



AECOM  
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March 5, 2010

Ms. Jeannette DeBartolomeo  
Maryland Department of Environment  
Oil Control Program  
1800 Washington Blvd. Suite 620  
Baltimore, Maryland 21230-1719

**Re: Monthly Progress Report**  
7-Eleven Store No.22281  
2400 Pleasantville Road  
Fallston, Maryland  
Facility ID No. 0006365  
MDE Case No. 2005-0120HA

AECOM Project: 60144763

Dear Ms. DeBartolomeo:

On behalf of 7-Eleven, Inc. (7-Eleven), AECOM is submitting a monthly progress report for the above-referenced site. This report provides a summary of the site activities performed during the period from late January through February 2010.

Specific tasks associated with this period's activities included the installation and surveying of two additional shallow groundwater monitoring wells onsite, completion of a half-mile radius potable well search, and sampling of the potable well located at the adjacent Dental Technology property. These activities were required by the Maryland Department of the Environment (MDE) in their December 29, 2009 directive letter.

#### Well Installation

On January 20, 2010, AECOM oversaw the installation of two additional monitoring wells (MW-9 and MW-10). Wells were installed to a depth of 35 feet below ground surface (bgs) by Eichelbergers, Inc. of Mechanicsburg, Pennsylvania via air rotary. Ms. Michele Russell of AECOM was onsite to oversee the well installation, field screen and log each of the wells. The wells are 4"-diameter and are constructed of 30 feet of 0.020 slot 4"-diameter PVC screen and 5 feet of 4"-diameter PVC riser. The wells were installed between MW-4A and HW-3 as directed by MDE in their December 29, 2009 directive letter. A site map showing the newly installed well locations and the well construction logs for these two wells are attached (**Figure 1** and **Attachment A**, respectively).

Soil samples were collected from the drill cuttings during the installation of the wells as determined by the highest photoionization detector (PID) reading or, if no readings exceeded the PID detection limit, at the soil-water interface. Samples were sent to Phase Separation Science, Inc. (Phase), of Catonsville, Maryland for analysis for total volatile organic carbons (VOCs) and oxygenates via EPA Method 8260 and for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) by EPA Method 8015. Tert-Butyl alcohol (TBA) and methyl-t-butyl ether (MTBE) were detected at concentrations of 160 micrograms-per-kilogram (ug/kg) and 60 ug/kg, respectively, in the soil sample collected from well MW-10. All other analytes for the two wells were below laboratory detection limits. Laboratory analytical results are attached (**Attachment B**).

Following the installation of the monitoring wells, a well elevation survey was conducted by Ms. Russell on January 21, 2010.

### Half-Mile Potable Well Search

AECOM completed a half-mile potable well search for the subject property as required by MDE in their December 29, 2010. The results of the survey have been submitted to MDE under separate cover.

### Off-site Potable Well Sampling

On February 18, 2010, Mr. Mike Parsons of AECOM collected a potable well sample from the Dental Technology business adjacent to the site, as requested by MDE. The sample was sent to Phase for analysis for total VOCs and oxygenates via EPA Method 524.2. MTBE was detected at a concentration of 3.8 ug/l. Concentrations of all other analytes were below laboratory detection limits. Laboratory analytical results are attached (**Attachment C**). Mr. Parson also gauged all accessible monitoring wells onsite; the results of this gauging event will be included in the next Quarterly Monitoring Report submitted for the site.

### Future Activities

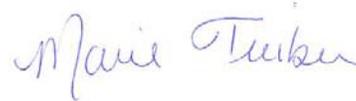
Bioaugmentation pilot testing is scheduled to resume in late March 2010; installation of the system equipment (placement of a holding tank and connection of the holding tank to the injection wells) was delayed due to weather conditions (snow, ice). AECOM has procured the biological stimulator Petrozyme™, for placement in the holding tank. This material will be used to augment and stimulate the naturally-occurring population of hydrocarbon-degrading bacteria in the areas of residual dissolved-phase petroleum hydrocarbons detected in monitoring well MW-4A.

