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NWS YORKTOWN
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TECHNICAL MEMORANDUM FOR FINAL GROUNDWATER DATA REVIEW AND RISK
MANAGEMENT CONSIDERATION SITE 30 NWS YORKTOWN VA

5/12/2009
CH2M HILL

Final Yorktown Site 30 Groundwater Data Review and Risk Management Consideration

PREPARED FOR: Yorktown Partnering Team

PREPARED BY: CH2M HILL

DATE: May 12, 2009

This Technical Memorandum (TM) summarizes groundwater data, human health risks, and provides the rationale for no action for groundwater at the Naval Weapons Station (WPNSTA) Yorktown, Site 30, the Bracken Road Incinerator. A human health risk assessment (HHRA) that was completed as part of the 2005 Remedial Investigation (RI) (Baker, 2005) identified potential unacceptable risk for potable use of groundwater. This TM presents the rationale for groundwater risk management consideration to support a no action Proposed Plan and Record of Decision at Site 30.

Background

Site 30, the Bracken Road Incinerator (formerly Site Screening Area [SSA] 24), encompasses an area approximately 0.1-acre in size located north of Site 5 (Surplus Transformer Storage Area), northeast of a cooling pond (76A), and south of railroad tracks. The incinerator was reportedly used for an unknown period of time to burn municipal waste from the housing area located in the vicinity of the incinerator. Incineration of low-grade aviation fuel also was performed in an area just southeast of the former incinerator. Historical information was found that documents the burning of Venezuelan crude oil in the mid-1970s. Venezuelan crude oil has a higher specific gravity than other crude oils and contains elevated concentrations of sulfur and several metals such as vanadium. The incinerator stack and remnants of an old cold storage area were removed during the 2008 remedial action conducted by the Shaw Group.

Groundwater data was collected in 1997 as part of the *Remedial Investigation Report for Sites 27, 28, 29, and 30 Naval Weapons Station Yorktown, Yorktown, Virginia* (Baker, 2005). Following an Engineering Estimate/Cost Analysis completed in 2007 (CH2M HILL, 2007), the removal of approximately 4,500 cubic yards (cy) of soil was conducted at Site 30 comprising approximately 4,200 cy of material in the area used to incinerate the low-grade aviation fuel and approximately 300 cy of soil around the incinerator at Site 30. Post-removal confirmation sampling contained in the construction completion documentation demonstrates the removal of all waste and the mitigation of unacceptable risk associated with soil at Site 30 (Shaw, 2008).

Groundwater Data

Two monitoring wells were sampled in October 1997 at Site 30 as part of the 2005 RI (Baker, 2005): A24-GW01 and A24-GW02. Tables of the 1997 analytical results used in the 2005 RI are provided as an attachment to this TM and include: 1997 groundwater sample results (Table 4-33 and 4-34 from the RI) and the groundwater sample results. A figure is provided as an attachment, which compares the 1997 groundwater results to the 2008 results.

Monitoring Well A24-GW01 was installed downgradient from the incinerator and Monitoring Well A24-GW02 was installed in the vicinity of the historical incinerator activity (Attachment 1). Results from the 1997 sampling event detected no constituents in exceedance of any risk screening levels in Monitoring Well A24-GW01. Organic compounds detected in Monitoring Well A24-GW02 were 1,1-dichloroethane (4 J $\mu\text{g/L}$), 1,1-dichloroethene (1,1-DCE) (1 J $\mu\text{g/L}$), bromodichloromethane (1 J $\mu\text{g/L}$), carbon disulfide (4 J $\mu\text{g/L}$), chlorobenzene (14 $\mu\text{g/L}$), chloroform (6 J $\mu\text{g/L}$), toluene (2 J $\mu\text{g/L}$), and thichloroethene (TCE) (6 J $\mu\text{g/L}$). Of the constituents detected in Monitoring Well A24-GW02 during the 1997 sampling event, all but chlorobenzene were marked with a "J" flag, indicating that the reported concentrations were estimated. Only TCE was found to exceed any risk screening values. TCE was found to slightly exceed the associated MCL of 5 $\mu\text{g/L}$.

