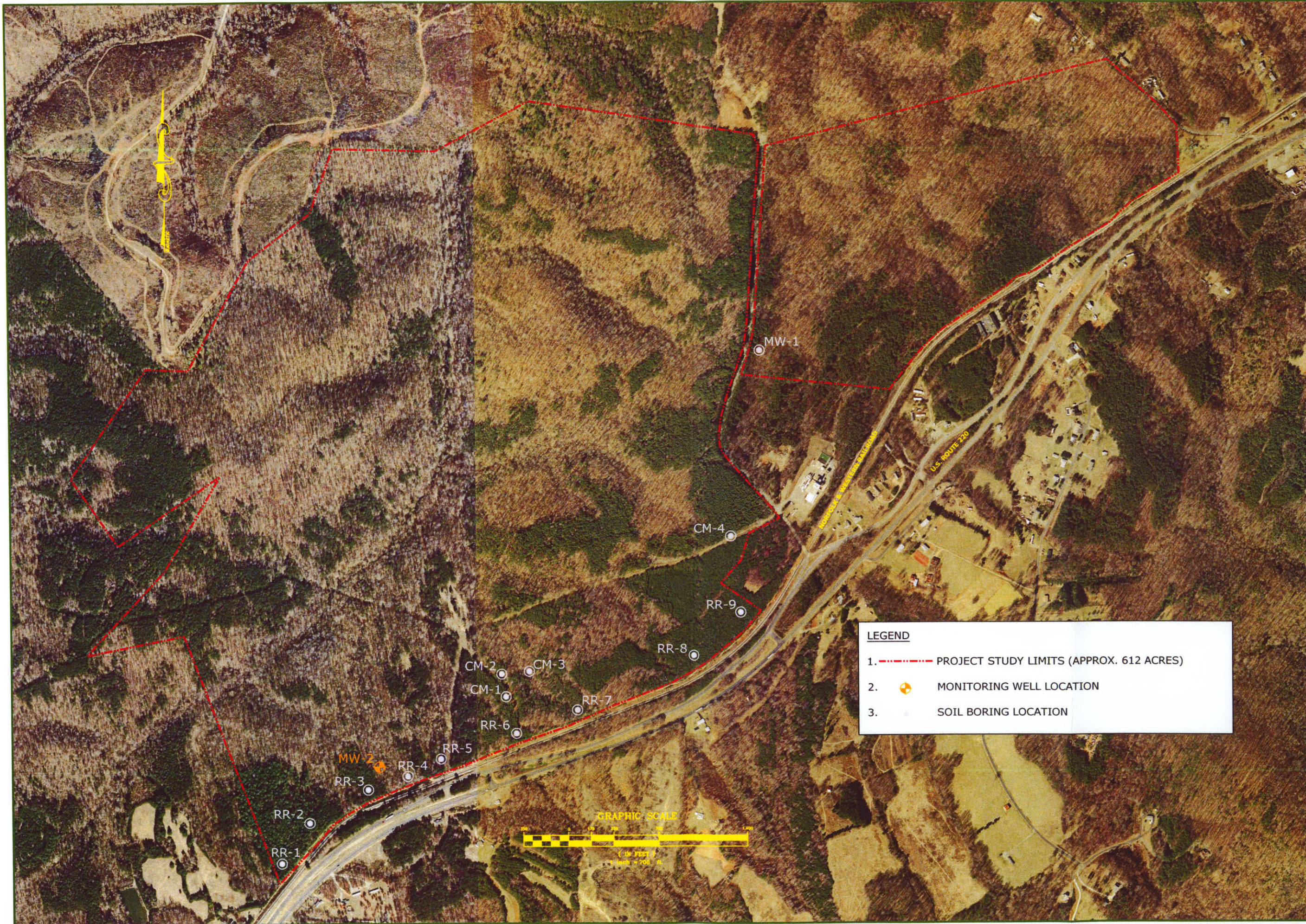
YOUR VISION ACHIEVED THROUGH OURS.



U.S.G.S. QUADRANGLE(S): PRICE

UPPER DAN WATERSHED (HUC 03010103)





**LEGEND**

- 1.        PROJECT STUDY LIMITS (APPROX. 612 ACRES)
- 2. ● MONITORING WELL LOCATION
- 3. ● SOIL BORING LOCATION

**TIMMONS GROUP**

ROMA PROPERTY  
HENRY COUNTY, VIRGINIA

SOIL BORING LOCATION MAP

THIS DRAWING PREPARED AT THE  
CORPORATE OFFICE  
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YOUR VISION ACHIEVED THROUGH OURS:		Site Development	Residential	Infrastructure	Technology
DATE	8/16/07				
DRAWN BY	D.A.				
DESIGNED BY					
CHECKED BY					
SCALE	1" = 700'				
REVISION DESCRIPTION					

JOB NO.  
**24340**

SHEET NO.