If you have any questions, please contact the undersigned at (410) 884-9280.

Sincerely,



Rachael Allen  
Project Manager



Marie Treiber  
Regional Senior Project Manager



John J. Canzeri  
Project Manager

### Enclosure

cc: Harford County Health Department  
Susan Bull, MDE  
7-Eleven Project File

To enhance and sustain the world's built, natural and social environments

## **FIGURES**

**FIGURE 1** – Site Map

## **ATTACHMENTS**

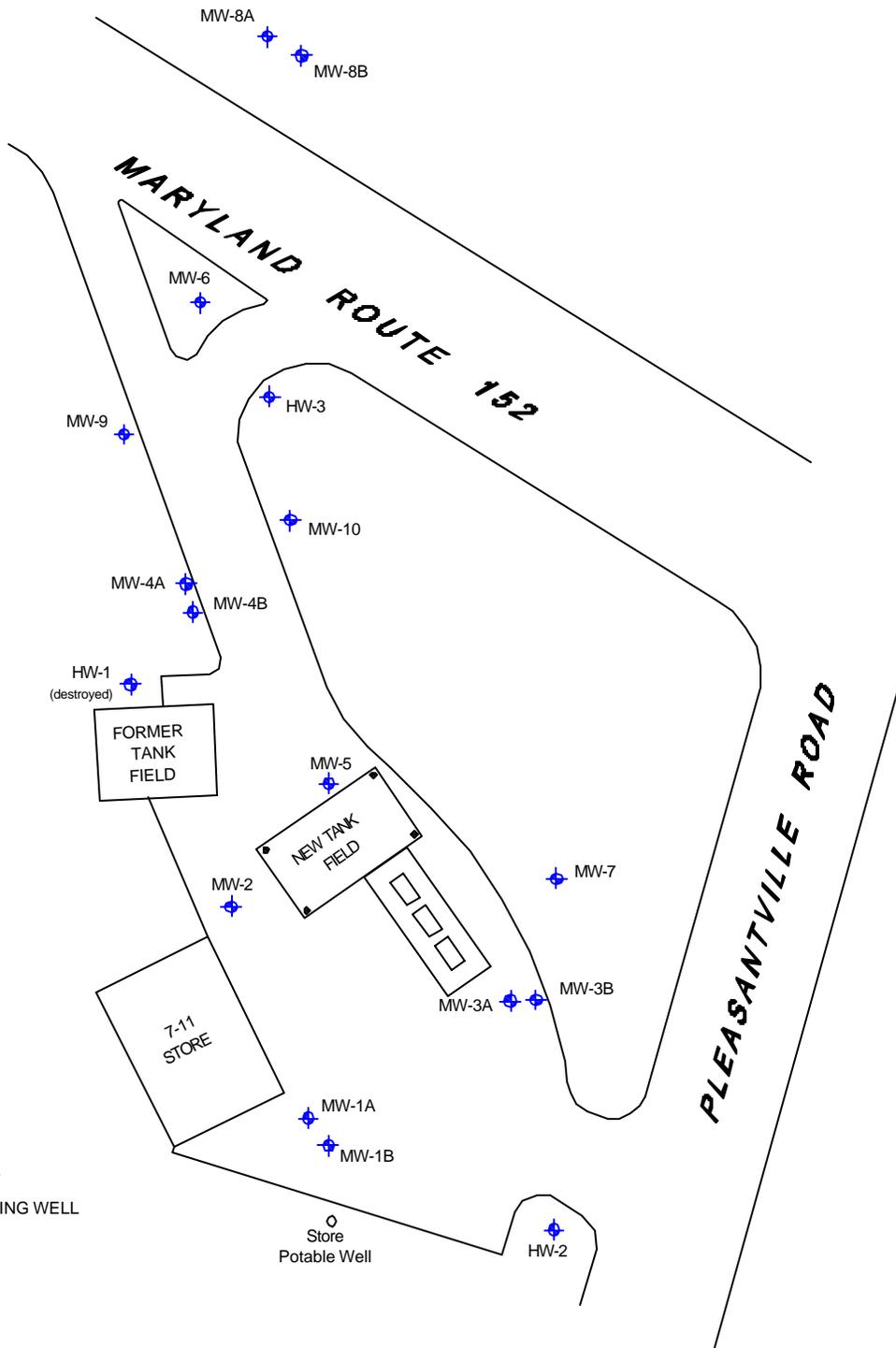
**ATTACHMENT A** – Monitoring Well Logs

**ATTACHMENT B** – Laboratory Analytical Results (Soil)

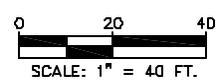
**ATTACHMENT C** – Laboratory Analytical Results (Dental Technology Potable Well)

**FIGURE**

Y:\Maryland\22281 - Fallston\Section 5 Project Reporting\Monthly Progress Reports\Figures\SITE MAP JAN-10.dwg



- LEGEND**
-  MONITORING WELL
  -  HISTORICAL WELL
  -  DEEP WELL
  -  TANK FIELD WELL
  -  Store Potable Well



	SITE MAP JANUARY 21, 2010 7-ELEVEN STORE #22281 2400 PLEASANTVILLE ROAD FALLSTON, MARYLAND		FIGURE NUMBER:  <span style="font-size: 2em;">1</span>
	8320 GUILFORD ROAD, SUITE L COLUMBIA, MARYLAND 21046 PHONE: 410.884.9280 FAX: 410.884.9271 www.aecom.com	DRAWN BY: JF	DATE: JANUARY 2010
			SHEET NUMBER: 1

**ATTACHMENT A**  
**Monitoring Well Logs**

<b>AECOM</b>		Client: 7-Eleven, Inc.		Store No. 22281		Well ID: MW-9		
		Project Number: 60137856		Project Manager: John Canzari				
		Site Location: 2400 Pleasantville Road, Fallston, MD		County: Harford		Sheet: 1 of 1		
		Drilling Method: Air Rotary		Well Diameter: 4-inch				