Inorganic compounds detected in Monitoring Well A24-GW02 were aluminum (636 J $\mu\text{g/L}$), barium (39 J $\mu\text{g/L}$), cadmium (0.31 K $\mu\text{g/L}$), calcium (92,300 $\mu\text{g/L}$), iron (980 $\mu\text{g/L}$), magnesium (2140 J $\mu\text{g/L}$), manganese (26.3 $\mu\text{g/L}$), potassium (9,210 $\mu\text{g/L}$), sodium (18,900 $\mu\text{g/L}$), and vanadium (4.2 J $\mu\text{g/L}$). Total cadmium, barium, and manganese were detected above station-wide background levels, but were not detected in exceedance of any risk screening values. Iron and vanadium were both identified as risk drivers for terrestrial lower trophic level populations for soils while vanadium was also identified as a human health risk driver for soils. However, neither of these constituents was detected above station-wide background levels in groundwater. Additionally, the ash and contaminated soil at Site 30 has since been removed, and with it, any potential source of contaminant migration to groundwater. A comparison of the constituents found to pose unacceptable risk in the different media is shown in Table 1.

TABLE 1
Contaminants of Concern for All Media

Media	COCs
Soil	Chromium, Iron, Lead, Mercury, Nickel, Thallium, Vanadium, and Zinc
Groundwater	Trichloroethene
Sediment	None
Surface Water	None

* COCs were determined by screening detected concentrations against regional screening values and conducting both a Human Health Risk Assessment and Ecological Risk Assessment

Due to the fact that TCE is not a common constituent of the fuels burned on-site, the detection of TCE in Monitoring Well A24-GW02 is not considered a site related contaminant. In order to confirm that the 1997 detection was or was not a false positive, it was decided by the partnering team in March 2007 that an additional sample from Monitoring Well A24-GW02 was needed in order to confirm the presence or absence of TCE. In 2008, three attempts were made to collect a sample from A24-GW02. On each attempt, the well was reported dry and no groundwater could be collected. A grab groundwater sample was collected in August 2008 next to A24-GW02 using a Direct Push Technology (DPT) rig. The sample was submitted for analysis for volatile organic compounds (VOCs). There were no detections of any of the VOCs, including TCE or any of its daughter products in the 2008 sample. A comparison of constituent concentrations during the two sampling events is provided in Attachment 1 and the 1997 and 2008 analytical data is provided in Attachment 2.

Human Health Risk Summary

The human health risk assessment provided in the 2005 RI identified that the only unacceptable risk associated with groundwater was identified from its potable use by potential future resident. The Reasonable Maximum Exposure (RME) for TCE was calculated at 1.4 based on the maximum concentrations from Monitoring Well A24-GW02. Table 2 below provides a comparison of future child resident risk assessment for data from all groundwater samples from all wells.

TABLE 2
Future Child Resident Risk Assessment Comparison

Receptor	Pathway	Chemical of Concern	EPC (µg/L)	Reasonable Maximum Exposure (RME) Cancer Risk	Reasonable Maximum Exposure (RME) Non-Cancer Hazard (HI)	Central Tendency (CT) Cancer Risk	Central Tendency (CT) Non-Cancer Hazard (HI)	Cancer Slope Factor (CSF)	Reference Dose (RfD)
								Mg/kg-day	Mg/kg-day
Future Child Resident	Ingestion	TCE	6	1.3x 10 ⁻⁵	1.3	8.8 x 10 ⁻⁶	0.85	1.1 x 10 ⁻²	6.0 x 10 ⁻³
	Dermal	TCE	6	1.0 x 10 ⁻⁶	0.1	2.3 x 10 ⁻⁷	2.2 x 10 ⁻²	1.1 x 10 ⁻²	6.0 x 10 ⁻³

