

October 20, 2008

Mr. William S. Ingersoll  
Town Manager  
Town of Chestertown  
118 North Cross Street  
Chestertown, MD 21620

**SUBJECT: Results of the Limited Phase II Environmental Site Assessment,  
Former Maryland National Guard Armory, 509 Cross Street,  
Chestertown, Maryland**

Dear Mr. Ingersoll:

At your request, Earth Data Incorporated (Earth Data) performed a limited Phase II subsurface investigation at the former Maryland National Guard Armory (Chestertown Armory) located at 509 Cross Street in Chestertown, Maryland (Figure 1). The work was performed to determine potential environmental issues associated with present and past fuel handling practices at the facility.

The investigation work included placing soil borings adjacent to the above-ground fuel oil storage tank (AST) at the northeast corner of the building, outside of the garage at the back side of the building and in the paved and stone-covered area southwest of the building. The 6,000-gallon AST is located at the same location of a former 6,000-gallon underground storage tank (UST). From preliminary discussions with personnel from the Maryland Army National Guard, soil borings were placed in areas of most likely environmental concern, including the former location of a motor fuel UST located in the paved and stone-covered area southwest of the building.

Using direct-push technology (Earthprobe®), eleven soil borings were each made to a depth of 8.0 feet below ground surface. Soils were screened in the field for organic vapors with an OVM-PID. Five soil samples were sent to an EPA-approved laboratory and analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons – diesel range organics (TPH-DRO) and gasoline range organics (TPH-GRO). Temporary piezometers were installed in four of the soil borings in order to collect groundwater samples and analyze them for VOCs. Analytical results showed no VOC concentrations in any of the soil or groundwater samples analyzed. TPH-GRO and TPH-DRO concentrations were not detected in any of the soil samples collected.

After completion of the field investigation, Earth Data personnel met with members of the Maryland Army National Guard to visually inspect the building at the site. A subsequent record search conducted by National Guard representatives revealed an old blueprint of the site. The drawing identified a 1,000-gallon motor fuel UST located near the small block building identified as "POL" southwest of the main armory building. According to available records, the 1,000 gallon UST was removed in the early 1990s. As a result of this finding, Earth Data personnel returned to the site and placed additional soil borings in the area of the former 1,000-gallon UST.

Five soil borings were made, each to a depth of eight feet. Soils were screened in the field for organic vapors with an OVM-PID. One soil sample was sent to the laboratory for VOC, TPH-DRO and TPH-GRO analysis. A temporary piezometer was installed in one of the soil borings in order to collect a groundwater sample and analyze it for VOCs. Analytical results showed no VOC concentrations in the soil sample or the groundwater sample. TPH-GRO and TPH-DRO concentrations were not detected in the soil sample collected.

### **FIELD INVESTIGATION**

On August 8, 2008, Earth Data personnel collected subsurface soil samples at the Chestertown Armory located at 509 Cross Street in Chestertown, Maryland (Figure 2). Three soil borings, SB-1, SB-2 and SB-3, were placed around the existing 6,000-gallon fuel oil AST located at the northeast corner of the building (Figure 3). Two soil borings, SB-4 and SB-5, were placed in front of the two service bays to the garage at the south end of the building. Two borings, SB-6 and SB-7, were placed outside the southeast wall of the garage. Four soil borings, SB-8, SB-9, SB-10 and SB-11, were placed southwest of the building in the asphalt/stone-covered area where vehicles were stored and where Maryland National Guard members subsequently verified the location of a former UST.

On August 13, 2008, Earth Data personnel met onsite with Mr. Larry Leone and Mr. Joseph Gutierrez of the Maryland Army National Guard (MD-ANG) to perform a visual inspection of the property, including the interior of the building. As neither MD-ANG representative could recall the exact location of the former motor fuel tank(s), Mr. Gutierrez stated that he would check the archived files and document storage locations for more information. On the August 15, 2008, Mr. Gutierrez was able to locate blue prints from 1954 showing upgrades to the facility. One blue print showed the location of a 1,000 gallon underground gasoline tank.

After reviewing the blueprint which identified the location of the former 1,000-gallon UST, Earth Data personnel returned to the site on September 29, 2008 to collect additional subsurface soil and groundwater samples. Five soil borings (SB-12, SB-13,

SB-14, SB-15 and SB-16) were placed near the small block building southwest of the main armory building identified as "POL" (petroleum oil & lubricants) on the blueprint.

During both site visits, each soil boring was driven to a depth of 8.0 feet below ground surface. The soils encountered in the borings were described in the field by an experienced environmental scientist and screened for organic vapors with an OVM-PID. In addition, observations were made as to staining, odor and moisture content. Earth Data field reports may be found in Appendix A. Soil boring logs may be found in Appendix B. Photographic documentation of the soil boring locations, as well as the visual inspection of the property, may be found in Appendix C.

Soil samples were collected from a total of six boreholes (SB-1, SB-5, SB-7, SB-9, SB-11 and SB-16) at a depth immediately above the water table. In five of the boreholes (SB-3, SB-4, SB-7, SB-9 and SB-13), temporary piezometers were installed in order to collect groundwater samples (GW-1 through GW-5, respectively). Soil and groundwater samples were placed in laboratory-supplied sample jars and immediately placed on ice in the field. The samples were subsequently transferred to an EPA-approved laboratory for analysis. Soil samples were analyzed for VOCs (EPA Method 8260), TPH-GRO and TPH-DRO (EPA Method 8015B). Groundwater samples were analyzed for VOCs (EPA Method 8260). The laboratory analytical reports may be found in Appendix D.

## RESULTS

The soils encountered in SB-1, SB-2 and SB-3, located near the fuel oil AST, consisted primarily of silty sands with some gravel and stone. No indications of leaks, spills, staining or odor were observed in the soil borings beside the AST. In addition, the soils encountered in the borings showed no detectable concentrations of organic vapors with the OVM-PID. The water table was encountered at 4.0 to 4.5 feet below ground surface, depending on the location.

A soil sample was collected from SB-1 at a depth just above the water table and a groundwater sample (GW-1) was collected from SB-3. Laboratory analytical results showed no detectable VOCs in either the soil or groundwater sample collected from the area around the AST (Figures 4 and 5). Additionally, no TPH-GRO or TPH-DRO concentrations were detected in the soil sample.

The subsurface soils encountered in the area south and southwest of the building were predominantly brown and gray silty sands and sands just below the surface to a depth of 8.0 feet. The surface was covered with either asphalt or crushed stone and gravel. Layers of burnt debris were found in soil borings SB-6, SB-8, SB-11, SB-13 and SB-14 at depths between 1.0 and 4.0 feet below ground surface, depending on the location. No indications of leaks, spills or odor were observed in any of these soil

borings. No detectable concentrations of organic vapors were found with the OVM-PID. The water table was encountered at 3.0 to 4.0 feet below ground surface, depending on the location.

Soil samples were collected from five of the soil borings southwest of the armory building (SB-5, SB-7, SB-9, SB-11 and SB-16). No detectable concentrations of VOCs, TPH-DRO or TPH-GRO were found in the soil samples collected from SB-7, SB-9, SB-11 or SB-16. Acetone was found in the soil sample collected from SB-5 at a concentration of 35 ug/kg. No detectable concentrations of other VOCs, TPH-GRO or TPH-DRO were found in the SB-5 soil sample. The presence of acetone is most likely a remnant of the analytical process at the laboratory.

Groundwater samples (GW-2, GW-3, GW-4 and GW-5) were collected from four of the soil borings in the area southwest of the building (SB-4, SB-7, SB-9 and SB-13, respectively). Analytical results of the groundwater samples GW-2, GW-3 and GW-4 showed no detectable concentrations of VOCs. Results of the analysis of GW-5 showed concentrations of toluene and 1,4-dichlorobenzene at the detection limit of 1 ug/L.

During the visual inspection of the property, the interior of the armory building was inspected, with the exception of the vault and Room #114, which were both locked. The exterior of the building was also inspected. No potential environmental issues were revealed during the inspection.

### **CONCLUSIONS**

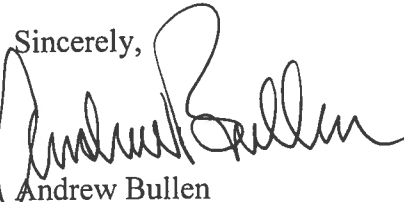
The results of the limited Phase II site assessment conducted at the Chestertown Armory property in Chestertown, Maryland suggest that the soils around the existing fuel oil AST and other key use areas on the property have not been significantly impacted by the release of petroleum hydrocarbons. With one exception, analytical results of the soil samples collected at the site showed no VOC, TPH-DRO or TPH-GRO concentrations present. The soil sample collected from SB-5 showed an acetone concentration of 35 ug/kg, but this is most likely a remnant from the analytical process. One groundwater sample, GW-5, collected at the site showed concentrations of toluene and 1,4-dichlorobenzene at the laboratory detection limit of 1 ug/L. No other VOCs were found in any of the groundwater samples collected.

### **LIMITATIONS**

The findings and conclusions presented in this report are the results of fieldwork, data analysis performed by Earth Data and the analysis and interpretation of data collected and provided by others as of this date. Earth Data makes no warranties or guarantees as to the accuracy or completeness of information obtained from or compiled

Mr. William Ingersoll  
*Town of Chestertown*  
October 20, 2008  
Page 5

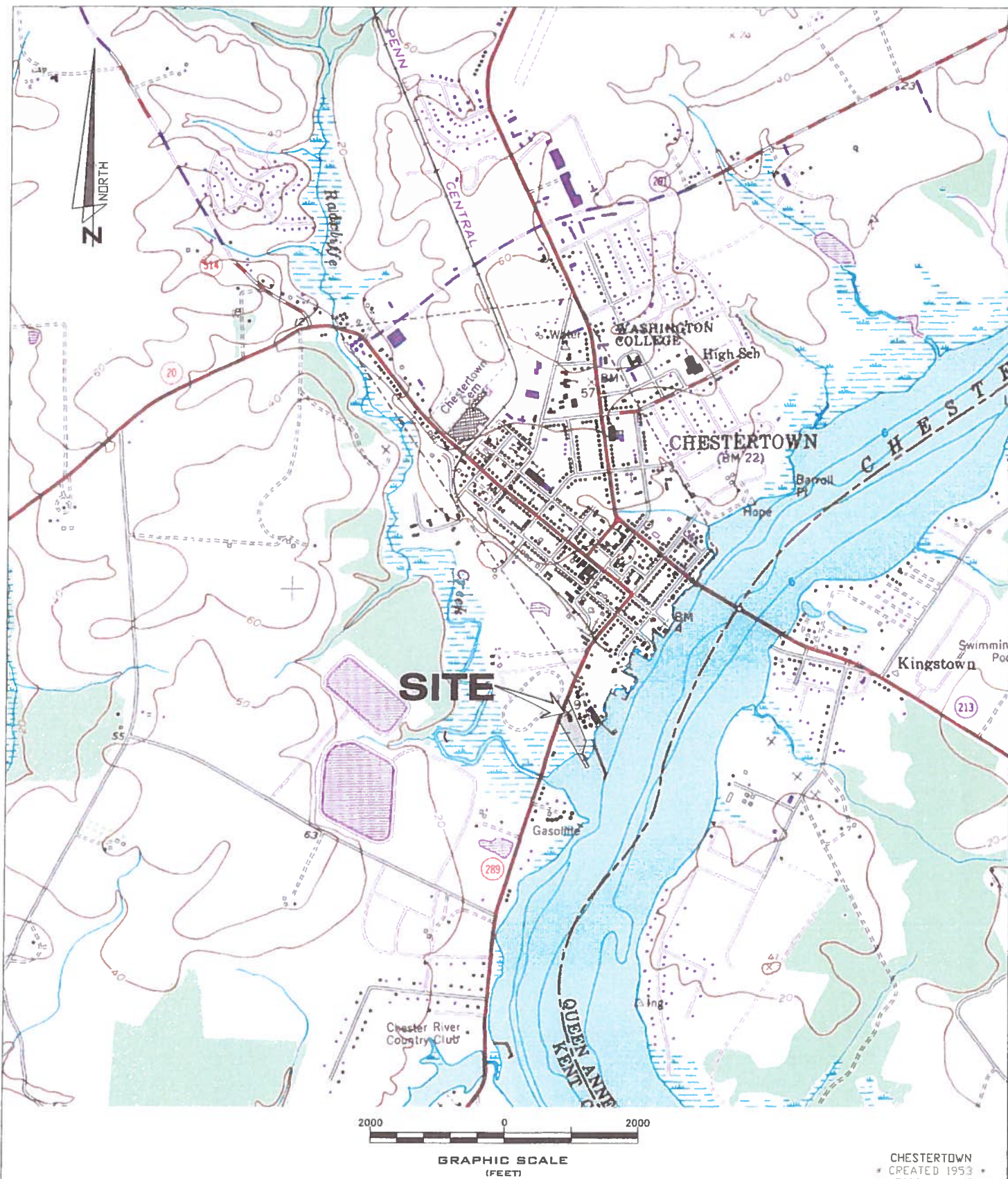
by others. As additional data becomes available or as the regulatory framework may change, the conclusion and recommendations presented herein may change. Due to the limited scope of this investigation, Earth Data Inc. collected soil and groundwater samples from only two general areas on the property. Additionally, the investigation focused on the fuel handling practices at the facility. Therefore, there may be subsurface, groundwater or environmental conditions on the property not disclosed by our investigations. This report has been prepared in accordance with generally accepted practices and with the level of care ordinarily exercised by members of our profession for the exclusive use of the Town of Chestertown, Maryland. No other warranty, expressed or implied, is made.