		Sample Type(s): Grab, drill cuttings		Boring Diameter: 8.25-inch		Borehole Depth: 35 feet		
Weather: 38° F, clear		Logged By: Michele Russell		Date Started: 1/20/2010		Bedrock Depth: N/A		
Drilling Contractor: Eichelbergers, Inc.		Technician: Ray Jackson		Date Finished: 1/21/2010		Water Level: 14.1 feet		
Depth (ft)	Sample ID	Sample Interval	Odor	PID (ppm)	Moisture	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (if Known)	Well Construction	Comments
1			none	0.0	moist	Topsil (0' to 1')		
2			none	0.0	moist	Saprolite; light to medium brown micaceous SILT, some sand (1' to 5')		concrete (0.8' to 1.5')
3								bentonite (1.5' to 3')
4								#2 sand (3' to 35')
5								4-inch PVC casing (0' to 5')
6			none	0.0	moist	same as above (5' to 10')		
7								4-inch 20-slot PVC screen (5' to 35')
8								
9								
10								
11			none	0.0	moist	same as above (10' to 15')		
12	MW-9@11'-12'	11' to 12'	none	0.0	moist			
13								
14								
15			none	0.0	moist	same as above (15' to 20')		
16								
17								
18								
19								
20								
21			none	0.0	moist	same as above (20' to 25')		
22								
23								
24								
25			none	0.0	moist	same as above (25' to 30')		
26								
27								
28								
29								
30								
31			none	0.0	moist	same as above (30' to 35')		
32								
33								
34								
35						END OF BORING		
<b>NOTES:</b> <ul style="list-style-type: none"> <li>* Soil sample MW-9@11'-12' collected at 1500</li> <li>* Bedrock not encountered</li> <li>* Borehole cleared to 5 feet bgs with air knife</li> </ul>								