Groundwater Risk Management Considerations

Potential risk to groundwater identified in the 2005 RI for Site 30 warrants no action based on the following:

- Of the nineteen constituents detected in groundwater at A24-GW02 during the 1997 sampling event, twelve were marked with a "J" qualifier, indicating that the values were estimated. The low estimated levels of TCE indicate that the results may have been impacted by lab contamination.
- The presence of TCE and its degradation product, 1,1-DCE, do not correspond with the known use of the site and may be the result of false positive detection based on the high

number of estimated values in the 1997 data. The COCs identified for soils were not the same as those compounds detected in the groundwater.

- The TCE detected was only considered a risk to human health under the RME scenario and only slightly exceeded the Hazard Index of 1.0 (1.4).
- All potentially unacceptable risks associated with the potable use of groundwater were driven by groundwater data collected from one well (A24-GW02) located within the boundary of the waste.
- A 2008 confirmation DPT sample collected next to A24-GW02, detected no VOCs, including TCE and its daughter products.
- The source of the potential groundwater contamination was the ash and soil, which was removed during the 2008 remedial action conducted by the Shaw Group. Confirmation sampling of the remaining soil, as documented in the Draft 2008 Construction Completion Report, indicated that site clean up goals for soil have been achieved.

Groundwater Risk Management Consensus

The Navy, in partnership with the USEPA and VDEQ, has determined that no potential groundwater risks exist at Site 30 and that no action is required for groundwater.

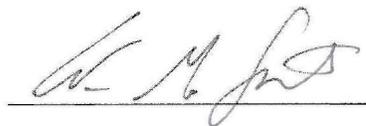
Mr. Tom Kowalski;
NAVFAC Mid-Atlantic

 Date 5/27/09

Mr. Rob Thomson;
USEPA Region 3

 Date 5/20/09

Mr. Wade Smith;
Virginia DEQ

 Date 5/21/09

Glossary

Cancer Slope Factor: cancer risk associated with a unit dose of a carcinogen. It is the slope of the curve representing the relationship between dose and cancer risk.

Central Tendency Exposure: The average or typical exposure reasonable expected to occur in a population.

Contaminant of Concern (COC): A compound present in site media at a concentration that exceeds risk screening criteria and has been determined to pose risk

Exposure Point Concentration: An estimate of the of the arithmetic average concentration for a contaminant based on a set of site sampling results.

Maximum Detection Limit (MDL): The lowest concentration of a chemical that can reliably be distinguished from a zero concentration.

Non-Detected (ND): The constituent was not detected above detection limits

Reasonable Maximum Exposure: The maximum exposure reasonably expected to occur in a population.

Reference Dose: The concentration of a chemical at which adverse effect(s) on human health are known to occur.

Site Screening Process (SSP): Process to determine if an area should be considered a Site for further investigation.

$\mu\text{g/L}$: Micrograms per liter

References

Baker, 2005. *Remedial Investigation Report for Sites 27, 28, 29, and 30 Naval Weapons Station Yorktown, Williamsburg, Virginia*. July 2005.