Sincerely,  
  
Andrew Bullen  
Senior Project Manager

AB:tjl - 3982

Enclosures





CHESTERTOWN  
 \* CREATED 1953 \*  
 \* MODIFIED 1973 \*

**EarthData**  
 INCORPORATED

**GROUNDWATER & ENVIRONMENTAL CONSULTANTS**

131 COMET DRIVE  
 CENTREVILLE, MARYLAND 21617  
 TEL. 410.758.8180 / FAX 410.758.8188  
 www.earthdatainc.com

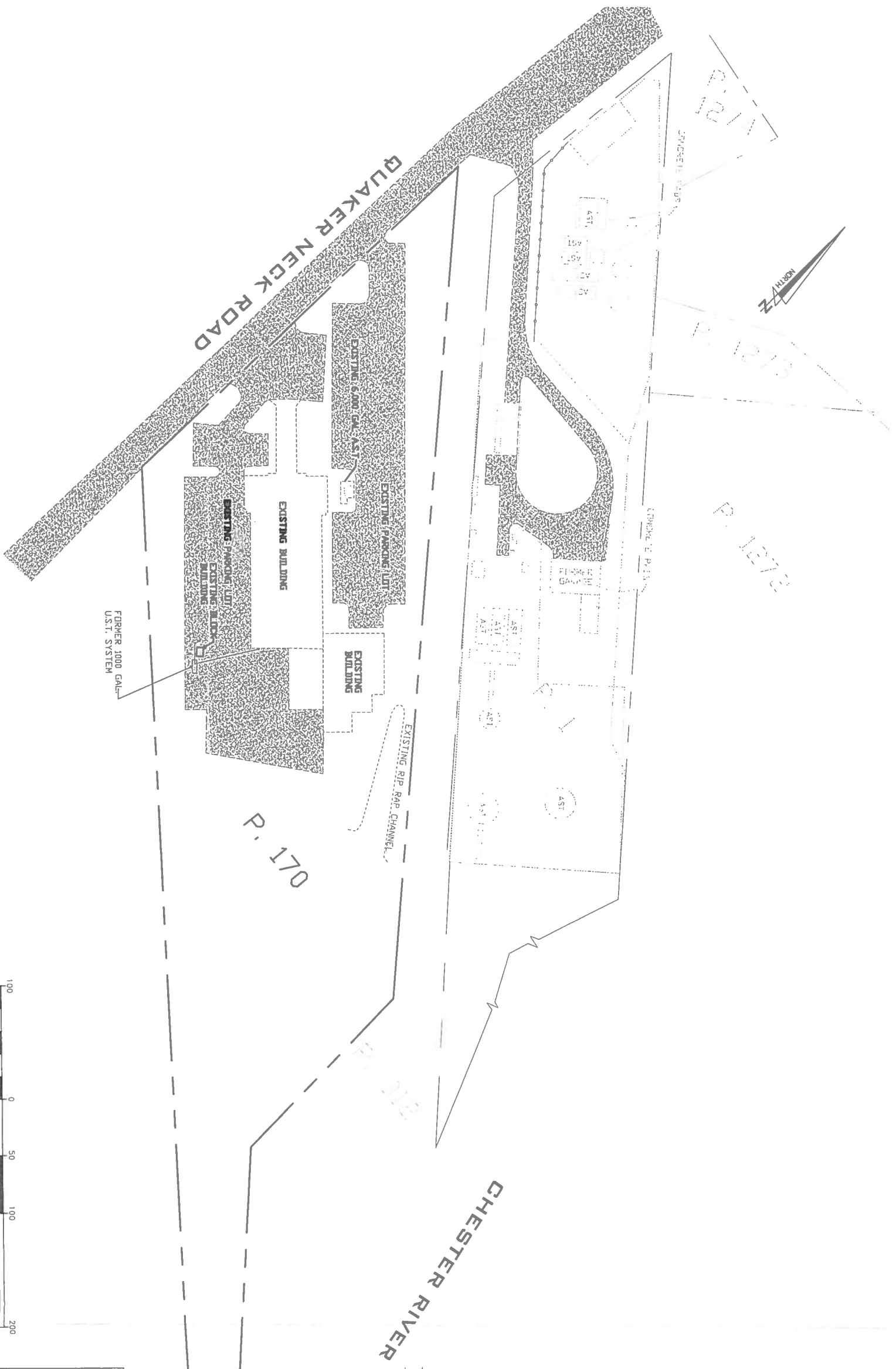
**FIGURE 1**

LOCATION MAP  
 FOR  
**CHESTERTOWN ARMORY PROPERTY**

TAX MAP 44, GRID 1E, PARCELS 170  
 KENT COUNTY, MARYLAND

PROJ. MGR.:	A.B.
DATE:	08/11/2008
SCALE:	AS SHOWN
EDI #:	3982
PORTION OF USGS 7.5 MINUTE QUADRANGLE FOR CHESTERTOWN MARYLAND	

Figure 1 - Portion of U.S.G.S. Quadrangle for Chestertown, Maryland showing the location of the Chestertown Armory Property, Chestertown, Maryland.

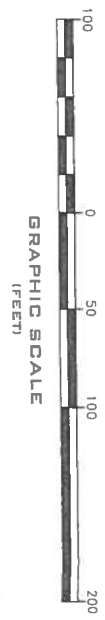


**EXPLANATION**

	EXISTING PROPERTY LINE
	EXISTING EDGE OF PAVE
	EXISTING BUILDING

**NOTE:**

1. THIS IS NOT A PROPERTY LINE SURVEY. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A PARTIAL BOUNDARY SURVEY AND VERTICAL DATUM SURVEY
2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY SHOW ADDITIONAL CONVEYANCES, EASEMENTS, COVENANTS, RIGHTS-OF-WAYS OR MORE STRINGENT BUILDING RESTRICTION LINES NOT SHOWN HEREON.
3. THIS IS NOT A TOPOGRAPHICAL SURVEY. EXISTING PROPERTY LINES SHOWN HEREON WERE TAKEN FROM A COMBINATION OF EXISTING AERIAL TOPOGRAPHY, SITE RECORDS, AND MARYLAND DEPARTMENT OF PLANNING TAX MAP 21.



PRD. MGR.	SCALE	CADD FILE	BASE MAP
A. BULLEN	AS SHOWN	3880 W.D.dwg	EDI
DRAWN BY	DATE	PROJECT	SURVEY BY
LKC	08/11/2008	3982	EDI

**FIGURE 2**  
SITE MAP  
FOR  
**CHESTERTOWN ARMORY**  
TAX MAP 44, GRID 1E, PARCEL 170  
KENT COUNTY, MARYLAND

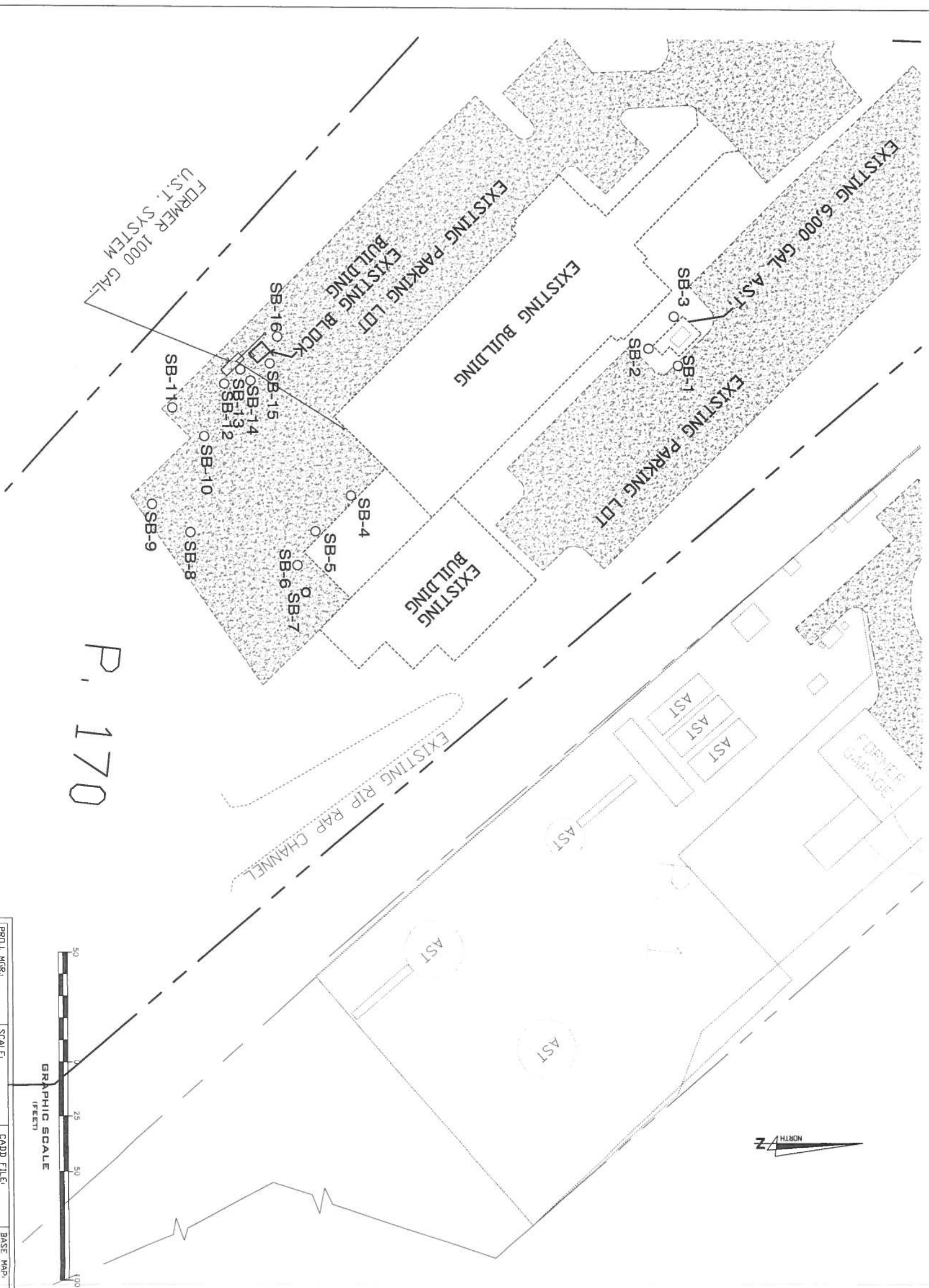
**Earth Data**  
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Figure 2 - Site map showing property boundary and other pertinent features associated with the Chestertown Armory Property, Chestertown, Maryland.





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PROJ. MGR.	SCALE	CADD FILE	BASE MAP
A. BILLEN	AS SHOWN	3982 V.DWG	EDI
DRAWN BY	DATE	PROJECT	SURVEY BY
LKC	08/26/2008	3982	EDI

GRAPHIC SCALE  
(FEET)



**EXPLANATION**

	EXISTING PROPERTY LINE
	EXISTING EDGE OF PAVE
	EXISTING BUILDING
	SOIL BORING LOCATION

**NOTE:**

1. THIS IS NOT A PROPERTY LINE SURVEY. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A PARTIAL BOUNDARY SURVEY AND VERTICAL DATUM SURVEY
2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY SHOW ADDITIONAL CONVEYANCES, EASEMENTS, COVENANTS, RIGHTS-OF-WAYS OR MORE STRINGENT BUILDING RESTRICTION LINES NOT SHOWN HEREON.
3. THIS IS NOT A TOPOGRAPHICAL SURVEY. EXISTING PROPERTY LINES SHOWN HEREON WERE TAKEN FROM A COMBINATION OF EXISTING AERIAL TOPOGRAPHY, SITE RECORDS, AND MARYLAND DEPARTMENT OF PLANNING TAX MAP 21.

**FIGURE 3**  
SITE MAP  
FOR  
**CHESTERTOWN ARMORY**  
TAX MAP 44, GRID 1E, PARCEL 170  
KENT COUNTY, MARYLAND

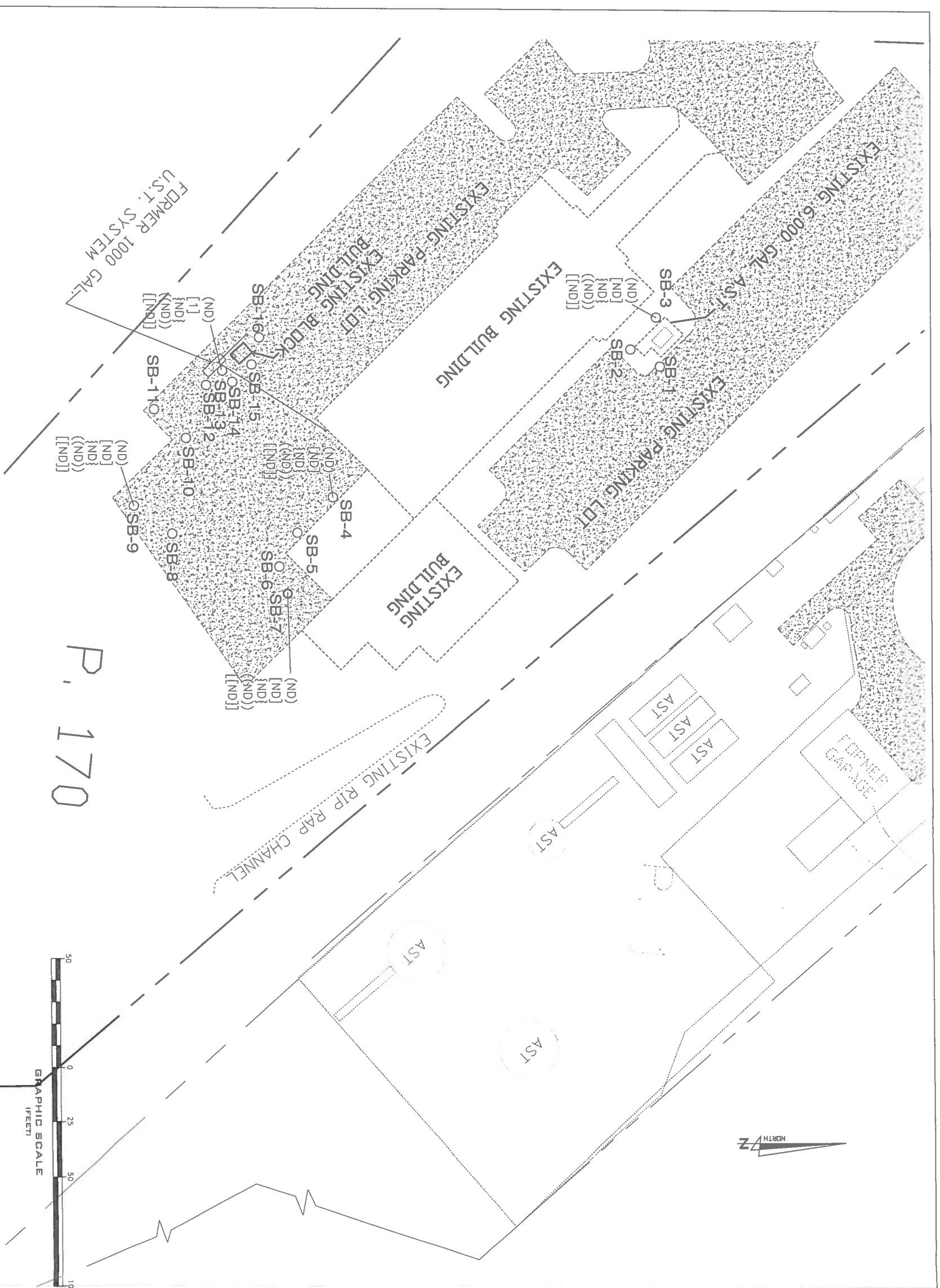
**Earth Data**  
INCORPORATED

**GROUNDWATER & ENVIRONMENTAL CONSULTANTS**

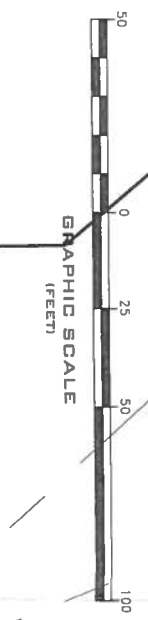
131 COMET DRIVE  
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Figure 3 - Site map showing soil boring locations at the Chestertown Armory Property, Chestertown, Maryland.





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PROD. MGR. A. BULLEN	SCALE: AS SHOWN	CADD FILE: 3982_V.DWG	BASE MAP: ED1
DRAWN BY: LKC	DATE: 08/26/2008	PROJECT: 3982	SURVEY BY: ED1

**EXPLANATION**

	EXISTING PROPERTY LINE
	EXISTING EDGE OF PAVE
	EXISTING BUILDING
	SOIL BORING LOCATION

**SB-11**

(10,000)	DISSOLVED BENZENE (ug/l)
[10,000]	DISSOLVED TOLUENE (ug/l)
{10,000}	DISSOLVED ETHYLBENZENE (ug/l)
((10,000))	DISSOLVED TOTAL XYLENES (ug/l)
[[10,000]]	DISSOLVED NAPHTHALENE (ug/l)
ND	NOT DETECTED
NS	NOT SAMPLED

**NOTE:**

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2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY SHOW ADDITIONAL CONVEYANCES, EASEMENTS, COVENANTS, RIGHTS-OF-WAYS OR MORE STRINGENT BUILDING RESTRICTION LINES NOT SHOWN HEREON.