AECOM		Client: 7-Eleven, Inc.		Store No. 22281		Well ID: MW-10		
		Project Number: 60137856		Project Manager: John Canzeri				
		Site Location: 2400 Pleasantville Road, Fallston, MD		County: Harford		Sheet: 1 of 1		
		Drilling Method: Air Rotary		Well Diameter: 4-inch				
		Sample Type(s): Grab; drill cuttings		Boring Diameter: 8.25-inch		Borehole Depth: 35 feet		
Weather: 41° F; clear		Logged By: Michele Russell		Date Started: 1/20/2010		Bedrock Depth: N/A		
Drilling Contractor: Eichelbergers, Inc.		Technician: Rav Jackson		Date Finished: 1/21/2010		Water Level: 12.2 feet		
Depth (ft)	Sample ID	Sample Interval	Odor	PID (ppm)	Moisture	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Well Construction	Comments
1			none	0.0	moist	Topsoil (0' to 1')		
2			none	0.0	moist	Saprolite; light to medium brown micaceous SILT, some sand (1' to 5')		concrete (0.8' to 1.5')
3								bentonite (1.5' to 3')
4								#2 sand (3' to 35')
5								4-inch PVC casing (0' to 5')
6			none	0.0	moist	same as above (5' to 10')		4-inch 20-slot PVC screen (5' to 35')
7								
8								
9								
10								
11			none	1.3	moist	same as above (10' to 14')		
12								
13								
14	MW-10@14'-15'	14' to 15'	yes	33.7	moist	same as above, but with slight petroleum odor (14' to 16')		
15								
16			yes	23.4	moist	same as above (16' to 20')		
17								
18								
19								
20								
21			yes	22.1	moist	same as above (20' to 25')		
22								
23								
24								
25								
26			none	12.6	moist	same as above, but no odor detected (25' to 30')		
27								
28								
29								
30								
31			none	13	moist	same as above (30' to 35')		
32								
33								
34								
35						END OF BORING		

**NOTES:**

- \* Soil sample MW-10@14'-15' collected at 1100
- \* Bedrock not encountered
- \* Borehole cleared to 5 feet bgs with air knife

**ATTACHMENT B**

**Laboratory Analytical Results (Soil)**

# Analytical Report for

**AECOM**

**Certificate of Analysis No.: 10012607**

**Project Manager: John Canzeri**

**Project Name : 7-Eleven #22281**

**Project Location: Fallston, MD**

**Project ID : 60137856**



**February 9, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**

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# PHASE SEPARATION SCIENCE, INC.



February 9, 2010

**John Canzeri**  
**AECOM**  
8320 Guilford Road, Ste. L  
Columbia, MD 21046

Reference: PSS Work Order No: **10012607**  
Project Name : 7-Eleven #22281  
Project Location: Fallston, MD  
Project ID.: 60137856

Dear John Canzeri :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10012607**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on March 2, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

A handwritten signature in black ink that reads "Dan Prucnal". The signature is written in a cursive, flowing style.

**Dan Prucnal**

Laboratory Manager



**Case Narrative Summary**  
**Client Name: AECOM**  
**Project Name: 7-Eleven #22281**

**Project ID: 60137856**

**Work Order Number: 10012607**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 01/26/2010 at 01:45 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10012607-001	MW-9@11'-12'	SOIL	01/20/2010 15:00
10012607-002	MW-10@14'-15'	SOIL	01/21/2010 11:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

**Notes:**

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

**Standard Flags/Abbreviations:**

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-9@11'-12'</b>	<b>Date/Time Sampled: 01/20/2010 15:00</b>	<b>PSS Sample ID: 10012607-001</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 86</b>

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW846 8015C

Preparation Method: SW846 5030

	<b>Result</b>	<b>Units</b>	<b>RL</b>	<b>Flag</b>	<b>Dil</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Analyst</b>
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	120		1	01/26/10	01/26/10 14:53	1035

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-9@11'-12'</b>	<b>Date/Time Sampled: 01/20/2010 15:00</b>	<b>PSS Sample ID: 10012607-001</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 86</b>