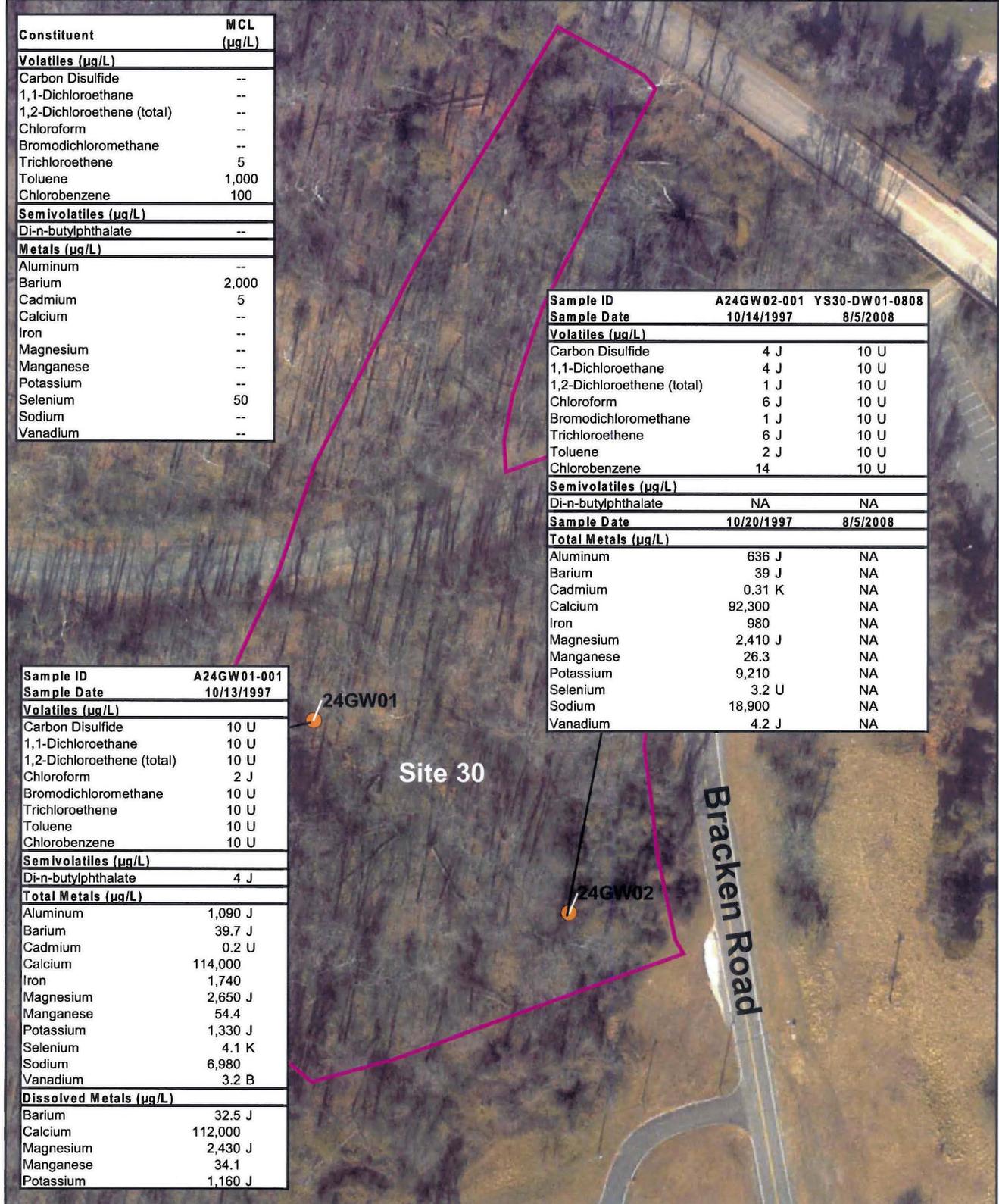
Baker, 2007. *Engineering Evaluation/Cost Analysis for Contaminated Soil Site 30 Bracken Road Incinerator and Environs Naval Weapons Station Yorktown*. Williamsburg, Virginia. April 2007.

Shaw, 2008. *Draft Construction Completion Report Bracken Road Incinerator Removal Action at Site 30 Naval Weapons Station*. Williamsburg, Virginia. October 2008.