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# ***APPENDIX 2***

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## **Drilling Logs**

**Richard Simmons Drilling Co., Inc.**

**Drill Logs**

**7/26/2007**

MW # 1 TD 50'

0 - 1' Silt w/clay  
1' - 4' Clay  
4' - 4.5' boulder  
4.5' - 15' silty material  
15' - 15.5' granite  
15.5' - 16' brown rock  
16' - 18' granite  
18' - 26' weathered rock  
26' - 28' granite  
28' - 29' weathered rock  
29' - 50' granite

MW # 2 TD 50'

0' - 15' silty material  
15' - 17' granite  
17' - 18' silty material  
18' - 25' sandy material  
25' - 35' granite  
35' - 35.5' soft granite wet  
35.5' - 42' granite  
42' - 43' weathered rock water  
43' - 50' granite

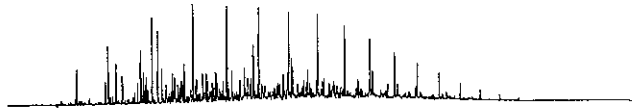
# ***APPENDIX 3***

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## **Laboratory Report**

# Primary Laboratories, Inc.

7423 Lee Davis Road • Mechanicsville, VA 23111 • Telephone (804) 559-9004 • Fax (804) 559-9306



## ANALYTICAL LABORATORY REPORT

3-Aug-07

Timmons Group  
Attn: John T. Russell  
1001 Boulders Parkway, Suite 300  
Richmond, Virginia 23225

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-01  
Client ID: RR-1

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	37.5	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	29.1	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	16.3	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	0.12	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV



Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-01  
 Client ID: RR-1

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-01  
 Client ID: RR-1

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-02  
Client ID: RR-2

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	81.1	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	30.6	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-02  
 Client ID: RR-2

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-02  
 Client ID: RR-2

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-03  
Client ID: RR-3

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	114.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	25.7	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-03  
 Client ID: RR-3

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-03  
 Client ID: RR-3

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33



Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-04  
Client ID: RR-4

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	84.2	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	18.1	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	6.4	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-04  
 Client ID: RR-4

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-04  
 Client ID: RR-4

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-05  
Client ID: RR-5

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	103.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	37.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	15.2	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-05  
 Client ID: **RR-5**

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-05  
 Client ID: RR-5

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-06  
Client ID: RR-6

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	85.9	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	10.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	14.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-06  
 Client ID: RR-6

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33



Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-06  
 Client ID: **RR-6**

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoranthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-07  
Client ID: RR-7

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	117.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	18.9	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	10.5	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	0.09	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-07  
 Client ID: RR-7

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-07  
 Client ID: RR-7

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-08  
Client ID: RR-8

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	96.3	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	23.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	15.2	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	<0.05	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-08  
 Client ID: RR-8

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-08  
 Client ID: **RR-8**

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoroanthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-09  
Client ID: RR-9

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<10	10	mg/Kg	3550/8015B (M)	31-Jul-07	HV
<b>Total Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Barium	55.6	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Cadmium	<1.0	1.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Chromium	18.5	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	16.3	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Mercury	0.06	0.05	mg/Kg	3112B	2-Aug-07	HV
Selenium	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Silver	<2.0	2.0	mg/Kg	3030E/3120B	31-Jul-07	HV



Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-09  
 Client ID: RR-9

Test Description	Final Result	Reporting Limit
Acenaphthene	<0.33	0.33
Acenaphthylene	<0.33	0.33
Anthracene	<0.33	0.33
Benzo(a)anthracene	<0.33	0.33
Benzo(b)fluoranthene	<0.33	0.33
Benzo(k)fluoranthene	<0.33	0.33
Benzoic acid	<0.33	0.33
Benzo(g,h,i)perylene	<0.33	0.33
Benzo(a)pyrene	<0.33	0.33
Benzyl alcohol	<0.33	0.33
bis(2-Chloroethoxy)methane	<0.33	0.33
bis(2-Chloroethyl)ether	<0.33	0.33
bis(2-Chloroisopropyl)ether	<0.33	0.33
bis(2-Ethylhexyl)phthalate	<0.33	0.33
Butylbenzyl phthalate	<0.33	0.33
4-Bromophenylphenylether	<0.33	0.33
4-Chloroaniline	<0.33	0.33
4-Chloro-3-methylphenol	<0.33	0.33
2-Chloronaphthalene	<0.33	0.33
2-Chlorophenol	<0.33	0.33
4-Chlorophenylphenylether	<0.33	0.33
Chrysene	<0.33	0.33
o-Cresol (2-Methylphenol)	<0.33	0.33
p-Cresol (4-Methylphenol)	<0.33	0.33
Dibenzo(a,h)anthracene	<0.33	0.33
Dibenzofuran	<0.33	0.33
Di-n-butyl phthalate	<0.33	0.33
1,2-Dichlorobenzene	<0.33	0.33
1,3-Dichlorobenzene	<0.33	0.33
1,4-Dichlorobenzene	<0.33	0.33
3,3'-Dichlorobenzidine	<0.33	0.33
2,4-Dichlorophenol	<0.33	0.33
Diethyl phthalate	<0.33	0.33
2,4-Dimethylphenol	<0.33	0.33
Dimethyl phthalate	<0.33	0.33
4,6-Dinitro-2-methylphenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Units of Measure: mg/Kg  
 EPA Test Method: 8270C con't  
 Date Analyzed: 1-Aug-07  
 Technician: HV  
 Date Sampled: 26-Jul-07  
 Work Order No: 0707300-09  
 Client ID: RR-9

Test Description	Final Result	Reporting Limit
2,4-Dinitrophenol	<0.33	0.33
2,4-Dinitrotoluene	<0.33	0.33
2,6-Dinitrotoluene	<0.33	0.33
Di-n-octylphthalate	<0.33	0.33
Fluoranthene	<0.33	0.33
Fluorene	<0.33	0.33
Hexachlorobenzene	<0.33	0.33
Hexachlorobutadiene	<0.33	0.33
Hexachlorocyclopentadiene	<0.33	0.33
Hexachloroethane	<0.33	0.33
Indeno(1,2,3-cd)pyrene	<0.33	0.33
Isophorone	<0.33	0.33
2-Methylnaphthalene	<0.33	0.33
Naphthalene	<0.33	0.33
Nitrobenzene	<0.33	0.33
2-Nitroaniline	<0.33	0.33
3-Nitroaniline	<0.33	0.33
4-Nitroaniline	<0.33	0.33
2-Nitrophenol	<0.33	0.33
4-Nitrophenol	<0.33	0.33
N-Nitrosodiphenylamine	<0.33	0.33
N-Nitrosodi-n-propylamine	<0.33	0.33
Pentachlorophenol	<0.33	0.33
Phenanthrene	<0.33	0.33
Phenol	<0.33	0.33
Pyrene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
2,4,5-Trichlorophenol	<0.33	0.33
2,4,6-Trichlorophenol	<0.33	0.33

Primary Laboratories, Inc.  
Results

3-Aug-07

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-10  
Client ID: CU-1 ( 8 Ft. )

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
<b>Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	25.3	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Date Received: 27-Jul-07  
Date Sampled: 26-Jul-07  
Work Order No: 0707300-11  
Client ID: CU-2 ( 8 Ft. )

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
<b>Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	8.7	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Date Sampled: 26-Jul-07  
Work Order No: 0707300-12  
Client ID: CU-3 ( 12 Ft. )

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
<b>Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	15.5	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Date Sampled: 26-Jul-07  
Work Order No: 0707300-13  
Client ID: CU-4A ( 8 Ft. )

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
<b>Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	6.6	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Primary Laboratories, Inc.  
Results

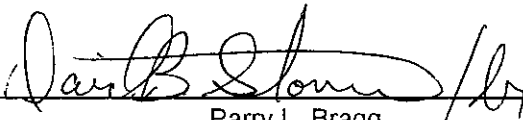
3-Aug-07

Date Sampled: 26-Jul-07  
Work Order No: 0707300-14  
Client ID: CU-4B ( 12 Ft. )

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
<b>Metals</b>						
Arsenic	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV
Lead	<5.0	5.0	mg/Kg	3030E/3120B	31-Jul-07	HV

Date Sampled: 26-Jul-07  
Work Order No: 0707300-15  
Client ID: MW-2

Test Description	Final Result	Reporting Limit	Units of Measure	Standard Methods (18)	Date Analyzed	Tech. Initials
TPH, Diesel Range	<1	1	mg/L	3510/8015B (M)	31-Jul-07	HV

Signature:  Date: 8-3-07  
Parry L. Bragg  
Laboratory Manager

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