TCL Volatiles plus Oxygenates

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Chloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Vinyl Chloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
tert-Butyl alcohol	ND	ug/kg	46		1	01/26/10	01/26/10 15:12	1011
Bromomethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Chloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Acetone	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
Cyclohexane	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
Trichlorofluoromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Methylene Chloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1-Dichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
2-Butanone (MEK)	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Bromochloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Chloroform	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,2-Dichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Carbon Tetrachloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Benzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Dibromomethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,2-Dichloropropane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Carbon Disulfide	ND	ug/kg	11		1	01/26/10	01/26/10 15:12	1011
Methylcyclohexane	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
Trichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Methyl Acetate	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
Bromodichloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-9@11'-12'</b>	<b>Date/Time Sampled: 01/20/2010 15:00</b>	<b>PSS Sample ID: 10012607-001</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 86</b>

TCL Volatiles plus Oxygenates

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
trans-1,3-Dichloropropene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Toluene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
2-Hexanone	ND	ug/kg	23		1	01/26/10	01/26/10 15:12	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Dibromochloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
tert-Butyl ethyl ether	ND	ug/kg	11		1	01/26/10	01/26/10 15:12	1011
tert-Amyl methyl ether	ND	ug/kg	46		1	01/26/10	01/26/10 15:12	1011
Diisopropyl ether	ND	ug/kg	11		1	01/26/10	01/26/10 15:12	1011
tert-Amyl ethyl ether	ND	ug/kg	46		1	01/26/10	01/26/10 15:12	1011
tert-Amyl alcohol	ND	ug/kg	46		1	01/26/10	01/26/10 15:12	1011
Bromoform	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Tetrachloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Chlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Ethylbenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
m,p-Xylenes	ND	ug/kg	11		1	01/26/10	01/26/10 15:12	1011
Styrene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
o-Xylene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Isopropylbenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	46		1	01/26/10	01/26/10 15:12	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
Naphthalene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:12	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-10@14'-15'</b>	<b>Date/Time Sampled: 01/21/2010 11:00</b>	<b>PSS Sample ID: 10012607-002</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 82</b>

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW846 8015C

Preparation Method: SW846 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	120		1	01/26/10	01/26/10 15:23	1035

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 800-932-9047  
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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-10@14'-15'</b>	<b>Date/Time Sampled: 01/21/2010 11:00</b>	<b>PSS Sample ID: 10012607-002</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 82</b>

TCL Volatiles plus Oxygenates

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Chloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Vinyl Chloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
tert-Butyl alcohol	<b>160</b>	ug/kg	50		1	01/26/10	01/26/10 15:41	1011
Bromomethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Chloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Acetone	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
Cyclohexane	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
Trichlorofluoromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Methylene Chloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Methyl-t-butyl ether	<b>60</b>	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1-Dichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
2-Butanone (MEK)	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Bromochloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Chloroform	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,2-Dichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Carbon Tetrachloride	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Benzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Dibromomethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,2-Dichloropropane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Carbon Disulfide	ND	ug/kg	13		1	01/26/10	01/26/10 15:41	1011
Methylcyclohexane	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
Trichloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Methyl Acetate	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
Bromodichloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10012607  
**AECOM, Columbia, MD**  
 February 9, 2010

Project Name: 7-Eleven #22281  
 Project Location: Fallston, MD  
 Project ID: 60137856

<b>Sample ID: MW-10@14'-15'</b>	<b>Date/Time Sampled: 01/21/2010 11:00</b>	<b>PSS Sample ID: 10012607-002</b>
<b>Matrix: SOIL</b>	<b>Date/Time Received: 01/26/2010 13:45</b>	<b>% Solids: 82</b>