Attachments

- 1 Figure 1, Site Figure
- 2 Analytical Data
- 3 Chain of Custody

Attachment 1
Figure



Legend

- SSP Groundwater Sample Locations (1997)
- Study Area Boundary

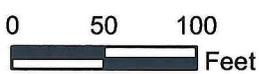


Figure 1
Site 30 Bracken Road Incinerator
Groundwater Sample Detections
Naval Weapon Station Yorktown
Yorktown, Virginia

Attachment 2
Analytical Data

1997 SSP Data

TABLE 4-33

GROUNDWATER - POSITIVE DETECTION SUMMARY
 ORGANIC COMPOUNDS
 SITE 30
 NAVAL WEAPONS STATION YORKTOWN
 YORKTOWN, VIRGINIA

SAMPLE ID	A24GW01-001	A24GW02-001
SAMPLE DATE	10/13/97	10/14/97
VOLATILES (ug/L)		
CARBON DISULFIDE	10 U	4 J
1,1-DICHLOROETHANE	10 U	4 J
1,2-DICHLOROETHENE (TOTAL)	10 U	1 J
CHLOROFORM	2 J	6 J
BROMODICHLOROMETHANE	10 U	1 J
TRICHLOROETHENE	10 U	6 J
TOLUENE	10 U	2 J
CHLOROBENZENE	10 U	14
SEMIVOLATILES (ug/L)		
DI-N-BUTYLPHTHALATE	4 J	NA

TABLE 4-33

**GROUNDWATER - POSITIVE DETECTION SUMMARY
ORGANIC COMPOUNDS
SITE 30
NAVAL WEAPONS STATION YORKTOWN
YORKTOWN, VIRGINIA**

SAMPLE ID SAMPLE DATE	Minimum Non-Detect	Maximum Non-Detect	Minimum Detected	Maximum Detected	Location of Maximum Detect	Frequency of Detection
VOLATILES (ug/L)						
CARBON DISULFIDE	10 U	10 U	4 J	4 J	A24GW020-01	1/2
1,1-DICHLOROETHANE	10 U	10 U	4 J	4 J	A24GW020-01	1/2
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	1 J	1 J	A24GW020-01	1/2
CHLOROFORM	ND	ND	2 J	6 J	A24GW020-01	2/2
BROMODICHLOROMETHANE	10 U	10 U	1 J	1 J	A24GW020-01	1/2
TRICHLOROETHENE	10 U	10 U	6 J	6 J	A24GW020-01	1/2
TOLUENE	10 U	10 U	2 J	2 J	A24GW020-01	1/2
CHLOROBENZENE	10 U	10 U	14	14	A24GW020-01	1/2
SEMIVOLATILES (ug/L)						
DI-N-BUTYLPHTHALATE	ND	ND	4 J	4 J	A24GW010-01	1/1

TABLE 4-34

GROUNDWATER - POSITIVE DETECTION SUMMARY
DISSOLVED INORGANICS
SITE 30
NAVAL WEAPONS STATION YORKTOWN
YORKTOWN, VIRGINIA

SAMPLE ID	A24GW01-001F
SAMPLE DATE	10/13/97
DISSOLVED INORGANICS (ug/L)	
BARIUM	32.5 J
CALCIUM	112000
MAGNESIUM	2430 J
MANGANESE	34.1
POTASSIUM	1160 J

TABLE 4-34

**GROUNDWATER - POSITIVE DETECTION SUMMARY
DISSOLVED INORGANICS
SITE 30
NAVAL WEAPONS STATION YORKTOWN
YORKTOWN, VIRGINIA**

SAMPLE ID SAMPLE DATE	Minimum Non-Detect	Maximum Non-Detect	Minimum Detected	Maximum Detected	Location of Maximum Detect	Frequency of Detection	Average of Positive Detections	Median of Positive Detections
DISSOLVED INORGANICS (ug/L)								
BARIUM	ND	ND	32.5 J	32.5 J	A24GW010-01F	1/1	32.5	32.5
CALCIUM	ND	ND	112000	112000	A24GW010-01F	1/1	112000	112000
MAGNESIUM	ND	ND	2430 J	2430 J	A24GW010-01F	1/1	2430	2430
MANGANESE	ND	ND	34.1	34.1	A24GW010-01F	1/1	34.1	34.1
POTASSIUM	ND	ND	1160 J	1160 J	A24GW010-01F	1/1	1160	1160