3. THIS IS NOT A TOPOGRAPHICAL SURVEY. EXISTING PROPERTY LINES SHOWN HEREON WERE TAKEN FROM A COMBINATION OF EXISTING AERIAL TOPOGRAPHY, SITE RECORDS, AND MARYLAND DEPARTMENT OF PLANNING TAX MAP 21.

**FIGURE 4**

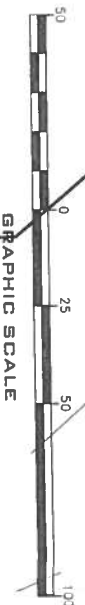
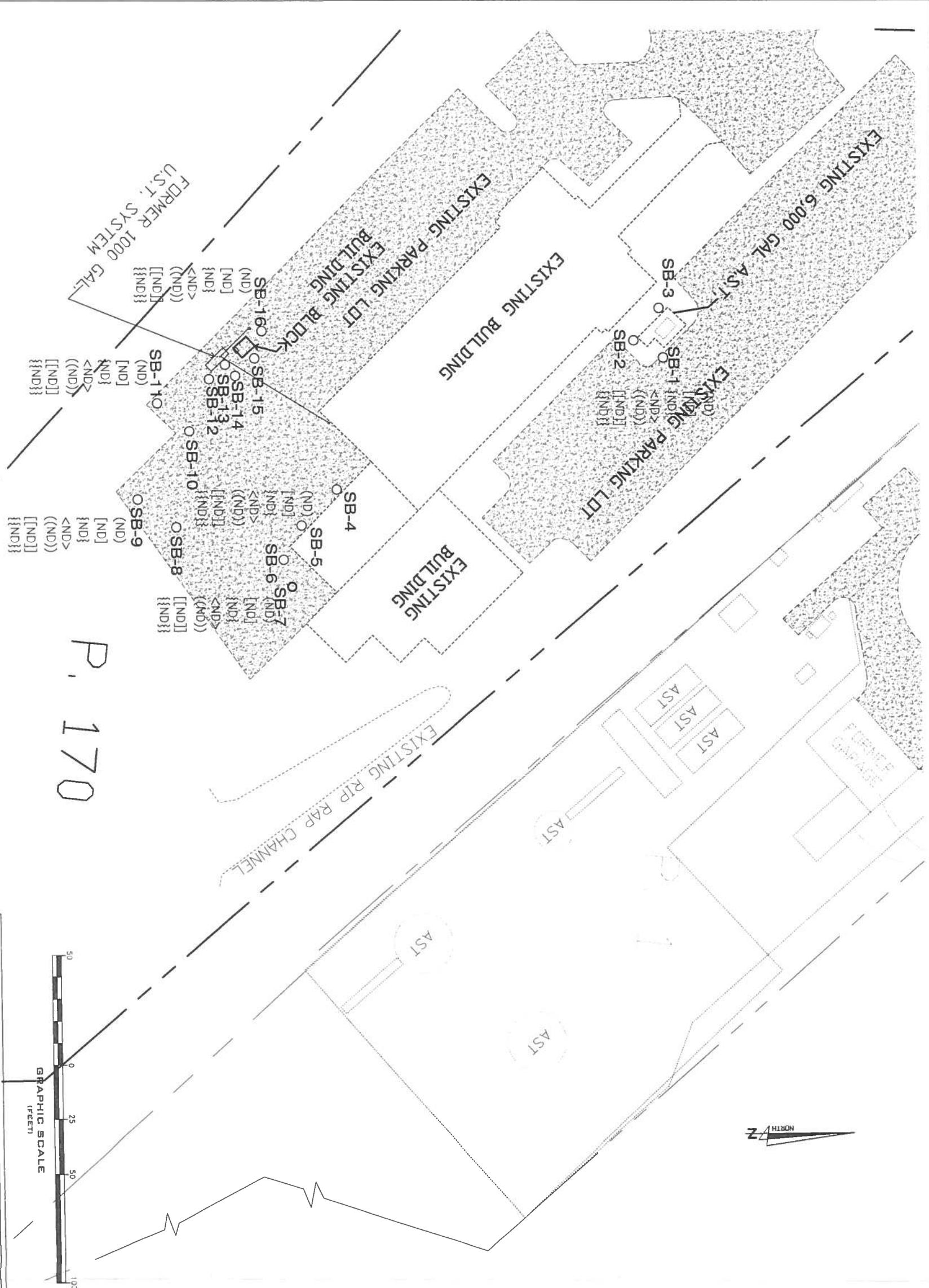
WATER QUALITY MAP  
FOR  
**CHESTERTOWN ARMORY**  
TAX MAP 44, GRID 1E, PARCEL 170  
KENT COUNTY, MARYLAND

**EarthData**  
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GROUNDWATER & ENVIRONMENTAL  
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Figure 4 – Site map showing dissolved Naphthalene, Benzene, Toluene, Ethylbenzene and Xylenes concentration at the Chestertown Armory Property, Chestertown, Maryland.



PROJ. MGR.	SCALE	CADD FILE	BASE MAP
A. BULLEN	AS SHOWN	3982_V0.dwg	EDI
DRAWN BY:	DATE	PROJECT	SURVEY BY:
LKC	08/26/2008	3982	EDI

EXPLANATION	
---	EXISTING PROPERTY LINE
- - -	EXISTING EDGE OF PAVE
---	EXISTING BUILDING
○	SOIL BORING LOCATION

SB-11	SOIL BORING LOCATION
(10,000)	NAPHTHALENE (ug/kg)
[10,000]	ETHYLBENZENE (ug/kg)
{10,000}	TOTAL XYLENES (ug/kg)
<10,000>	TOTAL BTEX (ug/kg)
((10,000))	ISOPROPYLBENZENE (ug/k)
[[10,000]]	TPH-DR0 (mg/kg)
[[10,000]]	TPH-GRO (mg/kg)
{10,000}	BELOW DETECTION LIMIT
BDL	NOT SAMPLED
NS	

**NOTE:**

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2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY SHOW ADDITIONAL CONVEYANCES, EASEMENTS, COVENANTS, RIGHTS-OF-WAYS OR MORE STRINGENT BUILDING RESTRICTION LINES NOT SHOWN HEREON.
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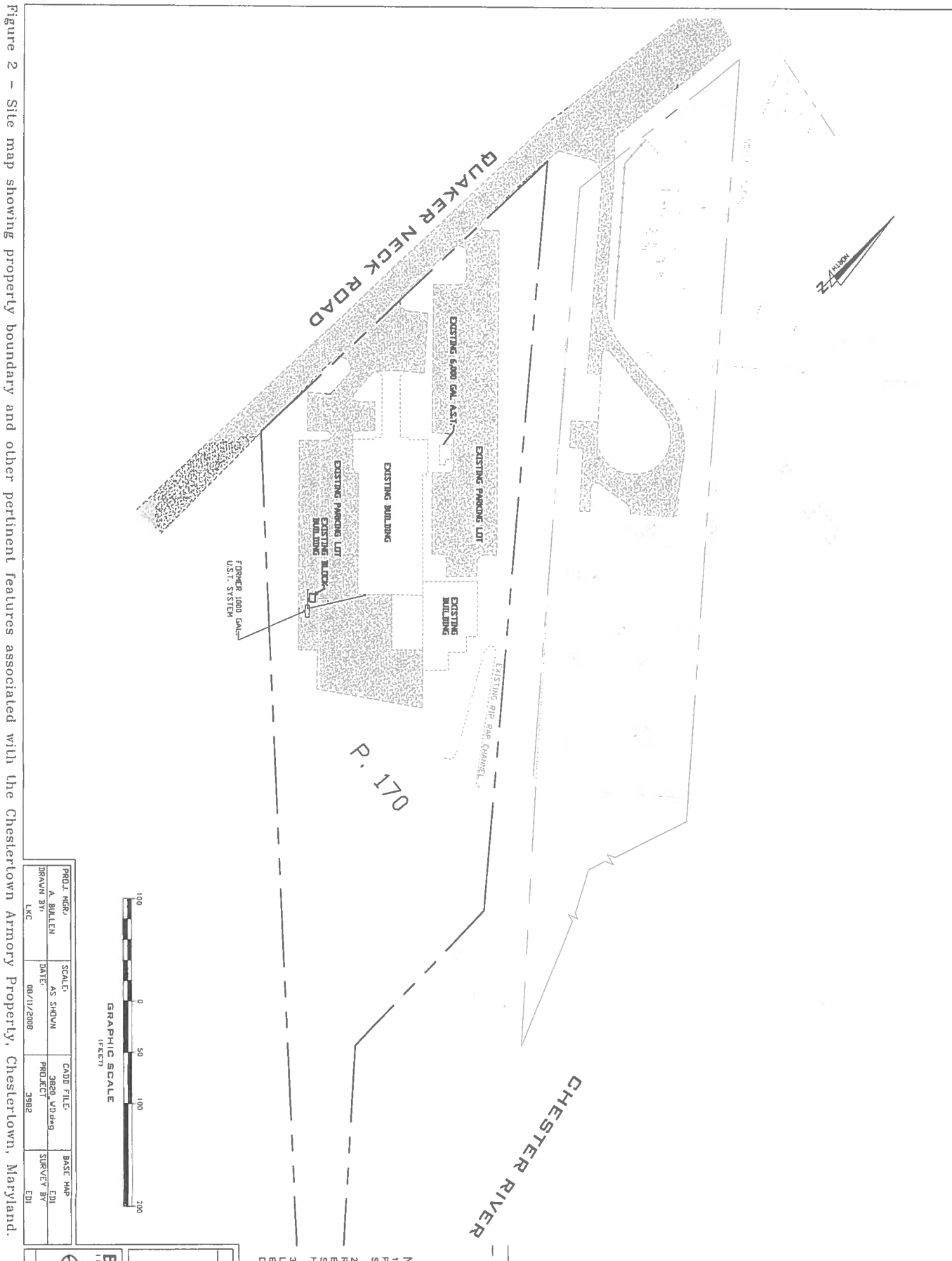
**FIGURE 5**  
SOIL QUALITY MAP  
FOR  
**CHESTERTOWN ARMORY**  
TAX MAP 44, GRID 1E, PARCEL 170  
KENT COUNTY, MARYLAND

**Earth Data**  
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CHESTERVILLE, MARYLAND 21517  
TEL: 410.258.8180 / FAX: 410.258.8158  
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Figure 5 - Site map showing Naphthalene, Ethylbenzene, Total Xylenes, Total BTEX, TPH-DR0 and TPH-GRO concentrations for grab soil samples collected from test borings at Chestertown Armory, Chestertown, Maryland.



**EXPLANATION**

--- PROPERTY BOUNDARY

--- EXISTING BUILDING

--- EXISTING PARKING LOT

--- EXISTING RIP RAP CHANNEL

--- FORMER 1000 GAL. U.S.T. SYSTEM

**NOTE:**

1. THIS IS NOT A PROPERTY LINE PREPARED WITHOUT THE BENEFIT OF A SURVEY AND VERTICAL DATUM.
2. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FEDERAL ACQUISITION REGULATORY GUIDE (FAR) PART 101-11.6, WHICH MAY SHOW ADJUSTMENTS TO THE PROPERTY BOUNDARY AND VERTICAL DATUM HEREON.
3. THIS IS NOT A TOPOGRAPHIC MAP. TOPOGRAPHIC LINES SHOWN HEREON WERE DERIVED FROM AN EXISTING AERIAL PHOTOGRAPHIC MAP PROVIDED BY THE U.S. ARMY CORPUS OF ENGINEERS, WASHINGTON, D.C. DEPARTMENT OF PLANNING AND CONSTRUCTION.

PROJ. MGR.	SCALE	CADD FILE	BASE MAP
A. BULLEN	AS SHOWN	3982_VD.dwg	ED1
DRAWN BY:	DATE:	PROJECT:	SURVEY BY:
LKC	08/11/2008	3982	ED1

**Earth Data**  
CORPORATION

**CHESTERTIC**

TAX MAP 44, OF  
KEHT COL

FIG 1  
SIT

GHOL

Figure 2 - Site map showing property boundary and other pertinent features associated with the Chestertown Army Property, Chestertown, Maryland.

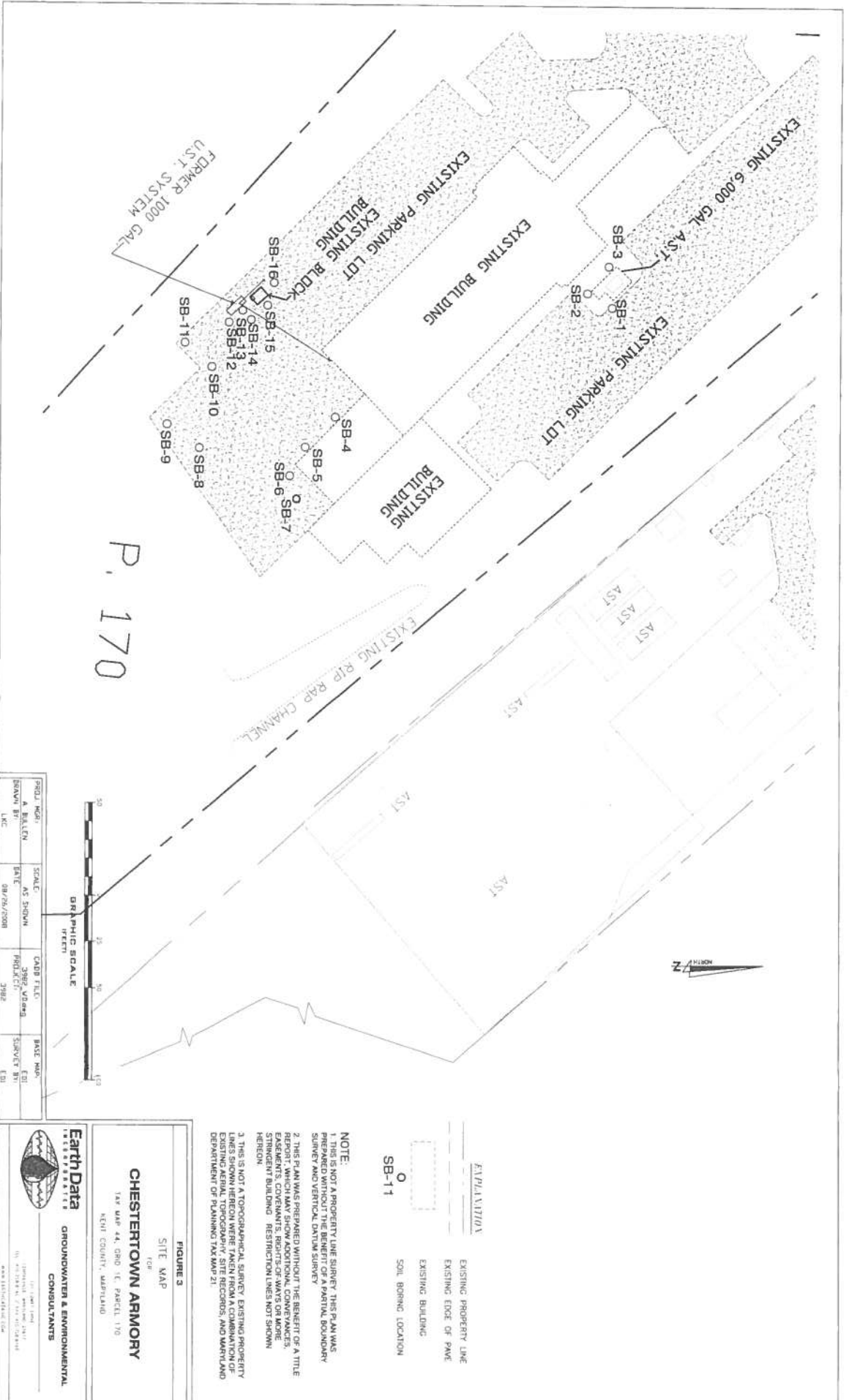


Figure 3 - Site map showing soil boring locations at the Chestertown Armory Property, Chestertown, Maryland.

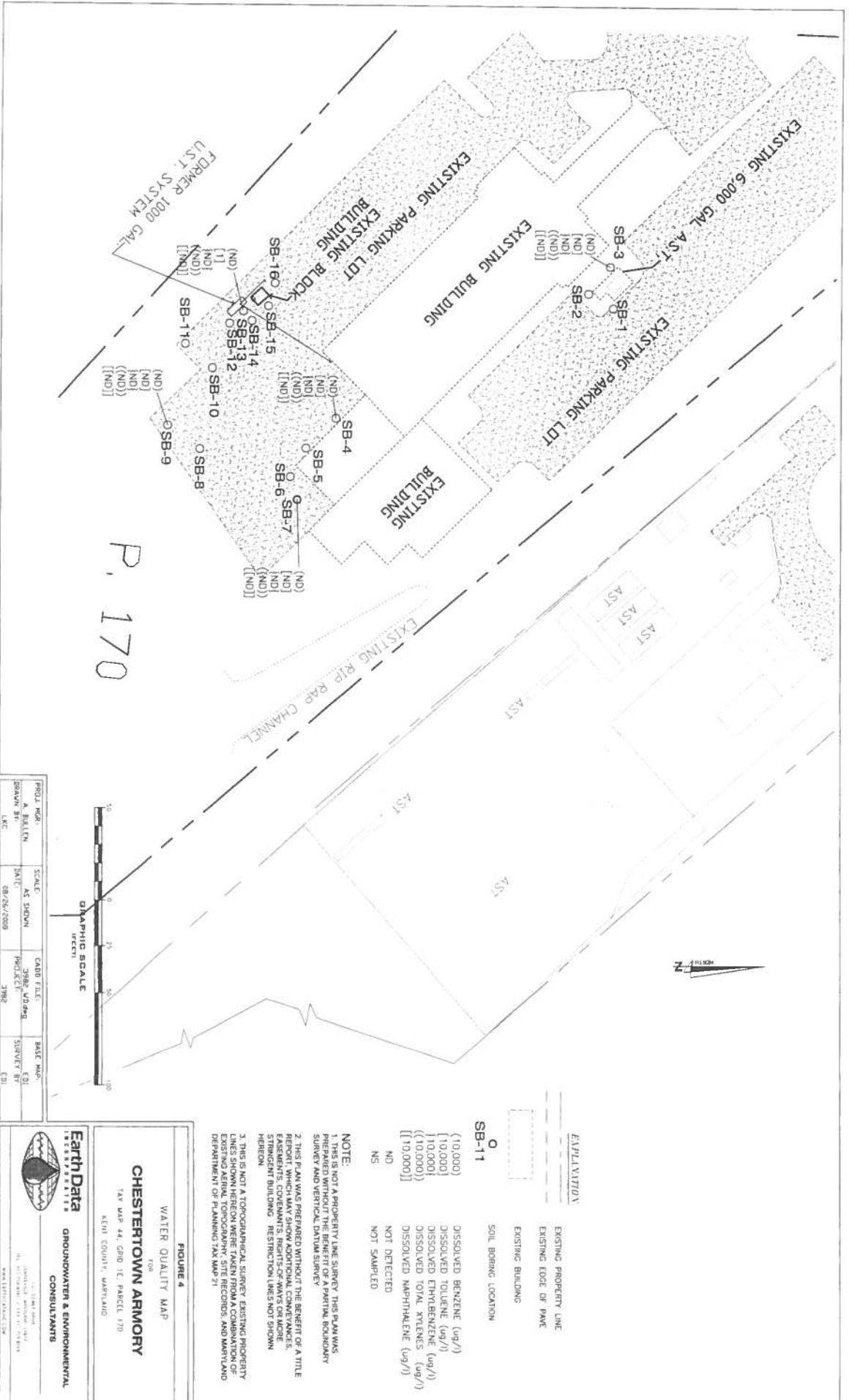
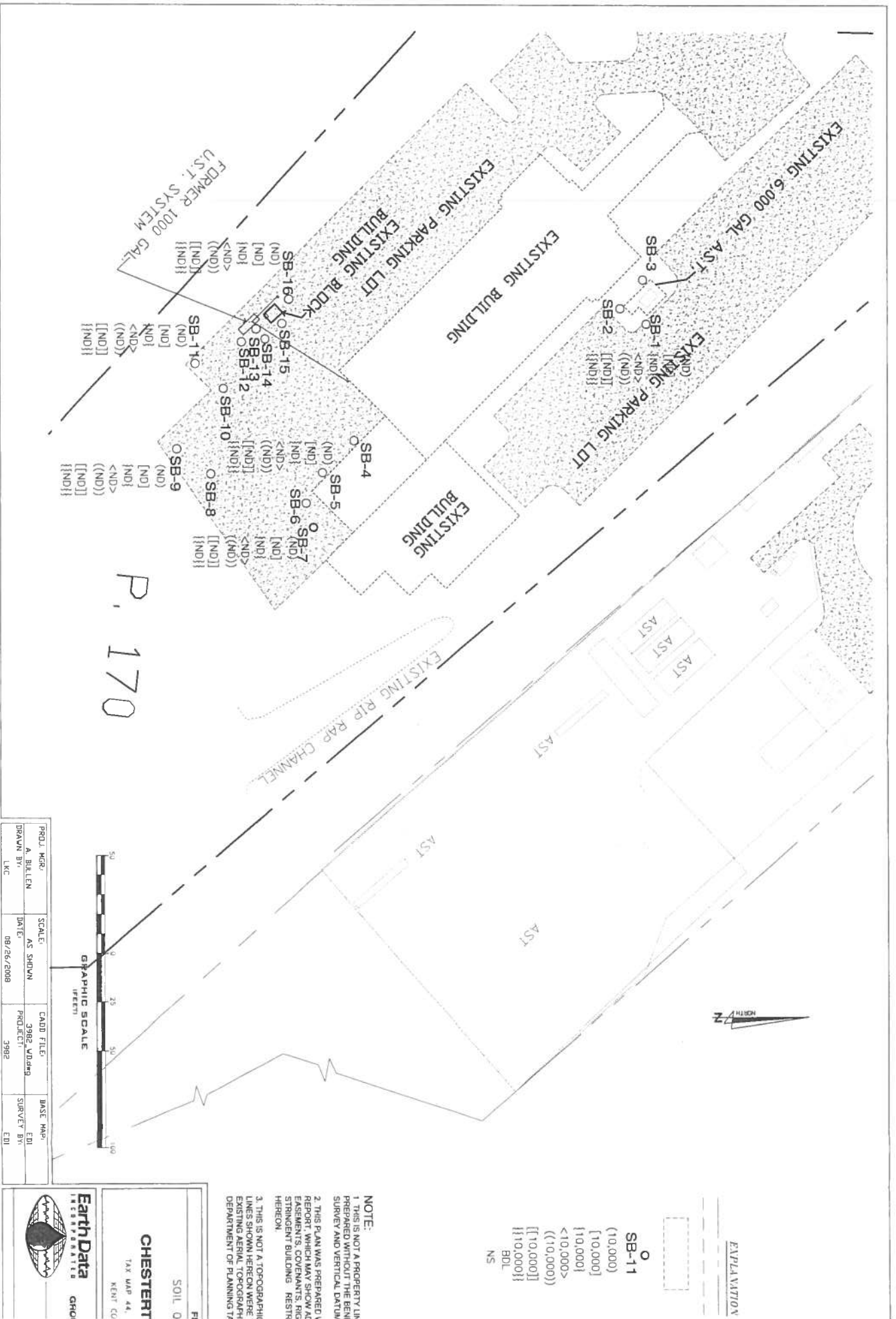


Figure 4 - Site map showing dissolved Naphthalene, Benzene, Toluene, Ethylbenzene and Xylenes concentration at the Chestertown Armory Property, Chestertown, Maryland.



Figure 5 - Site map showing Naphthalene, Ethylbenzene, Total Xylenes, Total BTEX, TPH-DR0 and TPH-GRO concentrations for grab soil samples collected from test Chestertown Armory, Chestertown, Maryland.



**APPENDIX A**  
**Earth Data Field Reports**

## FIELD DATA NOTES

EDI W.O. # 3982

DATE: August 8, 2008

PROJECT: Chestertown Armory

LOCATION: 509 Cross St., Chestertown, MD

EDI Personnel Onsite: T. Lee, R. Beam

Weather: 85° F, clear

T. Lee and R. Beam of Earth Data arrived onsite to conduct a limited subsurface investigation with the use of an Earthprobe® direct-push soil boring machine.

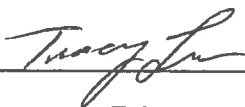
Three soil borings (SB-1, SB-2 and SB-3) were placed around the 6,000-gallon fuel oil AST located at the northeast corner of the Armory building. The AST replaced a 4,000-gallon UST removed from the same location. Two borings (SB-4 and SB-5) were placed in front of the service bays to the maintenance garage at the east end of the Armory building. Two borings (SB-6 and SB-7) were placed outside the southeast wall of the maintenance garage. Four borings (SB-8, SB-9, SB-10 and SB-11) were placed southeast of the building in the asphalt/stone-covered area where vehicles were stored. Each soil boring was made to a depth of 8.0 feet below ground surface (bgs). In the area of the AST, the water table was encountered at 4.0 to 4.5 feet bgs, depending on the location. In the soil borings at the southeast end of the property, the water table was encountered at 3.0 to 4.0 feet bgs, depending on the location.

Soils encountered in each borehole were described in the field and screened with an OVM-PID for organic vapors. No organic vapors were detected in the soils encountered in any of the boreholes. A soil sample was collected from five boreholes (SB-1, SB-5, SB-7, SB-9 and SB-11) at a depth just above the water table. Soil samples were placed in laboratory-supplied sample containers, labeled and immediately set on ice in the field.

Temporary piezometers were placed in four of the boreholes (SB-3, SB-4, SB-7 and SB-9) in order to collect groundwater samples for laboratory analysis. Groundwater in each piezometer was pumped with a peristaltic pump until it pumped clear, at which time, a groundwater sample was collected. Groundwater samples were placed in laboratory-supplied sample containers, labeled and immediately set on ice in the field.

After the piezometers were removed, the soils from each borehole were placed back into the hole and sealed with granular bentonite. A site sketch was made showing the locations of the soil borings in relation to the building and other features at the site. Photographic documentation of the site was also completed. Soil and groundwater samples were subsequently sent via courier to an EPA-approved laboratory for analysis.

Signed: \_\_\_\_\_



T. Lee  
Environmental Scientist

## FIELD DATA NOTES

**EDI W.O. # 3178**

**DATE:** August 13, 2008

**PROJECT:** Chestertown Armory

**LOCATION:** 509 Cross Street, Chestertown, MD

Time: 0900

EDI Personnel onsite: A. Bullen, T. Lee

Met with: Joseph Gutierrez, Maryland Army National Guard  
Larry Leone, Maryland Army National Guard  
William Ingersoll, Town of Chestertown

Earth Data personnel met onsite with Maryland Army National Guard representatives to tour the building for the purpose of a visual inspection for possible environmental concerns. With the exception of the vault and Room # 114, both of which were locked, the entire building was inspected. During the inspection, no evidence was found of fuel tank monitoring, vent pipes or remote fills. There were no signs of improper waste management or hazardous waste. According to Mr. Gutierrez, a Conex storage trailer located outside the south wall of the garage was used to store any hazardous waste generated by the operation and maintenance of the facility and vehicles (used motor oil, antifreeze, etc.). Mr. Gutierrez and Mr. Leone could not recall exactly where the USTs were located, but suggested they may have been at the location of the wash station west of the building. The USTs were apparently removed sometime in the 1980s and the wash station was installed in the 1990s. Mr. Gutierrez said that he would look for original blueprints to the site and would also get contact information for the former commanders of the facility.

Mr. Ingersoll arrived after the site inspection was completed. Photographic documentation of the inspection was made during the tour.

Signed: \_\_\_\_\_

A. Bullen  
Senior Project Manager

## FIELD DATA NOTES

EDI W.O. # 3982

DATE: September 29, 2008

PROJECT: Chestertown Armory

LOCATION: 509 Cross St., Chestertown, MD

EDI Personnel Onsite: T. Lee, R. Beam, A. Bullen

Weather: 80° F, clear

Earth Data personnel arrived onsite to conduct a further subsurface investigation from that performed on August 8, 2008. With the use of an Earthprobe® direct-push soil boring machine, five additional soil borings were placed in the area of the small block building identified as "POC" southwest of the Armory building. Through conversations with National Guard personnel, it was determined that this is the general location of a former UST at the site.

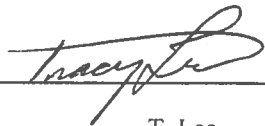
Three soil borings (SB-12, SB-13 and SB-14) were placed southeast of the "POC", one boring, SB-15, was placed east of the "POC" and one boring, SB-16, was placed northwest of the "POC". Each of the five soil borings was made to a depth of 8.0 feet below ground surface (bgs). The water table was encountered at 4.0 feet bgs.

Soils encountered in each borehole were described in the field and screened with an OVM-PID for organic vapors. No organic vapors were detected in the soils encountered in any of the boreholes. A soil sample was collected from SB-16 at a depth just above the water table. The soil sample was placed in a laboratory-supplied sample container, labeled and immediately set on ice in the field.

A temporary piezometers was placed in SB-13 in order to collect a groundwater sample for laboratory analysis. Groundwater in the piezometer was pumped with a peristaltic pump until it pumped clear, at which time, a groundwater sample was collected. The groundwater sample was placed in laboratory-supplied sample containers, labeled and immediately set on ice in the field.

The soils from each borehole were placed back into the hole and sealed with granular bentonite. A site sketch was made showing the locations of the soil borings in relation to the building and other features at the site. Soil and groundwater samples were subsequently sent via courier to an EPA-approved laboratory for analysis.

Signed: \_\_\_\_\_



T. Lee  
Environmental Scientist



**APPENDIX B**  
**Soil Boring Logs**

Project:		Earth Data Sample Number		SB-1	
W.O.:		Described By		T. Lee, R. Beam	
		Date Described		August 8, 2008	
Detailed Description of Cuttings		Type Material		Special Features	
CHESTERTOWN ARMY 509 S. Cross St. Chestertown, Maryland 3982 Soil Boring I.D.: SB-1		Type Material		Special Features	
DEPTH INTERVAL		SIZE		CONCENTRATION	
FROM	TO	COLOR	SIZE	SPECIAL FEATURES	CONCENTRATION
0	0.5	tan	fine		0 ppm throughout
0.5	1.0	tan	fine-med		
1.0	4.5	brown-tan	fine-med	soil sample collected at 4.0 ft	
4.5	6.0	brown-tan	fine-med		
6.0	8.0	tan-gray	fine-med		

Project:		Earth Data Sample Number		n/a	
W.O.:		Described By		T. Lee, R. Beam	
		Date Described		August 8, 2008	
Detailed Description of Cuttings		Type Material		Special Features	
CHESTERTOWN ARMY 509 S. Cross St. Chestertown, Maryland 3982 Soil Boring I.D.: SB-2		Type Material		Special Features	
DEPTH INTERVAL		SIZE		CONCENTRATION	
FROM	TO	COLOR	SIZE	SPECIAL FEATURES	CONCENTRATION
0	0.5	tan	fine		0 ppm throughout
0.5	1.0	tan	fine-med		
1.0	4.5	brown-tan	fine-med	soil sample collected at 4.0 ft	
4.5	4.8				
4.8	7.5	tan-brown	med-coarse	wet at 4.5 ft	
7.5	8.0	tan-brown	fine		

Project: Chestertown Armory 509 S. Cross St. Chestertown, Maryland 3982		Earth Data Sample Number GW-1 Described By T. Lee, R. Beam Date Described August 8, 2008		DETAILED DESCRIPTION OF CUTTINGS		SPECIAL FEATURES		CONCENTRATION	
W.O.: Soil Boring I.D.: SB-3		Soil Boring I.D.: SB-3		TYPE MATERIAL		SPECIAL FEATURES		CONCENTRATION	
DEPTH INTERVAL FROM TO	COLOR	SIZE	TYPE MATERIAL	SPECIAL FEATURES	CONCENTRATION				
0 1.0	brown	fine-med	silty sand w/ some stone gravel/stone		0 ppm throughout				
1.8 3.5	brown-tan tan	fine-med fine-course	silty sand sand	wet at 4.5 ft					
				groundwater sample collected					

Project: Chestertown Armory 509 S. Cross St. Chestertown, Maryland 3982		Earth Data Sample Number GW-2 Described By T. Lee, R. Beam Date Described August 8, 2008		DETAILED DESCRIPTION OF CUTTINGS		SPECIAL FEATURES		CONCENTRATION	
W.O.: Soil Boring I.D.: SB-4		Soil Boring I.D.: SB-4		TYPE MATERIAL		SPECIAL FEATURES		CONCENTRATION	
DEPTH INTERVAL FROM TO	COLOR	SIZE	TYPE MATERIAL	SPECIAL FEATURES	CONCENTRATION				
0 0.5			asphalt silty sand		0 ppm throughout				
1.0 1.8	tan-orange dk. brown-dk. gray	fine-med fine-med	silty sand silty sand						
3.5 6.0	brown-tan tan-gray	fine-med med	silty sand silty sand	wet at 3.5 ft					
6.0 7.2	brown-orange tan	med-course fine	sand sand						
7.2 8.0				groundwater sample collected					

Project:		Chesterdown Armory		Earth Data Sample Number SB-5	
W.O.:		509 S. Cross St. Chesterdown, Maryland 3982 Soil Boring I.D.: SB-5		Described By T. Lee, R. Beam Date Described August 8, 2008	
DETAILED DESCRIPTION OF CUTTINGS		TYPE MATERIAL		SPECIAL FEATURES	
DEPTH INTERVAL FROM	TO	COLOR	SIZE		CONCENTRATION
0	0.5			asphalt	0 ppm throughout
0.5	1.0			gravel/stone	
1.0	6.0	dk. brown- dk. gray	fine-med	silty sand	wet at 3.5 ft
6.0	8.0	tan	fine-course	sand	soil sample collected at 3.5 ft

Project:		Chesterdown Armory		Earth Data Sample Number n/a	
W.O.:		509 S. Cross St. Chesterdown, Maryland 3982 Soil Boring I.D.: SB-6		Described By T. Lee, R. Beam Date Described August 8, 2008	
DETAILED DESCRIPTION OF CUTTINGS		TYPE MATERIAL		SPECIAL FEATURES	
DEPTH INTERVAL FROM	TO	COLOR	SIZE		CONCENTRATION
0	1.0			asphalt/stone/gravel	0 ppm throughout
1.0	2.5	dk. brown	fine-med	silty sand	
2.5	3.5	brown-tan	fine-med	silty sand	
3.5	4.0	brown-tan	fine-med	sand	wet at 3.5 ft
4.0	4.3	black	coarse	burnt debris and gravel	stained
4.3	6.5	brown-tan	fine-med	sand	
6.5	8.0	brown-tan	med-course	sand	

Project:		Earth Data Sample Number		SPECIAL FEATURES	CONCENTRATION
W.O.:		Described By			
Chestertown Armory 509 S. Cross St, Chestertown, Maryland 3982 Soil Boring I.D.: SB-7		SB-7, GW-3 T. Lee, R. Beam August 8, 2008			
DETAILED DESCRIPTION OF CUTTINGS		TYPE MATERIAL			
SIZE		COLOR			
DEPTH INTERVAL					
FROM	TO				
0	1.0	brown	fine-med		0 ppm throughout
1.0	3.5	brown-tan	fine-med	wet at 3.0 ft	
3.5	5.5	brown-tan	fine	soil sample collected at 3.0 ft	
5.5	8.0	brown-tan	med-coarse		
				groundwater sample collected	

Project:		Earth Data Sample Number		SPECIAL FEATURES	CONCENTRATION
W.O.:		Described By			
Chestertown Armory 509 S. Cross St, Chestertown, Maryland 3982 Soil Boring I.D.: SB-8		n/a T. Lee, R. Beam August 8, 2008			
DETAILED DESCRIPTION OF CUTTINGS		TYPE MATERIAL			
SIZE		COLOR			
DEPTH INTERVAL					
FROM	TO				
0	2.0	dk. brown	med-coarse		0 ppm throughout
2.0	4.0	dk. brown-black	fine-med		
4.0	6.5	dk. brown-gray	fine-med	wet at 4.0 ft	
6.5	7.0	dk. gray	med		
7.0	8.0	tan-brown	med-coarse		



Project: Chestertown Armory 509 S. Cross St, Chestertown, Maryland 3982 Soil Boring I.D.: SB-9			Earth Data Sample Number SB-9, GW-4 Described By T. Lee, R. Beam Date Described August 8, 2008			DETAILED DESCRIPTION OF CUTTINGS		
DEPTH INTERVAL		COLOR	SIZE	TYPE MATERIAL	SPECIAL FEATURES	CONCENTRATION		
FROM	TO							
0	2.0	dk. brown	med-course	silty sand w/ stone and gravel		0 ppm throughout		
2.0	4.5	brown-tan	fine-med	silty sand	wet at 3.5 ft			
4.5	7.5	tan-gray	med	sand	soil sample collected at 3.5 ft			
7.5	8.0	tan	med-course	sand	groundwater sample collected			

Project: Chestertown Armory 509 S. Cross St, Chestertown, Maryland 3982 Soil Boring I.D.: SB-10			Earth Data Sample Number n/a Described By T. Lee, R. Beam Date Described August 8, 2008			DETAILED DESCRIPTION OF CUTTINGS		
DEPTH INTERVAL		COLOR	SIZE	TYPE MATERIAL	SPECIAL FEATURES	CONCENTRATION		
FROM	TO							
0	1.0			asphalt/stone/gravel		0 ppm throughout		
1.0	2.0	dk. gray	fine-med	silty sand				
2.0	4.0	lt. gray	fine-med	silty sand w/ clay	wet at 3.5 ft			
4.0	6.0	tan-gray	med	sand				
6.0	7.0	tan	med	sand				
7.0	8.0	tan	fine	sand				

Project:		Chestertown Armory		Earth Data Sample Number		SB-11	
W.O.:		509 S. Cross St, Chestertown, Maryland 3982 Soil Boring I.D.: SB-11		Described By		T. Lee, R. Beam	
				Date Described		August 8, 2008	
DETAILED DESCRIPTION OF CUTTINGS				TYPE MATERIAL			
DEPTH INTERVAL		COLOR		SIZE		SPECIAL FEATURES	
FROM	TO						CONCENTRATION
0	1.0						0 ppm throughout
1.0	1.6	brown		fine-med	asphalt/stone/gravel		
1.6	1.7	black		med-coarse	silty sand		
1.7	2.0	brown		fine-med	silty sand w/ burnt debris		
2.0	3.3	brown-gray		fine-med	silty sand		
3.3	4.0	tan-gray		fine-med	silty sand	soil sample collected at 3.5 ft	
4.0	6.5	tan-gray		fine-med	silty sand	wet at 3.5 ft	
6.5	7.0	dk. gray		fine-med	sand		
7.0	8.0	tan-gray		fine-med	sand		

Project:		Earth Data Sample Number		n/a	
W.O.:		Described By		T. Lee	
3982		Date Described		September 29, 2008	
Chestertown Armory 509 S. Cross St, Chestertown, Maryland Soil Boring I.D.: SB-12		DETAILED DESCRIPTION OF CUTTINGS		CONCENTRATION	
DEPTH INTERVAL		TYPE MATERIAL		SPECIAL FEATURES	
FROM	TO	TYPE MATERIAL		SPECIAL FEATURES	
0	0.5	asphalt		0 ppm throughout	
0.5	1.0	fine-med			
1.0	1.5	brown silty sand and stones			
1.5	2.5	black-dk. gray sandy silt			
2.5	4.0	dk. gray silty clay			
4.0	5.3	dk. gray silty sand w/ some clay		wet at 4.0 ft	
5.3	6.2	dk. gray silty sand			
6.2	7.0	brown-dk. gray sand and gravel			
7.0	8.0	tan sand and gravel			
		tan sand			

Project:		Earth Data Sample Number		GW-5	
W.O.:		Described By		T. Lee	
3982		Date Described		September 29, 2008	
Chestertown Armory 509 S. Cross St, Chestertown, Maryland Soil Boring I.D.: SB-13		DETAILED DESCRIPTION OF CUTTINGS		CONCENTRATION	
DEPTH INTERVAL		TYPE MATERIAL		SPECIAL FEATURES	
FROM	TO	TYPE MATERIAL		SPECIAL FEATURES	
0	0.5	asphalt		0 to 4.0 ft compressed to 2.0 ft	
0.5	1.0	brown silty sand and stones			
1.0	1.2	black burnt material			
1.2	4.0	dk. gray silty sand w/ some clay			
4.0	5.3	dk. gray silty sand		wet at 4.0 ft	
5.3	6.2	brown-dk. gray sand and gravel			
6.2	7.0	tan sand and gravel			
7.0	8.0	tan sand		groundwater sample collected	







**APPENDIX C**

**Photographic Documentation**



Photo 1 – View of the front entrance to the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 2 – View from the northwest showing the 6,000-gallon AST located at the northeast corner of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.

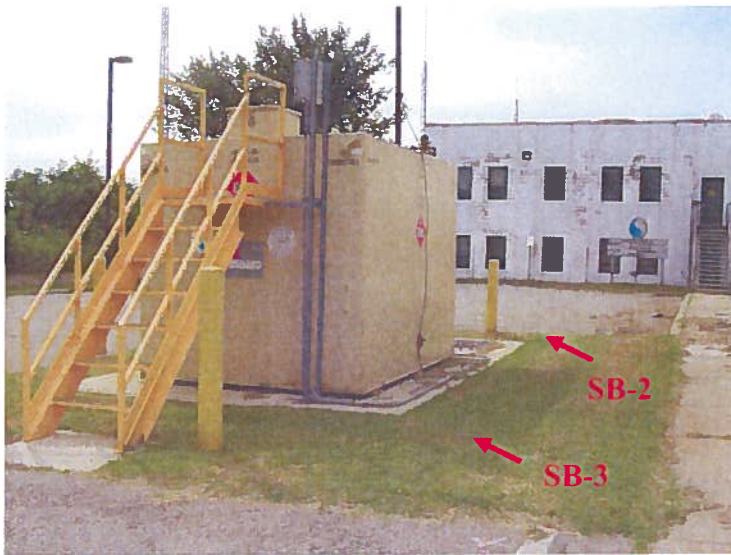


Photo 3 – View from the west showing the 6,000-gallon AST located at the northeast corner of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-2 and SB-3 are identified in the photo.

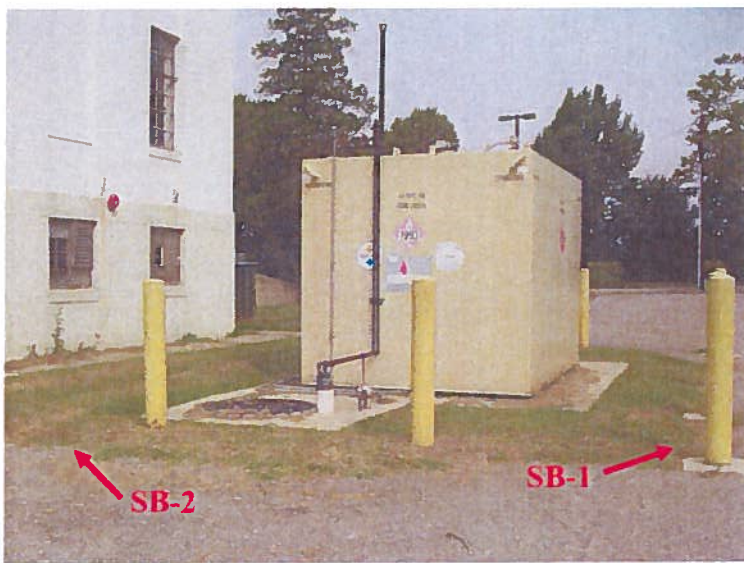


Photo 4 - View from the east showing the 6,000-gallon AST located at the northeast corner of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-1 and SB-2 are identified in the photo.



Photo 5 – View from the west of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.





Photo 6 – View from the west showing the Chestertown Armory property on the south side of the armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 7 – View from the east showing the Chestertown Armory property on the south side of the armory building located at 509 Cross Street in Chestertown, Maryland.

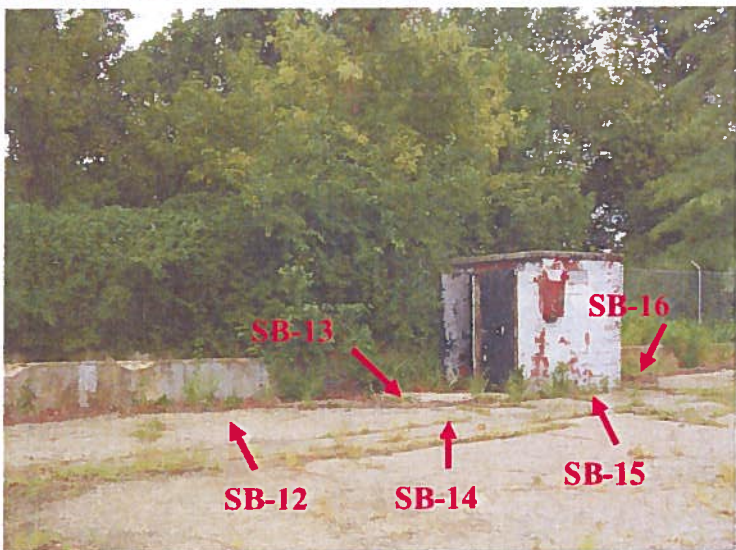


Photo 8 – View from the northeast showing the small block building identified as “POC” along the south edge of the Chestertown Armory property located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-12, SB-13, SB-14, SB-15 and SB-16 are identified.



Photo 9 – View from the west showing the southeast corner of the Chestertown Armory property located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-9, SB-10 and SB-11 are identified in the photo. SB-8 is outside the borders of this photo to the left of SB-9.



Photo 10 - View from the southeast showing the maintenance garage portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-4 and SB-5 are identified in the photo.





Photo 11 – View from the southeast showing the east wall of the maintenance garage portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland. Soil borings SB-6 and SB-7 are identified in the photo.

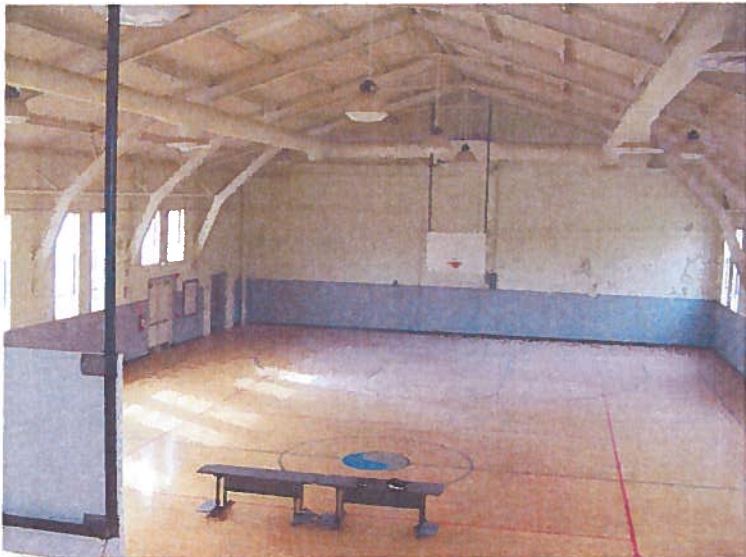


Photo 12 – Inside view of the main portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 13 – Inside view of the main portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 14 – View of the former shooting range inside the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.

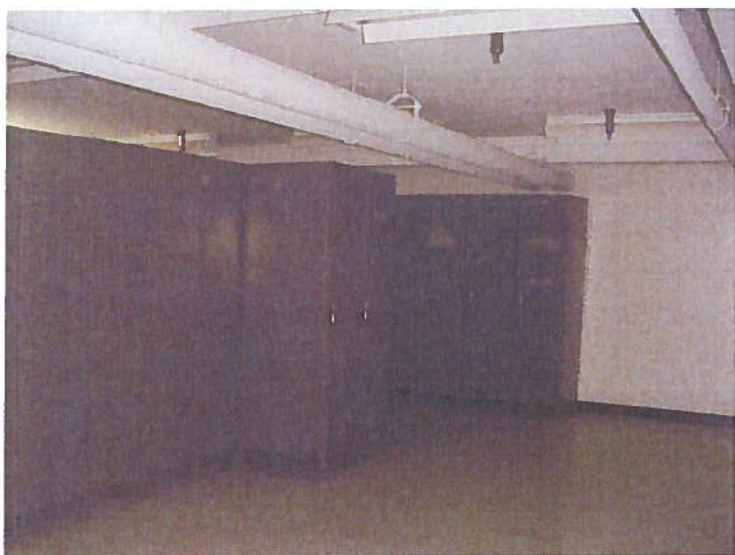


Photo 15 – View of a typical room inside the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.





Photo 16 – Under a stairwell inside the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 17 – Typical hallway view inside the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland. The vault is along the left wall in the photo.



Photo 18 – View of the air compressor in the boiler room of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.

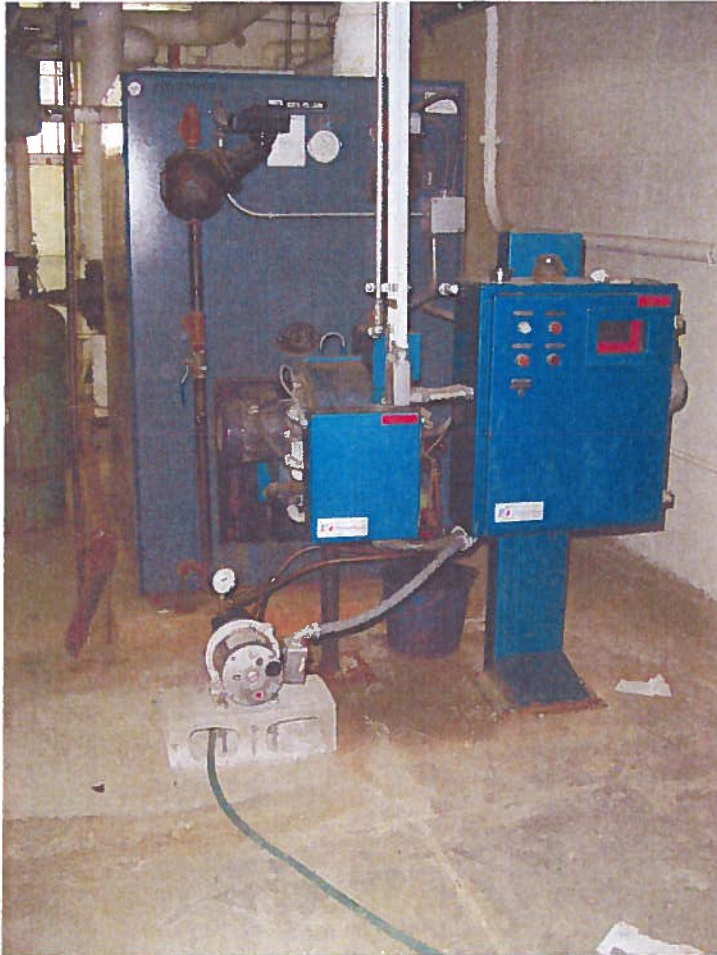


Photo 19 – Boiler unit for the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 20 – Close-up view of the boiler unit for the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.





Photo 21 – View of the circulation pumps inside the boiler room of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.

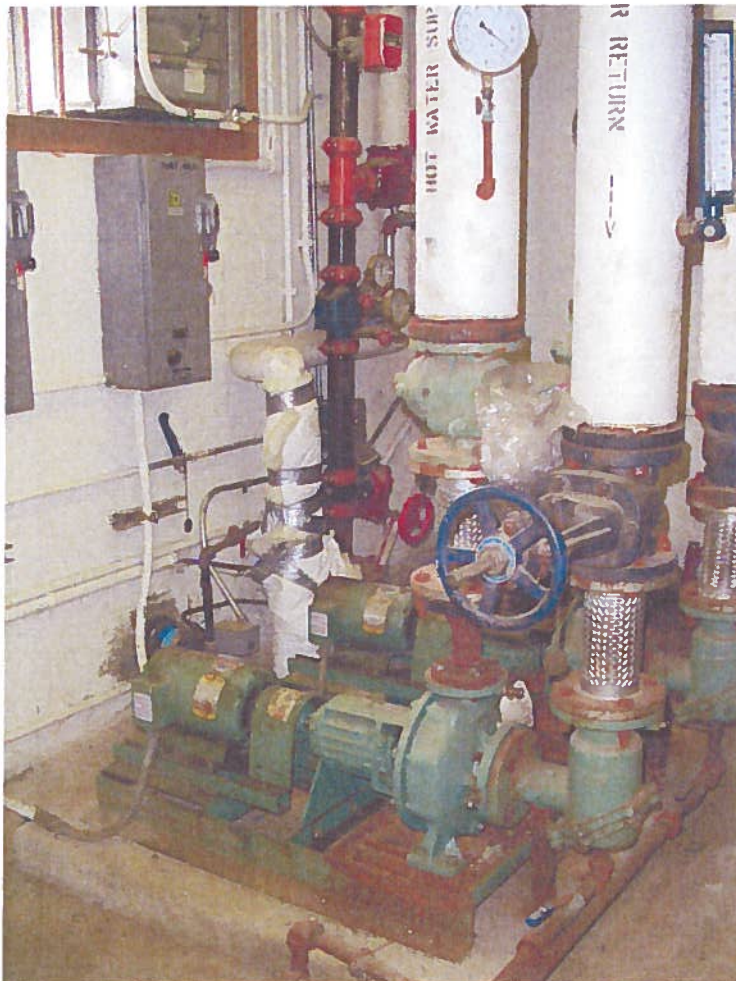


Photo 22 – View of the circulation pumps inside the boiler room of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 23 – Inside view of the maintenance garage portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 24 – Inside view of the maintenance garage portion of the Chestertown Armory building located at 509 Cross Street in Chestertown, Maryland.



Photo 25 – Inside view of the small block building identified as “POC” along the south edge of the Chestertown Armory property located at 509 Cross Street in Chestertown, Maryland.

**APPENDIX D**

**Laboratory Analytical Reports**

# Analytical Report for

Earth Data, Inc

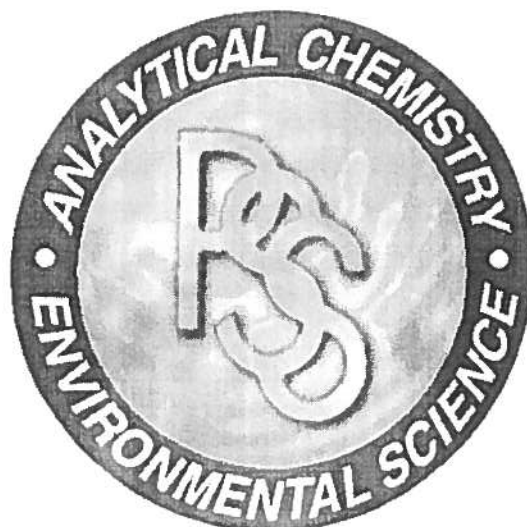
Certificate of Analysis No.: 8081108

Project Manager: Andrew Bullen

Project Name : Chestertown Armory

Project Location: Chestertown, Maryland

Project ID : 3982



August 18, 2008

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

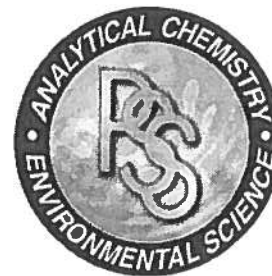
Phone: (410) 747-8770

Fax: (410) 788-8723



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PIKE  
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BALTIMORE, MD 21228  
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800-932-9047

PHASE  
SEPARATION  
SCIENCE,  
INC.



August 18, 2008

**Andrew Bullen**  
**Earth Data, Inc**  
131 Comet Drive  
Centerville, MD 21617

Reference: PSS Work Order No: **8081108**  
Project Name : Chestertown Armory  
Project Location: Chestertown, Maryland  
Project ID.: 3982

Dear Andrew Bullen :

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 **8081108**.

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 September 15, 2008. 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).

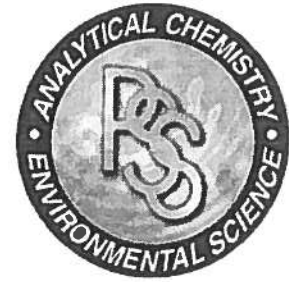
A handwritten signature in black ink, appearing to read "John Richardson", written over a horizontal line.

**John Richardson**  
Laboratory Director



OFFICES:  
 6630 BALTIMORE NATIONAL PIKE  
 ROUTE 40 WEST  
 BALTIMORE, MD 21228  
 410-747-8770  
 800-932-9047  
 FAX 410-788-8723

# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 18, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: **GW-1**  
 Matrix: **WATER**

Date/Time Sampled: 08/08/2008 00:00    PSS Sample ID: 8081108-001  
 Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

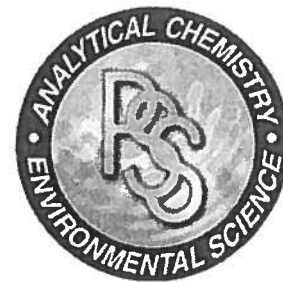
Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Chloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Vinyl Chloride	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Bromomethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Chloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Acetone	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
Cyclohexane	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
Trichlorofluoromethane	ND	ug/L	5		1	08/13/08	08/13/08 23:16	1011
1,1-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Methylene Chloride	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Methyl-t-butyl ether	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,1-Dichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
2-Butanone (MEK)	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Bromochloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Chloroform	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,2-Dichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Carbon Tetrachloride	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Benzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,2-Dichloropropane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Methyl Acetate	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
Methylcyclohexane	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
Trichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Carbon Disulfide	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
Bromodichloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	08/13/08	08/13/08 23:16	1011

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 800-932-9047  
 FAX 410-788-8723

# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 18, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: **GW-1**  
 Matrix: **WATER**

Date/Time Sampled: 08/08/2008 00:00    PSS Sample ID: 8081108-001  
 Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Toluene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
2-Hexanone	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Dibromochloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Bromoform	ND	ug/L	5		1	08/13/08	08/13/08 23:16	1011
Tetrachloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Chlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Ethylbenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
m,p-Xylenes	ND	ug/L	2		1	08/13/08	08/13/08 23:16	1011
Styrene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
o-Xylene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Isopropylbenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,3-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,4-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,2-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	08/13/08	08/13/08 23:16	1011
1,2,4-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
Naphthalene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011
1,2,3-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:16	1011

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## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 18, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: **GW-2**  
 Matrix: **WATER**

Date/Time Sampled: **08/08/2008 00:00** PSS Sample ID: **8081108-002**  
 Date/Time Received: **08/11/2008 14:55**

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Chloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Vinyl Chloride	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Bromomethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Chloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Acetone	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
Cyclohexane	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
Trichlorofluoromethane	ND	ug/L	5		1	08/13/08	08/13/08 23:43	1011
1,1-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Methylene Chloride	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Methyl-t-butyl ether	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,1-Dichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
2-Butanone (MEK)	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Bromochloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Chloroform	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,2-Dichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Carbon Tetrachloride	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Benzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,2-Dichloropropane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Methyl Acetate	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
Methylcyclohexane	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
Trichloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Carbon Disulfide	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
Bromodichloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	08/13/08	08/13/08 23:43	1011

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CERTIFICATE OF ANALYSIS

No: 8081108

Earth Data, Inc, Centerville, MD

August 13, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: GW-2

Date/Time Sampled: 08/08/2008 00:00

PSS Sample ID: 8081108-002

Matrix: WATER

Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Toluene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
2-Hexanone	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Dibromochloromethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Bromoform	ND	ug/L	5		1	08/13/08	08/13/08 23:43	1011
Tetrachloroethene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Chlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Ethylbenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
m,p-Xylenes	ND	ug/L	2		1	08/13/08	08/13/08 23:43	1011
Styrene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
o-Xylene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Isopropylbenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,3-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,4-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,2-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	08/13/08	08/13/08 23:43	1011
1,2,4-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
Naphthalene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011
1,2,3-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/13/08 23:43	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: GW-3  
 Matrix: WATER

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-003  
 Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Chloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Vinyl Chloride	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Bromomethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Chloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Acetone	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
Cyclohexane	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
Trichlorofluoromethane	ND	ug/L	5		1	08/13/08	08/14/08 00:11	1011
1,1-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Methylene Chloride	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Methyl-t-butyl ether	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,1-Dichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
2-Butanone (MEK)	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Bromochloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Chloroform	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,2-Dichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Carbon Tetrachloride	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Benzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,2-Dichloropropane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Methyl Acetate	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
Methylcyclohexane	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
Trichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Carbon Disulfide	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
Bromodichloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	08/13/08	08/14/08 00:11	1011

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CERTIFICATE OF ANALYSIS

No: 8081108

Earth Data, Inc., Centerville, MD

August 19, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: GW-3

Date/Time Sampled: 08/08/2008 00:00

PSS Sample ID: 8081108-003

Matrix: WATER

Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

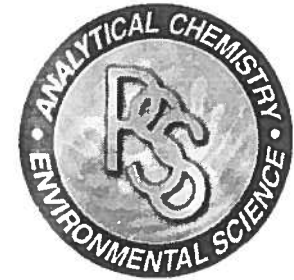
Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Toluene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
2-Hexanone	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Dibromochloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Bromoform	ND	ug/L	5		1	08/13/08	08/14/08 00:11	1011
Tetrachloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Chlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Ethylbenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
m,p-Xylenes	ND	ug/L	2		1	08/13/08	08/14/08 00:11	1011
Styrene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
o-Xylene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Isopropylbenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,3-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,4-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,2-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	08/13/08	08/14/08 00:11	1011
1,2,4-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
Naphthalene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011
1,2,3-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:11	1011

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CERTIFICATE OF ANALYSIS

No: 8081108

Earth Data, Inc, Centerville, MD

August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: GW-4

Date/Time Sampled: 08/08/2008 00:00

PSS Sample ID: 8081108-004

Matrix: WATER

Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

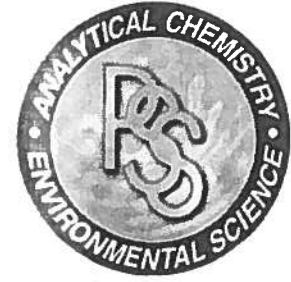
Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep.Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Chloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Vinyl Chloride	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Bromomethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Chloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Acetone	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
Cyclohexane	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
Trichlorofluoromethane	ND	ug/L	5		1	08/13/08	08/14/08 00:39	1011
1,1-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Methylene Chloride	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Methyl-t-butyl ether	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,1-Dichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
2-Butanone (MEK)	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Bromochloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Chloroform	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,2-Dichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Carbon Tetrachloride	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Benzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,2-Dichloropropane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Methyl Acetate	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
Methylcyclohexane	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
Trichloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Carbon Disulfide	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
Bromodichloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	08/13/08	08/14/08 00:39	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: GW-4  
 Matrix: WATER

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-004  
 Date/Time Received: 08/11/2008 14:55

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

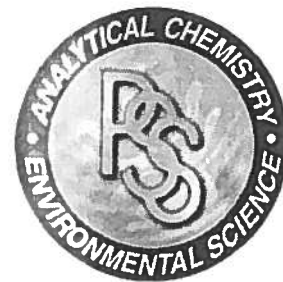
Preparation Method: SW846 5030B

	Result	Units	Rep.Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,1,2-Trichloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Toluene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
2-Hexanone	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Dibromochloromethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Bromoform	ND	ug/L	5		1	08/13/08	08/14/08 00:39	1011
Tetrachloroethene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Chlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Ethylbenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
m,p-Xylenes	ND	ug/L	2		1	08/13/08	08/14/08 00:39	1011
Styrene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
o-Xylene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Isopropylbenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,3-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,4-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,2-Dichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	08/13/08	08/14/08 00:39	1011
1,2,4-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
Naphthalene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011
1,2,3-Trichlorobenzene	ND	ug/L	1		1	08/13/08	08/14/08 00:39	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8081108

Earth Data, Inc, Centerville, MD

August 10, 2008

Project Name: Chestertown Armory  
Project Location: Chestertown, Maryland  
Project ID: 3982

Sample ID: SB-1

Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00

PSS Sample ID: 8081108-005

Date/Time Received: 08/11/2008 14:55

% Solids: 89

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW846 8015B

Preparation Method: SW846 5030

Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
ND	ug/kg	110		1	08/14/08	08/14/08 15:56	1035

TPH-GRO (Gasoline Range Organics)

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW846 8015C

Preparation Method: SW846 3550

Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
ND	mg/kg	11		1	08/14/08	08/14/08 23:33	1040

TPH-DRO (Diesel Range Organics)

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-1  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00      PSS Sample ID: 8081108-005  
 Date/Time Received: 08/11/2008 14:55      % Solids: 89

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Chloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Vinyl Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Bromomethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Chloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Acetone	ND	ug/kg	22		1	08/13/08	08/13/08 17:38	1011
Cyclohexane	ND	ug/kg	22		1	08/13/08	08/13/08 17:38	1011
Trichlorofluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
1,1-Dichloroethene	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
Methylene Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
1,1-Dichloroethane	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
2-Butanone (MEK)	ND	ug/kg	22		1	08/13/08	08/13/08 17:38	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Bromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Chloroform	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
1,1,1-Trichloroethane	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
1,2-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Carbon Tetrachloride	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
Benzene	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
1,2-Dichloropropane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Carbon Disulfide	ND	ug/kg	11		1	08/13/08	08/13/08 17:38	1011
Methylcyclohexane	ND	ug/kg	22		1	08/13/08	08/13/08 17:38	1011
Trichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
Methyl Acetate	ND	ug/g	22		1	08/13/08	08/13/08 17:38	1011
Bromodichloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 17:38	1011
cis-1,3-Dichloropropene	ND	ug/g	6		1	08/13/08	08/13/08 17:38	1011
4-Methyl-2-Pentanone	ND	ug/kg	22		1	08/13/08	08/13/08 17:38	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 10, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-1  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-005  
 Date/Time Received: 08/11/2008 14:55 % Solids: 89

TCL Volatile Organic Compounds

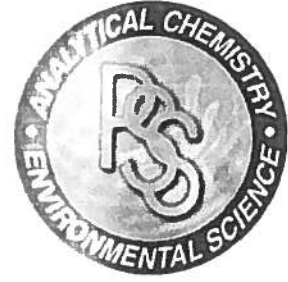
Analytical Method: SW 846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Toluene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
2-Hexanone	ND	ug/kg	22		1 08/13/08	08/13/08 17:38	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Dibromochloromethane	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Bromoform	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Tetrachloroethene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Chlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Ethylbenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
m,p-Xylenes	ND	ug/kg	11		1 08/13/08	08/13/08 17:38	1011
Styrene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
o-Xylene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Isopropylbenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	44		1 08/13/08	08/13/08 17:38	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
Naphthalene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1 08/13/08	08/13/08 17:38	1011

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## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

<b>Sample ID: SB-5</b>	Date/Time Sampled: 08/08/2008 00:00	PSS Sample ID: 8081108-006
<b>Matrix: SOIL</b>	Date/Time Received: 08/11/2008 14:55	% Solids: 86

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015B	Preparation Method: SW846 5030
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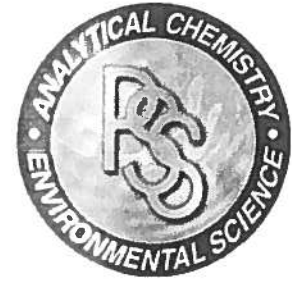
_____	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	110		1	08/15/08	08/15/08 14:58	1035

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C	Preparation Method: SW846 3550
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_____	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	ug/kg	11		1	08/14/08	08/14/08 23:33	1040

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 18, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-5 Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-006  
 Matrix: SOIL Date/Time Received: 08/11/2008 14:55 % Solids: 86

TCL Volatile Organic Compounds

Analytical Method: SW 846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Chloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Vinyl Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Bromomethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Chloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Acetone	35	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
Cyclohexane	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
Trichlorofluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Methylene Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
2-Butanone (MEK)	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Bromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Chloroform	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,2-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Carbon Tetrachloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Benzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,2-Dichloropropane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Carbon Disulfide	ND	ug/kg	12		1	08/13/08	08/13/08 18:07	1011
Methylcyclohexane	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
Trichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Methyl Acetate	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
Bromodichloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
4-Methyl-2-Pentanone	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 18, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-5 Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-006  
 Matrix: SOIL Date/Time Received: 08/11/2008 14:55 % Solids: 86  
 TCL Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Toluene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
2-Hexanone	ND	ug/kg	24		1	08/13/08	08/13/08 18:07	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Dibromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Bromoform	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Tetrachloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Chlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Ethylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
m,p-Xylenes	ND	ug/kg	12		1	08/13/08	08/13/08 18:07	1011
Styrene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
o-Xylene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Isopropylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	48		1	08/13/08	08/13/08 18:07	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
Naphthalene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:07	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-7  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00      PSS Sample ID: 8081108-007  
 Date/Time Received: 08/11/2008 14:55      % Solids: 87

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

_____	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/g	110		1	08/14/08	08/14/08 16:57	1035

Total Petroleum Hydrocarbons - DRO      Analytical Method: SW846 8015C      Preparation Method: SW846 3550

_____	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	ug/g	11		1	08/14/08	08/14/08 23:53	1040

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 13, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-7 Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-007  
 Matrix: SOIL Date/Time Received: 08/11/2008 14:55 % Solids: 87

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Chloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Vinyl Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Bromomethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Chloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Acetone	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
Cyclohexane	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
Trichlorofluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Methylene Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
2-Butanone (MEK)	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Bromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Chloroform	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,2-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Carbon Tetrachloride	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Benzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,2-Dichloropropane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Carbon Disulfide	ND	ug/kg	11		1	08/13/08	08/13/08 18:36	1011
Methylcyclohexane	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
Trichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Methyl Acetate	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
Bromodichloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
4-Methyl-2-Pentanone	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011



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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 11, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-7 Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-007  
 Matrix: SOIL Date/Time Received: 08/11/2008 14:55 % Solids: 87  
 TCL Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Toluene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
2-Hexanone	ND	ug/kg	23		1	08/13/08	08/13/08 18:36	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Dibromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Bromoform	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Tetrachloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Chlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Ethylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
m,p-Xylenes	ND	ug/kg	11		1	08/13/08	08/13/08 18:36	1011
Styrene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
o-Xylene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Isopropylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	46		1	08/13/08	08/13/08 18:36	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
Naphthalene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 18:36	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8081108

Earth Data, Inc., Centerville, MD

August 15, 2008

Project Name: Chestertown Armory  
Project Location: Chestertown, Maryland  
Project ID: 3982

**Sample ID: SB-9**

Date/Time Sampled: 08/08/2008 00:00

PSS Sample ID: 8081108-008

**Matrix: SOIL**

Date/Time Received: 08/11/2008 14:55

% Solids: 86

Total Petroleum Hydrocarbons-GRO

Analytical Method: SW846 8015B

Preparation Method: SW846 5030

Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	120		1 09/15/08	08/15/08 15:28	1035

Total Petroleum Hydrocarbons - DRO

Analytical Method: SW846 9150C

Preparation Method: SW846 3550

Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	12		1 08/14/08	08/14/08 23:53	1040

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc, Centerville, MD  
 August 13, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-9 Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-008  
 Matrix: SOIL Date/Time Received: 08/11/2008 14:55 % Solids: 86

TCL Volatile Organic Compounds Analytical Method: SW846 1260B Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Chloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Vinyl Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Bromomethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Chloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Acetone	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
Cyclohexane	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
Trichlorofluoromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Methylene Chloride	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
2-Butanone (MEK)	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Bromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Chloroform	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,2-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Carbon Tetrachloride	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Benzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,2-Dichloropropane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Carbon Disulfide	ND	ug/kg	12		1	08/13/08	08/13/08 19:04	1011
Methylcyclohexane	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
Trichloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Methyl Acetate	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
Bromodichloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
4-Methyl-2-Pentanone	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011

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## CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-9

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-008

Matrix: SOIL

Date/Time Received: 08/11/2008 14:55

% Solids: 86

TCL Volatile Organic Compounds

Analytical Method: SW846 § 260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Toluene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
2-Hexanone	ND	ug/kg	23		1	08/13/08	08/13/08 19:04	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Dibromochloromethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Bromoform	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Tetrachloroethene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Chlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Ethylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
m,p-Xylenes	ND	ug/kg	12		1	08/13/08	08/13/08 19:04	1011
Styrene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
o-Xylene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Isopropylbenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	47		1	08/13/08	08/13/08 19:04	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
Naphthalene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1	08/13/08	08/13/08 19:04	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc. Centerville, MD  
 August 13, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-11  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-009  
 Date/Time Received: 08/11/2008 14:55 % Solids: 89

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

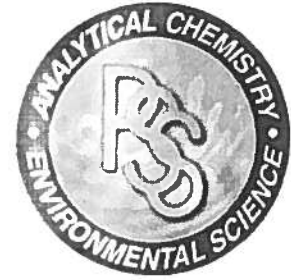
	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	mg/kg	110		1 08/15/08	08/15/08 15:58	1035

Total Petroleum Hydrocarbons - DRO Analytical Method: SW846 8015C Preparation Method: SW846 3550

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	11		1 08/14/08	08/15/08 00:13	1040

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CERTIFICATE OF ANALYSIS

No: 8081103  
 Earth Data, Inc, Centerville, MD  
 August 12, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-11  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-009  
 Date/Time Received: 08/11/2008 14:55 % Solids: 89

TCL Volatile Organic Compounds

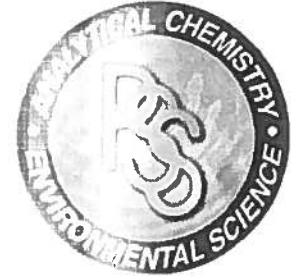
Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Chloromethane	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Vinyl Chloride	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Bromomethane	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
Chloroethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Acetone	ND	ug/g	22		1	08/13/08	08/14/08 00:47	1011
Cyclohexane	ND	ug/kg	22		1	08/13/08	08/14/08 00:47	1011
Trichlorofluoromethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
1,1-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Methylene Chloride	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Methyl-t-butyl ether	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
1,1-Dichloroethane	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
2-Butanone (MEK)	ND	ug/g	22		1	08/13/08	08/14/08 00:47	1011
cis-1,2-Dichloroethene	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
Bromochloromethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Chloroform	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
1,2-Dichloroethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
Carbon Tetrachloride	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
Benzene	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
1,2-Dichloropropane	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
Carbon Disulfide	ND	ug/g	11		1	08/13/08	08/14/08 00:47	1011
Methylcyclohexane	ND	ug/g	22		1	08/13/08	08/14/08 00:47	1011
Trichloroethene	ND	ug/g	6		1	08/13/08	08/14/08 00:47	1011
Methyl Acetate	ND	ug/g	22		1	08/13/08	08/14/08 00:47	1011
Bromodichloromethane	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	08/13/08	08/14/08 00:47	1011
4-Methyl-2-Pentanone	ND	ug/g	22		1	08/13/08	08/14/08 00:47	1011

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CERTIFICATE OF ANALYSIS

No: 8081108  
 Earth Data, Inc., Centerville, MD  
 August 19, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

Sample ID: SB-11  
 Matrix: SOIL

Date/Time Sampled: 08/08/2008 00:00 PSS Sample ID: 8081108-009  
 Date/Time Received: 08/11/2008 14:55 % Solids: 89

TCL Volatile Organic Compounds

Analytical Method: SW136 5260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Toluene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
2-Hexanone	ND	ug/kg	22		1 08/13/08	08/14/08 00:47	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Dibromochloromethane	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Bromoform	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Tetrachloroethene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Chlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Ethylbenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
m,p-Xylenes	ND	ug/kg	11		1 08/13/08	08/14/08 00:47	1011
Styrene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
o-Xylene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Isopropylbenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	44		1 08/13/08	08/14/08 00:47	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
Naphthalene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1 08/13/08	08/14/08 00:47	1011



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: Earth Data Inc PHONE NO.: (410) 758-8160 PROJECT MGR: Andrew Bulden FAX NO.: (410) 758-8168 PAGE 1 OF 1

2 PROJECT NO.: 3982 P.O. NO.:  EMAIL: abulden@earthdatainc.com PROJECT NAME: Chestertown Armory SITE LOCATION: Chestertown, Maryland

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used Analysis Required	Requested Turnaround Time	Remarks
1	GW-1	8-5-08		Water	3	G	None	5-Day (Std) <input checked="" type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> N+1 Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other <input type="checkbox"/>	
2	GW-2	8-5-08		Water	3	G	None		
3	GW-3	8-5-08		Water	3	G	None		
4	GW-4	8-5-08		Water	3	G	None		
5	SB-1	8-5-08		Soil	2	G	None		
6	SB-5	8-5-08		Soil	2	G	None		
7	SB-7	8-5-08		Soil	2	G	None		
8	SB-9	8-5-08		Soil	2	G	None		
9	SB-11	8-5-08		Soil	2	G	None		

3 PROJECT NO.: 3982 P.O. NO.:

4 Collected / Relinquished By: (1) ATL Date: 8-11-08 Time: 11:40 Received By: IKS Time: 2:10

Relinquished By: (3) ATL Date: 8-11-08 Time: 14:55 Received By: IKS Time: 14:55

Collected / Relinquished By: (4) ATL Date: 8-11-08 Time: 14:55 Received By: IKS Time: 14:55

5 Sample Condition Upon Receipt: Cooler 9 Ice  
Custody Seal: ABS 0:50c  
Carrier: DITZ

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorneys or other reasonable fees if collection becomes necessary.





# Phase Separation Science, Inc

## Sample Receipt Checklist

Wo Number	8081108	Received By	Lynn Moran
Client Name	Earth Data, Inc	Date Received	08/11/2008 02:55:00 PM
Project Name	Chestertown Armory	Delivered By	Dial Courier
Project Number	3982	Tracking No	Not Applicable
		Loaded In By	Lynn Moran

### Shipping Container(s)

No of Coolers	1	Ice	Present
Custody Seals	Absent	Temp (deg C)	.5
Seal Condition	None	Temp Blank Present	No

### Documentation

COC agrees with sample labels?  Yes or  No  
 Chain of Custody (COC)  Yes or  No

### Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Intact?	<input checked="" type="checkbox"/> <input type="checkbox"/>	Custody Seal(s) Intact?	<input type="checkbox"/> <input checked="" type="checkbox"/>
Labeled and Labels Legible	<input checked="" type="checkbox"/> <input type="checkbox"/>	Seal(s) Signed / Dated	<input type="checkbox"/> <input checked="" type="checkbox"/>
Total No of Samples Received	9	Total No of Containers Received	22

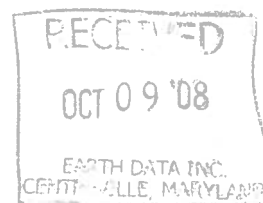
### Preservation

		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 > 2)	<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 notification. 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: 8/11/08  
 PM Review and Approval: [Signature] Date: 8/11/08



# Analytical Report for

**Earth Data, Inc**

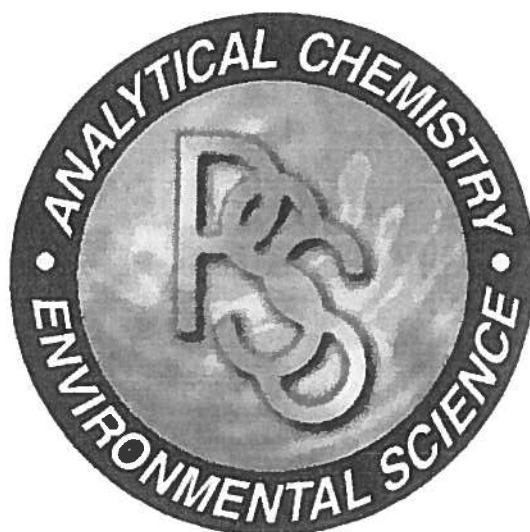
**Certificate of Analysis No.: 8093005**

**Project Manager: Andrew Bullen**

**Project Name : Chestertown Armory**

**Project Location: Chestertown, Maryland**

**Project ID : 3982**



**October 7, 2008**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

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

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

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800-932-9047

# PHASE SEPARATION SCIENCE, INC.



October 7, 2008

**Andrew Bullen**  
**Earth Data, Inc**  
131 Comet Drive  
Centerville, MD 21617

Reference: PSS Work Order No: **8093005**  
Project Name : Chestertown Armory  
Project Location: Chestertown, Maryland  
Project ID.: 3982

Dear Andrew Bullen :

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 **8093005**.

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 November 4, 2008. 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).

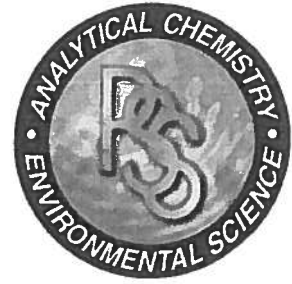
A handwritten signature in black ink that reads "Dan Prucnal" followed by a stylized monogram "DP".

**Dan Prucnal**

Laboratory Manager

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8093005  
 Earth Data, Inc, Centerville, MD  
 October 7, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

**Sample ID: GW-5**      **Date/Time Sampled: 09/29/2008 00:00**      **PSS Sample ID: 8093005-001**  
**Matrix: GROUND WATER**      **Date/Time Received: 09/30/2008 13:55**

TCL Volatile Organic Compounds

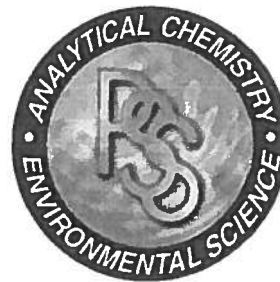
Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Chloromethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Vinyl Chloride	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Bromomethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Chloroethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Acetone	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
Cyclohexane	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
Trichlorofluoromethane	ND	ug/L	5		1	10/04/08	10/04/08 15:45	1011
1,1-Dichloroethene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Methylene Chloride	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
trans-1,2-Dichloroethene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Methyl-t-butyl ether	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
1,1-Dichloroethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
cis-1,2-Dichloroethene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Bromochloromethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Chloroform	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
1,1,1-Trichloroethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
1,2-Dichloroethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Carbon Tetrachloride	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Benzene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
1,2-Dichloropropane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Methyl Acetate	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
Methylcyclohexane	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
Trichloroethene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
Carbon Disulfide	ND	ug/L	10		1	10/04/08	10/04/08 15:45	1011
Bromodichloromethane	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
cis-1,3-Dichloropropene	ND	ug/L	1		1	10/04/08	10/04/08 15:45	1011
4-Methyl-2-Pentanone	ND	ug/L	5		1	10/04/08	10/04/08 15:45	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8093005  
 Earth Data, Inc, Centerville, MD  
 October 7, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

**Sample ID: GW-5**  
**Matrix: GROUND WATER**

**Date/Time Sampled: 09/29/2008 00:00**    **PSS Sample ID: 8093005-001**  
**Date/Time Received: 09/30/2008 13:55**

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,1,2-Trichloroethane	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Toluene	1	ug/L	1		1 10/04/08	10/04/08 15:45	1011
2-Hexanone	ND	ug/L	10		1 10/04/08	10/04/08 15:45	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Dibromochloromethane	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Bromoform	ND	ug/L	5		1 10/04/08	10/04/08 15:45	1011
Tetrachloroethene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Chlorobenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Ethylbenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
m,p-Xylenes	ND	ug/L	2		1 10/04/08	10/04/08 15:45	1011
Styrene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
o-Xylene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Isopropylbenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,3-Dichlorobenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,4-Dichlorobenzene	1	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,2-Dichlorobenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1 10/04/08	10/04/08 15:45	1011
1,2,4-Trichlorobenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
Naphthalene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011
1,2,3-Trichlorobenzene	ND	ug/L	1		1 10/04/08	10/04/08 15:45	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8093005  
 Earth Data, Inc, Centerville, MD  
 October 7, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

**Sample ID: SB-16**      **Date/Time Sampled: 09/29/2008 00:00**      **PSS Sample ID: 8093005-002**  
**Matrix: SOIL**      **Date/Time Received: 09/30/2008 13:55**      **% Solids: 83**

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

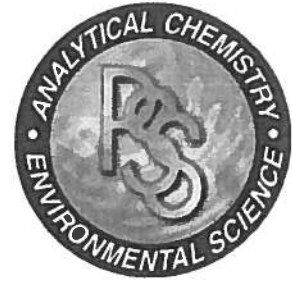
	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	120		1 09/30/08	09/30/08 14:50	1035

Total Petroleum Hydrocarbons - DRO      Analytical Method: SW846 8015C      Preparation Method: SW846 3550

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	12		1 10/01/08	10/01/08 13:50	1040

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8093005  
 Earth Data, Inc, Centerville, MD  
 October 7, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

**Sample ID: SB-16**      **Date/Time Sampled: 09/29/2008 00:00**      **PSS Sample ID: 8093005-002**  
**Matrix: SOIL**      **Date/Time Received: 09/30/2008 13:55**      **% Solids: 83**

TCL Volatile Organic Compounds

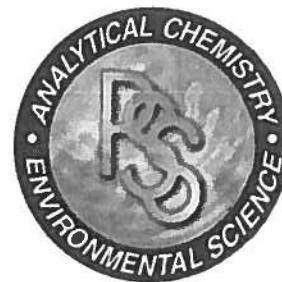
Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Chloromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Vinyl Chloride	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Bromomethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Chloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Acetone	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
Cyclohexane	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
Trichlorofluoromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1-Dichloroethene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Methylene Chloride	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Methyl-t-butyl ether	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1-Dichloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
2-Butanone (MEK)	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Bromochloromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Chloroform	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,2-Dichloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Carbon Tetrachloride	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Benzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,2-Dichloropropane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Carbon Disulfide	ND	ug/kg	12		1 09/30/08	10/01/08 04:45	1011
Methylcyclohexane	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
Trichloroethene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Methyl Acetate	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
Bromodichloromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
4-Methyl-2-Pentanone	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 8093005  
 Earth Data, Inc, Centerville, MD  
 October 7, 2008

Project Name: Chestertown Armory  
 Project Location: Chestertown, Maryland  
 Project ID: 3982

**Sample ID: SB-16**      **Date/Time Sampled: 09/29/2008 00:00**      **PSS Sample ID: 8093005-002**  
**Matrix: SOIL**      **Date/Time Received: 09/30/2008 13:55**      **% Solids: 83**

TCL Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030

	Result	Units	Rep Limit	Flag	Dil Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Toluene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
2-Hexanone	ND	ug/kg	23		1 09/30/08	10/01/08 04:45	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Dibromochloromethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Bromoform	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Tetrachloroethene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Chlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Ethylbenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
m,p-Xylenes	ND	ug/kg	12		1 09/30/08	10/01/08 04:45	1011
Styrene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
o-Xylene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Isopropylbenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,3-Dichlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,4-Dichlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,2-Dichlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	47		1 09/30/08	10/01/08 04:45	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
Naphthalene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6		1 09/30/08	10/01/08 04:45	1011





# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: <u>Earth Data Inc.</u> PHONE NO.: <u>(410) 758-8160</u>		PSS Project # <u>8093005</u>		PAGE <u>1</u> OF <u>1</u>	
PROJECT MGR: <u>Andrew Bullen</u> FAX NO.: <u>(410) 758-8168</u>		Preservatives Used: <u>None</u> →			
EMAIL: <u>abullen@earthdatainc.com</u>		Analyses Required: <u>3</u>			
PROJECT NAME: <u>Chester town Armony</u>		SAMPLE TYPE: <u>C = COMP</u>			
SITE LOCATION: <u>Chester town, Maryland</u>		G = GRAB			
PROJECT NO.: <u>5982</u> P.O. NO.:		No. CONTAINERS			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	REMARKS
1	GW-5	9-29-08		G.W.	
2	SB-16	9-29-08		Soil	
Collected / Relinquished By: (1) <u>T. Lee</u>		Date <u>9-30-08</u>	Time <u>1045</u>	Received By: <u>D. Browne</u>	Requested Turnaround Time: <input checked="" type="checkbox"/> 5-Day (Std.) <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other Data Deliverables Required:
Relinquished By: (2) <u>D. Browne</u>		Date <u>"</u>	Time <u>1245</u>	Received By: <u>[Signature]</u>	
Relinquished By: (3)		Date	Time	Received By:	Sample Condition Upon Receipt: <u>Cool - Ice 2°C</u> Custody Seal: <u>ABS</u> Shipping Carrier: <u>DIAL</u> Shipping Ticket No.: <u>N/A</u>
Collected / Relinquished By: (4)		Date	Time	Received By:	Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# Phase Separation Science, Inc

## Sample Receipt Checklist

**Wo Number** 8093005  
**Client Name** Earth Data, Inc  
**Project Name** Chestertown Armory  
**Project Number** 3982

**Received By** Rachel Davis  
**Date Received** 09/30/2008 01:55:00 PM  
**Delivered By** Dial Courier  
**Tracking No** Not Applicable  
**Logged In By** Rachel Davis

### Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seals	Absent	Temp (deg C)	2
Seal Condition	None	Temp Blank Present	No

### Documentation

COC agrees with sample labels?  Yes or  No  
 Chain of Custody (COC)  Yes or  No

### Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Intact?	<input checked="" type="checkbox"/> <input type="checkbox"/>	Custody Seal(s) Intact?	<input type="checkbox"/> <input checked="" type="checkbox"/>
Labeled and Labels Legible	<input checked="" type="checkbox"/> <input type="checkbox"/>	Seal(s) Signed / Dated	<input type="checkbox"/> <input checked="" type="checkbox"/>
Total No of Samples Received	2	Total No of Containers Received	5

### 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: R. Davis Date: 9/30/08  
 PM Review and Approval: [Signature] Date: 10/1/08



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

<b>1</b> CLIENT: <u>Earth Data Inc.</u> PHONE NO.: <u>(410) 758-8160</u> PROJECT MGR: <u>Andrew Bullen</u> FAX NO.: <u>(410) 758-8168</u> EMAIL: <u>abullen@earthdatainc.com</u> PROJECT NAME: <u>Chester town Armory</u> SITE LOCATION: <u>Chester town, Maryland</u> PROJECT NO.: <u>5982</u> P.O. NO.:		PSS Project #: <u>809300S</u> PAGE <u>1</u> OF <u>1</u>			
<b>2</b>		No. CONTAINERS C O N T A I N E R S			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	REMARKS
1	GW-5	9-29-08		G.W.	VOCs TPH-GRO TPH-DEO VOCs
2	SB-16	9-29-08		Soil	VOCs TPH-GRO TPH-DEO VOCs
<b>3</b>		SAMPLE TYPE C = COMP G = GRAB		Preservatives Used Analysis Required <input checked="" type="checkbox"/> 3	
<b>4</b>		Requested Turnaround Time <input checked="" type="checkbox"/> 5-Day (Std.) <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other		Sample Condition Upon Receipt: <u>COOLER + ICE 2°C</u> Custody Seal: <u>ABS</u> Shipping Carrier: <u>DIAL</u> Shipping Ticket No.: <u>N/A</u>	
<b>5</b>		Collected / Relinquished By: (1) <u>T. Lee</u>		Received By: <u>D. Toome</u>	
Relinquished By: (2) <u>D. Toome</u>		Date: <u>9-30-08</u> Time: <u>10:45</u>		Received By: <u>[Signature]</u>	
Relinquished By: (3)		Date: <u>11</u> Time: <u>12:15</u>		Received By: <u>[Signature]</u>	
Collected / Relinquished By: (4)		Date:		Received By:	
Special Instructions:					

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