TCL Volatiles plus Oxygenates

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
trans-1,3-Dichloropropene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Toluene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
2-Hexanone	ND	ug/kg	25		1	01/26/10	01/26/10 15:41	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Dibromochloromethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
tert-Butyl ethyl ether	ND	ug/kg	13		1	01/26/10	01/26/10 15:41	1011
tert-Amyl methyl ether	ND	ug/kg	50		1	01/26/10	01/26/10 15:41	1011
Diisopropyl ether	ND	ug/kg	13		1	01/26/10	01/26/10 15:41	1011
tert-Amyl ethyl ether	ND	ug/kg	50		1	01/26/10	01/26/10 15:41	1011
tert-Amyl alcohol	ND	ug/kg	50		1	01/26/10	01/26/10 15:41	1011
Bromoform	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Tetrachloroethene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Chlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Ethylbenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
m,p-Xylenes	ND	ug/kg	13		1	01/26/10	01/26/10 15:41	1011
Styrene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
o-Xylene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Isopropylbenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	50		1	01/26/10	01/26/10 15:41	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
Naphthalene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1	01/26/10	01/26/10 15:41	1011





# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number 10012607

Client Name AECOM

Project Name 7-Eleven #22281

Project Number 60137856

Disposal Date: 03/02/2010

Received By Rachel Davis

Date Received 01/26/2010 01:45:00 PM

Delivered By Dial Courier ✓

Tracking No Not Applicable

Logged In By Rachel Davis

### Shipping Container(s)

No of Coolers	0	Ice	Absent
Custody Seals	Absent ✓	Temp (deg C)	6 ✓
Seal Condition	Absent	Temp Blank Present	No

### Documentation

COC agrees with sample labels?  Yes or  No      Sampler Name: Michele Russell

Chain of Custody (COC)  Yes or  No      MD DW Cert. No : N/A ✓

### Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/> <input type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable ✓
Labeled and Labels Legible	<input checked="" type="checkbox"/> <input type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	2	Total No. of Containers Received	4

### Preservation

		Yes	No	N/A
Metals	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cyanides	(pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide	(pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: [Signature]

Date: 1/26/10

PM Review and Approval: [Signature]

Date: 1/26/10

**ATTACHMENT C**

**Laboratory Analytical Results (Dental Technology Potable Well)**

# Analytical Report for

**AECOM**

**Certificate of Analysis No.: 10021905**

**Project Manager: John Canzeri**

**Project Name : 7-11 Fallston**

**Project Location: MD**

**Project ID : 60144763**



**March 5, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**

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# PHASE SEPARATION SCIENCE, INC.



March 5, 2010

**John Canzeri**  
**AECOM**  
8320 Guilford Road, Ste. L  
Columbia, MD 21046

Reference: PSS Work Order No: **10021905**  
Project Name : 7-11 Fallston  
Project Location: MD  
Project ID.: 60144763

Dear John Canzeri :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10021905**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on March 26, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

**Dan Prucnal**  
Laboratory Manager



# Case Narrative Summary

Client Name: AECOM

Project Name: 7-11 Fallston

Project ID: 60144763

Work Order Number: 10021905

The following samples were received under chain of custody by Phase Separation Science (PSS) on 02/19/2010 at 10:35 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10021905-001	Dental Technology Well	GROUND WATER	02/18/2010 12:45

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

#### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

#### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10021905  
**AECOM, Columbia, MD**  
 March 5, 2010

Project Name: 7-11 Fallston  
 Project Location: MD  
 Project ID: 60144763

**Sample ID: Dental Technology Well**      **Date/Time Sampled: 02/18/2010 12:45**      **PSS Sample ID: 10021905-001**  
**Matrix: GROUND WATER**      **Date/Time Received: 02/19/2010 10:35**

VOC In Drinking Water plus Oxygenates      Analytical Method: EPA 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Bromobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Bromochloromethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Bromodichloromethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Bromoform	ND	ug/L	5		1	02/22/10	02/22/10 20:52	
Bromomethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
tert-Butylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
sec-Butylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
n-Butylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Carbon Tetrachloride	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Chlorobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Chloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Chloroform	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Chloromethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
2-Chlorotoluene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
4-Chlorotoluene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2-Dibromo-3-Chloropropane	ND	ug/L	5		1	02/22/10	02/22/10 20:52	
Dibromochloromethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Dibromomethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2-Dichlorobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,3-Dichlorobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,4-Dichlorobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Dichlorodifluoromethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1-Dichloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2-Dichloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
cis-1,2-Dichloroethene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
trans-1,2-Dichloroethene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1-Dichloroethene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2-Dichloropropane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,3-Dichloropropane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10021905  
**AECOM, Columbia, MD**  
 March 5, 2010