TABLE 4-34

GROUNDWATER - POSITIVE DETECTION SUMMARY
 TOTAL INORGANICS AND CYANIDE
 SITE 30
 NAVAL WEAPONS STATION YORKTOWN
 YORKTOWN, VIRGINIA

SAMPLE ID	A24GW01-001	A24GW02-001
SAMPLE DATE	10/13/97	10/20/97
TOTAL METALS (ug/L)		
ALUMINUM	1090 J	636 J
BARIUM	39.7 J	39 J
CADMIUM	0.2 U	0.31 K
CALCIUM	114000	92300
IRON	1740	980
MAGNESIUM	2650 J	2410 J
MANGANESE	54.4	26.3
POTASSIUM	1330 J	9210
SELENIUM	4.1 K	3.2 U
SODIUM	6980	18900
VANADIUM	3.2 B	4.2 J

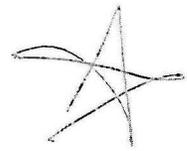
TABLE 4-34

**GROUNDWATER - POSITIVE DETECTION SUMMARY
TOTAL INORGANICS AND CYANIDE
SITE 30
NAVAL WEAPONS STATION YORKTOWN
YORKTOWN, VIRGINIA**

SAMPLE ID SAMPLE DATE	Minimum Non-Detect	Maximum Non-Detect	Minimum Detected	Maximum Detected	Location of Maximum Detect	Frequency of Detection
TOTAL METALS (ug/L)						
ALUMINUM	ND	ND	636 J	1090 J	A24GW010-01	2/2
BARIUM	ND	ND	39 J	39.7 J	A24GW010-01	2/2
CADMIUM	0.2 U	0.2 U	0.31 K	0.31 K	A24GW020-01	1/2
CALCIUM	ND	ND	92300	114000	A24GW010-01	2/2
IRON	ND	ND	980	1740	A24GW010-01	2/2
MAGNESIUM	ND	ND	2410 J	2650 J	A24GW010-01	2/2
MANGANESE	ND	ND	26.3	54.4	A24GW010-01	2/2
POTASSIUM	ND	ND	1330 J	9210	A24GW020-01	2/2
SELENIUM	3.2 U	3.2 U	4.1 K	4.1 K	A24GW010-01	1/2
SODIUM	ND	ND	6980	18900	A24GW020-01	2/2
VANADIUM	3.2 B	3.2 B	4.2 J	4.2 J	A24GW020-01	1/2

2008 Resample Data

Site 30 GW



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-39198-1
 SDG No.: YORK23
 Client Sample ID: YS30-DW01-0808 Lab Sample ID: 680-39198-1
 Matrix: Water Lab File ID: a0131.d
 Analysis Method: OLM04.3/Vol Date Received: 08/06/2008 08:51
 Sample wt/vol: 5(mL) Date Analyzed: 08/12/2008 22:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analy. Batch No.: 114380 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10	U	10	0.39
78-34-5	1,1,2,2-Tetrachloroethane	10	U	10	0.29
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	0.35
74-60-5	1,1,2-Trichloroethane	10	U	10	0.51
75-34-3	1,1-Dichloroethane	10	U	10	0.32
75-35-4	1,1-Dichloroethane	10	U	10	0.36
120-82-1	1,2,4-Trichlorobenzene	10	U	10	0.35
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	10	0.48
95-59-1	1,2-Dichlorobenzene	10	U	10	0.33
107-06-2	1,2-Dichloroethane	10	U	10	0.31
78-17-5	1,2-Dichloropropane	10	U	10	0.36
541-73-1	1,3-Dichlorobenzene	10	U	10	0.31
106-46-7	1,4-Dichlorobenzene	10	U	10	0.33
78-93-3	2-Butanone (MEK)	10	U	10	0.60
791-78-6	2-Hexanone	10	U	10	0.68
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.60
67-64-1	Acetone	10	U	10	1.7
71-43-2	Benzene	10	U	10	0.32
75-28-2	Bromoform	10	U	10	0.41
74-83-9	Bromomethane	10	U	10	0.50
75-15-0	Carbon disulfide	10	U	10	0.17
56-23-5	Carbon tetrachloride	10	U	10	0.27
108-90-7	Chlorobenzene	10	U	10	0.34
124-49-1	Chlorodibromomethane	10	U	10	0.30
75-00-3	Chloroethane	10	U	10	1.0
67-66-3	Chloroform	10	U	10	0.29
74-87-3	Chloromethane	10	U	10	0.28
136-59-2	cis-1,2-Dichloroethene	10	U	10	0.33
10061-01-5	cis-1,3-Dichloropropene	10	U	10	0.37
110-82-7	Cyclohexane	10	U	10	1.0
75-27-4	Dichlorobromomethane	10	U	10	0.34
75-71-8	Dichlorodifluoromethane	10	U	10	0.33
100-41-4	Ethylbenzene	10	U	10	0.30
106-93-4	Ethylene Dibromide	10	U	10	0.30
98-82-8	Isopropylbenzene	10	U	10	0.27