Project Name: 7-11 Fallston  
 Project Location: MD  
 Project ID: 60144763

**Sample ID: Dental Technology Well**      **Date/Time Sampled: 02/18/2010 12:45**      **PSS Sample ID: 10021905-001**  
**Matrix: GROUND WATER**      **Date/Time Received: 02/19/2010 10:35**

VOC In Drinking Water plus Oxygenates      Analytical Method: EPA 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
2,2-Dichloropropane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1-Dichloropropene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
cis-1,3-Dichloropropene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Ethylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Isopropylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
4-Isopropyltoluene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Methylene Chloride	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Methyl-t-butyl ether	<b>3.8</b>	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Naphthalene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
n-Propylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Styrene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Diisopropyl ether	ND	ug/L	5		1	02/22/10	02/22/10 20:52	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Tetrachloroethene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Toluene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2,3-Trichlorobenzene	ND	ug/L	1		1	02/22/10	02/22/10 20:52	
1,2,4-Trichlorobenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1,1-Trichloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,1,2-Trichloroethane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Trichloroethene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2,3-Trichloropropane	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,2,4-Trimethylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
1,3,5-Trimethylbenzene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
Vinyl Chloride	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
o-Xylene	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
m,p-Xylenes	ND	ug/L	0.5		1	02/22/10	02/22/10 20:52	
tert-Butyl ethyl ether	ND	ug/L	5		1	02/22/10	02/22/10 20:52	
tert-Butyl alcohol	ND	ug/L	20		1	02/22/10	02/22/10 20:52	
tert-Amyl methyl ether	ND	ug/L	5		1	02/22/10	02/22/10 20:52	
tert-Amyl alcohol	ND	ug/L	20		1	02/22/10	02/22/10 20:52	

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10021905  
**AECOM, Columbia, MD**  
 March 5, 2010

Project Name: 7-11 Fallston  
 Project Location: MD  
 Project ID: 60144763

**Sample ID: Dental Technology Well**      **Date/Time Sampled: 02/18/2010 12:45**      **PSS Sample ID: 10021905-001**  
**Matrix: GROUND WATER**      **Date/Time Received: 02/19/2010 10:35**

VOC In Drinking Water plus Oxygenates      Analytical Method: EPA 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
tert-Amyl ethyl ether	ND	ug/L	5		1	02/22/10	02/22/10 20:52	

Total Petroleum Hydrocarbons-GRO      Analytical Method: SW846 8015C      Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	02/19/10	02/19/10 15:32	1035





# Phase Separation Science, Inc

## Sample Receipt Checklist

**Wo Number** 10021905      **Received By** Rachel Davis  
**Client Name** AECOM      **Date Received** 02/19/2010 10:35:00 AM  
**Project Name** 7-11 Fallston      **Delivered By** Client ✓  
**Project Number** 60144763      **Tracking No** Not Applicable  
**Disposal Date:** 03/26/2010      **Logged In By** Rachel Davis

### Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seals	Not Applicable ✓	Temp (deg C)	2 ✓
Seal Condition	Not Applicable	Temp Blank Present	No

### Documentation

COC agrees with sample labels?  Yes or  No      Sampler Name: Mike Parsons ✓  
Chain of Custody (COC)  Yes or  No      MD DW Cert No : N/A

### Sample Container

Appropriate for Specified Analysis? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact? <input checked="" type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible <input checked="" type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable ✓
Total No. of Samples Received 1	Total No. of Containers Received	6

### Preservation

	Yes	No	N/A
Metals (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: [Signature]      Date: 2/19/10  
PM Review and Approval: [Signature]      Date: 2/19/10