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-39198-1
 SDG No.: YORK23
 Client Sample ID: YS30-DW01-0808 Lab Sample ID: 680-39198-1
 Matrix: Water Lab File ID: a0i31.d
 Analysis Method: OLM04.3/Vol Date Received: 08/06/2008 09:51
 Sample wt/vol: 5(mL) Date Analyzed: 08/12/2008 22:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analy. Batch No.: 114380 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MGL
79-20-9	Methyl acetate	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	10	U	10	0.58
108-87-2	Methylcyclohexane	10	U	10	0.25
75-09-2	Methylene chloride	10	U	10	1.0
100-42-5	Styrene	10	U	10	0.36
127-18-4	Tetrachloroethene	10	U	10	0.28
108-26-3	Toluene	10	U	10	0.31
156-60-5	trans-1,2-Dichloroethene	10	U	10	0.30
10061-02-6	trans-1,3-Dichloropropene	10	U	10	0.27
79-01-5	1,1,1-Trichloroethane	10	U	10	0.40
75-69-4	Trichlorofluoromethane	10	U	10	0.29
75-01-4	Vinyl chloride	10	U	10	0.20
1330-20-7	Xylenes, Total	10	U	10	0.87

CAS NO.	SURROGATE	%REC	LIMITS	Q
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94	76-114	
460-00-4	4-Bromofluorobenzene	93	86-115	
2037-26-5	Toluene-d8 (Surr)	100	88-110	

Attachment 3
Chain of Custody

CV-195

Serial Number 002065

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>NWS Yorktown Site 30</i>	PROJECT NO. <i>362218.FI.MW</i>	PROJECT LOCATION (STATE) <i>VA</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <i>1</i>	OF <i>1</i>	
TAL (LAB) PROJECT MANAGER <i>Abbie Page</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE											STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE <i>Per Contract</i>
CLIENT (SITE) PM <i>Bill Frierhmann</i>	CLIENT PHONE <i>757-671-8311</i>	CLIENT FAX <i>757-497-685</i>													EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
CLIENT NAME <i>CHAM HILL</i>	CLIENT E-MAIL														NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
CLIENT ADDRESS <i>5700 Cleveland St. Suite 101 Virginia Beach, VA 23462</i>	COMPANY CONTRACTING THIS WORK (if applicable)														REMARKS	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11
<i>8/15/08</i>	<i>1200</i>	<i>YS30 DW01-0808</i>	<i>6</i>	<i>✓</i>			<i>3</i>												
<i>8/15/08</i>	<i>1205</i>	<i>YS30-TPO1-080508</i>	<i>6</i>	<i>✓</i>			<i>3</i>												

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>8/15/08</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS