INSTALLATION RESTORATION PROGRAM

FINAL

TIME CRITICAL REMOVAL ACTION COMPLETION REPORT - SITE 6

F59 04 2003

109th AIRLIFT WING
NEW YORK AIR NATIONAL GUARD
SCHENECTADY AIR NATIONAL GUARD BASE
SCOTIA, NEW YORK

OPIN HEADQUARTER 5

JANUARY 2003



Prepared For

AIR NATIONAL GUARD READINESS CENTER ANDREWS AFB, MARYLAND 20762-5157

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Prepared By
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LIST OF ACRONYMS

ABB Environmental Services, Inc.

ANG Air National Guard

ANGRC Air National Guard Readiness Center

Aneptek Corporation

ARARs Applicable or Relevant and Appropriate Requirements

AW Airlift Wing

AWQC Ambient Water Quality Criteria

bgs below ground surface

BOL Bill of Lading

CERCLA Comprehensive Environmental Response, Compensation, and Liability

Act

COC Contaminant of Concern DCE cis-1,2-Dichloroethene

DERP Defense Environmental Restoration Program

DOD Department of Defense

DOT Department of Transportation

DQO Data Quality Objective EM Environmental Manager

EPA Environmental Protection Agency

°F degrees Fahrenheit FS Feasibility Study

ft feet

GC Gas Chromatograph

IDL Instrument detection limit
IDW Investigation Derived Waste
IRP Installation Restoration Program
MCL Maximum Contaminant Level
MDL Method Detection Limit
mg/kg milligram per kilogram

mg kg mingram p

ml milliliter

MS/MSD Matrix Spike/Matrix Spike Duplicate

ND Not Detected

NGB National Guard Bureau

NYANG New York Air National Guard

NYSDEC New York State Department of Environmental Conservation

LIST OF ACRONYMS/ABBREVIATIONS (Cont.)

NYSDOH New York State Department of Health

PCB Polychlorinated Biphynels PID Photoionization Detector

PPE Personal Protective Equipment
PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control

RI Remedial Investigation

SOP Standard Operating Procedure SVOC Semivolatile Organic Compounds

TAL Target Analyte List
TBC To Be Considered
TCE Trichloroethene

TCRA Time Critical Removal Action
TIC Tentatively Identified Compounds
TPH Total Petroleum Hydrocarbons

kg/L kilograms per Liter ug/L micrograms per Liter

VOC Volatile Organic Compounds

SECTION 1.0

1.0 INTRODUCTION

This report presents the results of a Time Critical Removal Action (TCRA) conducted at Installation Restoration Program (IRP) Site 6 (Site 6), at the 109th Airlift Wing (AW), New York Air National Guard (NYANG) Schenectady Air National Guard Base (the Base) located at Schenectady County Airport, Scotia, New York. The TCRA at Site 6 was performed by Aneptek Corporation (Aneptek) for the Air National Guard (ANG/CEVR) pursuant to the IRP, under National Guard Bureau (NGB) Contract No. DAHA90-97-D-0011, Delivery Order No. 19. The TCRA was performed under the authority of the Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA), and the Superfund Amendments and Reauthorization Act (SARA).

The Defense Environmental Restoration Program (DERP) was established in 1984 to promote and coordinate efforts for the evaluation and cleanup of contamination at Department of Defense (DOD) installations. On January 23, 1987, Presidential Executive Order 12580 was issued which assigned the responsibility to the Secretary of Defense for carrying out DERP within the overall framework of CERCLA and SARA. The IRP was established under DERP to identify, investigate, and cleanup contamination at installations. The IRP is focused on cleanup of contamination associated with past DOD activities to ensure that threats to public health are eliminated and to restore natural resources for further use. The ANG/CEVR manages the IRP and related activities at ANG Installations.

This TCRA was implemented based on the results of a Remedial Investigation (RI) performed by Aneptek at the 109th AW during 1998 and 1999. The results of the RI indicated volatile organic compound (VOC) contaminated soil and groundwater and petroleum contaminated soil at Site 6. Based on the recommendations of the RI, a Feasibility Study (FS) was developed for Site 6 which recommended excavation and off-site disposal of the contaminated soils at Site 6 (Draft Final Feasibility Study, Aneptek, March, 2001). The TCRA was conducted from April 22 to April 25, 2002.

SECTION 2.0

2.0 PROJECT OBJECTIVES AND SCOPE

The project objectives and scope of this TCRA was the excavation, transportation, and disposal of contaminated soil at three separate areas located within Site 6 as presented in the Draft Final Feasibility Study (Aneptek, 2001) and the Final TCRA Work Plan (Aneptek, March 2002). The TCRA included all activities necessary to complete the removal action. Removing the known areas of soil contamination will limit the impact of soil contamination migrating to groundwater.

SECTION 3.0

3.0 FACILITY BACKGROUND INFORMATION

This section presents brief background summaries of the Base (Section 3.1) and Site 6 (Section 3.2) as well as findings from previous investigations (Section 3.3).

3.1 Base Description and History

The 109th Airlift Wing is located on the eastern and southern portions of the Schenectady County Airport in Scotia, New York (Figure 3-1). The Base comprises approximately 106 acres. The land to the north, east, and west of the Base is agricultural and residential. South of the Base is the Mohawk River, a railway, commercial and residential properties. Prior to construction of the Base, the property was utilized as agricultural land. The ANG authorized the formation of the 139th fighter squadron of the New York National Guard in November 1948. The unit was first located at the Scotia Naval Depot, which is about three miles to the west of the current base. The first aircraft for the new unit, the P-47 "Thunderbolt", arrived in 1949, along with an assortment of support aircraft including the T-6, B-26 and the C-47.

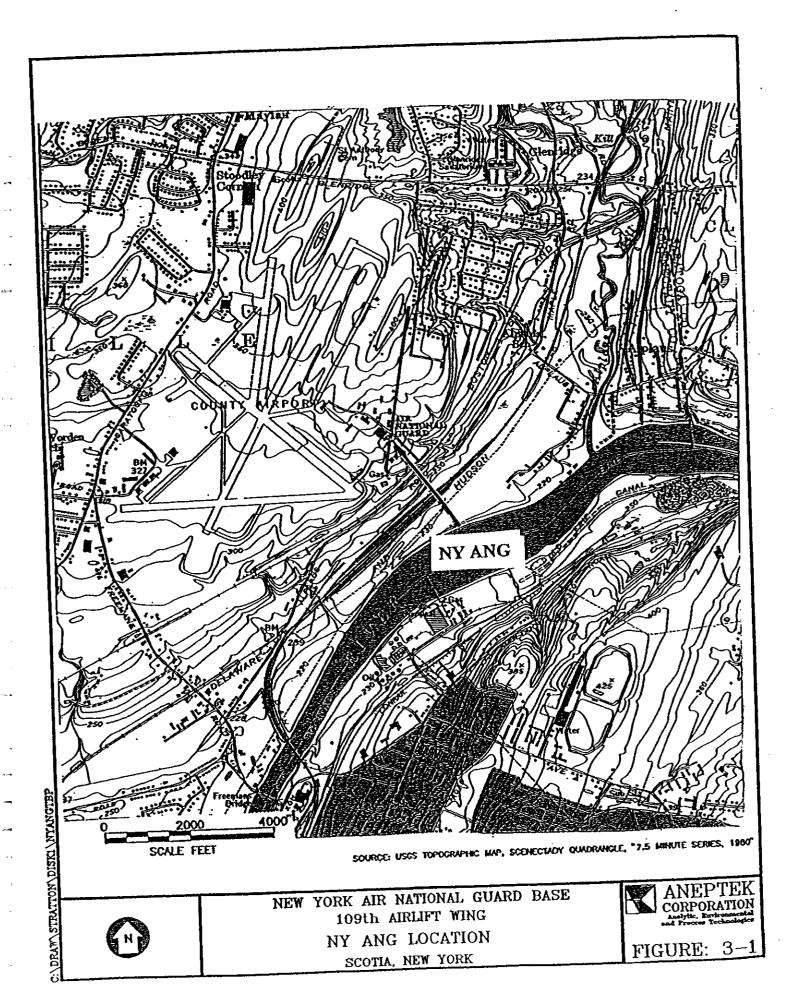
By September of 1950, the permanent facilities for the unit were completed at the Schenectady County Airport. These facilities consisted of the present administration building, aircraft hanger, vehicle maintenance, and various supply buildings. In 1951, The P-47's were replaced by the P-51 "Mustang." By 1954, the Base had received the F-94 "Starfire" jets. In order to accommodate the new aircraft, a 7,000 foot runway with overruns was constructed.

By 1960, the unit was redesignated the 109th Tactical Airlift Group and acquired the four-engine C-97A "Stratocrusier". In October 1961, the 109th Tactical Airlift Group was called to active duty in support of the Berlin Airlift. The unit was deactivated and resumed guard status on August 31, 1962. At that time, the aging C-97A aircraft were replaced with the C-97G model.

A new mission was undertaken by the unit in 1971 with the replacement to the C-97G by the C-130 "Hercules" turboprop transport. In 1972, The C-130A models were converted to the C-130D by Lockheed Aircraft Company to facilitate the use of skis on the Greenland Polar Ice Cap. In 1984, the 109th Tactical Airlift Group received its first C-130H aircraft, which replaced the older C-130D model. In 1991, the unit's name changed from the "109th Tactical Airlift Group" to the "109th Airlift Wing".

3.2 Site Description

Site 6 was added to this investigation after samples collected during the RI indicated soil and groundwater contamination from chlorinated compounds, mainly cis-1,2-Dichloroethene (cis-1,2-DCE) and vinyl chloride, and additional soil contamination from petroleum compounds, mainly xylenes.



Site 6 was not originally included as part of the RI. It was included only after sample results from Site 3, which is downgradient of Site 6, indicated contamination present in this previously unknown area. Initially, given the close proximity of this area to other designated IRP sites (Site 1, investigated in 1996 [Final SI Report, ABB, October, 1996], and Site 3), it was thought this area was somehow related to either one or both of them. However, based on the nature of contamination found in this area (analytes other than at Site 1 or 3), the potential association of previous activities being conducted within the same time frame and in this same general area (but at different locations), it is evident that this area should be treated as a separate site, designated as such, and included in the IRP program. Figure 3-2 presents the location of Site 1, Site 3, and Site 6.

3.3 Previous Investigations

The following section presents a summary of the results of the RI performed at Site 6. The RI has been the only investigative activity conducted at Site 6. For more detailed information on these activities and information on the environmental setting at Site 6, including geology and hydrogeology, refer to the Final RI Report, Site 2-Site 3-Site 6, Schenectady Air National Guard Base (Aneptek, September, 2000).

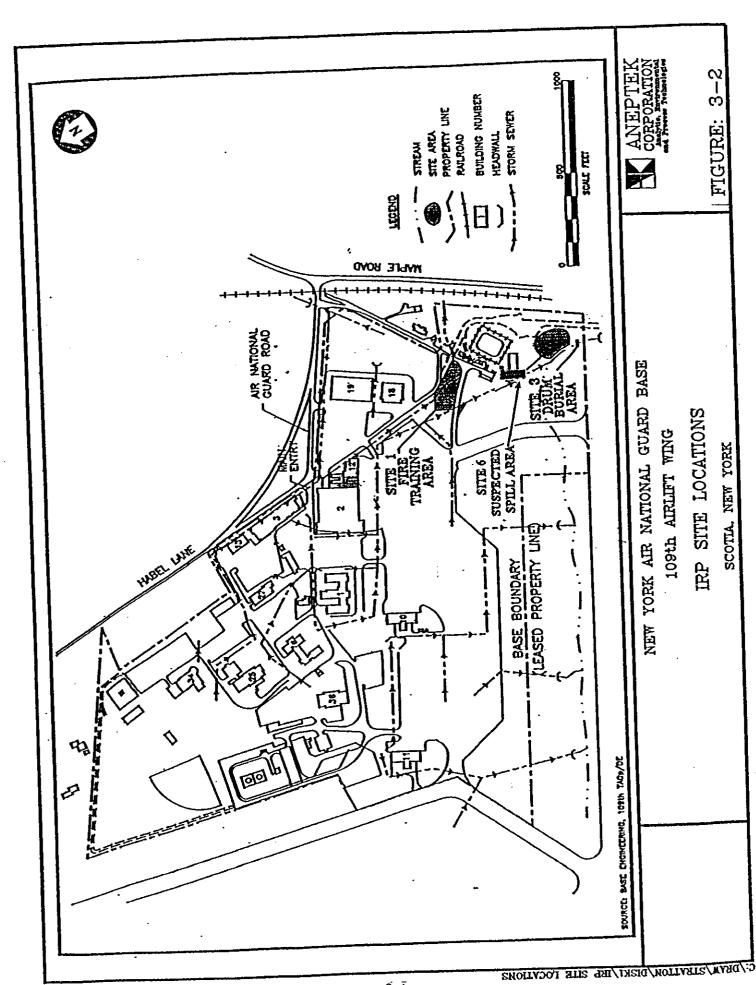
3.3.1 Remedial Investigation

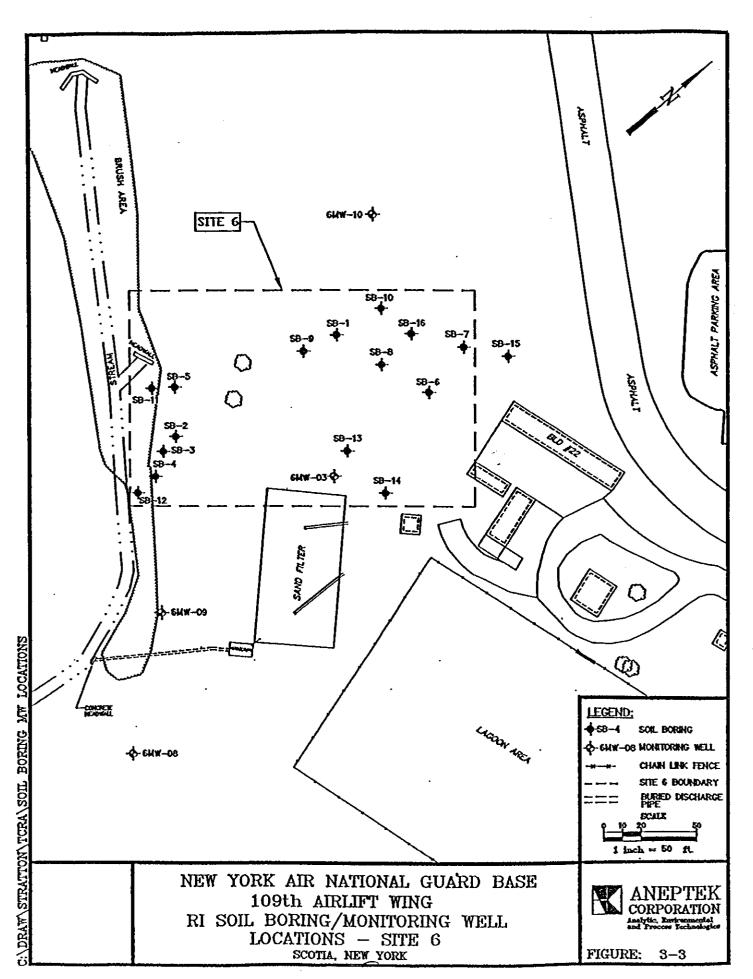
The RI field program was conducted by Aneptek from July of 1998 to June of 1999. A total of three sites, Site 2, Site 3, and Site 6, were investigated during the RI. This report will only detail results from Site 6.

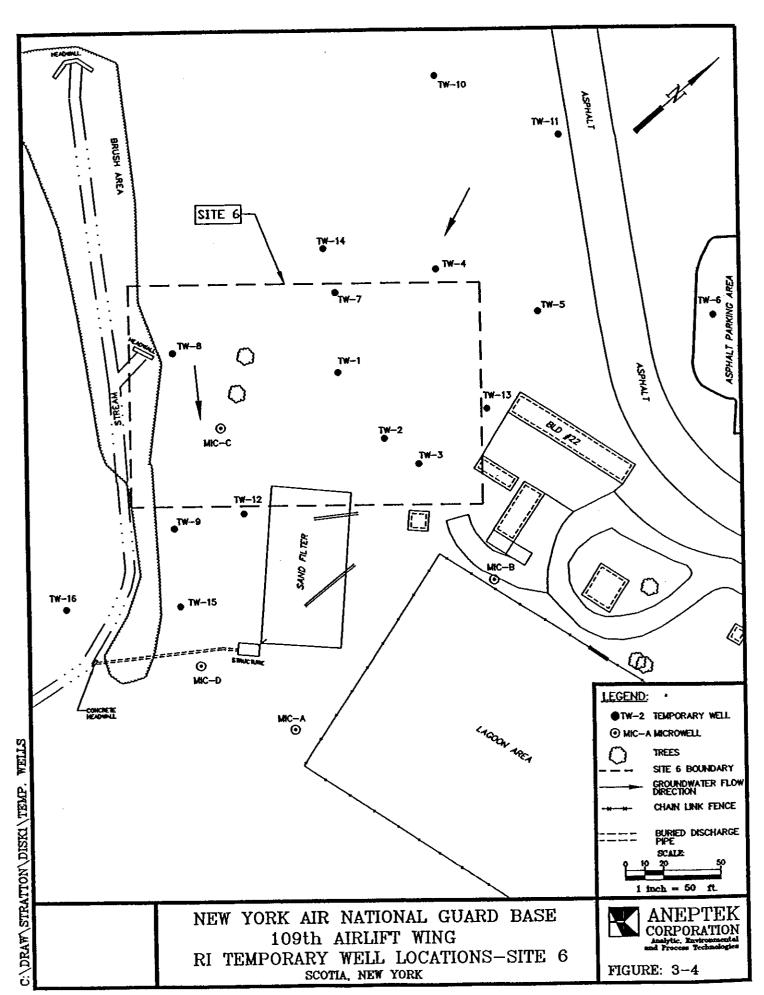
Field activities at Site 6 included the installation of two permanent groundwater monitoring wells, the installation of 16 temporary wells, and the advancement of 16 soil borings. Two rounds of groundwater samples were collected from the newly installed wells. One other monitoring well, which was installed earlier in the RI and is located within Site 6, was also sampled. Groundwater samples collected from the temporary wells were screened using a gas chromatograph (GC). Although 16 soil borings were advanced at Site 6, not every boring was sampled. Soil samples from selected borings were screened using the GC or sent to an off-site laboratory for full analysis. Soil boring and monitoring well locations are presented in Figure 3-3, temporary wells are presented in Figure 3-4. The results of the sampling events at Site 6 are discussed below.

3.3.1.1 RI Groundwater Sampling GC Screening Results

Groundwater samples were collected from 16 temporary wells and from one permanent well (6MW-03) for GC screening. All samples were screened using a modified Environmental Protection Agency (EPA) Method 8021 for trans-1,2,-dichloroethene (trans-1,2-DCE), cis-1,2-DCE, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. In the samples collected from the temporary wells, cis-1,2-DCE was the only compound which was detected above the New York State Department of Environmental Conservation (NYSDEC) drinking water standard of 5 micrograms per liter (μ g/L). The sample collected from temporary well (TW)-9 had the highest concentration at 50.1 μ g/L. Other compounds detected in this sample were PCE at 3.3 μ g/L, TCE at 1.14 μ g/L, and vinyl chloride at 1.01 μ g/L. NYSDEC drinking water standards for these three compounds are 5 μ g/L, 5 μ g/L, and 2 μ g/L, respectively. TW-12 had the next highest concentration of cis-1,2-DCE







at 34.2 μ g/L. Trichloroethene was also detected in this sample at 2.72 μ g/L. In the sample from TW-7, only cis-1,2-DCE was detected at a concentration of 6.87 μ g/L. In sample TW-15, cis-1,2-DCE was detected at 1.14 μ g/L and PCE at 4.71 μ g/L, both below NYSDEC drinking water standards. Temporary wells TW-2 and TW-10 were screened for VOCs using a full EPA Method 8021. The reported results for TW-10 were non-detect for all compounds. The sample collected from TW-2 reported only 1,3,5-trimethylbenzene at 1.33 μ g/L. Results from these two temporary wells are also presented in Table 3-1.

3.3.1.2 RI Groundwater Sampling Analytical Results

Two groundwater monitoring wells installed at Site 6 were sampled in accordance with the approved RI Work Plan (Aneptek, 1998). Groundwater samples were submitted to an off-site laboratory for the following analyses: VOCs by EPA Method 8260, semi volatile organic compounds (SVOCs) by EPA Method 8270, target analyte list (TAL) metals (total and dissolved inorganics) by EPA Method 6010, chlorinated herbicides by EPA Method 8150, cyanide by EPA Method 9010, propylene glycol by EPA Method 8015, pesticides/PCBs by EPA Method 8081, and tentatively identified compounds (TICs).

Two rounds of groundwater sampling were performed at monitoring wells 6MW-08 and 6MW-09, in May and June, 1999. Tables 3-2 and 3-3 present the analytical results for round one and two, respectively. Additionally, the groundwater sample analytical results from monitoring well 6MW-03, collected in October and December, 1998, are included in the Site 6 data set. In summary, the analyses for pesticides, PCBs, herbicides, cyanide and propylene glycol were all reported as not detected above the laboratory reported Practical Quantitation Limit (PQL) or less than the NYSDEC groundwater standards. The remaining analytical results for VOCs, SVOCs and inorganics are summarized as follows:

VOCs. Several VOCs in exceedance of the NYSDEC standards were detected in the Site 6 groundwater samples. These VOCs included cis-1,2-DCE, vinyl chloride and PCE. Cis-1,2-DCE was detected in 6MW-03 and 6MW-09 during the second round, and at it highest recorded concentration of 120 μ g/L in 6MW-03 in the first round. Vinyl chloride was detected in both rounds at 6MW-03, at a concentration of 16 μ g/L (first round) and 2.7 μ g/L (second round). PCE was detected in 6MW-09 at a concentration of 16 μ g/L in the second round. The laboratory did not report any significant VOC TICs.

SVOCs. Several SVOCs in exceedance of the NYSDEC groundwater standards were detected in the Site 6 groundwater samples. These included the polyaromatic hydrocarbons (PAHs) acenaphthene and 2-methylnapthalene, and the phenolic compounds 2,4-dinitrophenol, 4-nitrophenol, and phenol. Acenaphthene and 2-methylnapthalene were detected in the first round at 6MW-09 at concentrations of 40 μ g/L and 35 μ g/L, respectively. The phenolic compounds were detected in the second round at 6MW-08 and 6MW-09, with the highest combined concentration of 54 μ g/L at 6MW-09. No significant TICs were reported by the laboratory.

Inorganics. Several inorganic constituents were reported in exceedance of the NYSDEC groundwater standards and the Site 6 groundwater background. These inorganics included the

TABLE 3-1 TEMPORARY WELL GROUNDWATER SAMPLE RESULTS GC SCREENING STRATTON ANGB - SITE 6 SCHENECTADY, NEW YORK

	NOTE CALCAL		NV CTATE				SAMPLE NUMBERS	UMBERS			
ANALYTE	LIMITS ¹	FEDERAL MCL ²	DWQS ³	TW-1	TW-2	TW-3	TW4	TW-5	TW-6	LW-7	TW-8
s (ug/L)											
5.5-Trimethylbenzene	-	NA	'n	£	1.33	2	£	£	Z	Q	£
cis-1.2-Dichloroethene	-	2	ď	1.86	£	£	£	ΩŽ	g		£
Tetrachoroethene	_	NA	'n	£	£	Ð	Ð	£	£	g	Ð
Trichloroethene	_	\$	'n	£	£	g	£	Ð	g	2	Ð
Vinyl Chloride	_	7	7	1.04	g	g	£	Ð	2	£	£

	NOTECTION		NV STATE				SAM	SAMPLE NUMBERS	ERS			
ANALYTE	LIMITS1	FEDERAL MCL ²	DWQS ³	6-WI	TW-10	TW-11	TW-12	TW-13	TW-14	TW-15	TW-16	6MW-034
VOCs (ug/L)												ļ
1,3,5-Trimethylbenzene		NA	'n	Ð	£	SZ	Q	ę	£	Q Z	Q ·	QN
cis-1.2-Dichloroethene	_	70	ν,	£	£	SZ		Q Q	£	1.14	2	
Tetrachoroethene		Y Y	٧.	3.3	£	SN	£	£	£	4.71	S	Ê
Trichlomethene	-	٠,	ν,	1.14	£	SN	2.72	£	£	£	Q.	Q
Vinyl Chloride		7	7	10.1	£	NS	Q.	Ð	Q.	£	£	£
,												

ABBREVIATIONS:

ug/L- micrograms per liter DWQS - Drinking Water Quality Stds.

NA - Not Applicable ND - Not Detected

NS - Not Sampled

MCL - Maximum Contaminant Lev el MW - Monitoring Well

NYSDEC - New York State Dept. of Environm'l Conservation TW - Temporary Well VOCs - Volatile Organic Compounds

- NOTES.

 1) Contract Required Detection Limit f or Organics (CDRL)

 2) US EPA Drinking Water Regulations and Health A dvisories EPA 822-R-007,
 - May 1994.
- 3) NYSDEC Water Quality Standards and Guidance V alues, June 1998. Samples screened only for the compounds listed.
 - 4) 6MW-3 is a permanent g roundwater monitoring well which was sampled f or GC screening.

*Temporary Well-11 was not sampled.

DATA QUALIF IERS; or Federal regulatory limits.

TABLE 3-2 GROUND WATER SAMPLING RESULTS - FIRST ROUND SITE 6 SCHENECTADY ANGB SCOTIA, NEW YORK

	DETECTION	FEDERAL	NY STATE	BACKGR	מאונסי			SA	MPLE I	NUMBERS			
ANALYTE	LIMIT ¹	MCL ²	DWQS ¹	CON		6MW-	03	6MW-	08	6MW	-09	6MW	-19 ⁵
VOCs (ug/kg)								<u> </u>					
Tetrachoroethene	1 1	5	5	1	U	1	U	1	U	i	1	1.2	
cis-1,2-Dichloroethene	li	70	5*	ı			e e io iš	1	υİ	ı	U	ı	U
trans-1,2-Dichloroethene	1 1	100	54	l i	ΰ	0.7	J	i	ŭ	ī	Ŭ	i	Ū
· · · · · · · · · ·	1		54	l i	Ŭ	1.4	•	i	ŭ	i	Ŭ	1	Ŭ
Trichloroethene	1	5		-				_		_		,	
Vinyl Chloride] 1	2	2	1	U			1	U	1	U	1	U
Methylene Chloride] 1	NA	5°	1	U	1	U	1	U	1	U	1	U
Toluene	1	1,000	5*	1	U	1	U	1	U	1	ប	1	U
SVOCs (ug/L)													
bis (2-Ethylhexyl) phthalate	10	NA	5	12		11	U	10	υ	10	U	10	ι
Diethylphthalate	10	NA	NA.	10	U	11	Ü	10	Ü	10	J	10	ι
* •	10		50		j	11	Ü	10	Ŭ	10	Ú	10	į
Di-n-butylphthalate		NA		1				1					
2-Methylphenol	10	NA	NA NA	10	υ	11	U	10	U	1	3	10	ι
Naphthalene	10	NA	10	10	U	11	U	10	U	3	J	10	ι
2-Methylnaphthalene	10	NA	4.7°	10	U	11	U	10	U	4,573.41		10	U
Acenaphthene	10	NA	20	10	υ	11	U	10	U	S. Carlo	1.40	10	Į
Dibenzofuran	10	NA.	NA.	10	Ū	11	ŭ	10	Ū	30	j	10	τ
Fluorene	1		50°	10	U	11	U	10	บ	18	j	10	Ù
	10	NA				ı	_		-				
Phenanthrene	10	NA	50"	10	Ū	11	U	10	U	8	J	10	Ţ
Anthracene	10	NA	50°	10	U	11	U	10	U	2	1	10	τ
Phenol	10	NA	۱ ⁴	10	U	10	U	10	U	10	U	10	ι
2,4-Dinithrophenol	10	NA	10°/1°	10	U	10	U	10	U '	10	U	10	1
4-Nitrophenol	10	NA	i"	10	Ū	10	Ū	10	Ü	10	Ū	10	ι
PEST/PCBs (ug/L)								1					
	١ ,,	27.6	0.3	0.1	.,,	0.01		0.01	11		11	0.01	
4,4'-DDD	0.1	NA	0.3	0.1	U	0.01	U	0.01	U	0.01	U	1	Į
4,4'-DDT	0.1	NA	0.2	0.1	U	0.01	U	0.01	U	0.01	U	0.01	Ţ
HERBICIDES (ag/L)			İ			l						1	
2,4,5-TP (Silvex)	0.5	50	NA	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	ι
Pentachlorophenol (PCP)	0.1	1	1"	0.1	R	0.1		0.1	R	0.1	R	0.1	I
Dinoseb	0.1	7	l"	0.1	UJ	0.1		0.1	IJ	0.1	UJ	0.1	τ
Picloram	0.04	500	50	0.04	UJ	0.05	J	0.04	UJ	0.04	UJ	0.04	ũ
							_					1	
2,4-D	0.05	70	50	0.05	U	0.05	U	0.05	U	0.05	U	0.05	Ţ
CYANIDE, Total (mg/L)	10	200	200	10	U	0.01	U	10	U	10	U	10	τ
PROPYLENE, GLYCOL (mg/L)	1	NA	NA	ì	U	1	U	1	U	j	U	1	τ
DISSOLVED INORGANICS (ug/L)]			
Aluminum	200	NA	l NA	10.2	UJ	200	U	10.2	UJ	15.9	J	10.2	ι
Antimony	2.8	6	3	2.6	UJ	6	Ŭ	5.9	U	2.8	บ	2,4	Ì
_								l .					i
Arsenic	10	50	25	2.6	Ü	1.7	Ų	6.4	U	5	U	5.4	
Barium	200	2,000	1,000	78.8	J	154	J	80.8	J	167	J	162	
Beryllium	5	4	3°	0.4	J	0.2	U	0.1	U	0.1	U	0.1	1
Cadmium	5	5	5	0.4	J	0.3	U	0.2	U	0.2	U	0.2	
Calcium	5,000	NA	NA	71,900		133,000	J	126,000		92,700		95,900	
Chromium	10	100	50	14		0.5	U	0.6	U	0.6	U	0.6	1
Cobalt	50	NA.	5	0.6	U	0.8	Ŭ	0.7	j	0.6	Ü	0.6	,
Copper	25	1,300	200	0.5	UJ	2.7	U	0.5	UJ	0.5	UJ	0.5	Ų
Iron	100	NA	300	1.3	U	12.7	В	1.3	U	1.3	\mathbf{U}	1.3	
Lead	3	15	25	1.1	U	3	UJ	2.9	J	1.1	U	1.1	
Magnesium	5,000	NA	35,000°	18,600	J	32,200	J	18.21 70 11	. 85	13.00	47	\$ \$*** **	
Manganese	15	NA	300	85	J	15	U				ź	the Care	
Nickel	40	100	100	3.8	j	3.1	Ü	6	BJ	2	J	1.7	
Potassium	5,000	NA	NA	3,360	j	10,900	J	6,830	j	9,270	J	9,590	
Silver	10	NA	50	10	U	10	UJ	10	U	10	U	10	
Sodium	5,000	NA	20,000	6,870	j	2 × 10	2 A 1			45 (0.10)	1121		i k
Thallium	10	2	0.5°	1.1	U	10	Ü	1.1	Û	1.1	U	1.1	
Vanadium	50	NA.	NA.	1.2	Ŭ	50	Ŭ	1.2	Ŭ	1.2	Ü	1.2	
Zinc	20	NA NA	2000	9.2	1	20	U	4.4	J	1.2	J	2.4	
	. 20												

TABLE 3-2 (Cont.) GROUND WATER SAMPLING RESULTS - FIRST ROUND SITE 6 SCHENECTADY ANGB SCOTIA, NEW YORK

	DETECTION	FEDERAL	NY STATE	BACKGE	ROUND			SA	MPLE	NUMBERS			
ANALYTE	LIMIT	MCL ²	DWQS ³	CON	c.¹	6MW-	-03	6MW-	-08	6MW	-09	6MW-	.19 ⁵
TOTAL INORGANICS (ug/L)													_ 1
Aluminum	200	NA	NA	7,050	3	107	J	3,280	J	4,620	J	6,830	J
Antimony	2.3	6	3	2.3	U	6	U	2.3	U	3.5	U	2.3	U
Arsenic	10	50	25	6.8	U	7.3	U	2.2	U	3	U	7.9	U
Barium	200	2,000	1,000	198	J	143	J	141	1	200		224	
Beryllium	5	4	3 ^c	0.4	J	0.2	U	0.1	U	0.2	J	0.9	1
Cadmium	5	5	5	0.4	J	0.3	U	0.1	U	0.2	J	0.9	J
Calcium	5,000	NA	NA	71,800		110,000	j	120,000		93,200		94,100	
Chromium	10	100	50	14		10	U	4.3	U	8.9	J	15.5	
Cobalt	50	NA	5	8.8	J	1.2	U	3	J	3.7	J	6.2	J
Copper	25	1,300	200	13.6	J	4.8	U	5.8	J	8.7	3	19.8	J
Iron	1 100	NA	300	15,200		386	J	5,900		9,910	J	81.74	
Lead	3	15	25	6.7	J	3	UJ	5.2	J	7.7	J	9.7	J
Magnesium	5,000	NA	35,000°	21,000		27,600	J	MANUE.		~ \$ [\$5000		$[ky, h]_{ij}$, i
Manganese	15	NA	300	607		6337	1:2.	184		606		19.	
Nickel	40	100	100	20.4	J	4.1	J	10.7	J	11.3	J	16.7	J
Potassium	5,000	NA	NA.	4,680	5	9,200	Ţ	5,530	3	6,840	J	7,350	J
Silver	10	NA	50	ND		10	UJ	10	U	10	U	10	U
Sodium	5,000	NA	20,000	8,190		S39800	935.0	trate.	3	3.886		(4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
Thallium	10	2	0.5	10	U	V4 (4		10	U	10	U	10	U
Vanadium	50	NA.	NA.	17.4	J	0.8	J	7.1	J	11.6	j	17.5	J
Zinc	20	NA.	2000	62.1	•	9.9	J	66.6		29.8	J	45.9	J
		- " •	_,,,,					<u> </u>					

ABBREVIATIONS:

ug/L - micrograms per liter mg/L - milligrams per liter

DWQS - Drinking Water Quality Stds.

IDL - Instrument Detection Limit

MCL - Maximum Contaminant Level

NA - Not Applicable

NYSDEC - New York State Dept. of

Environmental Conservation

PCBs - Polychlorinated Biphenyls

SVOCs - Semi-Volatile Organic Compounds

NOTES:

- 1) Contract Required Detection Limit (CRDL)
- 2) US EPA Drinking Water Regulations and Health Advisories EPA 822-R-007, May 1994.
- 3) NYSDEC Water Quality Standards and Guidance Values, June 1998. Unless otherwise noted, the value listed is the State promulgated standard for the protection of drinking water from a groundwater
- 4) Background sample collected from 6MW-10
- 5) 6MW-19 is a duplicate sample of 6MW-9
 - The value listed is a guidance for the protection of drinking water from a groundwater source.
 - b) The value listed represents the maximum allowable concentration of phenolic compounds. Sum of all phenolic compounds may not exceed 1.0 ppb.
 - c) The value listed is a guidance for the protection of drinking water from a groundwater source.
 - d) The value listed represents the maximum allowable concentration of phenolic compounds. Total phenolic compounds may not exceed 1.0 ppb.

DATA QUALIFIERS:

- B Value is less than CRDL but greater than IDL.
- J The analyte was positively identified; the associated value is the approx. concentration of analyte in the sample
- R The analyte was rejected due to inability to meet quality control criteria.
- U Compound was analyzed for, but not detected
- UJ The analyte was not detected above the reported sample quantitation limit. However the reported quantitation limit is approximate and may or may not precisely measure the analyte of the sample.

Indicates concentration that exceeds either State or Federal regulatory limits.

TABLE 3-3 GROUND WATER SAMPLING RESULTS - SECOND ROUND SITE 6 SCHENECTADY ANGB SCOTIA, NEW YORK

	DETECTION	FEDERAL	NY STATE	BACKGR	OUND			SAN	(PLE N	IUMBERS			
ANALYTE	LIMIT ¹	MCL ²	DWQS ³	CON	c. '	6MW-0	13	6MW-4	08	6MW-	09	6MW-	295
VOCs (ug/kg)							20000000				X 86.0		166 (SA)
cis-1,2-Dichloroethene	1	70	5ª	i	U	34		1	U			61 8 3.0	
trans-1,2-Dichloroethene	1 1	100	5 ⁴	1	U	1	U	1	υ	1	U	1	U
Trichloroethene	1 1	5	5*	1	Ū	0.6	J	1	U	1.8		1.6	U
Vinyl Chloride	l i '	2	2	1	υ	2.7	J	1	U	1	U	1	U
Methylene Chloride	l î l	NA	5ª	1	U	1	U	1	U	1	U	1	U
Toluene	i	1,000	5ª	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	l i	5	5°	1	Ū	l ı	U	1	U	16		15 🐇	
Tetracinoroemene	1 1	_	-			<u> </u>	-				S KIMO MYSMAN	000000000000000000000000000000000000000	CAT XXX
SVOCs (ug/L)								errore et de	STONE SERVI		mow date	10	• •
Phenol	10	NA NA	1°	10	υ	10	U	19 g d		442 (6.4)	1	10	U
2,4-Dinithrophenol	10	NA	10°/1°	10	U	10	U	11	U	26	W.	045 Br	W
Diethylphthalate	11	NA	NA	10	U	11	U	10	U	10	U	10	U
4-Nitrophenol	10	NA NA	J ^u	10	U	10	U	1. 26	UJ	26	UL	325 34	
Di-n-butylphthalate	10	NA	50	1	J	11	Ū	11	U	11	U	10	U
bis (2-Ethylhexyl) phthalate	10	NA NA	5	12		11	Ū	1	J	11	U	1	J
	10	NA NA	10	10	υ	10	Ū	10	Ü	10	U	10	U
Naphthalene	10	NA NA	4.7	10	Ü	10	Ü	10	Ü	10	Ū	10	U
2-Methylphenol		1	I	10	U	10	Ü	10	U	10	Ü	10	Ŭ
Acenaphthene	10	NA.	20						U	10	Ü	10	U
Dibenzofuran	10	NA NA	NA 505	10	U	10	U	10		10	U	10	U
Fluorene	10	NA NA	50°	10	U	10	U	10	U				
Phenanthrene	10	NA	50°	10	U	10	U	10	U	10	U	10	U
Anthracene	10	NA NA	50°	10	U	10	U	10	U	10	U	10	U
PEST/PCBs (ug/L)	1					i							
	0.1	NA NA	0.3	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	NA NA	0.2	0.1	Ü	0.1	Ŭ	0.1	Ū	0.1	Ū	0.1	U
4,4'-DDT	0.1	NA.	0.2	"."	O	0.1	U	0.7	·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	"	_
HERBICIDES (ug/L)												0.05	U.
2,4,5-TP (Silvex)	0.5	NA	NA.	0.05	UJ	0.1	U	0.05	Ü	0.05	ΩJ		
Pentachlorophenol (PCP)	0.1	1	1 ^a	0.1	R	0.1	U	0.1	R	0.1	R	0.1	R
Dinoseb	0.1	7	l ^a	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	U.
Picloram	0.04	500	50	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U.
2,4-D	0.05	70	50	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
CYANIDE, Total (mg/L)	10	200	200	10	U	0.01	UJ	10	U	10	U	10	U
PROPYLENE, GLYCOL (mg/L)	1	NA.	NA	1	U	1	U	1	U	1	U	1	U
DISSOLVED INORGANICS (ug/L)										ŀ			
Aluminum	200	NA	NA NA	10.2	UJ	9.5	U	40.8	J	19.2	U	56.2	J
	6	6	3	2.6	UJ	1.6	ŪJ	6	U	6	U	6	Į.
Antimony		50	25	2.6	UJ.	4.9	Ü	10	Ü	10	Ū	10	ι
Arsenic	10	h		78.8	J	147	j	75.2	j	145	j	152	j
Barium	200	2,000	1,000 3°	1				0.1	Ú	0.1	Ü	0.1	ί
Beryllium	5	4	L	0.1	U	0.2	U	1		0.1	U	0.3	ι
Cadmium	5	5	5	0.2	U	0.3	Ü	0.3	U		U		ι
Calcium	5,000	NA	NA	71,900		174,000	J	113,300		120,000	.,	124,000	
Cobalt	50	NA	5	0.6	U	1.1	U	1.3	J	1.3	U	1.3	į
Соррет	25	1,300	200	0.5	UJ	0.5	U	1.5	J	1.2	j	2.1	
Iron	100	NA	300	1.3	U	8.9	U	ND		ND		ND	
Lead	3	15	25	1.1	U	1.5	U	ND		ND	- TOT 0404	ND	www.ac.ye.s
Magnesium	5,000	NA	35,000°	18,600	J	37,600	2.1	43,800	J	37,500		38,668	
Manganese	15	NA	300	85	1	1,080	1		*	659	J	623	
Potassium	5,000	NA	NA	3,360	J	7,820		2,470	J	6,840		6,830	
Silver	10	NA NA	50	10	Ū	3.8	UJ	ND	-	ND		ND	
4			20,000	6,870	ĵ	63,400			(3) 1X	76,500		79,495	(9)(2
Sodium	5,000	NA .		1 '						7.6		39	-1
Thallium	10	2	0.5°	1.1	U	1.5	U	3.9	S. D.	#260 E010 C00 2010 F00 60 60 60 60 60 60 60 60 60 60 60 60 6	*		
Vanadium	50	NA	NA	1.2	U	0.4	U	ND		ND		ND 21.7	
Zinc	20	NA	2,000	9.2	J	4.6	U	7.2	J	24.5		31.7	

TABLE 3-3 (Cont.) GROUND WATER SAMPLING RESULTS - FIRST ROUND SITE 6 SHCENECTADY ANGB SCOTIA, NEW YORK

	DETECTION	FEDERAL	NY STATE	BACKGE	ROUND			SAI	MPLE !	UMBERS			
ANALYTE	LIMIT ¹	MCL ²	DWQS ³	CON	c.4	6MW	-03	6MW-	08	6MW	-09	6MW-	.295
TOTAL INORGANICS (ug/L)							,			24.5		100	. 1
Aluminum	200	NA	NA	7,050	UJ	927		799		96.8	J	109	
Antimony	6	6	3	2.3	ប	1.6	UJ	6	U	6	U	6	U
Arsenic	10	50	25	6.8	U	3.4	ĵ	ND		ND	_	ND	
Barium	200	2,000	1,000	198	J	146	В	7.9	1	160	3	156	, J
Beryllium	5	4	3°	0.4	J	0.2	U	5	U	5	U	5	U
Cadmium	5	5	. 5	0.4	J	0.3	U	5	U	5	U	5	U
Calcium	5,000	NA	NA	71,800		143,000		103,200		122,000		119,300	
Chromium	10	100	50	14		1.1		10	U	10	U	10	U
Cobalt	50	NA	5	8.8	J	1.6		2.2	J	1.3	U	1.3	U
Соррег	25	1,300	200	13.6	J	3	J	3.4	J	2.4	J	3.1	J
Iron	100	NA	300	15,200		2,160		1,490		309		372	- 1
Lead	3	15	25	6.7	J	2		3	U	3	U	3	ប
Magnesium	5,000	NA	35,000 ⁶	21,000	1	32,600		39,500	J.	38,300		37,700	
Manganese	15	NA	300	607	Ţ	1,300	2.14	599		659		648	
Nickel	40	100	100	20.4	J	5.1	J	3.9	U	3.1	U	3	υ
Potassium	5,000	NA	NA	4,680	J	7,180		2,610	J	6,890		6,740	
Selenium	5	50	10	5	U	5	υ	2.4	UJ	2.4	UJ	2.9	UJ
Silver	10	NA	50	10	U	3.8	UJ	10	U	10	υ	10	U
Sodium	5,000	NA	20,000	8,190		48,400		112,000	11	11,300	8 0 4	78,306	(1) J
Thallium	10	2	0.5°	10	U	1.5	U	3.9		6.3	910		, UJ
Vanadium	50	NA	NA	17.4	J	2.9	J	1.9	J	1.1	U	1.1	U
Zinc	20	NA	2,000	62.1		71	U	18.7	J	27.8	J	31.1	1

ABBREVIATIONS:

ug/L - micrograms per liter mg/L - milligrams per liter CRDL - Contract Required Detection Limit DWQS - Drinking Water Quality Stds.

IDL - Instrument Detection Limit MCL - Maximum Contaminant Level

NA - Not Applicable

NYSDEC - New York State Dept. of Environmental Conservation

PCBs - Polychlorinated Biphenyls SVOCs - Semi-Volatile Organic Compounds VOCs - Volatile Organic Compounds NOTES:

- 1) Contract Required Detection Limit (CRDL)
- US EPA Drinking Water Regulations and Health Advisories EPA 822-R-007, May 1994.
- 3) NYSDEC Water Quality Standards and Guidance Values, June 1998. Unless otherwise noted, the value listed is the State promulgated standard for the protection of drinking water from a
- 4) Background sample collected from 6MW-10
- 5) 6MW-29 is a duplicate sample of 6MW-09
 a) The value listed is the NYSDEC standard for the protection of drinking water from a surface water source. The value listed is also the groundwater standard through reference as a Principal Organic Contaminant (POC).
 - b) The value listed is the Principal Organic Contaminant (POC) standard for the protection of drinking water from a groundwater source.
 - c) The value listed is a guidance for the protection of drinking water from a groundwater source.
 - d) The value listed represents the maximum allowable concentration of phenolic compounds. Total phenolic compounds may not exceed 1.0 ppb.

DATA QUALIFIERS:

- B Value is less than CRDL but greater than IDL.
- J The analyte was positively identified; the associated value is the approx. concentration of analyte in the sample
- R The analyte was rejected due to inability to meet quality control criteria.
- U Compound was analyzed for, but not detected
- UJ The analyte was not detected above the reported sample quantitation limit. However the reported quantitation limit is approximate and may or may not precisely measure the analyte of the sample.
- Indicates concentration that exceeds either State or Federal regulatory limits.

essential nutrient elements magnesium, manganese, sodium, and thallium. The concentration of thallium detected in the Site 6 groundwater slightly exceeded the NYSDEC guidance value of 0.5 $\mu g/L$. A promulgated NYSDEC groundwater standard for thallium is not currently available.

3.3.1.3 RI Soil Sampling GC Screening Results

At soil boring (SB) locations SB-1, SB-2, SB-4, SB-5, SB-7, and SB-9, samples were collected and sent to an off-site laboratory for GC screening analysis for VOCs using EPA Method 8021. A sample was also collected from the location of TW-2. Screening results are presented in Table 3-4. A summary of the screening results are as follows:

- SB-1, collected from 8 to 8.6 feet bgs, contained the heavy-end gasoline fuel components 1,2,4-trimethylbenzene (828 μg/Kg); 1,3,5-trimethylbenzene (254 μg/Kg); 4-isopropyltoluene (2200 μg/Kg); isopropylbenzene (468 μg/Kg); n-butylbenzene (252 μg/Kg); n-propylbenzene (180 μg/Kg); sec-butylbenzene (1980 μg/Kg); and tert-butylbenzene (441 μg/Kg). Additionally, the chlorinated VOCs cis-1,2-DCE (2600 μg/Kg) and TCE (2940 μg/Kg) were also detected. TCE was in exceedance of the NYSDEC cleanup concentration of 700 μg/Kg.
- SB-2, collected from 4 to 6 feet bgs, contained PCE at 140,000 μg/Kg. This exceeds the NYSDEC cleanup concentration of 1,400 μg/Kg.
- SB-4, collected from 4 to 4.7 feet bgs, contained PCE at 8480 μg/Kg. This exceeds the NYSDEC cleanup concentration of 1,400 μg/Kg.
- SB-5, collected from 3.4 to 4 feet bgs, contained PCE at 217 μ g/Kg.
- SB-9, collected from 4 to 6 feet bgs, contained TCE at 32.2 μg/Kg.
- SB-7, collected from 5 to 6 feet bgs, was nondetect for all of the previously identified contaminants, at a practical quantitation limit (PQL) of 27.7 μg/Kg.

Sample TW-2, collected from 3.5 to 4 feet bgs, contained 1,2,4-trimethylbenzene (3310 μ g/Kg); 1,3,5-trimethylbenzene (2900 μ g/Kg); 4-isopropyltoluene (1630 μ g/Kg); ethylbenzene (622 μ g/Kg); isopropylbenzene (3900 μ g/Kg); n-butylbenzene (604 μ g/Kg); n-propylbenzene (1220 μ g/Kg); secbutylbenzene (785 μ g/Kg); tert-butylbenzene (491 μ g/Kg); and total xylenes (1668 μ g/Kg). The xylene result was the only VOC detected in exceedance of NYSDEC cleanup concentrations. These above listed compounds are typical heavy-end, gasoline fuel components.

3.3.1.4 RI Soil Sampling Analytical Results

A total of ten soil samples were collected from various soil borings and submitted for laboratory analysis for VOCs, SVOCs, Pest/PCBs, herbicides, total cyanide, and target analyte list (TAL) metals. The results of the analyses for soil boring samples are presented in Table 3-5. A summary of the analytical

TABLE 3-4 SOIL BORING SAMPLE RESULTS GC SCREENING SCHENECTADY ANGB - SITE 6 SCOTIA, NEW YORK

		Jacon				SAN	SAMPLE NUMBERS / SAMPLE INTERVALS	ERS / SAMP	LE INTERV,	VLS			
ANALVTE	BKGRND	_	SB-1	SB-2	SB-3	TW-22	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10
	CONC.	CONC.	8-8.6'	4-6'		3.5-4'	4.4-4.7	3.4-4'		.9-9		4-5'	
VOCs (ug/kg)									-			!	Ş
1 2 4-Trimethylbenzene	S	ž	828	S	SN	3,310	Ð	2	SS	Q Q	SN	Q N	£.
1.2 & Trimethylhensene	2	Ą	254	Q	SZ	2,900	Ð	S S	SN	Ω	SS	£	SZ
1,5,5-11 intemployment	2 5	¥ N	2 200	Ź	SZ	1.630	QN	S	SZ	Q	SZ	Q	SZ
4-Boptopynouene	2 5	V.V	2,500	Ž	Z	S	QN	ΩŽ	NS	Q	SZ	Q	SZ
cis-1,z-Dichloroemene	2 5	2500	200.7	2	y Z	622	Q	N N	NS	Ą	SS	£	SZ
Einyloenzene	2 5	2,200	<u> </u>	2 2	Z	3 900	2	Q	SN	ΩN	NS	S	SN
isopropyi benzene	2 5	000	3 5	<u> </u>	S Z	107	Q Z	QX	SN	QX	SN	Ω	SN
m,p-Aylene	2 5	207.1	Ş	<u> </u>	SZ.	604	QX	Q	SN	Q	SN	Q	SZ
n-Butyloenzene	2 5	C 1	767	2 2	Ž	1 220	S	Q	SN	QX	SN	ΩŽ	SN
n-Fropyioenzene	2 2	Ç V	3 5	2 5	z z	178	2	2	SN	QX	SN	Q.	SZ
O Aylene	<u> </u>	¢ 2	1 080	2 5	S Z	785	2	Q	SN	QZ	SN	ΩN	SZ
sec-part)penzene	2 5		741	2	SZ	491	2	QX	SX	Ð	NS	QX	SZ
ten-butyloenzene	2 (Ç .	į į	A STATE OF THE STA	SIX	5	87.38	217	SZ	2	SZ	Q	SZ
Tetrachoroethene	2	1,400	J.		27	į	THE STANDARD	: :		-	J.V.	22.2	Ž
Trichloroethene	QN	700	(I) X(1/c)	2	SZ	<u>Q</u>	Q N	Q N	Š	<u> </u>	Ç.	77.7	ĝ

ABBREVIATIONS:

MCL - Maximum Contaminant Level ug/kg - micrograms per kilogram

MW - Monitoring Well

NA - Not Applicable

ND - Not Detected

NYSDEC - New York State Dept. of Environm'l Conservation NS - Not Sampled

SB - Soil Boring

TOC - Total Organic Carbon

TW - Temporary Well VOCs - Volatile Organic Compounds

NOTES:

 NYSDEC TAGM HWR-94-4046 J anuary 24, 1994, adjusted for TOC content.

2) TW-2 represents a soil sample collected during installation of a temporary well.



CAD\SharedFiles\RI Sample result tables (revised)\table 6-25

TABLE 3-5 SOIL SAMPLE RESULTS SCHENECTADY ANGB - SITE 6 SCOTIA, NEW YORK

			NYSDEC				SA	MPLE N	UMBER.	S			
ANALYTE	DETECTION LIMIT ¹	BCKGRND CONC.	CLEANUP CONC. ²	SB- 4-6		TW- 3-4	- 1	TW- 3-4		SB-1 2-4		SB-1: 2-4'	
OCs (ug/kg)	†	3.170	NTA	17		6	บ	6	U	1	U	200	J
cis-1,2-Dichloroethene	6	ND	NA NA	17 6	υ	6	บ่	12	٦ ا	l l	บ่	1	Ü
tert-Butylbenzene	6	ND		14	١	6	บิไ	1	บ	i	บิ	95	·
Trichloroethene	6	ND	700*		I	10	j	17	ĭ	1	บ	1	ι
Ethylbenzene	6	ND	5,500*	6	u				, i	ì	υ	1	ί
Isopropyl benzene	6	ND	NA	6	U	69	J	150					i
4-Isopropyltoluene	6	ND	NA NA	6	บ	52	1	140	j	1	U	1	
n-Propylbenzene	6	ND	NA NA	6	υ	84	ı	220	ı	1	U	1	Ţ
1,1,1,2-Tetrachloroethane	6	ND	NA NA	7.1		6	U	5.6	υ	1	υ	1	ι
1.3.5-Trimethylbenzene	6	ND	NA NA	6	υj	110	1	380	J	1	υl	1	ţ
1.2.4-Trimethylbenzene	6	ND	NA	6	U	170	J	600	J [1	υ	1	- 1
Tetrachloroethene	6	ND	1.400*	8,600	J	7	J	6	UJ	4	บ	520	
m,p-Xylene	6	ND	1,200*	6	υ	49	J	140	ı	1	บ	1	τ
trans-1,2-Dichlorofluromethane	ľ	ND	NA NA	6	Ū	6	Ū	6	U	1	י ט ו	6,2	
Toluene	1	5.4	1,500*	6	ŭ	6	Ū	6	Ū	1	บไ	1,4	
Trichlorofluromethane	1 1	ND	NA NA	6	Ü	6	Ū	6	Ū	1	IJ	1	Į
VOCs (ug/kg)									_			***	
Fluoranthene	390	340	50,000**	390	U	44	J	68	J	38	ı	390	1
Benzo (b) fluoranthene	390	330	1100	390	บเ	390	បរ	370	UJ	370	U	390	1
2,2'exibis (I Chloropane)	390	ND	NA	390	UJ	390	UJ	370	ן נט	370	U	390	1
Pentachlorophenol	980	ND	1,000 or MDL	980	R	970	R	930	R	940	U	970	
n-Nitrosodimethylamine	390	330	NA	390	UJ	390	UJ	370	UJ	370	U	390	
Pyrene	390	ND	50,000**	390	υ	390	UJ	55	J	41	J	390	
2-Methylnaphthalene	390	ND	36,400	390	Ü	88	J	370	υ	370	U	390	
	390	ND	13,000	390	Ŭ	110	1	370	υj	370	Ū	390	
Naphthalene		ND	NA	390	UJ	390	υj	370	υ	370	υJ	390	1
Hexachlorocyclopentadiene	390	1	1 1			390	U	370	Ü	940	υj	970	į
2,4-Dinitrophenol	390	ND	NA .	390	U					370	U	110	•
bis (2-Ethylhexyl) phthalate	390	ND	50,000**	390	U	390	U	370	U	-	- 1		i
Benzo (a) anthracene	390	180	224 or MDL	390	U	390	U	370	บ	370	U	390	
Chrysene	390	250	400	390	U	390	U	370	U	370	U	390	
Benzo (a) pyrene	390	210	61 or MDL	390	U	390	U	370	U	370	U	390	i
PEST/PCBs (ug/kg)			7.100		U	3.9	U	3.7	บ	3.8	U	3.9	,
4,4'-DDD 4,4'-DDT	3.9 3.7	6	2,100 2,100	3.9 3.9	U	3.9	U	3.7	U	3.8	บ	3.9	i
HERBICIDES (ug/kg)			1							İ			
2,4·D	0.6	ND	500	0.58	R	0.58	R	0.56	R	0.6	R	0.6	
2,4,5-TP (Silvex)	0.6	0.24	700	0.58	UJ	0.58	U	0.56	U	0.6	UJ	0.6	(
Dinoseb	1,1	ND	NA.	1.2	UJ	1.2	Ū	1.1	U	1.1	R	1.2	
Picloram	0.5	ND	NA.	0.47	UJ	0,46	UJ	0.44	UJ	0.4	UJ	0.5	1
CYANIDE, Total (mg/kg)	0.5	ND	ND	ND		ND		ND		ND		ND	
NORGANICS (mg/kg)			<u> </u>				_	Luciani	returitedous (200)				
Aluminum	200	15,321	SB	14,200		14,200	J	18,800		13,100	J	10,200	
Antimony	60	17	SB	1.1	U	0.5	U	1 1	υ	2.7	U	1.4	
Arsenic	2	8	7.5 or SB	16.4	1	7.6	J	6.8	J	11.2		5.4	
Barium	200	97	300 or SB	115		90.3	J	156	J	75.4	J	66.2	
Beryllium] 1	0.81	.16 or SB	0.9		0.6	J	j., 1.4	J	0.7	J	0.5	
Cadmium	1	ND	1 or SB	1.1	.	0.7	J	0.7	J	0.2	J	0.3	
Calcium	5,000	11,383	SB	2,070	J	3,360		1,840		2,860	J	5,060	
Chromium	2	23	10 or SB	24.5	. (44)	16.7		21.6		17.7		14	
Cobalt	50	16	30 or SB	25.9	N. SERVICE AND AND A SERVICE	11.6	J	13.8	J	14.2	J	9	
Copper	25	42	25 or SB	48		24.5		24		32.2		21.1	
Iron	100	33,876	2,000 or SB			23,200		31,800		30,800	J	19,000	
Lead	3	45	SB	25.6	J	15.9	3	10	J	20.2		12.3	
	5,000	8,120	SB	6,690	•	4,420	-	4,990	•	4,600		4,480	
Magnesium			,		3670 (SEE			363		535	j	205	
Manganese	15	855	SB	148	dec	464					Marie Committee Contract		
Nickel	40	29	13 or SB	59.7		21.4	_	24.6	_	30			
Potassium	5,000	1,930	SB	2,286	У В	1,370	J	1,910	J	1,760	J	1,590	
A-1	2	ND	SB	0.6		0.6	U	0.7	Ū	1.3	J	L	
Silver													
Sodium	5,000	380	SB	232		192	υ	39.3	U	67	U	66	
	5,000 10	380 ND	SB SB	232 0.5		192	บ บ	39.3 0.5	U	1.8	U U	0.9	
Sodium													

TABLE 3-5 (Cont.) SOIL SAMPLE RESULTS **SCHENECTADY ANGB - SITE 6** SCOTIA, NEW YORK

	DETECTION	BCKGRND	NYSDEC					MPLE N		S			
ANALYTE	LIMIT	CONC.	CLEANUP	SB-1	3	SB-1	4	SB-	15	SB-5	54	SB-1	6
OCs (ug/kg)	LELINIA								1				
cis-1,2-Dichloroethene	6	ND	NA	1	υ	1	υl	1	บ	1	U	1	U
tert-Butylbenzene	6	ND	NA	1	υl	1	U	1	υ	1	U	1	U
Trichloroethene	6	ND	700*	1	Ü	1	υl	1	U	1	υ	1	U
		ND	5,500*	i	Ü	1	υİ	1	υ	1	υ	1	U
Ethylbenzene	6		NA	i	บ	i	υl	1	บิ	1	U	1	υ
Isopropy! benzene	6	ND			บ	1	บั	i	ΰ	i	Ū	i	Ū
4-Isopropy Itoluene	6	ND	NA	1	-		บ	i	บัไ	1	บั	i	Ū
n-Propylbenzene	6	ND	NA NA	1	U	1		-	Ü	1	ŭ	i	Ŭ
1,1,1,2-Tetrachloroethane	6	ND	NA NA	1	U	1	U	1		-	บ	i	υ
1,3,5-Trimethy lbenzene	6	ND	NA	1	U	1	U	1	U	1			U
1,2,4-Trimethylbenzene	6	ND	NA	1	U	1	υ	ì	U	1	U	1	
Tetrachloroethene	6	ND	1,400*	1	U	1	υ	1	սլ	1	U	1	U
m,p-Xylene	6	ND	1,200*	1	U	i	U	1	บ	1	υį	ì	U
trans-1,2-Dichlorof luromethane	1	ND	NA	I	U	l 1	บ	1	U	1	U	1	U
Toluene	l i	5.4	1,500*	1	U	1	v l	1	U	0.8	U	1	U
	i i	ND	NA	1	Ū	1	υΙ	1	บไ	1	U	1	U
Trichlorofluromethane	1	ND	l ''' l	· ·	•	1	Ť						
110C- (8)						1	- 1						
VOCs (ug/kg)	390	340	50,000**	410	U	390	υΙ	60	,	410	υ	94	J
Fluoranthene	390	330	1,100	410	U	390	บั	55	ĵ	410	ŪΙ	78	J
Benzo (b) fluoranthene	1			410	Ū	390	ŭΙ	370	ប៉	410	ŭ	390	Ū
2,2'oxibis (I Chloropane)	390	ND	NA		_	1	Ü	920	ΰ	1,000	บั	970	Ū
Pentachlorophenol	980	ND	1,000 or MDL	1,000	U	970				410	Ü	390	Ü
n-Nitrosodimethy lamine	390	330	NA	410	U	390	U	370	U			98	j
Pyrene	390	ND	50,000**	410	U	48	1	70	J	410	U		
2-Methylnaphthalene	390	ND	36,400	410	υ	390	U	370	U	410	U	390	U
Naphthalene	390	ND	13,000	410	U	390	U	370	U	410	U	390	U
Hexachlorocyclopentadiene	390	ND	NA NA	410	UJ	390	U	370	U	410	U	390	U
2,4-Dinitrophenol	390	ND	NA	1,000	U	390	U	920	U	1,000	UJ	390	u
bis (2-Ethylhexyl) phthalate	390	ND	50,000**	410	U	390	U	370	UJ	410	U	390	U
Benzo (a) anthracene	390	180	224 or MDL	410	Ū	54	J	370	U	410	U	45	j
* *	390	250	400	410	Ü	390	υ	370	U	410	U	47	J
Chrysene	I	210	61 or MDL	410	U	39	1	40	Ĵ	410	Ū	52	j
Benzo (a) pyrene	390	210	01 OF MIDL	*10	U	"	•	~	•	'''	•		
nnama an - (1					!					
PEST/PCBs (ug/kg)	3.9	6	2,100	4	U	0.7	U	2.8	3	2.1	U	3.9	U
4,4'-DDD	3.7	3	2,100	4	U	3.9	ΰ	0.9	j	4.1	Ū	3.9	τ
4,4'-DDT	3.7	,	2,100	"	·) "	·	"	-	""		l	
			ļ	1		1				ļ			
HERBICIDES (ug/kg)			500	0.6	R	0.6	R	0.5	R	0.6	R	0.6	F
2,4-D	0.6	ND	500				Ü	0.5	Ü	0.6	R	0.6	ũ
2,4,5-TP (Silvex)	0.6	0.24	700	0.6	UJ	0.6						1.2	1
Pentachlorophenol (P CP)	1.1	ND	1,000 or MDL		R	1.2	R	1.1	R	1.2	R		1
Dinoseb	1.1	ND	NA NA	1.2	R	1.2	R	1.1	R	1.2	R	1.2	
Picloram	0.5	ND	NA NA	0.5	UJ	0.5	UJ	0.4	UJ	0.5	UJ	0.5	Į,
	į		i			1		l		i		١	
CYANIDE, Total (mg/kg)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
		i				1		1		1		l	
INORGANICS (mg/kg)			1	l l					more productive	(1 10000000000000000000000000000000000		l	
Aluminum	200	15,321	SB	14,600	J	14,000	J	1,400		19,000			
Antimony	60	17	SB	2,9	υ	2.8	U	2.6	υ	2.9	U	1.4	ı
Arsenic	2	8	7.5 or SB	8	J	111	30 g # 6	47	57.12.11	1673	38 A 2 A 4	6.2	
Barium	200	97	300 or SB	93.6	J	65.5	J	116	J	124	J	80	
Beryllium	1	0.81	.16 or SB	0.8	J	0.7	j	221.00			L.		, 13
	l i	ND	l or SB	0.1	Ŭ	0.2	Ĵ	0.5	J	0.9	J	0.2	
Cadmium		11,383	SB	2,250	ĵ	1,590	j	7.020	J	6,010	J	5,210	
Calcium	5,000		10 or SB	17.4	,	21.8	•	19.4	•	22.5	-	13.5	
Chromium	2	23					j	9.4	J	10.6	J	10.2	
Cobalt	50	16	30 or SB	9.5	J	15.6	,		,		•	20	
Copper	25	42	25 or SB	24	_	31.7		22.8		24.2	1		
Iron	100	33,876	2,000 or SB	27,900	J	24,000	j	32,100	J	33,600	J	22,200	
Lead	3	45	SB	16.0	J	18.4	J	18.4	J	22.3	_	14.1	
Magnesium	5,000	8,120	SB	3,940	J	5,930	J	6,440	J	5,610	J	3,870	
Manganese	15	855	SB	421	J	661	J	418	ı	551	J	522	
Nickel	40	29	13 or SB	23.0		THAT THE Y		21.5		23.5	J	15.6	
	5,000	1,930	SB	1,710	J		2 *	1,520	j	1,890	j	1,380	
Potassium				1,710	Ú	1.3	U	1.6	ĵ	1.7	j	1	
Silver	2	ND	SB						Ú	72	Ú	33.8	
Sodium	5,000	380	SB	72.2	Ū	69.2	U	64					
Thallium	10	ND	SB	1.9	U	1.8	U	1.7	U	1.9	U	0.9	
Vanadium	50	30	150 or SB	29.8		25.7		35		38		24	
Zinc	20	116	20 or SB	78.2	J	76.3	J	56	J	64.9	J	48	

ABBREVIATIONS:

ug/kg - micrograms per kilogram mg/kg - milligrams per kilogram DWQS - Drinking Water Quality Stds.

IDL - Instrument Detection Limit MDL - Method Detection Limit

NA - Not Applicable

ND - Not Detected 49 SB-55 is a duplicate sample of SB-15 NYSDEC - NewYorkStateDept.ofEnviroConservh *) As per TAGM #4046, total VOCs < 10 ppm.

NOTES:

2) NYSDEC TAGM HWR-94-4046, Jan 24, 1994. Where applicable, the soil cleanup objectives were corrected for TOC levels. Where the GW based Soil Cleanup Objectives differed from the Recommended Soil Cleanup Objectives, the more stringent value was used.

1) Contract Required Detection Limit (CRDL)

3) TW-22 is a duplicate sample of TW-2

TAGM - Technical&AdministrativeGuidanceMemo

VOCs - Votatile Organic Compounds
CAD\SharedFiles\RI Sample result tables (revised)\table 6-26

DATA QUALIFIERS;

- B Value is less than CRDL but greater than IDL.

 J The analyte was positively identified; the associated value is the approx. concentration of analyte in the sample
- R The analyte was rejected due to inability to meet quality control criteria.
- U Compound was analyzed for, but not detected
- UI The analyte was not detected above the reported sample quantitation limit. However the reported quantitation limit is approximate and may or may not precisely measure the analyte of the samole.
- Indicates concentration that exceeds either State or Federal regulatory limits.

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findings, including significant tentatively identified compounds (TICs) reported by the laboratory, is presented below.

- SB-2. Sample collected from 4 to 6 feet bgs. VOCs detected included cis-1,2-DCE (17 μg/Kg); TCE (14 μg/Kg); 1,1,1,2-tetrachloroethane (7.1 μg/Kg); and PCE (8,600 μg/Kg), of which only PCE was in excess of the NYSDEC cleanup standard (1,400 μg/Kg). No significant VOC TICs were reported by the laboratory. No significant SVOCs were reported by the laboratory. Trace amounts of several PAHs, near their respective PQL, were recorded. The laboratory did not report the presence of any pesticides, herbicides, PCBs or cyanides. Significant inorganics detected above the NYSDEC cleanup criteria included arsenic (16.4 mg/Kg), beryllium (0.9 mg/Kg), cadmium (1.1 mg/Kg), chromium (24.5 mg/Kg), cobalt (25.9 mg/Kg), copper (48.8 mg/Kg), nickel (59.7 mg/Kg) and zinc (132 mg/Kg). Iron (40,500 mg/Kg), manganese (888 mg/Kg), and potassium, (2,280 mg/Kg) were also detected above NYSDEC cleanup criteria.
- TW-2. Sample was collected from a depth of 3 to 4 feet bgs. A duplicate sample of TW-2, TW-22, was also collected from this same depth. Although no VOCs were detected above available background or NYSDEC cleanup standards, several heavy end petroleum related compounds were detected in TW-2 and TW-22 at elevated levels relative to the other sample results. N-propylbenzene (84 to 220 μg/Kg), 1,3,5-trimethylbenzene (110 to 380 μg/Kg) and 1,2,4-trimethylbenzene (170 to 600 μg/Kg) had the highest concentrations. Only two inorganics, aluminum, detected at 18,000 μg/Kg, and beryllium, detected at 1.0 μg/Kg, exceeded NYSDEC cleanup standards (15,321 μg/Kg and 0.81 μg/Kg, respectively). These were detected in the duplicate sample, TW-22.

Although the sample results for the same compounds from TW-2 were comparable, they did not exceed either of these standards. The laboratory did not report the presence of any pesticides, herbicides, PCBs or cyanides.

- SB-11. Sample collected from 2 to 4 feet bgs. was found to be relatively free of organic contamination. No significant VOCs, SVOCs, pesticides, herbicides, PCBs, or cyanide were reported. Two inorganic compounds which only slightly exceeded NYSDEC cleanup criteria were arsenic at 11.2 mg/Kg and nickel at 30 mg/Kg. The cleanup standards for these two compounds are 8 mg/Kg and 29 mg/Kg, respectively.
- SB-12. Sample collected from 2 to 4 feet bgs. VOCs detected in this sample included cis-1,2-DCE (200 μg/Kg); trans-1,2-dichlorofluromethane (6.2 μg/Kg); TCE (95 μg/Kg); PCE (520 μg/Kg); and toluene (1.4 μg/Kg), all of which are less than the NYSDEC cleanup standards. No significant VOCs TICs were reported by the laboratory, nor were there any SVOCs, pesticides, herbicides, PCBs, or cyanide reported. No inorganic compounds were detected above NYSDEC cleanup criteria.
- SB-13. Sample collected from 2 to 4 feet bgs. No significant VOCs, SVOCs, pesticides, herbicides, PCBs, or cyanide were reported. No inorganic compounds were detected above NYSDEC cleanup criteria.
- SB-14. Sample collected from 2 to 4 feet bgs. No significant VOCs, SVOCs, pesticides, herbicides, PCBs or cyanides were reported. Inorganics detected at concentrations slightly above

the NYSDEC cleanup criteria included arsenic (10.4 mg/Kg), nickel (35 mg/Kg), and potassium (2,150 mg/Kg).

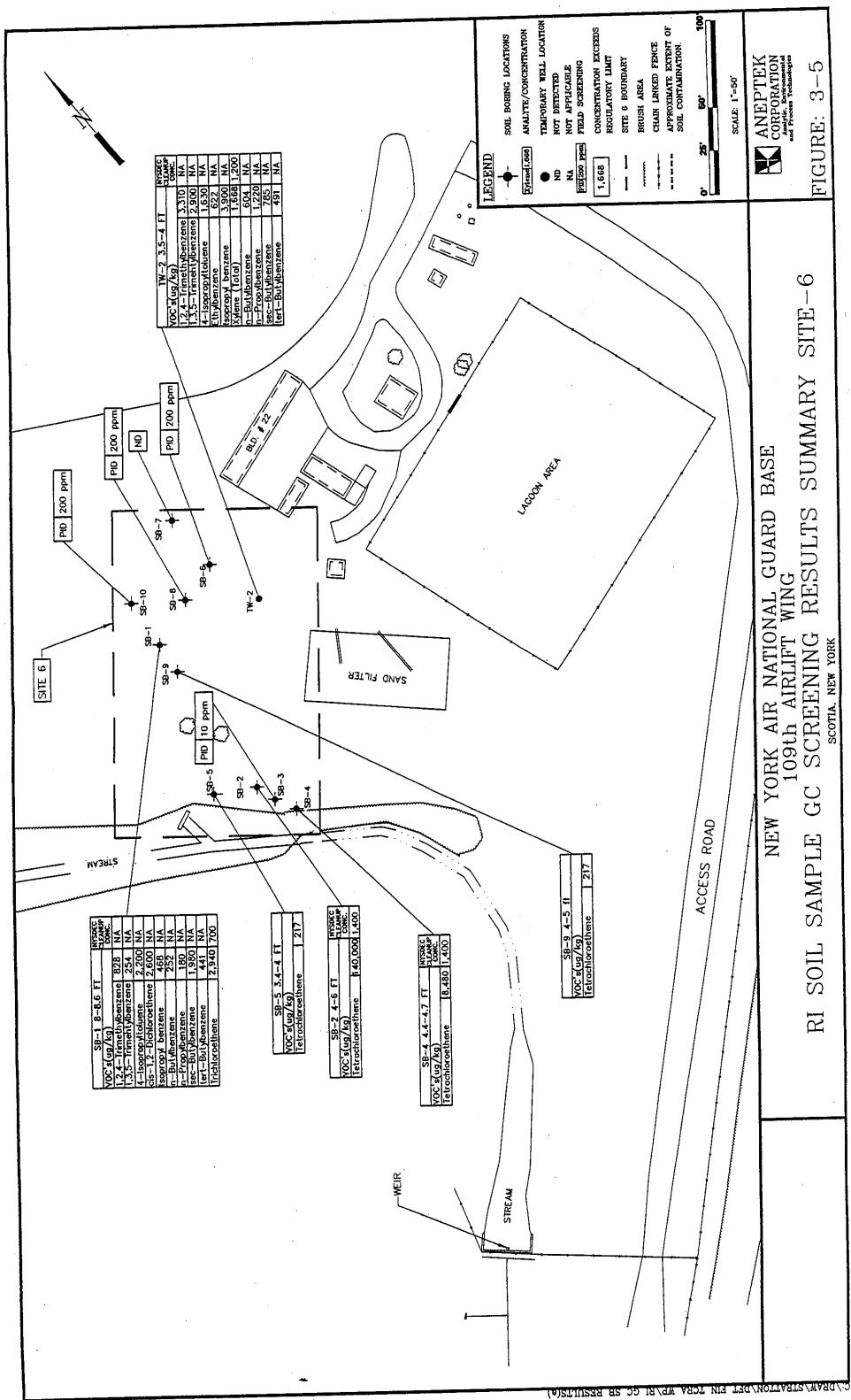
- SB-15. Sample collected from 2 to 4 feet bgs. No significant VOCs, SVOCs, pesticides, herbicides, PCBs or cyanides were reported. A duplicate sample of SB-15, SB-55, was also collected from this same depth. Inorganics detected at concentrations slightly above the NYSDEC cleanup criteria included aluminum (17,400 mg/Kg), arsenic (8.7 mg/Kg), barium (116 mg/Kg), beryllium (1 mg/Kg), and vanadium (35 mg/Kg). Sample results from the duplicate sample, SB-55, were almost identical to the results from the original sample.
- SB-16. Sample collected from 2 to 4 feet bgs. No significant VOCs, SVOCs, pesticides, herbicides, PCBs or cyanides were reported. Of the inorganic compounds analyzed for, only beryllium, at 1.0 mg/Kg, was detected above the NYSDEC cleanup criteria of 0.81 mg/Kg.

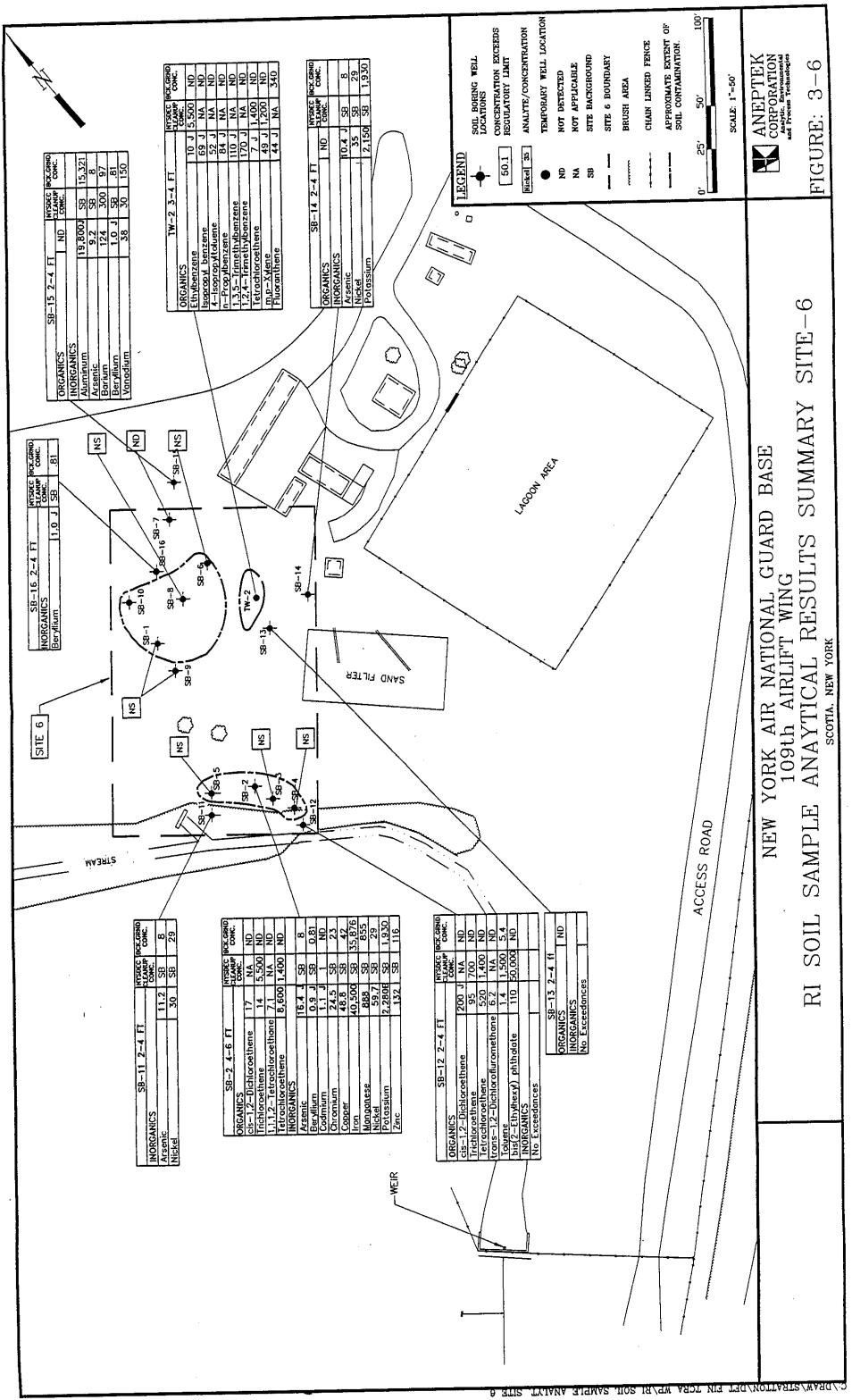
3.4 Remedial Investigation Conclusions

Within Site 6, the RI revealed three apparently separate and distinct soil contaminant locations. The dominant Contaminants of Concern (COCs) within these three areas are inorganics and volatile organic compounds. These areas, identified by their specific soil contaminant in reference to a soil boring location, are as follows:

- Tetrachloroethene (a.k.a. PCE.): This soil contaminant is centered near soil boring location SB-2, with diminished levels extending northwest to SB-5 and southeast to SB-4. The concentration of PCE is above the NYSDEC criteria for soil based on laboratory analytical results.
- Trichloroethene (TCE): This location is approximately 100 feet north (up gradient) from the PCE location. This area is approximately centered near the soil borings SB-1. The concentration of TCE is above the NYSDEC criteria for soil based on laboratory screening data.
- Weathered Fuel Constituents (heavy-end residual): This contaminant location is centered near TW-2, and possesses trace amounts (7 ug/kg, estimated) of PCE. The fuel is significantly weathered and is void of its lighter-end components, including benzene and toluene. With the exception of a single laboratory screening result for xylenes, all soil contaminants were detected below the NYSDEC soil criteria at this location.

Soil sample GC screening data is summarized in Figure 3-5, soil sample analytical data is summarized in Figure 3-6. Downgradient of the above referenced locations where PCE and TCE were detected in soil, the more mobile and soluble degradation product cis-1,2-DCE was detected in groundwater. In a down gradient monitoring well location from Site 6, 6MW-09, both cis-1,2-DCE and PCE were detected above the NYSDEC criteria for groundwater. In two down gradient temporary well locations near the Site 6/3 boundary, TW-9 and TW-12, cis-1,2-DCE was also detected above the NYSDEC criteria for groundwater. Vinyl chloride was also detected in TW-9 and TW-12, but at a level just below the NYSDEC criteria. In TW-1, cis-1,2-DCE was detected in the groundwater at a level just below the NYSDEC criteria.

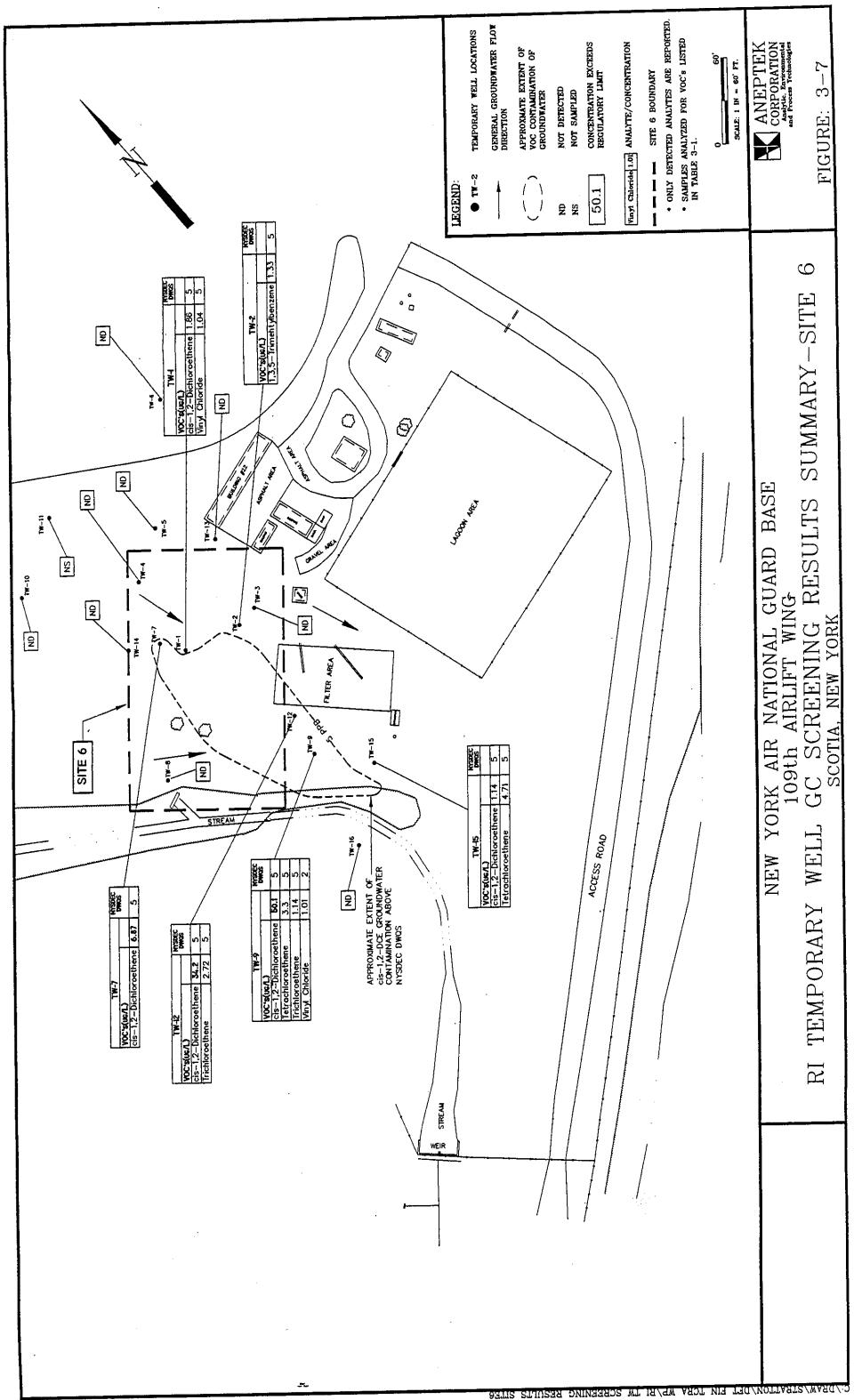


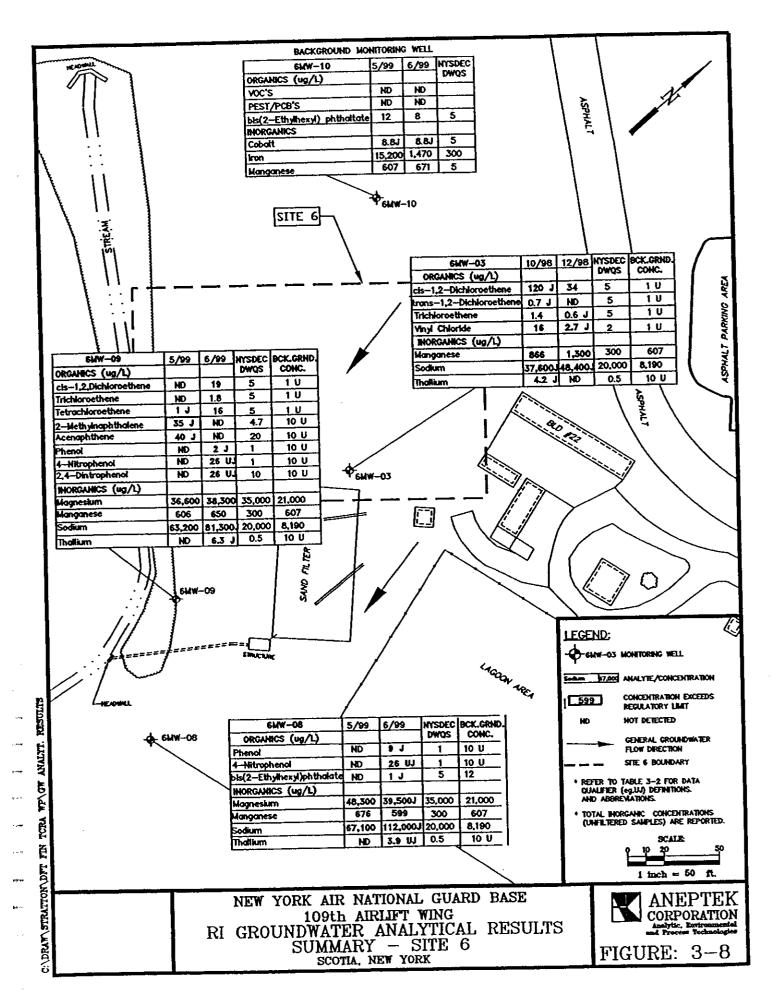


Monitoring well 6MW-08 and microwells MIC-A and MIC-D, located down gradient from Site 6 (Figure 3-4), did not possess the chlorinated VOC contaminants. Cis-1,2-DCE and vinyl chloride were detected in 6MW-03 at levels that exceeded the NYSDEC criteria for groundwater quality. The presence of cis-1,2-DCE and vinyl chloride at 6MW-03 may have resulted from the degradation of the PCE and TCE soil contamination located further up gradient. Temporary well GC screening results are summarized in Figure 3-7, groundwater analytical results are summarized in Figure 3-8.

In summary, groundwater contamination at Site 6 extends approximately 190 feet in a north /south direction from TW-7 to 6MW-09, and approximately 70 feet in a east/ west direction from 6MW-03 to MIC-C, with the width of the plume diminishing as it approaches 6MW-09. These dimensions are estimates based on the results of the RI. It is believed that the full extent of groundwater contamination has not been delineated. Further investigative activities designed to fully delineate the groundwater contamination at Site 6 were conducted in June 2002 during a Supplemental Data Collection (SDC), the results of which were not available at the time this report was written. The results of the SDC will be reported in a Technical Memorandum (TM), expected to be completed in early 2003.

The soil contamination centered near TW-2 does not appear to be generating any groundwater contamination. A groundwater sample collected from TW-2 possessed 1,3,5-Trimethylbenzene at a concentration of $1.33\mu g/L$, below the NYSDEC drinking water standard of $5\mu g/L$. In monitoring well 6MW-03, located directly down gradient from TW-2, gasoline fuel constituents were not detected during the RI.





SECTION 4.0

4.0 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

This section presents a preliminary analysis of Federal and State ARARs and additional criteria To-Be-Considered (TBC). Applicable requirements are those clean-up standards, standards of control, or other substantive environmental protection requirements, criteria or limitation promulgated under Federal or State law which specifically address a hazardous substance, pollutant, contaminant, remedial action, location or other circumstances at a CERCLA site. Relevant and appropriate requirements are those Federal and/or State requirements that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location or other circumstance at a CERCLA site, address problems or situations sufficiently similar to those encountered at a CERCLA site that their use is well suited to the particular site. TBC criteria are non-promulgated advisories or guidance issued by federal or state agencies that, although not legally binding, can be used in determining the level of clean-up for protection of health and the environment.

4.1 Methodology

The determination of ARARs/TBCs for the TCRA was based on a review of: (1) the types, quantities and extent of contaminants potentially present at the site, (2) local considerations of the site, and (3) the types of actions being considered to mitigate the public health and environmental threats posed by the release of contaminants from the site. Following this, the universe of Federal and State requirements is examined and all chemical-specific, location-specific and action-specific ARARs pertinent to current or potential future conditions at the site are determined. Also identified are the additional State or Federal criteria and guidance (TBCs) which may be used during the CERCLA remedial response process. This analysis gives consideration to the requirements of the "CERCLA Compliance with other Laws Manual" (EPA, 1988b) as well as the "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA" (EPA, 1988a).

The Chemical-specific ARARs for the TCRA are presented in Table 4-1. The Location-specific ARARs pertinent to the TCRA are initially evaluated in Table 4-2. Other criteria, advisories, and guidance to-be-considered are presented in Table 4-3. A general listing of chemical-specific ARAR and TBC concentration values are provided in Table 4-4 soils/sediment.

TABLE 4-1

POTENTIAL CHEMICAL-SPECIFIC ARARS FOR SITE 6

	STSOUNGS
ARARS	
Federal ARARs 1. Clean Water Act (CWA) Ambient Water Quality Criteria (AWQC); CWA Section 304	Federal AWQC are health-based criteria that have been developed for 95 carcinogenic and non-carcinogenic compounds. AWQC for the protection of human health provides levels for exposure both from drinking the water and consumption of aquatic organisms (i.e. fish), and from consumption of fish alone. AWQC for the protection of aquatic life includes acute and chronic levels for freshwater and marine organisms. Remedial actions involving contaminated surface water or groundwater must consider water uses and the circumstances of the release or threatened release.
2. Safe Drinking Water Act (SDWA) National Drinking Water Regulation (40 CFR 141)	Local wells use groundwater for drinking water supplies; therefore, the SDWA MCLs and Maximum Contaminant Level Goals (MCLGs) are potential ARARs for the aquifer. MCLs are legally enforceable federal drinking water standards, and MCLGs are nonenforceable health goals established by USEPA.
3. Clean Air Act	Any remedial action at the PPBA may generate air emissions. If so, the Clean Air Act requirements for emissions must be met. Clean Air Act standards include both Ambient Air Quality Standards (AAQS) and National Emissions Standards for Hazardous Air Pollutants (NESHAPS).

TABLE 4-1 (Cont.)
POTENTIAL CHEMICAL-SPECIFIC ARARS AT SITE 6

	SISGONAS
ARARS	
State ARARs 1. New York State Rules for Inactive Hazardous Waste Sites	This regulation includes the New York State regulations for inactive hazardous waste sites.
6 NYCRR Subpart 5/2 2. New York State water quality regulations 6 NYCRR Chapter X	This regulation establishes the requirements for the State Pollutant Discharge Elimination System (SPDES) program. This program provides the standards for surface water and drinking
	water to protect numan nearly and the carried and 6 NYCRR Parts 701 and 702 include surface water standards and 6 NYCRR Part 703 includes groundwater standards.
3. New York State Hazardous Waste Regulations	This regulation includes the standards for groundwater monitoring for releases from solid waste management units.
4. New York State Drinking Water Regulations 10 NYCRR Part 5; NYSDEC TOGS 1.1.1	This regulation provides the New York State Department of Health drinking water quality standards. These regulations would apply to groundwaters used as drinking water supplies. Specific
	standards and guideline values are included in the guidance document TOGS 1.1.1.
5. New York Air Quality Regulations 6 NYCRR Parts 256 and 257	These regulations include the New York State requirements for air quality. 6 NYCRR Part 256 describes the State Air Quality Classification System. 6 NYCRR Part 257 includes ambient air
	quality standards. These requirements would be AKAKS II a remedial action is implemented.

TABLE 4-2 POTENTIAL LOCATION-SPECIFIC ARARS AT SITE 6

	STORONGE
ARARS	
Federal ARARs 1. National Environmental Policy Act (NEPA) (40 CFR 6, Appendix A); Protection of Wetlands, (EO 11990), Executive Order	Appendix A of 40 CFR 6 sets forth policy for carring out provisions of Protection of Wetlands Executive Order. Under this order, federal agencies are required to minimize the degredation, loss, or destruction of wetlands, and to preserve the natural and beneficial values of wetlands. Appendix A requires that no remedial alternative adversely affect a wetland if another practicable implementing the chosen alternative must be mitigated. During the FS process, the identification and evaluation of alternatives for the site will include an evaluation of each alternative's impact on any wetlands identified at or near the PPBA.
2. Endangered Species Act of 1973, 16 USC 1531 <u>et seq.</u> (50 CFR 81, 225, 402)	Directs the state to establish programs for the protection of endangered or protected species in the state's jurisdiction. The states can apply for federal assistance by filing an application with the Federal Government and entering into a cooperative agreement. In complying with the requirements of Section 404, the New York Department of Fish and Wildlife should be contacted to determine if any threatened or endangered species exist in the vicinity of the work area.
3. Migratory Bird Treaty Act of 1972	The Migratory Bird Treaty Act of 1972 implements many treaties involving migratory birds. This statute protects almost all species of native birds in the U.S. from unregulated "take" which can include poisoning at hazardous waste sites. The Act is a primary tool of the U.S. Fish and Wildlife Service and other Federal agencies in managing migratory hirds.

TABLE 4-3 OTHER CRITERIA, ADVISORIES, AND GUIDANCE TO-BE CONSIDERED

Comment	SYNOPSIS
Federal TBC's 1. Environmental Protection Agency (EPA) Reference Doses (RfDs)	EPA RfDs are dose levels developed for non-carcinogenic effects. They are considered levels unlikely to cause significant adverse health effects associated with a threshold mechanism of action in human exposure for a lifetime. RfDs are used to characterize risks of groundwater contaminant exposure.
2. EPA Carcinogen Assessment Group - Potency Factors (CAGs)	EPA CAGs were developed from Health Effects Assessments (HEAs), or evaluations by the Carcinogen Assessment Group, and present the most up-to date cancer risk potency information. CAGs complete the individual incremental cancer risk resulting from exposure to contaminants.
3. Acceptable Intake- Chronic (AIC) and Subchronic (AIS) - EPA Health Assessment Documents	BPA developed these two guidance documents for assessing risks and determining contaminant transport and fate. The AIC and AIS EPA Health Assessment Documents provide values developed for the RfDs and HEAs for non-carcinogenic compounds. AIC and AIS values characterize the risks from these contaminants.
4. EPA Health Advisories (Office of Drinking Water)	EPA Health Advisories are estimates of risks due to consumption of contaminated drinking water. The advisories consider non-carcinogenic effects only, and should be considered for contaminants in groundwater used for drinking water.
State TBCs 1. NYSDEC TAGM HWR-94-4046	This guidance document provides cleanup standards for soils in New York State. These criteria are not promulgated standards but may be used to establish site-specific cleanup goals.
2. NYSDEC Air Guide 1	This document provides guidance for the control of toxic ambient air concentrations in New York State, and would be useful in establishing the allowable air emissions from a remedial action.

TABLE 4-4
POTENTIAL CHEMICAL-SPECIFIC ARARS AND TBCs AT SITE 6
SOIL/SEDIMENT

Parameters	Soil Criteria (a)		Sedin	nent Criter	ia (b)
			Aquatic Toxicity		Human Health		Wildlife Residue
Metals (mg/kg)							
Aluminum	SB						
Antimony	SB		5				
Arsenic	7.5 or SB					_	
Barium	300 or SB			╂╼╌┼╸			
Beryllium	0.16 or SB			╂╼╌╁╌		- +	
Cadmium	1 or SB		0.8				
Chromium	10 or SB		26	 			
Copper	25 or SB		19	 			
iron	2000 or SB		2.4 %	┨		 	
Lead	SB		27	╂╌╌╂		┤	
Manganese	SB		428	 		┨	
Mercury	0.1		0.11			-	
Nickel	13 or SB		22	1-1		1	
Selenium	2 or SB			╀┈┼			
Silver	SB			╂╾╼┼		 	
Thallium	SB		ļ	╃┼		 	
Vanadium	150 or SB					╂	
Zinc	20 or SB		85			 	
2110						+	
Semivolatile Organics (mg/kg)						+	
Acenaphthene	50	c,e	7.3	C		╅──	
Anthracene	50	c,e	<u> </u>		0.007		<u> </u>
Benz(a)anthracene	0.224 or MDL	c,e		_	0.007	C	
Benzo(b)fluoranthene	1.1	.c,e	<u> </u>	_	0.007	C	
Benzo(k)fluoranthene	1.1	c,e			0.007	C	
Benzo(g,h,i)perylene	50	c,e			0.007	 _	
Benzo(a)pyrene	0.061 or MDL	c,e	 		0.007 0.007	C	
Chrysene	0.4	c,e			0.007	+ 6	
Dibenz(a,h)anthracene	0.014 or MDL	c,e	<u> </u>				
Dibenzofuran	6.2	c,e			<u></u>		
Fluoranthene	50	c,e					1
Fluorene	50	c,e			0.007	 _	
Indeno(1,2,3-c,d)pyrene	3.2	c,e			0.007	_ c	
2-Methylnaphthalene	36.4	c,e			 	- -	-
Naphthalene	13	c,e			ļ	- -	
Phenanthrene	50	c,e	1.39	<u> </u>	 		
Pyrene	50	c,e	<u> </u>		<u></u>		<u></u>

4-6

TABLE 4-4 (Cont.) POTENTIAL CHEMICAL-SPECIFIC ARARS AND TBCs AT SITE 6 SOIL/SEDIMENT

Parameters	Soil Criteria (a)			Sed	iment Crit	eria (b)
			Aquatic Toxicity	,	Human Health		Wildlife Residue
Volatile Organics (mg/kg)		c,d		1	0.006	C	
Benzene	0.06		0.005	1	0.000	┼ ╵	
Chlorobenzene	1.7	c,d	0.035	C			
Ethylbenzene	5.5	c,d		<u> </u>			
	1.5	c,d_		<u> </u>			
Toluene	1.2	c,d					<u> </u>
Xylenes (total)	7.9	c,d	0.12	C	<u> </u>		ļ
1,2-Dichlorobenzene	1.6	c,d	0.12	С			<u> </u>
1,3-Dichlorobenzene		c,d	0.12	С			
1,4-Dichlorobenzene	8.5	 	0.91	C		 	1
1,2,4-Trichlorobenzene	3.4	c,d	1 0.91	1 0	<u> </u>		

Notes:

SB = Site Background

MDL = Method Detection Limit

mg/kg = milligrams per kilogram

ug/L = micrograms per liter.

- (a) NYSDEC TAGM HWR-94-4046, January 24, 1994.
- (b) NYSDEC Sediment Criteria, December, 1989.
- (c) Values are TOC dependent. Values presented in this table assume a TOC of 1%.
- (d) Total VOCs in soit should not exceed 10 mg/kg.
- (e) Total SVOCs in soil should not exceed 500 mg/kg.

SECTION 5.0

5.0 DESCRIPTION OF TIME CRITICAL REMOVAL ACTION

The scope of this TCRA involved the excavation, transportation, and disposal of contaminated soil from three previously identified areas of concern within Site 6: Area A, Area B, and Area C. The removal action was conducted from April 22 through April 26, 2002. Activities conducted in conjunction with the performance of this removal action included the following: delineation of the areas of concern; the collection of soil samples for waste profiling; excavation, transportation, and disposal of contaminated soils; field screening of excavated soils and backfill material; air monitoring for total VOC's and airborne particulates during excavation activities, confirmatory sampling, backfilling and compaction of excavations, and site restoration. All field activities conducted during this TCRA were in accordance with the Final Time Critical Removal Action Work Plan and Attachments (Aneptek, March, 2002). A detailed description of each of the TCRA removal activities is presented below.

5.1 Delineation of Areas of Concern

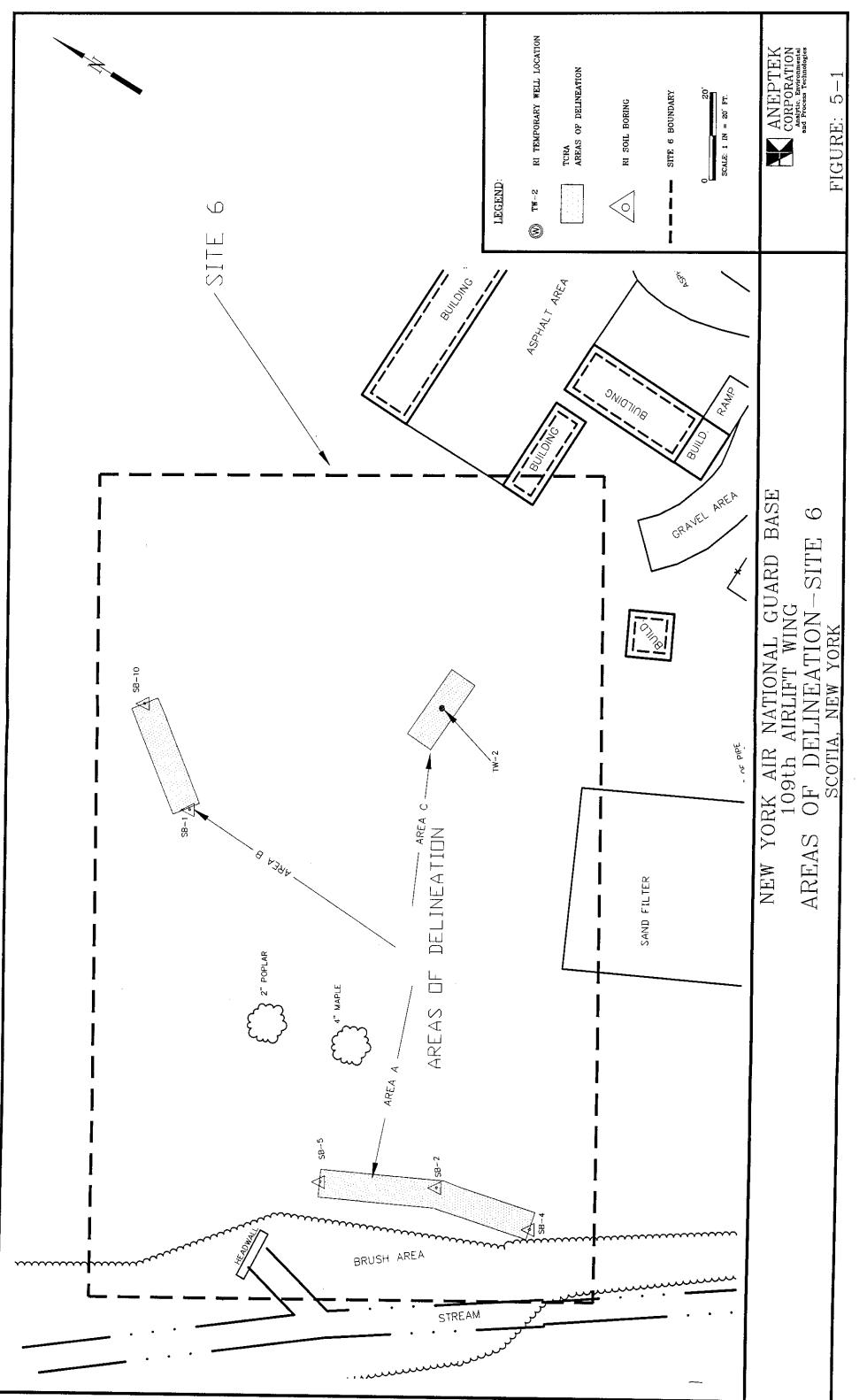
Prior to the start of the removal action, the RI soil boring (SB) and temporary well (TW) locations used to pinpoint the areas of concern within Site 6 were relocated and marked by ABD Engineers and Surveyors of Schenectady, New York. This engineering firm was previously used to survey the locations of the soil borings and monitoring wells installed during the RI. The following soil borings and temporary wells were relocated: SB-4, SB-5 (delineating Area A), SB-1, SB-10 (Area B), and TW-2 (Area C). Based on an estimated volume of 50 cubic yards (cu/yds) of contaminated soil in each area (Draft Final Feasibility Study, Aneptek March 2001), Aneptek personnel placed pin flags further delineating the width and length of each area. Areas of delineation are shown in Figure 5-1.

5.2 Waste Profile Sampling

Prior to the start of the removal action, soil samples were collected from each delineated area and analyzed for Total Petroleum Hydrocarbons (TPH) per EPA Method 8015, as required by the disposal company, Environmental Soils Management Inc., (ESMI) of Fort Edward, New York. One sample was collected from each area in accordance with NYSDEC STARS Memo #1, Petroleum-Contaminated Soil Guidance Policy, August 1992. Samples were collected by personnel from the subcontractor hired to conduct the soil removal, Precision Industrial Maintenance (PIM), Inc., of Schenectady, New York. As these samples were for waste profiling only, they needed only be collected from the areas to be excavated, not from the precise areas and depths of known contamination. The samples were collected from a location approximately in the center of each area. Samples were collected from a depth of approximately 2 to 4 feet bgs using a hand auger.

5.3 Excavation, Transportation, and Disposal of Contaminated Soils

A combined total of 253 tons of contaminated soils were excavated from all three areas at Site 6. All areas were delineated in the field and utilities cleared prior to the start of any excavation. PIM, Inc., was subcontracted by Aneptek to conduct all excavation and transportation of soils. Cedar Hill Trucking of Schenectady, New York was subcontracted by PIM to provide disposal trucks to transport the soil to the disposal facility, ESMI. Soil was excavated by a Ford® "Excavator" backhoe. The soil excavations proceeded from the ground surface to fractured shale/bedrock, a



depth of between 6 to 8 ft bgs in each area. Soils were placed in the disposal trucks directly from the excavation. There was no stockpiling of soils during this removal action. Soils were then delivered to the disposal facility for thermal incineration and subsequent disposal.

5.4 Field Screening

During the excavation of all three areas, soil samples were collected and screened in the field using photoionization detection (PID) headspace screening methods. Six headspace samples were collected and screened at each location. A RAE Systems MiniRAE 2000® PID equipped with a 11.7 electron volt (eV) lamp probe was used to perform the headspace screening. Samples for headspace screening were collected directly from the excavator bucket. Approximately 250 grams of soil was placed in a plastic Ziplock® baggie, sealed, and allowed to warm for approximately 15 minutes. After the samples had sufficiently warmed, one corner of the plastic baggie was opened and the tip of the probe was inserted into the baggie. The resulting reading recorded total VOC's in parts per million (ppm). The result was then logged in the field logbook. Headspace screening locations for Areas A, B, and C, are shown in Figures 5-2, 5-3, and 5-4, respectively.

5.5 Air Monitoring

Air monitoring throughout this TCRA was conducted in accordance with the NYSDOH Community Air Monitoring Plan (CAMP). In accordance with this plan, the ambient air surrounding the areas of excavation, both upwind and downwind, was continuously monitored for both total VOC's and particulates (fugitive dust) during excavation activities. A RAE Systems MiniRAE 2000® PID equipped with a 11.7 electron volt (eV) lamp probe was used to monitor and record total VOC's. A MIE PDR-1000 Dust Monitor® was used to monitor and record particulate concentrations. In accordance with the CAMP, all air monitoring results were data logged and archived for future review, if needed.

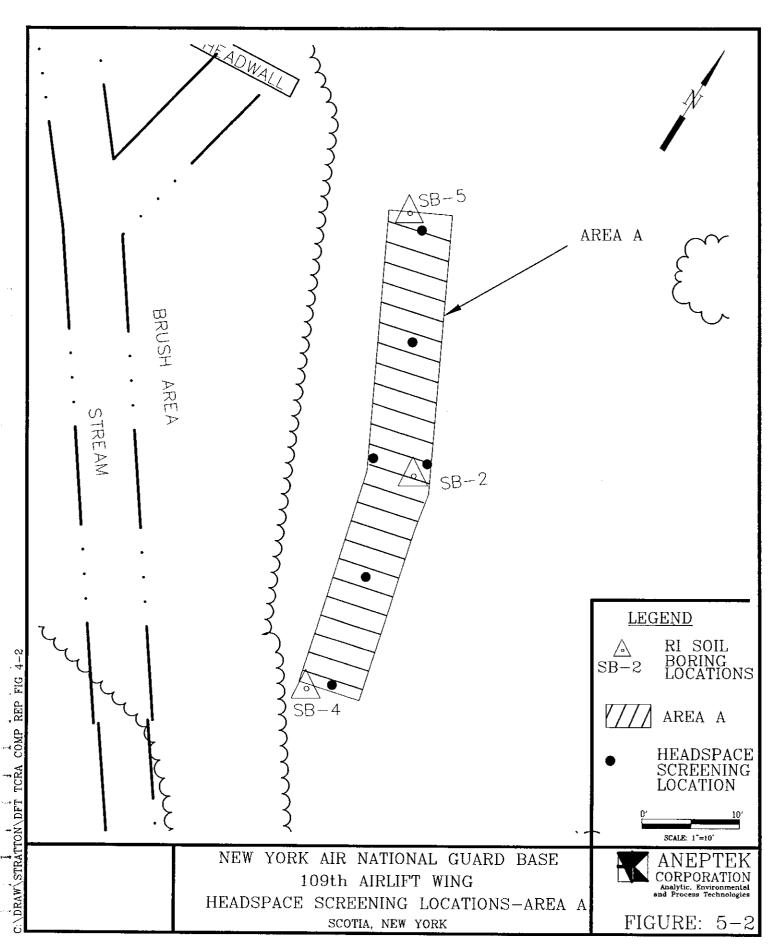
5.6 Equipment Decontamination

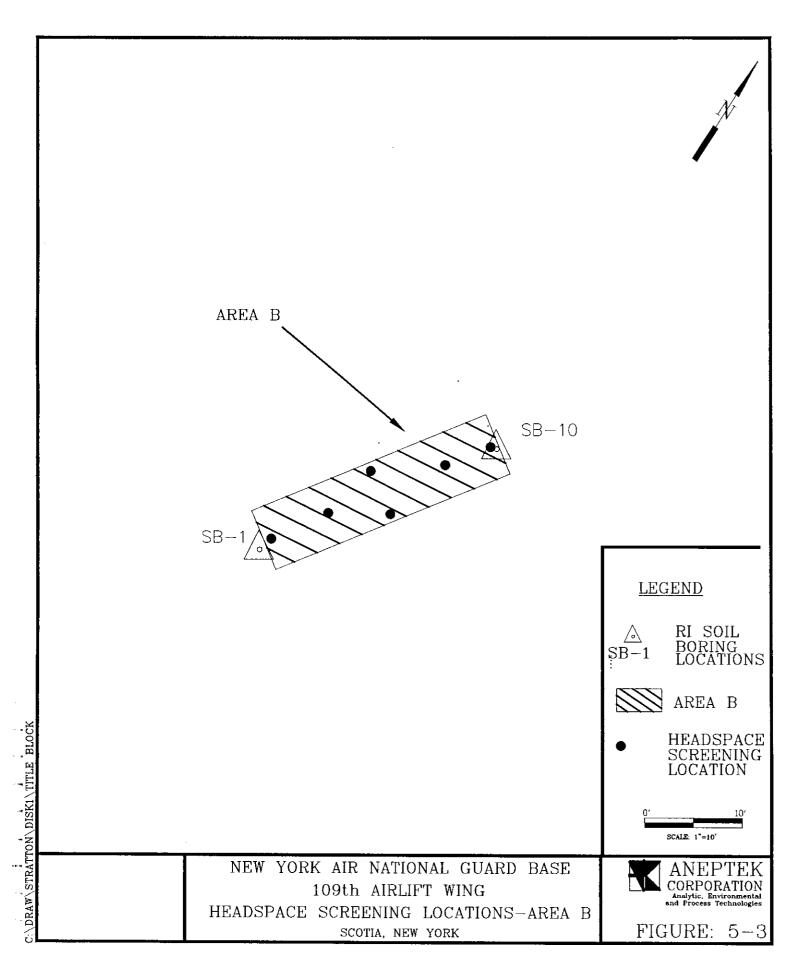
All sampling equipment used during this TCRA was purchased new and was un-used at the time of sampling. Sampling equipment used during this removal action consisted of stainless steel spoons and scoopulas. All sampling equipment was decontaminated prior to any sampling event. In the event that individual sampling equipment was used at more than one sample location, the equipment was decontaminated between each sampling event. The following procedure was used for decontamination of soil sampling equipment:

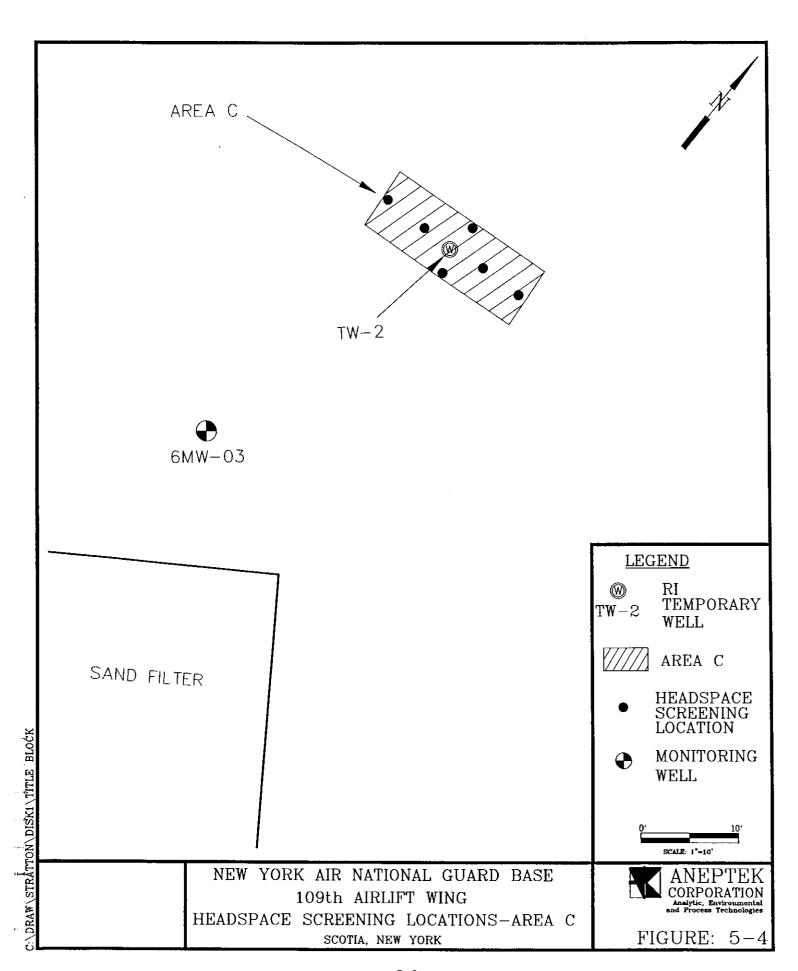
- Wash and scrub with laboratory-grade detergent (Liquinox® or equal)
- Rinse with potable water
- Rinse with methanol
- Rinse with potable water
- Rinse with demonstrated analyte-free deionized water
- Air dry and wrap equipment in aluminum foil

5.7 Confirmatory Sampling

A total of eighteen (18) confirmatory soil samples were collected from among the three areas during the performance of this TCRA. Samples were submitted to Severn Trent Laboratories, Newburgh,







New York, and analyzed for VOC's per EPA Method 8260B. One soil sample was collected from each sidewall and two samples were collected from the bottom of each excavation. Unless otherwise noted, sidewall samples were collected from the middle of each sidewall, approximately one third of the way up from the bottom of the excavation. Samples collected from the bottom of each excavation were collected between 5 to 10 feet from the end of each excavation. In addition to the 15 confirmatory samples, quality control samples that were collected included two (2) duplicate samples, two (2) decontamination rinsate blanks, and one (1) pair of matrix spike/matrix spike duplicate (MS/MSD) samples. Confirmatory soil sampling locations for Areas A, B, and C, are shown in Figures 5-5, 5-6, and 5-7, respectively

5.8 Backfilling, Compaction, and Site Restoration

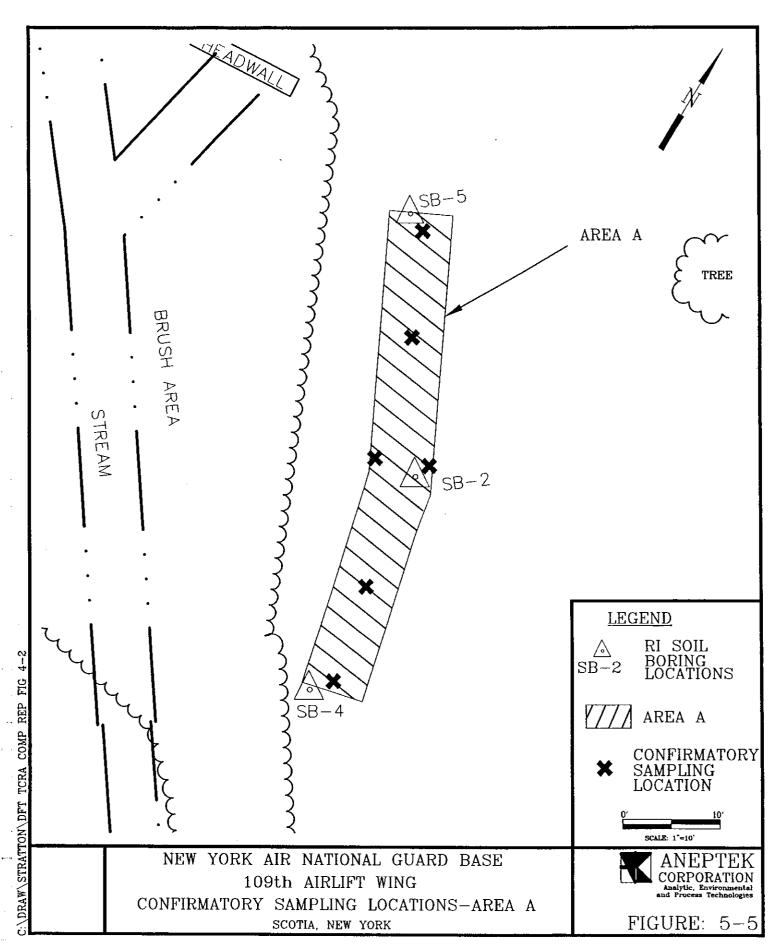
To complete the removal action activities, the excavations were backfilled using an off-site borrow material supplied by PIM Inc. Backfill material was clean and free of boulders and organic debris. The backfill material was screened for total VOCs by PID headspace screening methods prior to placement. Once the backfill material was placed in an excavation, it was compacted using the excavator bucket to tamp down the soil. When the backfill material reached close to grade level, clean topsoil was brought in and placed over the backfill material. The topsoil was then further compacted by running the excavator over the soil. Grass seed was then spread over each excavated area. Backfilling, compaction, and site restoration was continued to the satisfaction of the Base Environmental Manager (EM).

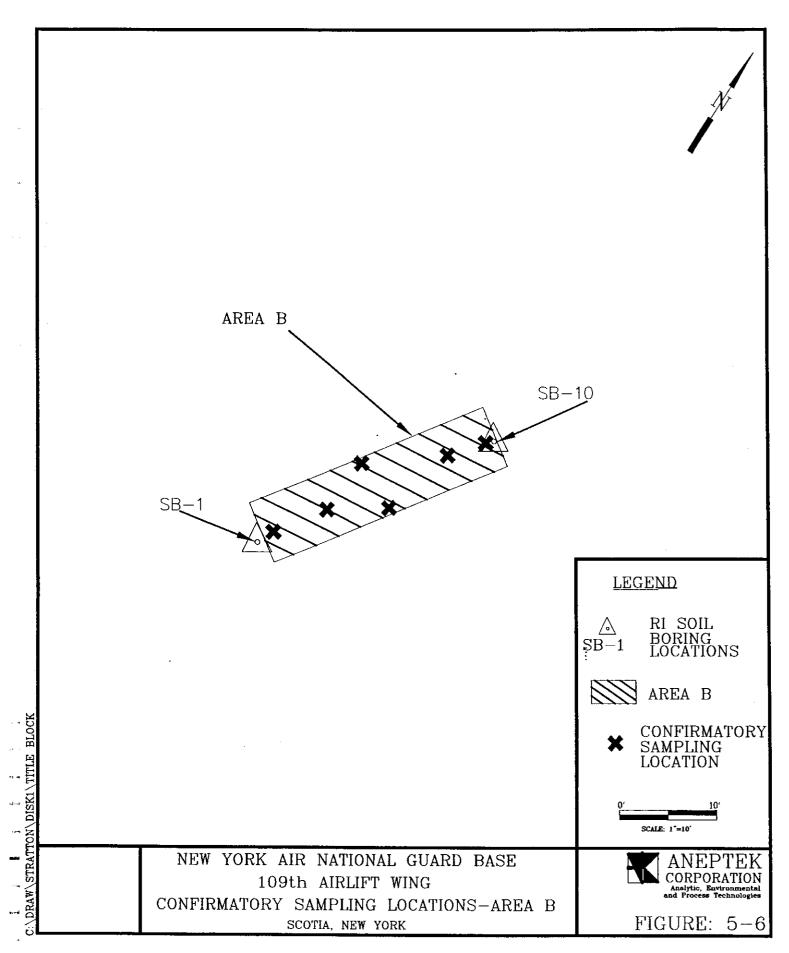
5.9 Investigative Derived Waste

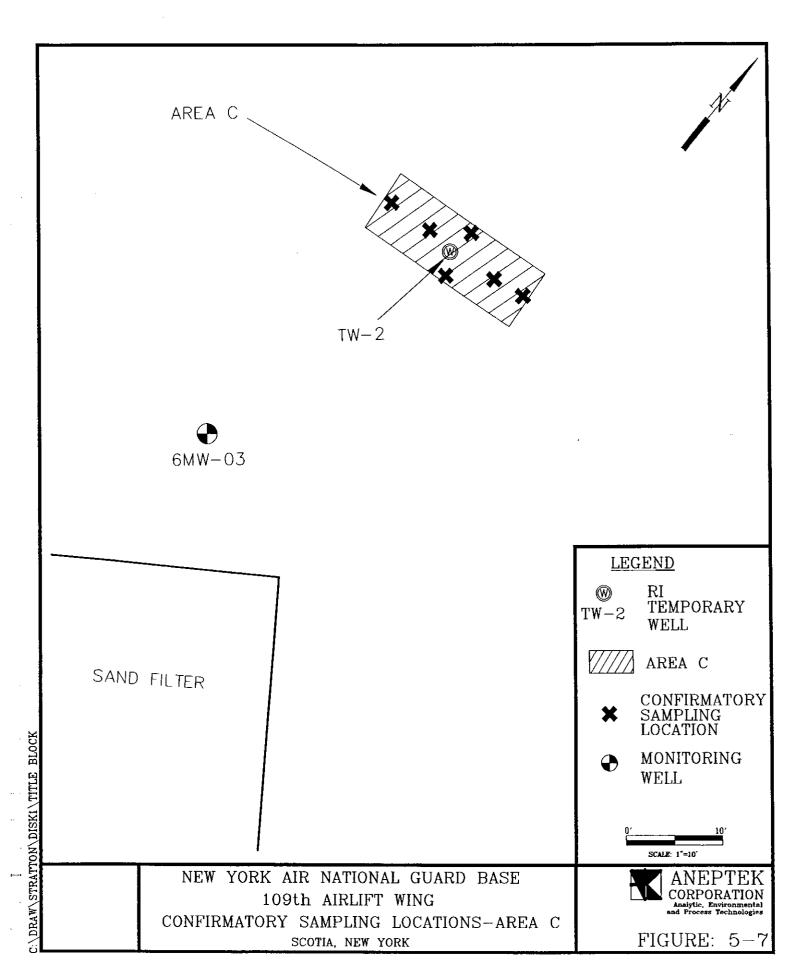
Investigative Derived Waste (IDW) generated during this TCRA consisted solely of decontamination fluids. All soils generated during this removal action were transported off-site to the disposal facility. To reduce the amount of IDW fluids generated during decontamination of sampling equipment, clean, un-used sampling equipment were brought on-site and used during confirmatory sample collection. The size of the sampling equipment (small spoons and scoopulas) also contributed to the small amount of fluids generated. All IDW fluids were containerized in 5 gallon buckets prior to disposal.

5.10 Sample Designation

Confirmatory soil samples collected during the removal action were designated with respect to the site (Site 6), the excavation (Area A, B, or C), and location within that excavation from which they were collected. For example, a sample collected from area A (A), at the south (S) end from the bottom (B) of the excavation was designated as "Site 6-EX-A-S-Bottom". Where a duplicate sample was collected, a "D" was included in the sample designation (for example, "Site 6-EX-B-S-D-Bottom"). Decontamination rinsate blanks, potable water field blanks, and laboratory supplied trip blanks were designated by using the first letters of the respective sample (i.e, RB for rinsate blank), followed by numerals corresponding with the date of collection. For example, a potable water field blank collected on April 24, 2002, would be designated FB-PW-042402.







SECTION 6.0

6.0 RESULTS OF TIME CRITICAL REMOVAL ACTION

Section 6.0 presents the results of the TCRA.

6.1 Waste Profiling Sample Results

Prior to the start of the removal action, soil samples were collected from each delineated area and analyzed for TPH per EPA Method 8015, as required by the disposal company, ESMI of Fort Edward, New York. One sample was collected from each area in accordance with NYSDEC STARS Memo #1, Petroleum-Contaminated Soil Guidance Policy, August 1992. Samples were collected by personnel from the sub-contractor hired to conduct the soil removal, PIM, Inc., of Schenectady, New York, and analyzed at Phoenix Laboratories, Manchester, Connecticut.

As these samples were for waste profiling only, they were only collected from the areas to be excavated, not from the precise areas and depths of known contamination. The samples were collected from a location approximately in the center of each area. Samples were collected from a depth of approximately 2 to 4 feet bgs using a hand auger. The waste profile sampling frequency and the analytical results are presented in Table 6-1 and Table 6-2, respectively. Laboratory data is included in Appendix D.

Table 6-1
Waste Profile Soil Sampling Frequency

Analysis	ТРН
Sample Type	Composite
Soil Quantity (yd³) 100 - 200 ⁽¹⁾	3 ⁽²⁾

Notes: (1) NYSDEC STARS Memo #1, Petroleum-Contaminated Soil Guidance Policy, August 1992.

(2) One sample per each area.

Table 6-2
Waste Profile Soil Sampling Analytical Results

Sample Location	Reporting Limit (mg/kg)	Analysis/Result (mg/kg)
Area A	50	TPH/ ND
Area B	50	TPH/ ND
Area C	50	TPH/ ND

ND- Not Detected above Reporting Limit

6.2 Field Screening Results

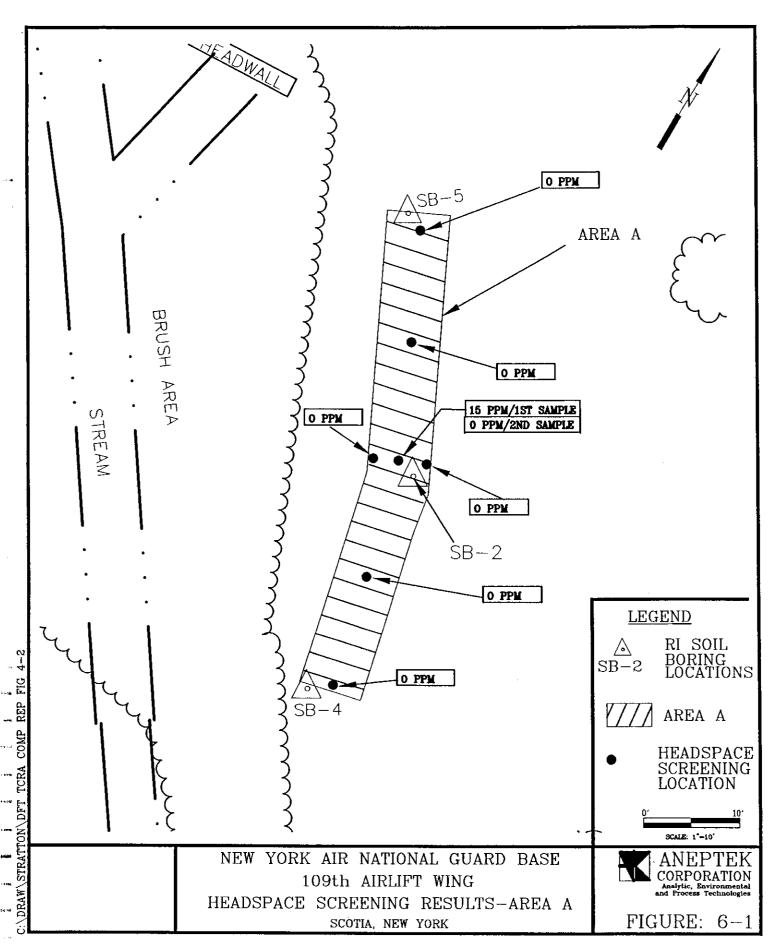
During the excavation of Areas A, B, and C, soil samples were collected and screened in the field with a PID using headspace screening methods. Headspace samples were collected from the sidewalls and bottom of each area unless a specific location indicated possible contamination, either through visual evidence or odors, at which point a sample would be collected and screened. Soils were screened using a RAE Systems MiniRAE 2000® PID equipped with a 11.7 electron volt (eV) lamp probe. Samples for headspace screening were collected directly from the excavator bucket, placed in a plastic Ziplock® baggie, sealed, and allowed to warm for approximately 15 minutes. After the samples had sufficiently warmed, one corner of the plastic baggie was opened and the tip of the probe was inserted into the baggie. The resulting reading recorded total VOC's in parts per million (ppm). The field screening results for each area are discussed below.

6.2.1 Area A

This area is defined by SB-4 at the southwestern end and SB-5 at the northeastern end. The approximate dimensions are 50 feet in length, 6 feet in width, and 6 feet in depth (50 x 6 x 6). A total of seven screening samples were collected from Area A. One sample was collected from each of the four sidewalls, and two samples were collected from the bottom of the excavation. An additional sample was collected at a point approximately 26 feet northeast of SB-4 at a depth of approximately 5 ft bgs. This sample was collected after field personnel detected a sweet, mineral-like odor during excavation. This type of odor is not uncommon in areas of chlorinated solvent contamination (the contaminants of concern in Area A). A headspace sample collected from this location registered 15 ppm when screened. The excavator operator was instructed to remove additional soil from this area. A second headspace sample was collected and screened, the results being non-detect. All other headspace samples registered non-detect when screened. No other odors or visual indicators of contamination were observed. Screening locations and their respective results are summarized in Figure 6-1.

6.2.2 Area B

This area is defined by SB-1 at the southern end and SB-10 at the northern end. The approximate dimensions are 26 feet in length, 7 feet in width, and 8 feet in depth (26 x 7 x 8). A total of ten screening samples were collected from Area B. One sample was collected from each of the four sidewalls, and two samples were collected from the bottom of the excavation. Four additional samples were



collected due to the presence of petroleum odors during excavation. Of these ten samples, three resulted in positive screening results.

At a point in the excavation approximately 4 feet north of SB-1 at a depth of approximately 8 feet bgs, field personnel noticed a petroleum odor. A sample was collected and screened and a reading of 20 ppm was recorded. At a location approximately 13 feet north of SB-1, a petroleum odor was again noticed. A sample was collected and screened and a reading of 92 ppm was recorded. At a location approximately 23 feet north of SB-1 at a depth of approximately 7 feet bgs, a headspace sample was collected from each sidewall. The sample collected from the east sidewall registered 40 ppm when screened. The sample from the west sidewall was non-detect. At each location where headspace screening indicated possible contamination, additional soil was removed. Screening locations and their respective results are summarized in Figure 6-2.

6.2.3 Area C

Area C is comprised of the immediate area surrounding TW-2 with TW-2 located in the center. The excavation was begun at the western end of the delineated area and proceeded to the eastern end. The approximate dimensions are 18 feet in length, 7 feet in width, and 6 feet in depth (18 x 7 x 6). Six headspace samples were collected and screened from the sidewalls and bottom of the excavation. No elevated headspace readings were recorded. All readings were at background levels. Screening locations are shown and their respective results are summarized in Figure 6-3.

6.3 Air Monitoring Results

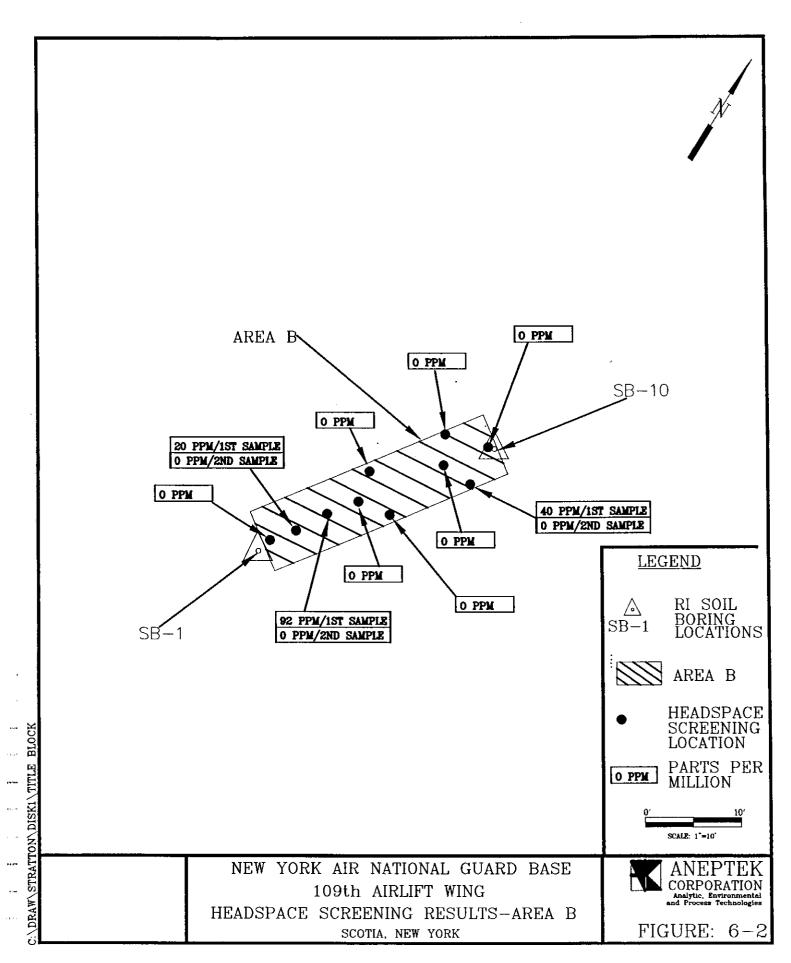
Continuous ambient air monitoring was conducted during the excavation and loading of soils throughout this TCRA in accordance with the NYSDOH Community Air Monitoring Plan (CAMP). In accordance with this plan, the ambient air surrounding the areas of excavation, both upwind and downwind, was continuously monitored for both total VOC's and particulate matter (fugitive dust). A RAE Systems MiniRAE 2000® PID equipped with a 11.7 electron volt (eV) lamp probe was used to monitor and record total VOC's. A MIE PDR-1000 Dust Monitor® was used to monitor and record particulate concentrations. Air monitoring results are presented in Appendix C. Results of both monitoring procedures are discussed below.

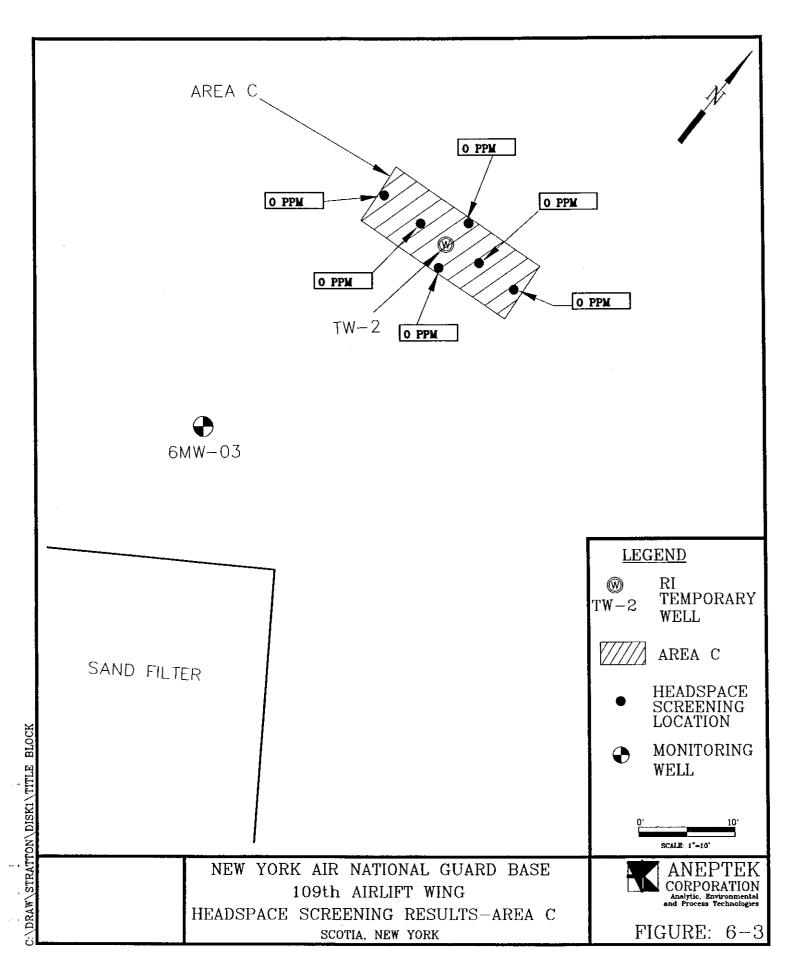
6.3.1 Total VOC's

The highest VOC peak data value, 20.7 ppm, was recorded on April 24 between 09:10 and 10:00 at a downwind location during the excavation of Area B. The average data value for this time period was 3.7 ppm, below the CAMP ambient air standard of a sustained reading of 5 ppm for 15 minutes. This is the approximate time frame during which headspace screening results of between 20 ppm and 92 ppm were recorded. Also during this time frame, a petroleum odor was noticed by field personnel. No other readings above 0 ppm were recorded during this TCRA.

6.3.2 Particulate Matter

The highest recorded level of particulate matter in the ambient air was 1.166 milligrams per cubic meter (mg/m³), recorded at 10:08:51 on April 24 at a downwind location during the excavation of Area B. The maximum short term exposure limit (STEL) was 0.106 mg/m³. The overall average concentration was 0.016 mg/m³, below the CAMP ambient air standard of 0.1 mg/m³ for a sustained





6.4 Excavation, Transportation, and Disposal of Soils

A total of 260 tons (approximately 160 cu/yds) of contaminated soil was removed from Areas A, B, and C during this TCRA. Excavation was conducted by PIM under subcontract to Aneptek. All soils were excavated using a Ford "Excavator" backhoe and deposited directly into the transportation vehicles. The soil was then transported off site, under a bill of lading (BOL), by Cedar Hill Trucking of Schenectady, New York, to Environmental Soil Management Inc., (ESMI) of Fort Edward, New York, for disposal by thermal incineration. Each truck load of soil was listed on a BOL as Non-RCRA, Non-Department of Transportation (DOT) Regulated solid contaminated soil (non-hazardous). Transportation and disposal of soils from each area followed the same procedure described above. Only trace amounts of groundwater were encountered during the removal action. The volume of soil removed from each area is presented in Table 6-4, the areas of excavation are shown in Figure 6-4. Cross section locations are shown in Figure 6-5. Areas were excavated in the following order; Area A, Area B, and Area C. All BOLs are included in Appendix A. A detailed description of the excavation of each area is as follows:

Table 6-4
Volume of Excavated Soils

Location	Soil Volume
Area A	78 yd³
Area B	54 yd ³
Area C	28 yd³

6.4.1 Area A

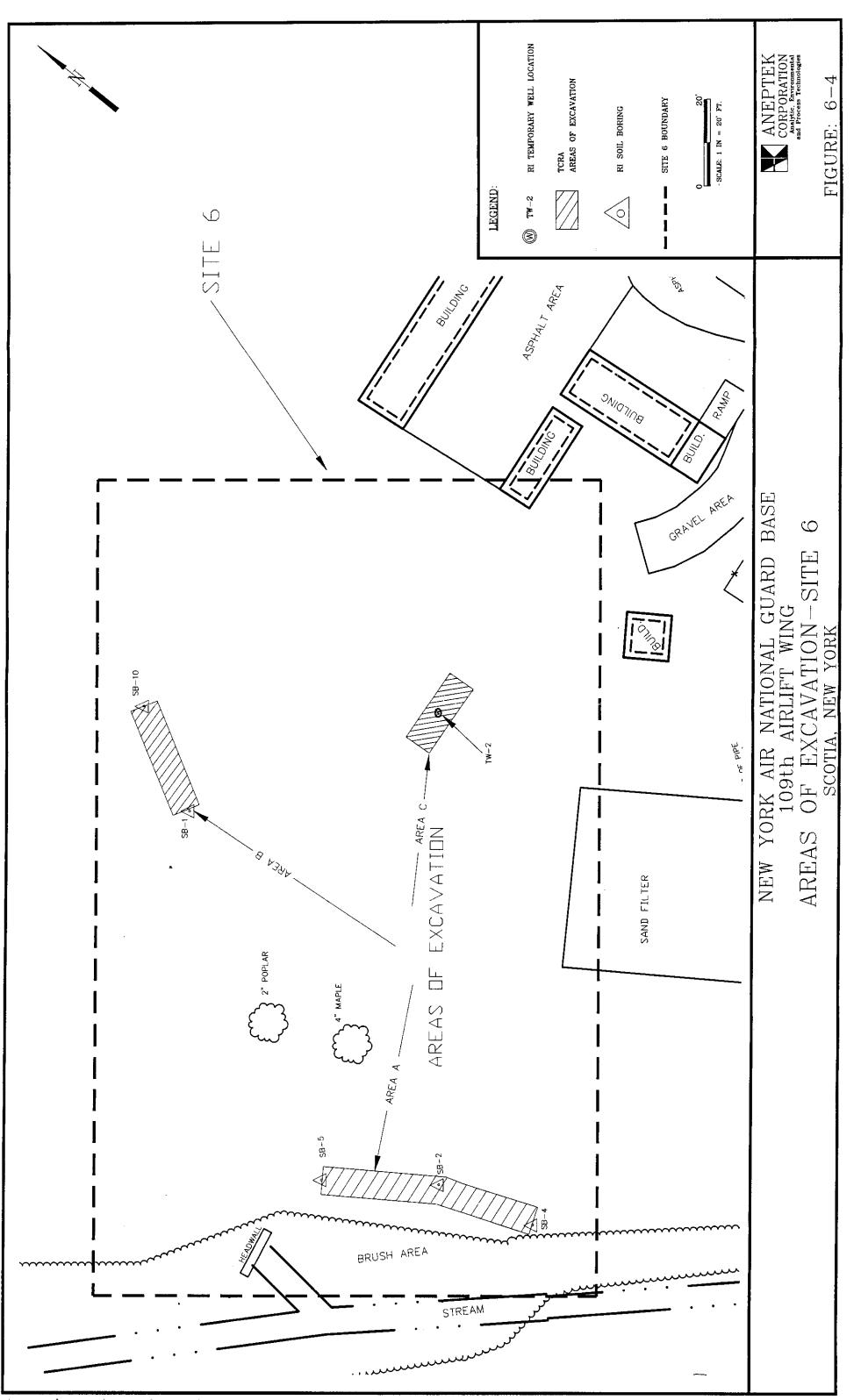
Excavation of Area A began at the southern end (delineated by SB-4) of the delineated area and proceeded in a north/northeast direction until the terminus at SB-5. The final area of excavation measured approximately 50' x 7' x 6'. Area A was delineated prior to the start of excavation to include the area around SB-2. Elevated concentrations of PCE were detected in this boring during the RI. Approximately 78 cu/yds of contaminated soil was removed. Figure 6-6 presents a cross section of Area A.

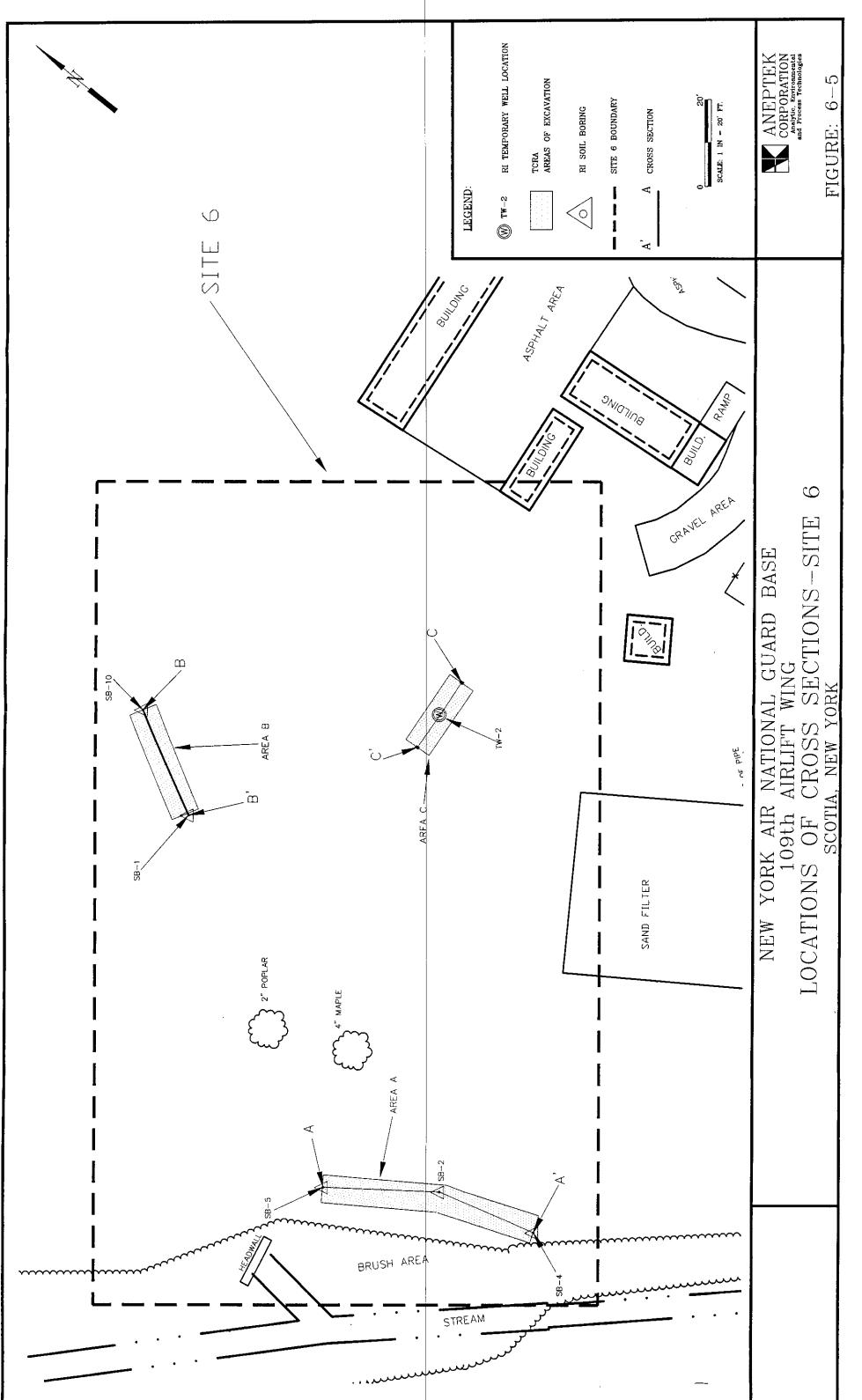
6.4.2 Area B

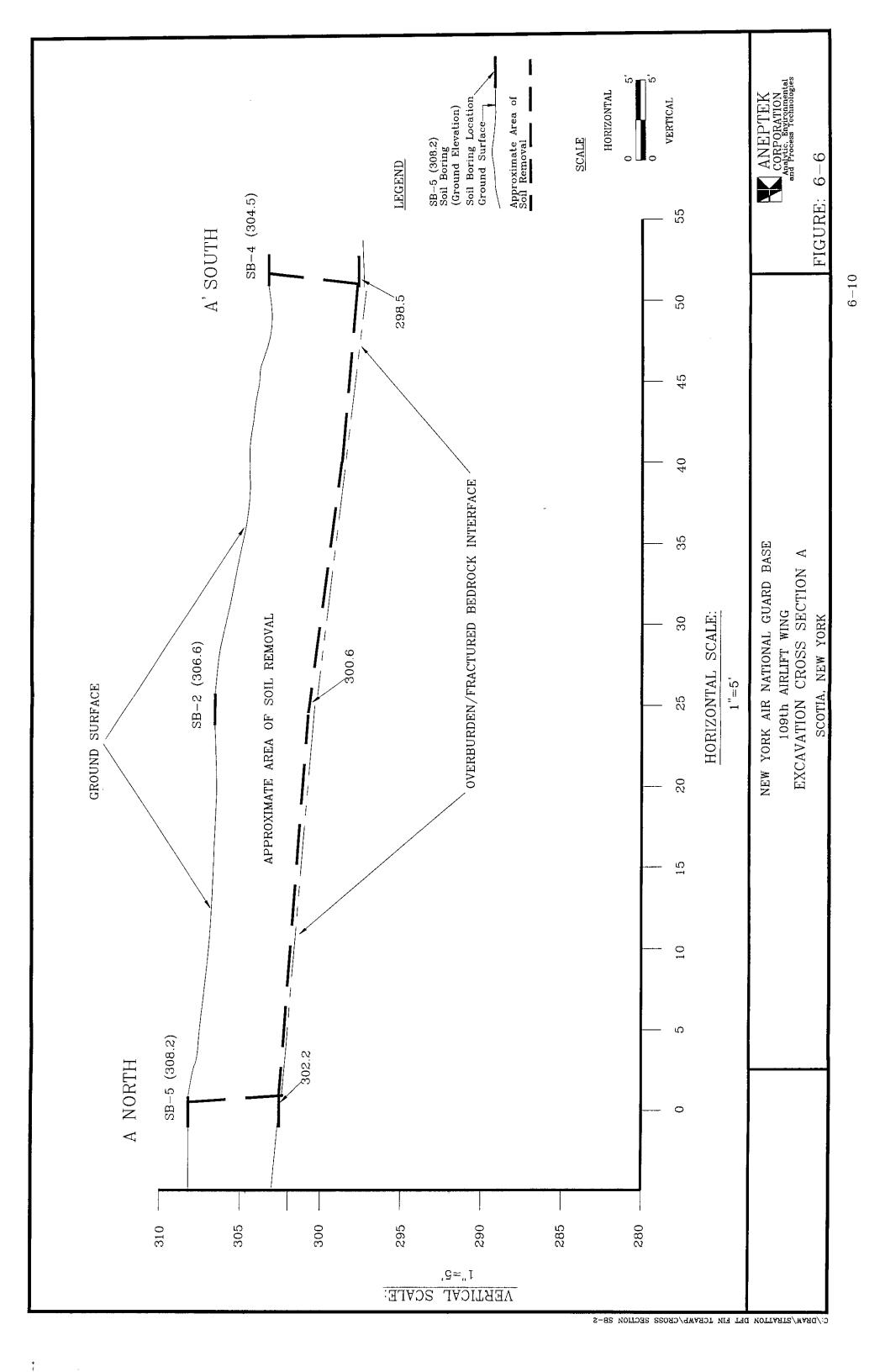
Excavation of Area B began at the southwestern end (SB-1) of the delineated area and proceeded in a north/northeasterly direction until the terminus at SB-10. The final area of excavation measured approximately 26' x 7' x 8'. Approximately 54 cu/yds of contaminated soil was removed. Figure 6-7 presents a cross section of Area B.

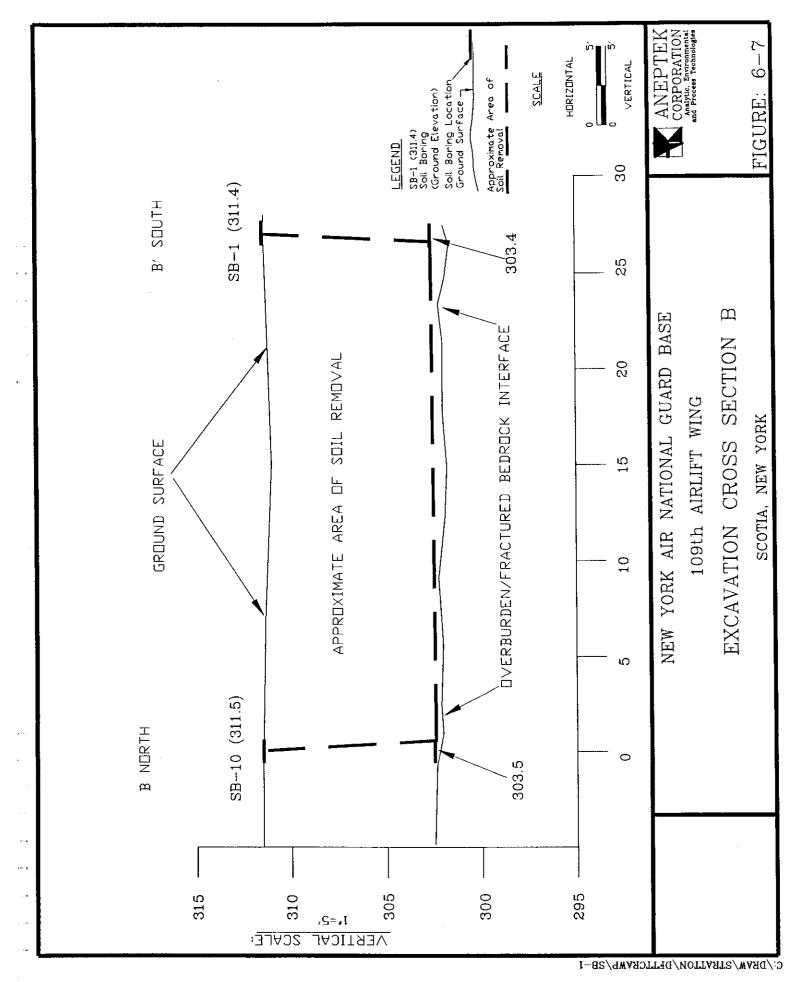
6.4.3 Area C

Area C encompassed the immediate area surrounding TW-2, with TW-2 being at the center. The excavation began at a point approximately 9 feet northwest of TW-2, and proceeded in a









southeasterly direction approximately 18 feet . The final area of excavation measured approximately $18 \times 6 \times 7$. The original width as presented in the TCRA Work Plan was 8 feet. This was shortened by approximately 2 feet due to a underground utility line running along the southern edge of the area. Approximately 28 cu/yds of contaminated soil was removed. Figure 6-8 presents a cross section of Area C.

6.5 Decontamination of Equipment

All sampling equipment was decontaminated prior to the collection of confirmatory soil samples. Sampling equipment used during this TCRA consisted of small stainless steel spoons and scoopulas. All equipment was purchased new and was un-used prior to this removal action. The following steps were followed during equipment decontamination:

- Wash and scrub with laboratory-grade detergent (Liquinox® or equal)
- Rinse with potable water
- Rinse with methanol
- Rinse with potable water
- Rinse with demonstrated analyte-free deionized water
- Air dry and wrap equipment in aluminum foil

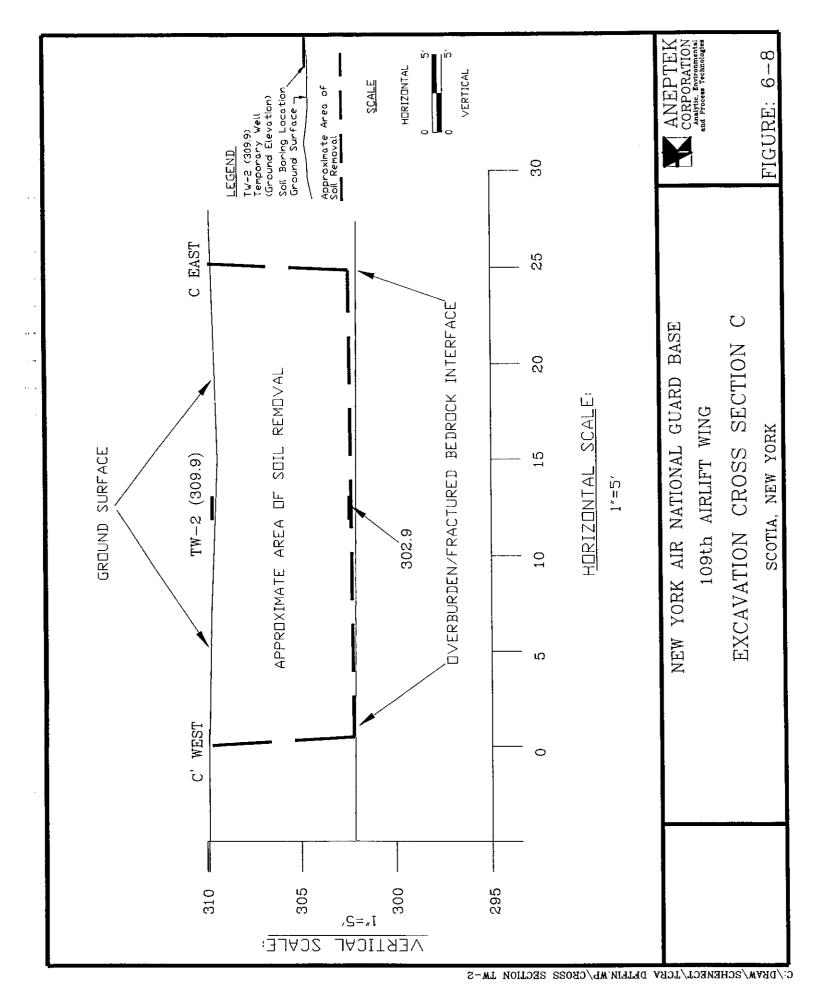
Potable water used for decontamination was obtained from an outside spigot located next to the Base Sewage Treatment Plant at Building #23. For QA/QC purposes, a field blank sample was collected from this spigot. Two sampling equipment rinsates were also collected using laboratory supplied de-ionized (DI) water. These samples were submitted for VOC analysis along with the confirmatory samples.

6.6 Confirmatory Sampling Results

A total of 20 confirmatory soil samples were collected from Areas A, B, and C. This number includes 2 QA/QC (duplicate) samples. One sample was collected from each excavation sidewall and two samples were collected from the bottom of each excavation. All samples were collected directly from the excavation bucket using clean, un-used stainless steel spoons. All sampling equipment was decontaminated prior to and between sampling events. All samples collected were submitted to Severn Trent Laboratories, Newburgh, New York, for VOC analysis per EPA Method 8260B. As such, all samples were grab samples and were not composited prior to being placed in the sample container. Table 6-5 presents the sampling and analysis plan for each area. All confirmatory sample results from each area are presented in Table 6-6. As described in Section 5.6, sample designations were made based on the area being excavated (A, B, or C), and location within that excavation from which they were collected. For example, a sample collected from Area A at the south end from the bottom of the excavation was designated as "Site 6-EX-A-S-Bottom. Analytical data is included in Appendix B. The following sub-sections present the confirmatory soil sample results for each area.

6.6.1 Area A

Six confirmatory soil samples were collected from Area A, one sample was collected from each sidewall and two samples were collected from the bottom of the excavation. The two sidewall sample locations were chosen based on the results of the field screening activities (Section 5.2.1). Of the six samples collected, two had concentrations of contaminants exceeding NYSDEC cleanup



concentrations. Samples EX-A-E-Sidewall and EX-A-W-Sidewall had concentrations of PCE at $1800~\mu g/kg$ and $3200~\mu g/kg$, respectively. The NYSDEC cleanup concentrations for PCE is $1400~\mu g/kg$. Sample EX-A-S-Sidewall also contained PCE at a concentration of $240~\mu g/kg$. These samples were collected from opposite sidewalls at a depth of approximately 5 feet bgs and approximately 26 feet northeast of SB-4.

PCE was also detected in samples EX-A-N-Sidewall, EX-A-N-Bottom, and EX-A-S-Bottom, at concentrations of 400 μ g/kg, 130 μ g/kg, and 36 μ g/kg, respectively. Sample EX-A-N-Sidewall was collected at a depth of approximately 4 feet bgs at the terminus of the excavation (SB-5), sample EX-A-N-Bottom was collected at a depth of approximately 6 feet bgs at the terminus of the excavation (SB-5), and sample EX-A-S-Bottom was collected at approximately 6 feet bgs at the beginning of the excavation (SB-4). All other sample results were either non-detect or detected at levels just above the reported detection limit of 1.1 μ g/kg. Sample results are summarized in Figure 6-9.

Table 6-5
Confirmatory Sampling and Analysis Plan

Location	Samples ⁽¹⁾	Duplicate Sample	MS/MSD Pair	Analysis
Area A	2 bottom 4 sidewall		1	VOCs Method 8260
Area B	2 bottom 4 sidewall	1		VOCs Method 8260
Area C	2 bottom 4 sidewall	1		VOCs Method 8260

Notes: (1)- Per NYSDEC STARS Memo #1 Petroleum-Contaminated Soil Guidance Policy, August 1992

6.6.2 Area B

Six confirmatory soil samples were collected from Area B. One sample was collected from each sidewall and two samples were collected from the bottom of the excavation. There were no exceedences of any NYSDEC cleanup concentrations reported for any of the samples collected from Area B. The highest reported concentrations of contaminants was found in sample EX-B-S-Bottom. Cis-1,2-DCE and TCE were detected at 20 μ g/kg and 30 μ g/kg, respectively. The NYSDEC cleanup concentration for TCE is 700 μ g/kg, the cleanup concentration for DCE is not listed. The next highest concentration of any contaminants was detected in sample EX-B-S-D-Bottom, a duplicate (D) sample of EX-B-S-Bottom. TCE and DCE were detected at 8.6 μ g/kg and 5.8 μ g/kg, respectively. Sample EX-B-E-Sidewall contained TCE and DCE at concentrations of 5.6 μ g/kg and 4.9 μ g/kg, respectively. All other sample results were reported at or just above the reported detection limit of 1.2 μ g/kg. Sample results are summarized in Figure 6-10.

6.6.3 Area C

Six confirmatory soil samples were collected from Area C, one sample was collected from each sidewall and two samples were collected from the bottom of the excavation. There were no

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TABLE 6-6
CONFIRMATORY SOIL SAMPLING ANALYTICAL RESULTS
SCHENECTADY ANGB - SITE 6 TCRA
SCOTIA, NEW YORK

			CAUSTRA				SAM	SAMPLE IDENTIFICATION	TEICATI	ž			
	DETECTION	BCKGRND	MISSE	ļ			1						
ANALYTE	LIMIT1	CONC.	CLEANUR CONC. ³	EX-A-W-Sidewall	ldewall	EX-A-N-Bottom	Bottom	EX-A-N-Sidewall		EX-A-E-Sidewall	idewall	EX-A-S-Bottom	Bottom
VOCe (unaffice)													
Dichlomdifluommethane		Ð	Ę	1:1	7.	1.1	П	1:1	片	17	님	1.2	UIL
oie 1 2 Dichlorosthana	: =	£	ž	3.9	o c	1:1	D	1.1	Þ	7.3	-	1.2	Þ
Chloroform	: =	9	Ė	1	′ Þ	1.1	Þ	1.1	n	1.2	D	17	ם
Trichlomethene	::	9	200	2.7	2	1.1	Þ	1:1	ď	3.7	ŏ	1.2	D
Benzene	:::	9	뉟	1.3	ğ	2.1	ğ	1.9	ğ	1.2	g	1.2	ğ
Tetrachomethene		2	1400	3.469	,	130		400				36	
Toluene	: ::	5.4	1500	2.5	g	5.5	•	3.1	ŏ	1,7	Q	۳, 90	ರ
m.n-Xvlene	13	2	1200	::	Þ	1.3	ರ	-:	n	1.2	D	8.0	ğ
4-IsomonyItoluene	Ξ	£	Ę	1:1	D	1.1	Þ	Ξ:	Þ	1.2	Ω	1.2	Þ
1.2.4-Trichlorobenzene	1:1	£	볼	1:1	Þ	1.1	Þ	1.1	'n	1.2	D	1.2	D .
Naphthalene	1.1	Ą	13,000	:	Ω	=	ם	1.1	Þ	1.2	Þ	1.2	Þ

			NYSDEC				SAM	SAMPLE IDENTIFICATION	TIF ICATIC	Z.C			
ANALYTE	DETECTION LIMIT ¹	BCKGRND CONC. ²	CLEANUP CONC. ³	EX-A-S-Sidewail	dewail	EX-B-N-Bottom	Sottom	EX-B-S-D	EX-B-S-D-Bottom	EX-B-N-Sidewall	idewall	EX-B-E-Sidewal	Sidewail
VOCs (ng/kg)							-						1
Dichloudiffurnmethere	_	Ę	ž	- T	1	1.2	L L	1.2	片	1.1	고	1.2	H
Commonwell and the common of t	::	<u> </u>	5	=	=	1.3	ō	80,5	JO, JF	Ξ:	n	4.9	5
cis-1,2-Dichloroemene		2	}	:)	: :	,		, =	-	11	-	=
Chloroform	1.1	2	Ę		Þ	1.2	>	7:1	 -	:	י כ	1	,
Trichlomethene	=	£	200	2.1	S	I.3	g	9.6	Ħ	Ξ	Þ	5.6	S,
THEMOTOGRAPH	: :	5	5	2.7	<u>۔</u>	1.2	n	_	S	:	Þ	1:1	8
Benzene	1:1	2	1	; ;	y	! ?	:		/ F	-	11	-	П
Tetrachomethene		£	1400	240		7.	<u> </u>	7.1	<u> </u>	1:	>	!	,
Tolling	-	4.4	1500	<u>e</u>		12	-	5.6	ğ	17	ğ	κ. 4.	Š,
Torner	: :	; <u> </u>	0001	=	11	1.2	Þ	1.2	Þ	:	ם	1.2	Þ
m,p-Xylene	1.1	2 !	2071	: :	· :	! :	-		=	-		2.3	ō
4-Isopropyltoluene	1.1	2	7	==	>	7.)	7.	· ;	: ;	;	} -	/ Z
1.2 4-Trichlorobenzene		£	¥	=	Þ	1.2	Þ	1.2	<u> </u>	=	>	7	¥ :
Manufacture and an analysis of the state of	=	Ę	13,000	Ξ	n	1,2	n	2.3	ğ	Ξ	Þ	2.5	ರ್ಷ
Naphinalene	1.1	į	200	:	,								
			_										Ì

TABLE 6-6 (Cont.) CONFIRMATORY SOIL SAMPLING ANALYTICAL RESULTS SCHENECTADY ANGB - SITE 6 TCRA SCOTIA, NEW YORK

			NYSDEC				SAMI	SAMPLE IDENTIFICATION	TFICATION	NC			
ANALYTE	DETECTION LIMIT	BCKGRND CONC. ²	CLEANUP CONC, ³	EX-B-S-Sidewall	dewall	EX-B-S-Bottom	ottom	EX-B-W-Sidewall	idewall	EX-C-E-Bottom	ottom	EX-C-S-Sidewall	idewali
VOCs (ug/kg)					:	,	F	?	F	-	=	12	F
Dichlorodifluoromethane	=	2	Z	7	1.	7:1	न ।	1 :	₹:	;	ļ	! :	} =
cis-1,2-Dichloroethene	111	2	ź	17	Þ	50	<u>-</u>	1.2	-	2.8	;	7.0	> :
Chloroform	:	Q	보	1.2	n	17	Þ	1.2	D	<u> </u>	>	7.1	> ;
Trichloroethene	11	g	902	1.2	n	30	Ë	1.2	Þ	50		E. I	₹.
Benzene	1.1	Q	Ę	1.2	Þ	1.2	ğ	1.2	Þ	4.9	g	1.2	ವ :
Tetrachomethene	: ::	2	1400	1.2	p	1.2	D	1.2	n	1.1	Þ	1.2	> ;
Toluene	::	5.4	1,500	1.2	Þ	1.2	Þ	1.2	Þ	1:1	Ľ	1.7	ವೆ :
m.p-Xvlene	::	£	1200	1.2	Þ	1.2	Þ	17	>	II :	> :	7 .);
4-Isopropyltoluene	1,1	£	Ę	1.2	Þ	1.2	-	1.2		Ξ;	- :	7.	> ;
1.2.4-Trichlorobenzene	1.1	£	Ę	1.2	Þ	1.2	- >	1.2	-	[]	 : c	7 ;	- -
Naphthalene	==	윤	13,000	1.2	b	1.2	<u></u>	1.2	Þ	Ξ	- -	7.7	.

			NYSDEC		ŀ		SAM	SAMPLE IDENTIFICATION	TE ICATIO	NC			
ANALYTE	DETECTION LIMIT ¹	BCKGRND CONC. ²	CLEANUP CONC.3	EX-C-W-Sidewall		EX-C-E-D-Bottom	Bottom	EX-C-E-Sidewall	idewali	EX-C-W-Bottom	Bottom	EX-C-N-Sidewall	idewall
(may) -000						ŀ							
VOCS (ug/ vg/)	=	Š	5	1.1	7	1.1	H	1.1	占	1.2	11	1.2	님
iii i a reinformation attach	::	9	Z	4		3.6	g	1.3	g	6.9		1.2	g
cis-1,7-Dichloroculence	7.	2 5	5		=	-	′ p	1.1	Þ	1.2	מ	17	Þ
Chlorotoffi	::	9 £	3 5	: 5)	13	1	80		19		12	
Trichloroethene		€ 8	3 5	1,0	Ş	2 4	2	,	2	2.5	Q	1.2	g
Benzene	1.1	2	z	6.2	? ;	2 .	χç	1 6	2	- 1	/ =	- 2	′ =
Tetrachoroethene	1:1	£	1400		_ >	<u></u>	<u>~</u>		<u>-</u>	7 ;) }	1 .	٤ د
Toluene	-	5.4	1500	er)	0	21	ഥ	'n	g	2.5	Ξ̈́		?':
Tollacino and Andreas	==	£	1200	1,1	D	=	ם	=	Þ	1.2	Þ	1.2	> 1
	: :	Ę	7	-	=	1.1	Þ	1:1	Þ	1.2	₽	1.2	>
4-Isopropyitoiuene	1:1	9 (;	: :	-	-	=	-	=	1.5	Ξ	1.2	Þ
1,2,4-Trichlorobenzene	=	2	ž	∷	-	::	-	;;	;	! ?	;		=
Naphthalene	1:1	S S	13,000	=	 >	1:1	>	- 1-1	>	7!	>	4:)

ABBREVIATIONS:	ug/kg - micrograms per kilogram	DWQS - Drinking Water Quality Stds.	MDL - Method Detection Limit	MS(D) - Marrix Snike (Dmlicate)
ABB	ng/kg	DWQ	MDL	CSX

NYSDEC - New York State Dept. of Environm'l Conservation MS(D) - Matrix Spike (Duplicate) N. - Nor Listed

VOC's - Volatile Organic Compounds RI - Remedial investigation RPD - Relative Percent Difference

D · Duplicate Sample

DATA QUALIFIERS:

J. The analyte was positively identified; the associated value is the approx. concentration of analyte in the sample

JF - Field duplicate %RPD was high (greather than 50% for soils) for this compound

IL. - The blank spike and/or blank spike duplicate % recoveries were not within the control. limits of 60-140% for organics

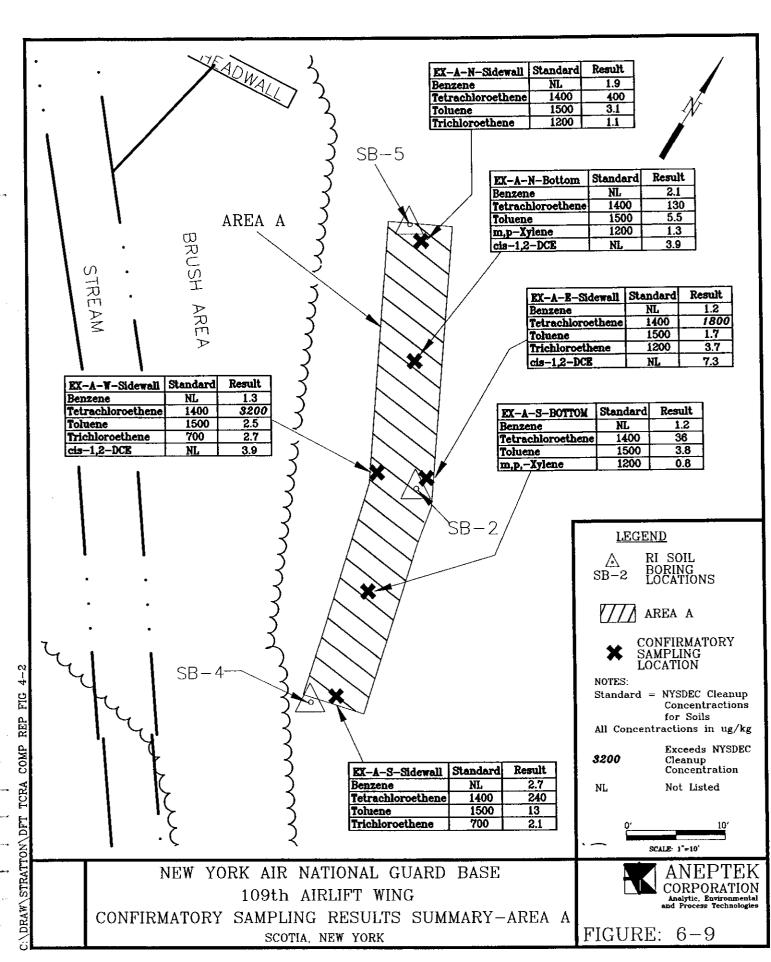
2) R1Background Sample Results
3) NYSDEC TAGM HWR-94-4046, Jan 24, 1994. Where applicable, the soil cleanup objectives were corrected for TOC lervals. Where the GW based Soil Cleanup Objectives differed from the Recommended Soil Cleanup Objectives, the more stringent value was used.

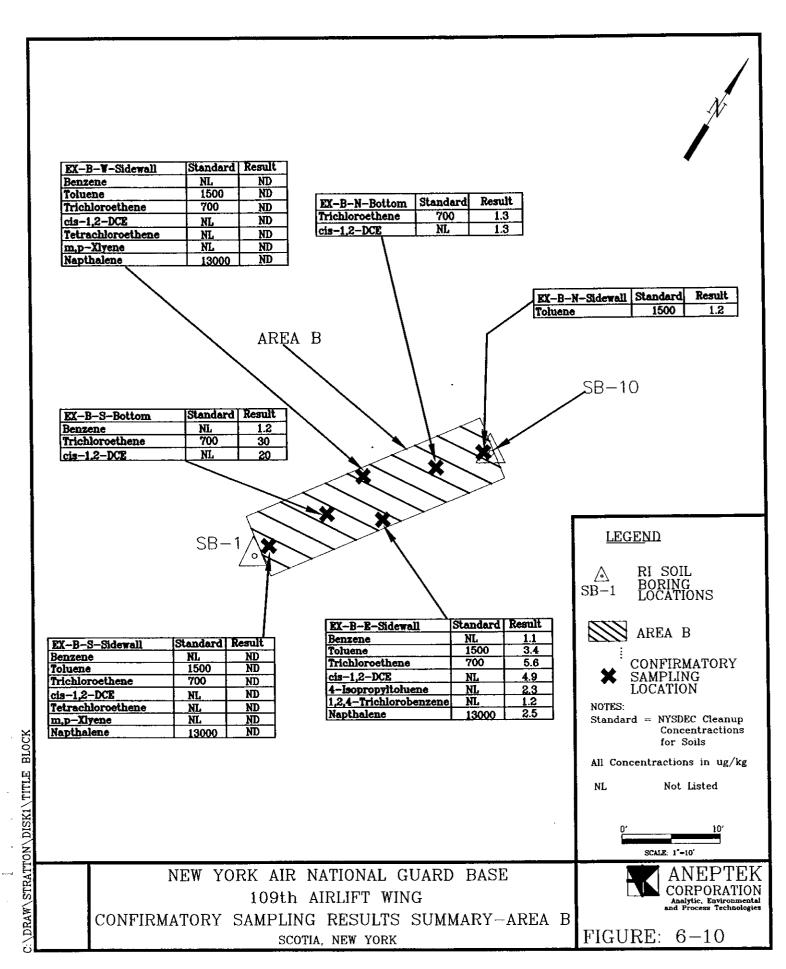
1) Contract Required Detection Limit (CRDL)

NOTES:

JM - The MS and/or MSD % recoveries were not within the control limits for this compound IQ - Estimate the to detection level below lowest calibration standard U - Compound was analyzed for, but not detected

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exceedences of any NYSDEC cleanup concentrations reported for any of the samples collected from Area C. The highest reported concentration of contaminants was found in sample EX-C-W-Sidewall, in which DCE and TCE were detected at concentrations of 46 μ g/kg and 91 μ g/kg, respectively. Results from sample EX-C-E-Bottom reported DCE at 5.8 μ g/kg and TCE at 20 μ g/kg, and benzene at 4.9 μ g/kg. The NYSDEC cleanup concentration for benzene is not listed. Sample EX-C-E-D-Bottom (duplicate sample of Sample EX-C-E-Bottom) also contained DCE and TCE at 3.6 μ g/kg and 13 μ g/kg, respectively. This sample also contained toluene and benzene at 21 μ g/kg and 5.3 μ g/kg, respectively. EX-C-W-Bottom contained concentrations of DCE and TCE at 6.9 μ g/kg and 19 μ g/kg, respectively. TCE was also reported in sample EX-C-N-Sidewall at a concentration of 12 μ g/kg. Sample results are summarized in Figure 6-11.

6.7 Backfilling, Compaction, and Site Restoration

Backfilling of the excavations was conducted concurrently with the transportation and disposal effort. Approximately 220 tons of clean backfill material was obtained through PIM and delivered on-site by Cedar Hill Trucking. The backfill material was promptly evaluated, placed in the excavation, and compacted. Prior to placement, each truckload of material was screened by Aneptek personnel using a PID and headspace screening methods. All screening results were negative. The material was clean with no boulders or organic material.

Compaction was accomplished using the excavation backhoe. After the first 3 to 4 feet of material was placed in the excavation, the excavator bucket was used to compact the soil. This continued until the excavation was filled to grade level. At this point the excavator was repeatedly driven over the area of excavation, further compacting the soil to approximately 6 inches below grade.

Site restoration consisted of placing clean topsoil in the excavation to a point slightly above grade. The topsoil was then compacted further until it was grade level. The areas were then seeded with a combination of rye and fescue grass seed. Approximately 20 tons of topsoil was used. Site restoration was conducted to the satisfaction of the Base EM.

6.8 Investigative Derived Waste

Investigative Derived Waste (IDW) generated during this TCRA consisted solely of decontamination fluids. All soils generated during the removal action were transported off-site to the disposal facility. To reduce the amount of IDW fluids generated during decontamination of sampling equipment, clean, un-used sampling equipment were brought on-site and used during confirmatory sample collection. The size of the sampling equipment (small spoons and scoopulas) also contributed to the small amount of fluids generated. All IDW fluids were containerized in 5 gallon buckets prior to disposal. A total of approximately 5 gallons of IDW fluids were generated during this TCRA. These fluids were deposited into the last load of contaminated soil prior to being transported off-site for disposal. Approximately 20 tons of contaminated soil was contained in this load.



Standard Result EX-C-W-Bottom NL 2.5 Benzene 1500 2.5 Toluene cis-1,2-DCE NL 6.9 Trichloroethene 1400

TW-2

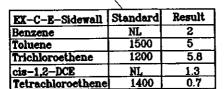


EX-C-W-Sidewall	Standard	Result
Benzene	NL	2.9
Toluene	1500	3
Trichloroethene	1200	91
cis-1,2-DCE	NL	46

EX-C-N-Sidewall	Standard	Result
Benzene	NL	1.2
Toluene	1500	1.3
cis-1.2-DCE	NL	1.2
Tetrachloroethene	1400	0.7

EX-C-S-Sidewall	Standard	Result
Benzene	NL	1.2
Toluene	1500	1.7
Trichloroethene	1200	1.3

EX-C-E-Bottom	Standard	Result
Benzene	NL	4.9
Toluene	1500	1.1
Trichloroethene	1200	20
cis-1,2-DCE	NI.	5.8





SAND FILTER

STRATTON\DISK1\TITLE BLOCK

C:\DRAW\

6MW-03

LEGEND

S-WT

TEMPORARY

WELL

AREA C



CONFIRMATORY SAMPLING LOCATION



MONITORING WELL

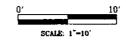
NOTES:

Standard = NYSDEC Cleanup Concentractions

for Soils

All Concentractions in ug/kg

Not Listed



NEW YORK AIR NATIONAL GUARD BASE 109th AIRLIFT WING CONFIRMATORY SAMPLING RESULTS SUMMARY-AREA C SCOTIA, NEW YORK



ANEPTEK CORPORATION
Analytic, Environmental
and Process Technologies

FIGURE: 6-11

SECTION 7.0

7.0 CONCLUSIONS AND RECOMMENDATIONS

The TCRA conducted at Site 6 was successfully completed as outlined in the Time Critical Removal Action Work Plan (Aneptek, March, 2002). The following section presents the conclusions and recommendations for each of the three areas addressed during the TCRA.

Conclusions

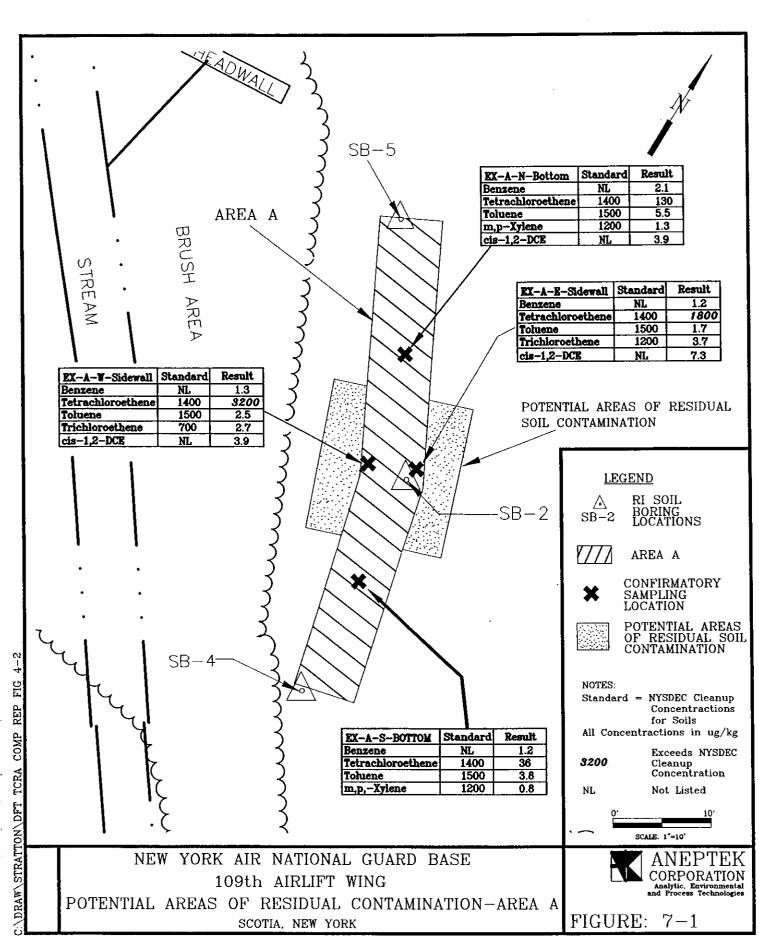
Area A

Approximately 78 cu/yds of contaminated soil was removed from Area A. The original estimated volume of soil to be removed was 50 cu/yds. An additional 28 cu/yds was removed when elevated headspace screening results indicated additional contaminated soil in an area approximately midpoint in the excavation. Six (6) confirmatory soil samples were collected from the sidewalls and bottom of the excavation. Of these six samples, two contained chlorinated VOC's above NYSDEC Cleanup Concentrations. Samples EX-A-W-Sidewall and EX-A-E-Sidewall contained PCE at concentrations of 3,200 ug/kg and 1,800 ug/kg, respectively. The cleanup concentration for PCE is 1,400 ug/kg. All other sample results were below NYSDEC Cleanup Concentrations.

Based on these results, it is concluded that potential, residual contaminated soil "hot spots" persist at Area A (Figure 7-1). Results from the remaining four confirmatory samples (Figure 6-9) and the field screening results (Figure 6-1) indicate that this residual contamination is located in relatively small areas of both sidewalls at the mid-point of the excavation. This area corresponds with the location of the elevated headspace reading. Although additional soil was removed from this area and a second headspace sample was screened (with a result of 0 ppm), both sidewall areas still contain isolated areas of contamination.

Area B

Approximately 54 cu/yds of contaminated soil were removed from Area B. During the excavation, petroleum odors were noted in several areas. Up to ten headspace screening samples were collected from these areas with results ranging from 20 ppm to 92 ppm. Six confirmatory soil samples were collected from the sidewalls and bottom of the excavation. None of the sample results contained compounds exceeding NYSDEC Cleanup Concentrations. All detected concentrations were low levels, the highest being 30 ug/kg of TCE and 20 ug/kg of cis-1,2,-DCE, both detected in sample EX-B-S-Bottom. The remaining concentrations ranged from non-detect to 5.6 ug/kg of TCE detected in sample EX-B-E-Sidewall. Based on the confirmatory sampling and headspace screening results, it is concluded that all contaminated soil in Area B has been removed.



Area C

Approximately 24 cu/yds of contaminated soil were removed from Area C. Six headspace screening samples were collected during the excavation. No elevated readings were recorded. There were no odors or evidence of staining during the excavation. Six confirmatory samples were collected from the sidewalls and bottom of the excavation. None of the samples contained compounds exceeding NYSDEC Cleanup Concentrations. The highest concentration of contaminants were found in sample EX-C-W-Sidewall. TCE and cis-1,2,-DCE were detected at concentrations of 91 ug/kg and 46 ug/kg, respectively. The NYSDEC Cleanup Concentration for TCE is 700 ug/kg, there is no listed cleanup concentration for cis-1,2,-DCE. TCE was also detected in samples EX-C-E-Bottom and EX-C-W-Bottom, where TCE was detected at concentrations of 20 ug/kg and 19 ug/kg, respectively. All other sample results reported low level contaminant concentrations ranging from a detection limit of 1.1 ug/kg to 12 ug/kg. Based on the confirmatory sampling and headspace screening results, it is concluded that all contaminated soil in Area C has been removed

Recommendations

Area A

No Further Action is recommended for soils in Area A. This recommendation is based on the headspace screening and confirmatory sample results collected during the TCRA. Although two samples reported concentrations of PCE above NYSDEC Cleanup Concentrations, it is believed that these are isolated hot spots of contamination and not indicative of the soils surrounding Area A. This belief is based on the fact that results from samples collected within ten to fifteen feet on either side of these hot spots contained contaminants at either low level concentrations or were detected at the detection limit of 1.1 ug/kg. The second headspace sample collected after further soil was removed from this area registered 0 ppm when screened. No Further Action is also recommended based on the following information:

- The samples were collected from a depth of approximately 5 feet bgs, effectively eliminating the human receptor pathway.
- Site 6 is located in an isolated area on a secure military Base, further reducing the pathway
 to human receptors. Current and future land use at Site 6 is expected to remain light
 industrial, supporting Base operations.
- The groundwater below Site 6 is not used as a drinking water source.

Area B

No Further Action is recommended for soils at Area B. This recommendation is based on the headspace screening and confirmatory sample results collected during the TCRA. All contaminant

concentrations were either below their respective NYSDEC Cleanup Concentrations or did not have a listed cleanup concentration.

Area C

No Further Action is recommended for soils at Area C. This recommendation is based on the headspace screening and confirmatory sample results collected during the TCRA. All contaminant concentrations were either below their respective NYSDEC Cleanup Concentrations or did not have a listed cleanup concentration.

SECTION 8.0

8.0 References

ABB Environmental Services, 1996. Site Investigation Report, Volume 1, 109th Airlift Wing, Schenectady County Airport, Scotia, New York.

Aneptek Corporation, April,1998, Remedial Investigation/Feasibility Study Work Plan. 109th Airlift Wing, Stratton Air National Guard Base, Scotia, New York.

Aneptek Corporation, September, 2000. Final Remedial Investigation/Feasibility Report. 109th Airlift Wing, Stratton Air National Guard Base, Scotia, New York.

Aneptek Corporation, March, 2001. Draft Final Feasibility Study. 109th Airlift Wing, Stratton Air National Guard Base, Scotia, New York.

NYSDEC, 1991. Water Quality Standards and Guidance Values. November, 1991.

NYSDEC, 1994. Fish and Wildlife Impact Analysis of Inactive Hazardous Waste Sites. October, 1994.

NYSDEC, August, 1992. STARS Memo #1, Petroleum Contaminated Soil Guidance Policy, Division of Construction Management, Bureau of Spill Prevention an Response.

U.S Geological Survey, (USGS), 1980. USGS Topographic Quadrangle, 7.5 minute series: Schenectady Quadrangle, Schenectady, New York.

American Society for Testing and Materials (ASTM) 1998. Standard Provisional Guidance for Risk-based Corrective Action. PS 104-98.

United States Environmental Protection Agency (EPA) 1989. Risk Assessment Guidance for Superfund, V Volume 1. Part A.. OSWER Directive 9285.7-01a.

EPA. 1999b. EPA Soil Screening Levels. http://www.epa.gov/superfund/programs/risk/tooltrad.htm#dbsw, Accessed August 1999.

New York State Division of Environmental Conservation (NYSDEC) 1998a. Technical and Administrative Guidance Memorandum # 4046; Determination of Soil Cleanup Objectives and Cleanup Levels. July 1998.

NYSDEC 1998b. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998.

New York State Department of Health (NYSDOH) June 20, 2000, Generic Community Air Monitoring Plan.

APPENDIX A

BILLS OF LADING

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TITIO RECEIO DANDILE is an acknowledgement that a bill of lading has been in	ssued and is not the Original Bill	of Lading, nor	1	4A-314	- i
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ELEPHONE NUMBER: (with "X" to designate Hazardous Material as defined in The Department of Transport utations Governing Transportation of Hazardous Materials. The use of this column is an opiniod of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.2	ation Sonal 02(b)	 3		FORM NO. 1	1-BLC-03 (Rev. 7/9
e regulations governing the transportation of such materials.		- : · ·			,

			s	HIPPER NO	02-6	2/85	ر <u>آ</u>
	all helical need seek noticel to the	Is not the Original Bill of La			UA-	-314	
THIS MEMORANDUM is an acknowledgement that a I RECEIVED, subject to the classifications and tayfits in effect on the date of the re	the property named herein, and is accept by the carrier of the proper	intended solely for filling or n ty described in the Original E	ecord. C Bill of Lading.	ARRIER NO	1/2/1/2	$\frac{\mathcal{L}}{\mathcal{L}}$	
CEDER HILL BUCKIN	K			ATE:	10400	<u> </u>	
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the shipment moves between two ports by a carrier by water, the law	Subject to Section 7 (of conditions of applica	able bill of lading,	if this	TOTAL		
juires that the bill of lading shall state whether it is "camer's or snippers	shipment is to be delive consignor, the consignor	red to the consigned the shall sign the following ake delivery of this ship	statement:		CHARGES: \$	T CHARGE	S
Note where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.	freight and all other lawfu	icharges.	Horic marout pay.		Freight Prepaid except when	C F	heck box charges
e agreed or declared value of the property is hereby specifically stated by		(Signature of Consignor)			box at right is checked	∝	plect
TECEIVED, subject to the classifications and tartiffs in effect on the date of this Bill of	if foriball ford and pro-				ataa kia muhadhe s	AMBOUT BE TO BR	on carmer t
narried, consigned, that cleans a susual place of delivery at said destination, if on its own contract) agrees to carry to its usual place of delivery at said destination, if on its own rary of said property over all or any portion of said route to destination, and as ditions not prohibited by law, whether printed or written, herein contained (as specific property).	to each party at any time interest lifed in Appendix B to Part 1035	sted in all or any of said po) which are hereby agreed	roperty, that every se to by the shipper and	rvice to be accepted to	performed hereunde or himself and his as	r shall be subje signs.	ect to all th
is is to certify that the above-named materials are properly class are in proper condition for transportation according to the application	reifiad daearthad nacks	ided marked, and iai	Deleg, Bilg				
are in proper condition for transportation according to the application		180	512 L	1.7/			
IIPPER: 5 IEANOV	C/	ARRIER: CPU	MC)//	120	00	1	
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EMERGENCY RESPONSE	MONIT	ORED AT ALL TIMES TO	THE HAZARDOUS	S MATERIA	AL IS IN TRANSF	ORTATION	
ELEPHONE NUMBER: ()	etion	AND STORAGE INCID	ERIAL IO ITAN				
tark with "X" to designate hazardous material as demined in 1 me objections of hazardous materials as demonstration to produce the productions of the productions of hazardous Materials. The use of this column is an operation of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.2 "If the regulations governing the transportation of such materials."	fional (3)				FORM	I NO. 11-BLC-0	03 (Rev. 7/

			SHIPPER	NO. DD-C	7185°	
is an acknowlednement that a	bill of tading has been issued and is	not the Original Bill of Lading,		4A-	3K)	
THIS MEMORANDUM is an acknowledgement that a copy or duplicate, covering to RECEIVED, subject to the classifications and tariffs in effect on the cross of the results of t	he property named herein, and is in eceipt by the carrier of the property	tended solely for filing or record described in the Original Bill of	CARRIER Lading	2/194/1	2 2	
CEDEL HILL GOD	#UCK) NO	(SCAC	DATE:	7/0/100	<u> </u>	
AME OF CARRIER)	FRO	M < IPA)	DN A	18B	$-\infty$	
SIGNEE 204 TOW PATH FOAL	SHIPP	ER IAIRNA	AboNAL	GUARD	H	į
ESTINATION FOR ESTINATION STATE N	zip/282 Jorigi	Scol1	A	STATENY	ZIP 275	2
(TE:		U	.S. DOT Hazmat F		CLE NUMBER	
				والمناطر بسور	6000	
NO. O Description of articles, spec	ial marks, and exce	ptions (S	Subject to	ss or CHAR ate (For carrier	IGES Chec	
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₹ AIT C.O.D. TO:		COD AMT: \$		PREPAID		
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* he shipment moves between two ports by a carrier by water, the law r lires that the bill of lading shall state whether it is "carrier's or shipper's	abiament is to be delivere	conditions of applicable d to the consignee without	autrecourse on me	TOTAL CHARGES: \$		
value, where the rate is dependent on value, shippers are required to state	consignor, the consignor sl The carrier shall not mak freight and all other lawful of	e delivery of this shipmen	without payment of	FREIGHT Freight Prepaid	CHARGES	
specifically in writing the agreed or declared value of the property. agreed or declared value of the property is hereby specifically stated by shipper to be not exceeding		(Streeture of Constrato)		except when box at right is checked	If charge to be collect	
t shipper to be not exceeding	road or its own water line, otherw	ove in apparent good order, ex- roughout this contract as mediate to deliver to another carried	on the route to said des	tination, it is mutually ag	preed as to each can shall be subject to a	rrier O
tions not prohibited by law, whether printed or written, never contained (as specified is to certify that the above-named materials are properly classes in proper condition for transportation according to the application	seified described nackage	ed marked and labele	d. and			
SIGNITION)		RIEA: (LEDGE	HILL			
PPER:) (CA) / (C		477				
PER: tel Donor	PER	if they	rui/			
V V	DAT	SET AT ALLETIMES THE	HAZARDOUS MATE	RIAL IS IN TRANSPO	ORTATION	
EMERGENCY RESPONSE FELEPHONE NUMBER: ()	INCLUDI	NG STORAGE INCIDENT	AL TO TRANSPORT	ATION. (172.604)		
rk with "X" to designate Hazardous Material as defined in The Department of Transport gulations Governing Transportation of Hazardous Materials. The use of this column is an op- thod of designating hazardous materials on Bilbs of Ladings per Section 172.201 and 172.2 or the regulations governing the transportation of such materials.				FORM I	NO. 11-BLC-03 (Re	w. 7/9

FORM NO. 11-BLC-O3 (Rev. 7/95)

APPENDIX B

ANALYTICAL DATA



CHAIN OF CUSTODY

315 Fullerton Avenue Newburgh, NY 12550 TEL (845) 562-0890 FAX (845) 562-0841

REPORT # (Lab Use Only)		NY PUBLIC WATER SUPPLIES SOURCE ID	ELRP TYPE	ANALYSIS REQUESTED	Voc 7260B	100 7260 13					2					TRIP BLANK >		OATE	COMPANY DATE TIME	COMPANY DATE TIME	608-050-655-805
TURNAROUND		<u>rix</u> 7 S= SOIL O=OIL JDGE GW=GROUND WATER	astic Mestic Mastic	Liler Pil Sulfunc Santinc Sani Pi Sani Pi	文	in the state of th			J.								RM) UNLESS ALTERNATE TERMS ARE ,	RECEIVED BY CO	RECEIVED BY CO	RECEIVED BY CO	JEKF Broids 508
REPORT TYPE	STANDARD□ ISRA□ NJ REG□ NYASP A□ B区 CLP□ OTHER	Matrix DW = DRINKING WATER S: WW = WASTE WATER SI. = SLUDGE	HAGIOXIGE DISERIC PISERIC ifric Ac	**************************************		<i>""</i>	1) W	1	, ,	178%	02 2 X	2 2 X	2 2 X	2 x	AND CONDITIONS OF SALE (SHORT FOI) (1)	A TIME	TIME	I. 115 & 24.0	
2	25 200 FLWR 2009-1911 PHONE NO.		NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.	MATRIX CLIENT I.D.	S 647 6-10-601601	FY.C. F. BOTTOM	1210 51766- 7CAA	1140 EX- 10-5108410	120 FX- 6- F- n- Retton	1225 51766 TCRA	INC STECTORY BOTTOM	1200 SITE 6- TCXA - CIUTUAL	SITE 6- TCAA	(N) SITE 6- TC MA	W SITE 6- TCK4 RB-EX-041302	W TB-042402	SAMPIÈS SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING	COMPANY	(1)	COMPANY DATE () A) CATE	IN SOMME
2000		PROJECT LOCATION STANTIAN ANS B PROJECT NUMBER / PO NO.	NOTE: SAMPLE TE RECEIPT I	SAMPLING PER STL # DATE AN PM CO	X1241/241/2	1215	toto "ween	1 386	546	Company of the Compan	75-	Talk	1320	130	1600		SAMPLES SUBMITTED FOR ANALYSIS	RELINGUISHEDBY	SAMPLEDBY	RELINQUISHED BY	conjments



CHAIN OF CUSTODY

315 Fullerton Avenue Newburgh, NY 12550 TEL (845) 562-0890 FAX (845) 562-0841

CUSTOMER NAME		BEDORT TYDE	CNICABOLIND	REPORT # (Lab Use Only)
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	PHONE NO.	O nen	U VEHBAL	
PROJECT LOCATION				
STRATION ANGIS	-517E6-7CAA	Matri	· <u>×</u>	NY PUBLIC WATER SUPPLIES
<u></u>		DW = DRINKING WATER WW = WASTE WATER SLUDG	3 WATER S = SOIL O = OIL SL = SLUDGE GW = GROUND WATER	SOURCE ID
NOTE: SAMPLE	NOTE: SAMPLE TEMPERATURE UPON		8	ELRP TYPE
RECEIPT	PT MUST BE 4" ± 2"C.	Adressic Server	lic cid slic slic	FEDERAL ID
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RELINOUISHED BY	COMPANY	(COMPANY DATE TIME
SAMPLED BY	COMPANY	TIME RECEIVED BY	a de la companya de l	COMPANY DATE TIME

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 M-NY049 PA 88-378

SAMPLE I

9465, 38ct

COMMENTS

DATE

COMPANY

RECEIVED BY

508-459-6989

Krown

COMPOUND

CAS NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	•
	٠,
SITE 6 TORA EX-	A-E-SIDEWALL

Q

Lab Name:	STL Ne	wburgh	Contract: 01012.01	SITE O TORALEX]^
Lab Code:	10142	Case No.:	SAS No.: S	DG No.: AN099	
Matrix: (soil/	water)	SOIL	Lab Sample ID:	211099-005	•
Sample wt/v	ol:	5.0 (g/ml) G	Lab File ID:	W7303.D	
Level: (low/r	med)	LOW	Date Received:	04/26/02	
% Moisture:	not dec.	14	Date Analyzed:	05/03/02	
GC Column:	DB-62	4 ID: <u>0.53</u> (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume:	(uL)	Soil Aliquot Volu	ıme: (ul	L)

CONCENTRATION UNITS:

UG/KG

(ug/L or ug/Kg)

JAS NO.	COMIT COND (agric or agricg)	, <u>conce</u>	_
75-71-8	Dichlorodifluoromethane	1.2	UJL
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	υ
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	_ u
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	Ū
540-59-0	cis-1,2-Dichloroethene	7.3	
67-66-3	Chloroform	1.2	U
563-58-6	1,1-Dichloropropene	1.2	Ų
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U
71-55-6	1.1.1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	3.7	Jω
71-43-2	Benzene	1.2	Jo
142-28-9	1,3-Dichloropropane	1.2	ح
124-48-1	Dibromochloromethane	1.2	ט
10061-02-6	trans-1,3-Dichloropropene	1.2	J
79-00-5	1,1,2-Trichloroethane	1.2	כ
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1800 490	- E
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.7	Jo
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	U
108-38-3	m,p-Xylene	1.2	U
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

315 Fullenton Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX-	A-Eside
SHEDIOWEN	1

Lab Name:	STL Newburgh		Contract: 01012.01		
Lab Code:	10142	Case No.:	SAS No.: SDG No.: AN	099	
Matrix: (soil/\	vater)	SOIL	Lab Sample ID: 211099-005		
Sample wt/vo		5.0 (g/ml) G	Lab File ID: W7303.D		
Level: (low/r		LOW	Date Received: 04/26/02		
% Moisture:	-	14	Date Analyzed: 05/03/02		
GC Column:			Dilution Factor: 1.0		
Soil Extract \		(uL)	Soil Aliquot Volume:	(uL)	

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.2	U
108-86-1	Bromobenzene	1.2	U
103-65-1	n-Propylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
95-49-8	2-Chlorotoluene	1.2	U
106-43-4	4-Chlorotoluene	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.2_	U
98-06-6	tert-Butylbenzene	1.2	υ
95-63-6	1,2,4-Trimethylbenzene	1.2	U
135-98-8	sec-Butylbenzene	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
99-87-6	4-Isopropyltoluene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
87-68-3	Hexachlorobutadiene	1.2	U
120-82-1	1,2,4-Trichlorobenzene	1.2	U
91-20-3	Naphthalene	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U



STIL Newburgh

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPL	E NO.
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EX-A-E-Side

Lab Name:	STL Nev	wburgh		Contract:	01012.01	<u> </u>		
Lab Code:	10142	Cas	se No.:	SAS No	o.:	SDG No.:	<u>AN09</u>	9
Matrix: (soil/v	vater)	SOIL	_	La	b Sample	ID: 211099-	005_	
Sample wt/vo	ol:	5.0	(g/ml) G	La	b File ID:	W7303.	<u> </u>	_
Level: (low/n	ned)	LOW		Da	ate Receive	ed: 04/26/02	2	
% Moisture:	•	14	-	Da	ate Analyze	ed: 05/03/02	2	_
GC Column:	DB-62	4 ID: 0.	 53 (mm)	Di	lution Fact	or: 1.0		
Soil Extract V	/olume:		(uL)	Sc	oil Aliquot \	/olume:		(uL)
Number TICs	s found:	1	_	CONCENTRA (ug/L or ug/Kg				
CAS NO.		COMPOL	JND NAME		RT	EST. CON	c.	Q
1 00011	0-54-3	Heyana			7.70		6	JNT



14/1/02

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
SITE 6 TCRA EX-	A-S-sidewall

	t. a small	Contract: 01012.01	SHE O TORA EX-	, 4
Lab Name: STL Ne	wourgn			
Lab Code: 10142	Case No.:	_ SAS No.: SI	DG No.: AN099	
Matrix: (soil/water)	SOIL	Lab Sample ID:	211099-006	
Sample wt/vol:	5.0 (g/ml) G	Lab File ID:	W7304.D	
Level: (low/med)	LOW	Date Received:	04/26/02	
% Moisture: not dec.	10.3	Date Analyzed:	05/03/02	
GC Column: DB-6	24 ID: 0.53 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volu	me: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
75-71-8	Dichlorodifluoromethane		1.1	UJւ
74-87-3	Chloromethane		1.1	υ
74-83-9	Bromomethane		1.1	U
75-01-4	Vinyl Chloride		1.1	U
75-00-3	Chloroethane	· ·	1.1	U
75-69-4	Trichlorofluoromethane		1.1	U
75-09-2	Methylene Chloride		1.1	U
75-35-4	1.1-Dichloroethene		1.1	U
75-34-4	1.1-Dichloroethane		1.1	U
590-20-7	2,2-Dichloropropane		1.1	U
156-60-5	trans-1,2-Dichloroethylene		1.1	U
540-59-0	cis-1,2-Dichloroethene		1.1	U
67-66-3	Chloroform		1.1	U
563-58-6	1,1-Dichloropropene		1.1	U
107-06-2	1,2-Dichloroethane		1.1	U
74-97-5	Bromochloromethane		1.1	U
71-55-6	1,1,1-Trichloroethane		1.1	U
56-23-5	Carbon Tetrachloride		1.1	U
74-95-3	Dibromomethane		1.1	Ü
75-27-4	Bromodichloromethane		1.1	U
78-87-5	1,2-Dichloropropane		1.1	U
10061-01-5	cis-1,3-Dichloropropene		1.1	U_
79-01-6	Trichloroethene		2.1	Jo
71-43-2	Benzene		2.7	Jo
142-28-9	1,3-Dichloropropane		1.1	U
124-48-1	Dibromochloromethane		1,1	U
10061-02-6	trans-1,3-Dichloropropene		1.1	U
79-00-5	1,1,2-Trichloroethane		1.1	U
106-93-4	1,2-Dibromoethane		1.1	U
75-25-2	Bromoform		1.1	U
127-18-4	Tetrachloroethene	240	-270 –	E-
630-20-6	1,1,1,2-Tetrachloroethane		1.1	U
108-88-3	Toluene		13	
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
100-42-5	Styrene		1.1	U
108-38-3	m,p-Xylene		1.1	U
95-47-6	o-Xylene		1.1	U
96-18-4	1,2,3-Trichloropropane		1.1	U



STL Newburgh is a part of Severn Trent Laboratories, Inc. FORM I VOA

3/90

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX-	A-5-side
SITE O TOTAL DI	,, 0 -10

Lab Name:	STL Nev	vburgh_		_ Contract: 01012.01	
Lab Code:	10142	C	ase No.:	SAS No.:	SDG No.: AN099
- Matrix: (soil/wa	ater)	SOIL	•	Lab Sample ID): <u>211099-006</u>
Sample wt/voi	· ·	5.0	 (g/ml) G	Lab File ID:	W7304.D
Level: (low/m		LOW		Date Received	d: 04/26/02
% Moisture: n	•	10.3		Date Analyzed	1: 05/03/02
GC Column:	DB-62	4 ID:	0.53 (mm)	Dilution Factor	r: 1.0
Soil Extract V		<u></u>	(uL)	Soil Aliquot Vo	olume:(ul

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.1	Ü
108-86-1	Bromobenzene	1.1	U
103-65-1	n-Propylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U_
95-49-8	2-Chlorotoluene	1.1	U
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	1.1	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
99-87-6	4-Isopropyltoluene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
87-68-3	Hexachlorobutadiene	1.1	U
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	U
87-61-6	1,2,3-Trichlorobenzene	1.1	U





1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE	NO.
,	
EY-4-9-9 1/10	_

Lab Name:	STL Ne	wburgh	Contrac	t: <u>01012.</u> 0	01	
Lab Code:	10142	Case No.:	SAS	No.:	SDG No.: ANO	99 .
Matrix: (soil/	water)	SOIL		Lab Sample	ID: <u>211099-006</u>	
Sample wt/v		5.0 (g/ml) G		Lab File ID:	W7304.D	
Level: (low/		LOW	····	Date Receiv	/ed: 04/26/02	
% Moisture:	-		1	Date Analyz	zed: 05/03/02	<u> </u>
GC Column:			1	Dilution Fac	tor: <u>1.0</u>	
Soil Extract Volume		(uL)	Soil Aliquot V		Volume:	(uL)
			CONCENTR		ITS: /KG	
Number TIC	s found:	0	(ug/L or ug/ł	(g) <u>UG</u>	/KG	
CAS NO		COMPOUND NAME		RT	EST. CONC.	Q





COMPOUND

CAS NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	NO.
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Q

SITE 6 TCRA EX-	R-N-BOTTON
SITE 6 TCRA EX-	R-M-ROITOW

Lab Name:	STL Ne	wburgh		Contract:	01012.01	SITE O TORKE	
Lab Code:	10142	Ca	se No.:	SAS No	.:	SDG No.: AN099	
Matrix: (soil/	water)	SOIL	_	Lal	Sample ID	211099-001	
Sample wt/ve	ol:	5.0	(g/ml) G	Lal	File ID:	W7299.D	
Level: (low/r	med)	LOW		Da	te Received	: 04/26/02	
% Moisture:	not dec.	15.2		Da	te Analyzed	05/03/02	
GG Column:	DB-62	24 ID: 0.	.53 (mm)	Dil	ution Factor	1.0	
Soil Extract \	Volume:		(uL)	So	il Aliquot Vo	lume:	(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

75-71-8	Dichlorodifluoromethane	1.2	Սյլ
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	ប
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	1.3	Jo
67-66-3	Chloroform	1.2	Ü
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	1.3	Jo
71-43-2	Benzene	1.2	U
142-28-9	1,3-Dichloropropane	1.2	U
124-48-1	Dibromochloromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	U
108-38-3	m,p-Xylene	1.2	U
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX-	B-N-BOTT
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_ab Name:	STL Ne	wburgh		Contract:	01012.01		
ab Code:	10142	Cas	e No.:	SAS No	o.:	SDG No.: AN099	
Matrix: (soil/v	water)	SOIL	_	La	b Sample ID	: 211099-001	
Sample wt/vo	ol:	5.0	(g/ml) G	La	b File ID:	W7299.D	
Level: (low/r	ned)	LOW		Da	ate Received	: 04/26/02	
Moisture:	not dec.	15.2	<u>-</u>	Da	ite Analyzed	: 05/03/02	
GC Column:	DB-62	4 ID: 0.5	3 (mm)	Dil	lution Factor	: 1.0	
Soil Extract \	/olume:		(uL)	So	oil Aliquot Vo	lume:	(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
98-82-8	Isopropylbenzene		1.2	U
108-86-1	Bromobenzene		1.2	<u> </u>
103-65-1	n-Propylbenzene		1.2	U
79-34-5	1,1,2,2-Tetrachloroethane		1.2	<u> </u>
95-49-8	2-Chlorotoluene		1.2	U
106-43-4	4-Chlorotoluene		1.2	U
108-67-8	1,3,5-Trimethylbenzene		1.2	U
98-06-6	tert-Butylbenzene		1.2	<u> </u>
95-63-6	1,2,4-Trimethylbenzene		1.2	U
135-98-8	sec-Butylbenzene		1.2	U
541-73-1	1,3-Dichlorobenzene		1.2	U
99-87-6	4-Isopropyltoluene		1.2	U
106-46-7	1,4-Dichlorobenzene		1.2	<u> </u>
95-50-1	1,2-Dichlorobenzene		1.2	υ
104-51-8	n-Butylbenzene		1.2	U
96-12-8	1,2-Dibromo-3-chloropropane		1.2	U
87-68-3	Hexachlorobutadiene		1.2	Ŭ
120-82-1	1,2,4-Trichlorobenzene		1.2	U
91-20-3	Naphthalene		1.2	U
87-61-6	1,2,3-Trichlorobenzene		1.2	U



PA 68-378

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPL	E NO.
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EX-B-N-BOTT

Lab Name:	STL Nev	vburgh		Contract:	01012.01		
Lab Code:	10142		Case No.:	SAS No	n.: S	DG No.: AN099	
Matrix: (soil/w	rater)	SOIL		Lai	b Sample ID:	211099-001	
Sample wt/vo	ol:	5.0	(g/ml) <u>G</u>	Lal	b File ID:	W7299.D	
Level: (low/m	ned)	LOW		Da	ite Received:	04/26/02	
% Moisture: г	not dec.	15.2		Da	ite Analyzed:	05/03/02	
GC Column:	DB-624	4_ ID:	0.53 (mm)	Dil	ution Factor:	1.0	
Soil Extract V	'olume: _		(uL)	So	il Aliquot Volu	ıme:	(uL
				CONCENTRAT	TION UNITS:		
Number TICs	found:	15		(ug/L or ug/Kg)	UG/KG		

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-08-7	Pentane, 2,4-dimethyl-	9.00	69	JN+
2. 000565-59-3	Pentane, 2,3-dimethyl-	10.83	150	JNT
3.	Unknown CnH2n+2	11.66	460	J۲
4.	Unknown CnH2n+2	14.34	260	JŢ
5.	Unknown CnH2n+2	14.58	340	Jт
6.	Unknown CnH2n+2	15.56	100	J٢
7.	Unknown CnH2n+2	23.62	68	Jī
8.	Unknown CnH2n+2	24.00	64	JŢ
9.	C10H18 isomer	25.32	84	JT
10.	C9H18 isomer	25.75	120	Jт
11.	Unknown CnH2n	26.15	110	Jī
12.	Unknown CnH2n+2	26.30	120	JT
13.	Unknown CnH2n+2	26.62	73	Jτ
14.	C11H22 isomer	27.20	120	Jτ
15	Unknown CnH2n+2	28.86	79	J_{T}



EPA NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX-	A-w-side wall
SHE B TORA EX-	M-m-sice acin

Lab Name:	STL Ne	wburgh		Contract:	01012.01		<u> </u>
Lab Code:	10142	Cas	se No.:	SAS No	o.:	SDG No.: AN099	
Matrix: (soil/w	ater)	SOIL		La	ib Sample II	D: 211099-002	_
Sample wt/vo	ł:	5.0	(g/ml) G	La	b File ID:	W7300.D	
Level: (low/m	ned)	LOW		Da	ate Receive	d: <u>04/26/02</u>	
% Moisture: n	ot dec.	13.1		Da	ate Analyze	d: <u>05/03/02</u>	
GC Column:	DB-62	4 ID: 0.5	53 (mm)	Di	lution Facto	r: <u>1.0</u>	
Soil Extract V	olume:		(uL)	Sc	oil Aliquot V	olume:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (U	g/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluorometha	ne	1.1	UJL
74-87-3	Chloromethane		1.1	U
74-83-9	Bromomethane		1.1	U
75-01-4	Vinyl Chloride		1.1	U
75-00-3	Chloroethane		1.1	U
75-69-4	Trichlorofluoromethar	ne	1.1	U
75-09-2	Methylene Chloride		1.1	U
75-35-4	1,1-Dichloroethene		1.1	U
75-34-4	1,1-Dichloroethane		1.1	Ü
590-20-7	2,2-Dichloropropane	·	1.1	U
156-60-5	trans-1,2-Dichloroeth	vlene	1.1	U
540-59-0	cis-1,2-Dichloroethen		3.9	Jo
67-66-3	Chloroform		1.1	U
563-58-6	1,1-Dichloropropene		1.1	U
107-06-2	1,2-Dichloroethane		1.1	U
74-97-5	Bromochloromethane	}	1.1	U
71-55-6	1,1,1-Trichloroethane		1.1	U
56-23-5	Carbon Tetrachloride		1.1	U
74-95-3	Dibromomethane		1.1	U
75-27-4	Bromodichlorometha	16	1.1	U
78-87-5	1,2-Dichloropropane		1.1	U
10061-01-5	cis-1,3-Dichloroprope	ne	1.1	U
79-01-6	Trichloroethene		2.7	Jo
71-43-2	Benzene		1.3	Jo
142-28-9	1,3-Dichloropropane		1.1	U
124-48-1	Dibromochlorometha	ne	. 1.1	U
10061-02-6	trans-1,3-Dichloropro	pene	1.1	U
79-00-5	1,1,2-Trichloroethane		1.1	U
106-93-4	1,2-Dibromoethane		1.1	· U
75-25-2	Bromoform		1.1	U
127-18-4	Tetrachloroethene		/3200/ -850	E
630-20-6	1,1,1,2-Tetrachloroet	hane	1.1	U
108-88-3	Toluene		2.5	Jo
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
100-42-5	Styrene		1.1	U
108-38-3	m,p-Xylene		1.1	U
95-47-6	o-Xylene		1.1	U
96-18-4	1,2,3-Trichloropropa	ne	1.1	U

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NJDEP 73015

1A .

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA	EX-	A-w-side

Lab Name:	STL Ne	wburgh	<u></u>	_ Contract: <u>01012.01</u>	<u> </u>	لـ
Lab Code:	10142	Cas	e No.:	SAS No.:	SDG No.: AN099	-
Matrix: (soil/w	vater)	SOIL		Lab Sample l	D: 211099-002	_
Sample wt/vo	d:	5.0	(g/ml) G	Lab File ID:	W7300.D	
Level: (low/m	ned)	LOW	•	Date Receive	ed: <u>04/26/02</u>	
% Moisture: r	not dec.	13.1	<u>. </u>	Date Analyze	ed: <u>05/03/02</u>	
GC Column:	DB-62	4 ID: <u>0.5</u>	3 (mm)	Dilution Factor	or: <u>1.0</u>	
Soil Extract V	olume:		_ (uL)	Soil Aliquot V	/olume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.1	U
108-86-1	Bromobenzene	1.1	U
103-65-1	n-Propylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
95-49-8	2-Chlorotoluene	1.1	U
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	υ
98-06-6	tert-Butylbenzene	1.1	υ
95-63-6	1,2,4-Trimethylbenzene	1.1	Ü
135-98-8	sec-Butylbenzene	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
99-87-6	4-Isopropyltoluene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	υ
87-68-3	Hexachlorobutadiene	1.1	υ
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	U
87-61-6	1,2,3-Trichlorobenzene	1.1	U



EPA NY049

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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						_	_

Lab Name:	STL Nev	wburgh		Conti	act:	01012.01		4-VY-0 I	uo
Lab Code:	10142	Cas	e No.:	SA	S No	.:	SDG No.:	AN09	99
Matrix: (soil/w	rater)	SOIL			Lal	Sample I	D: <u>211099</u>	-002	
Sample wt/vo	4 :	5.0	(g/ml) G		Lat	File ID:	W7300	.D	
Level: (low/m	ned)	LOW	•		Dat	te Receive	d: <u>04/26/</u> 0)2	
% Moisture: n	ot dec.	13.1	<u> </u>		Dat	te Analyze	d: 05/03/0)2	
GC Column:	DB-62	4 ID: <u>0.5</u>	3_ (mm)		Dilu	ution Facto	or: <u>1.0</u>		_
Soil Extract V	olume:		_ (uL)		Soi	i Aliquot V	olume:		(uL)
Number TiCs	found:	0	· -	CONCEN (ug/L or u					
CAS NO.		COMPOU	ND NAME	i. • ••		RT	EST. CON	IC.	Q



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TORA EX- AN - BOTTOM

Lab Name:	STL Ne	wburgh		Contract: 01012.01		
Lab Code:	10142	Ca	se No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/	water)	SOIL	_	Lab Sample ID	: 211099-003	
Sample wt/v	ol:	5.0	(g/ml) G	Lab File ID:	W7301.D	-
Level: (low/	med)	LOW		Date Received	: 04/26/02	_
% Moisture:	not dec.	12.8	-	Date Analyzed	: 05/03/02	_
GC Column:	DB-62	24 ID: 0.	53 (mm)	Dilution Factor:	: 1.0	_
Soil Extract '	Volume:		(uL)	Soil Aliquot Vol	lume:	(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
75-71-8	Dichlorodifluoromethane		1.1	UJL
74-87-3	Chloromethane		1.1	U
74-83-9	Bromomethane		1.1	U
75-01-4	Vinyl Chloride		1.1	U
75-00-3	Chloroethane		1.1	U
75-69-4	Trichlorofluoromethane		1.1	υ
75-09-2	Methylene Chloride		1.1	U
75-35-4	1,1-Dichloroethene		1.1	J
75-34-4	1,1-Dichloroethane		1.1	U
590-20-7	2,2-Dichloropropane		1.1	כ
156-60-5	trans-1,2-Dichloroethylene		1.1	U
540-59-0	cis-1,2-Dichloroethene		1.1	U
67-66-3	Chloroform		1.1	U
563-58-6	1,1-Dichloropropene		1.1	U
107-06-2	1,2-Dichloroethane		1.1	U
74-97-5	Bromochloromethane		1.1	U
71-55-6	1,1,1-Trichloroethane		1.1	U
56-23-5	Carbon Tetrachloride		1.1	U
74-95-3	Dibromomethane		1.1	U
75-27-4	Bromodichloromethane		1.1	U
78-87-5	1,2-Dichloropropane		1.1	U
10061-01-5	cis-1,3-Dichloropropene		1.1	U
79-01-6	Trichloroethene		1.1	U
71-43-2	Benzene		2.1	Jo
142-28-9	1,3-Dichloropropane		1.1	U
124-48-1	Dibromochloromethane		1.1	U
10061-02-6	trans-1,3-Dichloropropene		1.1	U
79-00-5	1,1,2-Trichloroethane		1.1	U
106-93-4	1,2-Dibromoethane		1.1	U
75-25-2	Bromoform		1.1	U
127-18-4	Tetrachloroethene	130	-290	E
630-20-6	1,1,1,2-Tetrachloroethane		1.1	U
108-88-3	Toluene		5.5	ļ <u>-</u>
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
100-42-5	Styrene		1.1	U
108-38-3	m,p-Xylene		1.3	Jo
95-47-6	o-Xylene		1.1	U
96-18-4	1,2,3-Trichloropropane		1.1	U



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3/90 M-NY049

PA 68-378

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPI	LE NO.

SITE 6 TCRA EX- A - N - BOTT

Lab Name:	STL Ne	wburgh		Contract: 01012.01		
Lab Code:	10142	C:	ase No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/v	water)	SOIL	_ _	Lab Sample II	211099-003	
Sample wt/vo	ol:	5.0	_ (g/ml) G	Lab File ID:	W7301.D	
Level: (low/n	ned)	LOW	_	Date Received	i: <u>04/26/02</u>	
% Moisture: ı	not dec.	12.8		Date Analyzed	1: 05/03/02	
GC Column:	DB-62	4 ID: 0	.53 (mm)	Dilution Factor	: 1.0	
Soil Extract \	/olume:		(uL)	Soil Aliquot Vo	olume:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.1	U
108-86-1	Bromobenzene	1.1	J
103-65-1	n-Propylbenzene	1.1	J
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
95-49-8	2-Chlorotoluene	1.1	U
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	1.1	IJ
95-63-6	1,2,4-Trimethylbenzene	1.1	J
135-98-8	sec-Butylbenzene	1.1	ט
541-73-1	1,3-Dichlorobenzene	1.1	U
99-87-6	4-Isopropyltoluene	1.1	Ú
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	כ
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
87-68-3	Hexachlorobutadiene	1.1	J
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	U
87-61-6	1,2,3-Trichlorobenzene	1.1	U





1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO	•
EY-A-N-ROTT	

Lab Name:	STL Nev	vburgh	Contrac	t; <u>01012.0</u>		יטפיאי	
Lab Code:	10142	Case No.:	SAS I	No.:	_ SDG No.:	AN099	
Matrix: (soil/w	rater)	SOIL	Į	_ab Sample	ID: <u>211099</u>	-003	
Sample wt/vo	l:	5.0 (g/ml) G		.ab File ID:	W7301.	.D	
Level: (low/m	ned)	LOW	I	Date Receiv	/ed: <u>04/26/0</u>	2	
% Moisture: n	ot dec.	12.8	Į.	Date Analyz	ed: <u>05/03/0</u>	2	
GC Column:	DB-62	4 ID: 0.53 (mm)	(Dilution Fac	tor: <u>1.0</u>	<u>. </u>	
Soil Extract V	olume:	(uL)	5	Soil Aliquot	Volume:		(uL)
			CONCENTR	_	ITS: /KG		
Number TICs	found:	0	(ug/L or ug/K	.g) <u>00.</u>			
CAS NO.		COMPOUND NAME		RT	EST. CON	c.	Q



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE	NO.
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SITE 6 TCRA EX-	A-N-SIDEWALL

Lab Name:	STL Ne	wburgh		Contract: 01012.01	1
Lab Code:	10142		se No.:	SAS No.:	SDG No.: AN099
Matrix: (soil/v	vater)	SOIL		Lab Sample	ID: 211099-004
Sample wt/vo	ol:	5.0	(g/ml)	Lab File ID:	W7302.D
Level: (low/r	ned)	LOW	_	Date Receive	ed: 04/26/02
% Moisture:	not dec.	13.3		Date Analyze	ed: <u>05/03/02</u>
GC Column:	DB-62	24 ID: 0.	.53 (mm)	Dilution Fact	or: <u>1.0</u>
Soil Extract \	/olume:		(uL)	Soil Aliquot \	Volume: (ul

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
75-71-8	Dichlorodifluoromethane		1.1	UJL
74-87-3	Chloromethane		1.1	U
74-83-9	Bromomethane		1.1	U
75-01-4	Vinyl Chloride		1.1	U
75-00-3	Chloroethane		1.1	U
75-69-4	Trichlorofluoromethane		1.1	U
75-09-2	Methylene Chloride		1.1	Ū
75-35-4	1,1-Dichloroethene		1.1	U
75-34-4	1,1-Dichloroethane		1.1	U
590-20-7	2,2-Dichloropropane		1.1	U
156-60-5	trans-1,2-Dichloroethylene		1.1	U
540-59-0	cis-1,2-Dichloroethene		1.1	Ū
67-66-3	Chloroform		1.1	U
563-58-6	1,1-Dichloropropene		1.1	Ū
107-06-2	1,1-Dichloropthane		1.1	Ū
74-97-5	Bromochloromethane		1.1	Ū
71-55-6	1,1,1-Trichloroethane	-	1.1	Ū
56-23-5	Carbon Tetrachloride		1.1	U
74-95-3	Dibromomethane		1.1	Ü
75-27-4	Bromodichloromethane		1.1	Ū
78-87-5	1,2-Dichloropropane		1.1	Ū
10061-01-5	cis-1,3-Dichloropropene		1.1	Ū
79-01-6	Trichloroethene		1.1	Jø
71-43-2	Benzene		1.9	Jo
142-28-9	1,3-Dichloropropane		1.1	U
124-48-1	Dibromochloromethane		1.1	U
10061-02-6	trans-1,3-Dichloropropene		1.1	U
79-00-5	1,1,2-Trichloroethane	-	1.1	U
106-93-4	1,2-Dibromoethane		1.1	U
75-25-2	Bromoform		1.1	J
127-18-4	Tetrachloroethene	400	-270	E
630-20-6	1,1,1,2-Tetrachloroethane		1.1	U
108-88-3	Toluene		3.1	JQ
108-90-7	Chlorobenzene		1.1	U
100-41-4	Ethylbenzene		1.1	U
100-42-5	Styrene		1.1	U
108-38-3	m,p-Xylene		1.1	Ū
95-47-6	o-Xylene		1.1	Ü
96-18-4	1,2,3-Trichloropropane		1.1	Ü

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3/90 M-NY049 STL Newburgh 315 Fullerton Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TORA EX- A-N-SIDC

Lab Name:	STL Ne	wburgh		Contract: <u>01012.01</u>	
Lab Code:	10142	Cas	se No.:	SAS No.:	SDG No.: AN099
Matrix: (soil/	water)	SOIL	_	Lab Sample I	D: <u>211099-004</u>
Sample wt/vo	ol:	5.0	(g/ml) G	Lab File ID:	W7302.D
Level: (low/r	ned)	LOW	_	Date Receive	ed: 04/26/02
% Moisture:	not dec.	13.3		Date Analyze	ed: 05/03/02
GC Column:	DB-62	4 ID: <u>0.5</u>	3_ (mm)	Dilution Facto	or: <u>1.0</u>
Soil Extract \	/olume:		(uL)	Soil Aliquot V	/olume: (u

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/	Kg) <u>UG/KG</u>	Q
98-82-8	Isopropylbenzene	1.1	U
108-86-1	Bromobenzene	1.1	U_
103-65-1	n-Propylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
95-49-8	2-Chlorotoluene	1.1	<u> </u>
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	1.1	U_
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U_
99-87-6	4-Isopropyltoluene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
87-68-3	Hexachlorobutadiene	1.1	U
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	· U
87-61-6	1,2,3-Trichlorobenzene	1.1	U





1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAME	'LE	NO.

Lab Name:	STL Ne	wburgh		Contract:	01012.0		X-A-N-5	lac
Lab Code:	10142	Cas	e No.:	SAS N	o.:	_ SDG N	lo.: <u>AN0</u>	99
Matrix: (soil/	water)	SOIL		La	ab Sample	ID: 2110)99-004	
Sample wt/vo	ol:	5.0	(g/ml) G	La	ab File ID:	W73	02.D	
Level: (low/r	ned)	LOW		Da	ate Receiv	ed: <u>04/2</u>	6/02	
% Moisture:	not dec.	13.3		D	ate Analyz	ed: <u>05/0</u>	3/02	
GC Column:	DB-62	4 ID: 0.5	3_ (mm)	Di	ilution Fac	tor: 1.0		
Soil Extract \	√olume:		_ (uL)	Se	oil Aliquot	Volume:		(uL)
Number TIC	s found:	1	 -	CONCENTRA (ug/L or ug/Kg				
CAS NO.		COMPOU	ND NAME		RT	EST. C	ONC.	Q

Unknown

PA 68-378

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX-	c-s-siduwal

_ab Name:	STL Nev	wburgh		Contract: 01012.01	
_ab Code:	10142	С	ase No.:	SAS No.:	SDG No.: AN099
Matrix: (soil/v	water)	SOIL		Lab Sample I	D: 211099-015
Sample wt/vo	ol.	5.0	(g/ml) <u>G</u>	Lab File ID:	W7320.D
Level: (iow/n	ned)	LOW		Date Receive	ed: <u>04/26/02</u>
% Moisture:	not dec.	13.9		Date Analyze	ed: 05/04/02
GC Column:	DB-62	4 ID: 0	0.53 (mm)	Dilution Facto	or: <u>1.0</u>
Soil Extract \	/olume.	-	(uL)	Soil Aliquot V	/olume: (เ

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	UJL
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	<u> </u>
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	1.2	U
67-66-3	Chloroform	1.2	U
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	1.3	Ta
71-43-2	Benzene	1.2	<u> jo</u>
142-28-9	1,3-Dichloropropane	1.2	U
124-48-1	Dibromochloromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.7	Jo
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	U
108-38-3	m,p-Xylene	1.2	U
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

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3/90

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA S	AMPLE	NO.
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	l 1
SITE 6 TCRA EX-	C+5-5101

Lab Name: STL N	ewburgh	_ Contract: 01012.01		
Lab Code: 10142	Case No.:	SAS No.: SD	G No.: AN099	
Matrix: (soil/water)	SOIL	Lab Sample ID: 2	11099-015	
Sample wt/vol:	5.0 (g/ml) G	Lab File ID:	N7320.D	
Level: (low/med)	LOW	Date Received: 0)4/26/02	
% Moisture: not dec	. 13.9	Date Analyzed: ()5/04/02	
GC Column: DB-		Dilution Factor:	1.0	
Soil Extract Volume		Soil Aliquot Volum	ne: (uL))

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.2	U
108-86-1	Bromobenzene	1.2	U
103-65-1	n-Propylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
95-49-8	2-Chlorotoluene	1.2	U
106-43-4	4-Chlorotoluene	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.2	U
98-06-6	tert-Butylbenzene	1.2	U
95-63-6	1,2,4-Trimethylbenzene	1.2	U
135-98-8	sec-Butylbenzene	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
99-87-6	4-Isopropyltoluene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
104-51-8	n-Butylbenzene	1.2	Ų
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
87-68-3	Hexachlorobutadiene	1.2	U
120-82-1	1,2,4-Trichlorobenzene	1.2	U
91-20-3	Naphthalene	1.2	U_
87-61-6	1,2,3-Trichlorobenzene	1,2	U





EPA NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SMAIL	- LE	NO.
FY.	C-S-S	id	ı

Lab Name:	STL Ne	wburgh		Conf	ract:	01012.01	L		
Lab Code:	10142	Ca	se No.:	S/	AS No	. .:	SDG No.:	AN099	
Matrix: (soil/v	vater)	SOIL	_		Lal	Sample I	D: <u>211099-</u> 0	015	
Sample wt/vo	ol:	5.0	(g/ml) G		Lal	b File ID:	W7320.D)	
Level: (low/n	ned)	LOW	_		Da	te Receive	d: <u>04/26/02</u>		
% Moisture:	not dec.	13.9			Da	te Analyze	d: <u>05/04/02</u>	<u>-</u>	
GC Column:	DB-62	4 ID: <u>0.</u>	53 (mm)		Dil	ution Facto	or: <u>1.0</u>		
Soil Extract V	/olume:		_ (uL)		So	il Aliquot V	olume:	· · · ·	(uL)
						TION UNIT UG/K			
Number TICs	s found:	0		(ug/L or u	y/Ny)	UGIN	<u></u>		
CAS NO.		COMPO	JND NAME			RT	EST. CONC		Q



tal la

COMPOUND

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO	
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Q

SITE 6 TCRA EX-	c-w-sidewall
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-

Lab Name:	STL Ne	wburgh	Contract:	01012.01	011201010121
Lab Code:	10142	Case No.:	SAS No	o.: S	DG No.: AN099
Matrix: (soil/v	vater)	SOIL	La	b Sample ID:	211099-016
Sample wt/vo	ol:	5.0 (g/ml) (G La	b File ID:	W7321.D
Level: (low/n	ned)	LOW	Da	ate Received:	04/26/02
% Moisture: ı	not dec.	12.5	Da	ate Analyzed:	05/04/02
GC Column:	DB-62	4 ID: 0.53 (mn	n) Dil	lution Factor:	1.0
Soil Extract V	/olume:	(uL)	So	il Aliquot Volu	me: (ul

CONCENTRATION UNITS:

UG/KG

(ug/L or ug/Kg)

	(agric or agring)		_
75-71-8	Dichlorodifluoromethane	1.1	UJL
74-87-3	Chloromethane	1.1	U
74-83-9	Bromomethane	1.1	U
75-01-4	Vinyl Chloride	1.1	υ
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	Ū
75-09-2	Methylene Chloride	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
75-34-4	1,1-Dichloroethane	1.1	U
590-20-7	2,2-Dichloropropane	1.1	U
156-60-5	trans-1,2-Dichloroethylene	1.1	U
540-59-0	cis-1,2-Dichloroethene	46	
67-66-3	Chloroform	1.1	U
563-58-6	1,1-Dichloropropene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
74-97-5	Bromochloromethane	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	Ü
56-23-5	Carbon Tetrachloride	1.1	U
74-95-3	Dibromomethane	1.1	U
75-27-4	Bromodichloromethane	1,1	Ú
78-87-5	1,2-Dichloropropane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
79-01-6	Trichloroethene	91	
71-43-2	Benzene	2.9	Tø
142-28-9	1,3-Dichloropropane	1.1	Ū
124-48-1	Dibromochloromethane	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	Ū
79-00-5	1,1,2-Trichloroethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
75-25-2	Bromoform	1.1	U
127-18-4	Tetrachloroethene	1.1	Ü
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	3	Jo
108-90-7	Chlorobenzene	1.1	Û
100-41-4	Ethylbenzene	1.1	U
100-42-5	Styrene	1.1	Ü
108-38-3	m,p-Xylene	1.1	Ü
95-47-6	o-Xylene	1.1	Ū
96-18-4	1,2,3-Trichloropropane	1.1	Ū

182/1/2 No.



CAS NO.

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- C-W-Sd

Co	ntract: 0	1012.01	SILEOTORAL	_^-
No.:	SAS No.:	SD	OG No.: AN099	
	Lab S	ample ID: 2	211099-016	
g/ml) <u>G</u>	Lab F	ile ID:	W7321.D	
	Date l	Received: (04/26/02	
	Date	Analyzed: (05/04/02	
(mm)	Dilutio	on Factor:	1.0	
(uL)	Soil A	liquot Volum	ne:	(uL)
	No.: 8	No.: SAS No.: Lab S g/ml) G	No.: SAS No.: SE Lab Sample ID: g/ml) G Lab File ID: Date Received: Date Analyzed: (mm) Dilution Factor:	Contract: 01012.01

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.1	Īυ
108-86-1	Bromobenzene	1.1	U
103-65-1	n-Propylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
95-49-8	2-Chlorotoluene	1.1	U
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	Ü
98-06-6	tert-Butylbenzene	1.1	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	1.1	U
541-73-1	-1,3-Dichlorobenzene	1.1	U
99-87-6	4-Isopropyltoluene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	Ü
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
87-68-3	Hexachlorobutadiene	1.1	U
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	U
87-61-6	1,2,3-Trichlorobenzene	1.1	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

Lab Name:	STL Ne	wburgh	Contrac	t:	01012.01		EX-C-	-W-5 I	
Lab Code:	10142	Case No.:	SAS	No.	.:	SD	G No.:	AN099)
Matrix: (soil/	water)	SOIL	Ĺ	.ab	Sample II	D: <u>2</u>	211099-	016	
Sample wt/ve	ol:	5.0 (g/ml) G		_ab	File ID:	<u>\</u>	N7321.[)	_
Level: (low/r	ned)	LOW		Dat	e Receive	d: <u>(</u>)4/26/02	2	_
% Moisture:	not dec.	12.5	·)at	e Analyze	d: <u>(</u>	5/04/02	<u> </u>	_
GC Column:	DB-62	4 ID: <u>0.53</u> (mm)	[Dilu	ition Facto	r: <u>1</u>	1.0		
Soil Extract \	Volume:	(uL)	8	Soil	l Aliquot Vo	olum	ne:		_ (uL)
		·	CONCENTR	ΑT	ON UNITS	S:			
Number TIC:	s found:	1	(ug/L or ug/K	g)	UG/K	G			
CAS NO.		COMPOUND NAME			RT	ES1	T. CONC). ·	Q





000071-23-8

1-Propanol

PA 68-378

8.55

COMPOUND

CAS NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	•	
SITE 6 TCRA FX-	C-0-d	(Bost)

Q

Lab Name:	STL Ne	wburgh		Contract:	01012.01	_ ISITE O TORAT	-^-
Lab Code:	10142 Case No.:			SAS No	: s	SDG No.: AN099	
Matrix: (soil/	water)	SOIL		Lal	Sample ID:	211099-017	
Sample wt/v	ol:	5.0	(g/ml) G	Lal	b File ID:	W7322.D	
Level: (low/r	med)	LOW		Da	te Received:	04/26/02	
% Moisture:	not dec.	11.4		Da	te Analyzed:	05/04/02	
GC Column:	DB-62	4 ID: <u>0.5</u>	3_ (mm)	Dile	ution Factor:	1.0	
Soil Extract \	Volume:		(uL)	So	il Aliquot Volu	ıme:	(uL

CONCENTRATION UNITS:

UG/KG

(ug/L or ug/Kg)

DAG NO.	COMI COND (agree a agring)	00/10	_
75-71-8	Dichlorodifluoromethane	1.1	UJι
74-87-3	Chioromethane	1.1	U
74-83-9	Bromomethane	1.1	U
75-01-4	Vinyl Chloride	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-09-2	Methylene Chloride	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
75-34-4	1,1-Dichloroethane	1.1	U
590-20-7	2,2-Dichloropropane	1.1	U
156-60-5	trans-1,2-Dichloroethylene	1.1	U
540-59-0	cis-1,2-Dichloroethene	3.6	Jø
67-66-3	Chloroform	1.1	U
563-58-6	1,1-Dichloropropene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
74-97-5	Bromochloromethane	1.1	Ü
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.1	U
74-95-3	Dibromomethane	1.1	٦
75-27-4	Bromodichloromethane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	J
10061-01-5	cis-1,3-Dichloropropene	1.1	٦
79-01-6	Trichloroethene	13	
71-43-2	Benzene	5.3	Jo
142-28-9	1,3-Dichloropropane	1.1	J
124-48-1	Dibromochloromethane	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	J
79-00-5	1,1,2-Trichloroethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
75-25-2	Bromoform	1.1	U
127-18-4	Tetrachloroethene	1.9	Jω
630-20-6	1,1,1,2-Tetrachloroethane	1.1	Ü
108-88-3	Toluene	21	JF
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
100-42-5	Styrene	1.1	U
108-38-3	m,p-Xylene	1.1	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U





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3/90

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- C-e-d (bol)

_ab Name:	STL Nev	wburgh		Contract: 01012.01	
Lab Code:	10142	Cas	e No.:	SAS No.:	SDG No.: AN099
Matrix: (soil/v	vater)	SOIL		Lab Sample II	D: <u>211099-017</u>
Sample wt/vo	ol:	5.0	(g/ml) G	Lab File ID:	W7322.D
Level: (low/n	ned)	LOW		Date Receive	d: 04/26/02
% Moisture: ı	not dec.	11.4		Date Analyze	d: <u>05/04/02</u>
GC Column:	DB-62	4 ID: <u>0.5</u>	3 (mm)	Dilution Facto	r: <u>1.0</u>
Soil Extract V	/olume:		_ (uL)	Soil Aliquot Vo	olume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q .
98-82-8	Isopropylbenze	ne		.1 U
108-86-1	Bromobenzene		1	.1 U
103-65-1	n-Propylbenzen	e		.1 U
79-34-5	1,1,2,2-Tetrach	loroethane		.1 U
95-49-8	2-Chlorotoluene		1	.1 U
106-43-4	4-Chlorotoluene)		.1 U
108-67-8	1,3,5-Trimethyll	penzene	1	.1 U
98-06-6	tert-Butylbenze	ne	1	.1 U
95-63-6	1,2,4-Trimethyll	penzene	1	.1 U
135-98-8	sec-Butylbenze	ne	1	.1 U
541-73-1	1,3-Dichlorober	izene	1	.1 U
99-87-6	4-Isopropyltolue	ene	1	.1 U
106-46-7	1,4-Dichlorober	zene	1	.1 U
95-50-1	1,2-Dichlorober	zene	1	.1 U
104-51-8	n-Butylbenzene		1	.1 U
96-12-8	1,2-Dibromo-3-	chloropropane	1	.1 U
87-68-3	Hexachlorobuta		1	.1 U
120-82-1	1,2,4-Trichlorob	enzene	1	.1 U
91-20-3	Naphthalene		1	.1 U
87-61-6	1,2,3-Trichlorob	enzene	1	.1 U





M-NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ELW	SAIVIE	LLC	IVO.

Lab Name:	STL Nev	wburgh	Contract	: 01012.0)1 EX-C-E-D	(10017)
Lab Code:	10142	Case No.:	SAS	ło.:	SDG No.: ANG)99
Matrix: (soil/	water)	SOIL	L	ab Sample	ID: <u>211099-017</u>	
Sample wt/vo	ol:	5.0 (g/ml) G	L	ab File ID:	W7322.D	
Level: (low/r	ned)	LOW		ate Receiv	ved: 04/26/02	
% Moisture:	not dec.	11.4		ate Analyz	zed: 05/04/02	
GC Column:	DB-62	4 ID: <u>0.53</u> (mm)		ilution Fac	tor: <u>1.0</u>	
Soil Extract \	/olume:	(uL)	S	oil Aliquot	Volume:	(uL)
Number TICs	s found:	<u> </u>	CONCENTRA (ug/L or ug/K			
CAS NO.	į	COMPOUND NAME		RT	EST. CONC.	Q





COMPOUND

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX- C-E

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C-e	-sid	ഡാ	11

Contract: 01012.01 Lab Name: STL Newburgh SDG No.: AN099 SAS No.: Case No.: Lab Code: 10142 Lab Sample ID: 211099-018 SOIL Matrix: (soil/water) Lab File ID: W7323.D Sample wt/vol: 5.0 (g/ml) G Level: (low/med) LOW Date Received: 04/26/02 % Moisture: not dec. 13.2 Date Analyzed: 05/04/02 Dilution Factor: 1.0 GC Column: DB-624 ID: 0.53 (mm) (uL) Soil Aliquot Volume: Soil Extract Volume:

CONCENTRATION UNITS:

UG/KG

(ug/L or ug/Kg)

	(10 10)		
75-71-8	Dichlorodifluoromethane	1.1	UJL
74-87-3	Chloromethane	1.1	U
74-83-9	Bromomethane	1.1	U
75-01-4	Vinyl Chloride	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	Ü
75-09-2	Methylene Chloride	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
75-34-4	1,1-Dichloroethane	1.1	U
590-20-7	2,2-Dichloropropane	1.1	U
156-60-5	trans-1,2-Dichloroethylene	1.1	U
540-59-0	cis-1,2-Dichloroethene	1.3	Jo
67-66-3	Chloroform	1.1	U
563-58-6	1,1-Dichloropropene	1.1	Ú
107-06-2	1,2-Dichloroethane	1.1	U
74-97-5	Bromochloromethane	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.1	U
74-95-3	Dibromomethane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
79-01-6	Trichloroethene	5.8	
71-43-2	Benzene	2	.Tq
142-28-9	1,3-Dichloropropane	1.1	U
124-48-1	Dibromochloromethane	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79 - 00-5	1,1,2-Trichloroethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
75-25-2	Bromoform	1.1	U
127-18-4	Tetrachloroethene	0.7	Ja
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	5	Jo
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
100-42-5	Styrene	1.1	U
108-38-3	m,p-Xylene	1.1	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	υ





CAS NO.

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3/90

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- C-e-side

Lab Name: STL N	lewburgh	Contract: 01012.01
Lab Code: <u>10142</u>	Case No.:	SAS No.: SDG No.: AN099
Matrix: (soil/water)	SOIL	Lab Sample ID: 211099-018
Sample wt/vol:	5.0 (g/ml) <u>G</u>	Lab File ID: W7323.D
Level: (low/med)	LOW	Date Received: 04/26/02
% Moisture: not dec	:. <u>13.2</u>	Date Analyzed: 05/04/02
GC Column: DB-	624 ID: <u>0.53</u> (mm)	Dilution Factor: 1.0
Soil Extract Volume	: (uL)	Soil Aliquot Volume: (ul

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene		1.1	U
108-86-1	Bromobenzene		1.1	U
103-65-1	n-Propylbenzene		1.1	U
79-34-5	1,1,2,2-Tetrachioroe	thane	1.1	U
95-49-8	2-Chlorotoluene		1.1	U
106-43-4	4-Chiorotoluene		1.1	U
108-67-8	1,3,5-Trimethylbenz	ene	1.1	U
98-06-6	tert-Butylbenzene		1.1	U
95-63-6	1,2,4-Trimethylbenz	ene	1.1	U
135-98-8	sec-Butylbenzene		1.1	U
541-73-1	1,3-Dichlorobenzene	•	1.1	U
99-87-6	4-Isopropyltoluene		1.1	U
106-46-7	1,4-Dichlorobenzene)	1.1	U
95-50-1	1,2-Dichlorobenzene		1.1	U
104-51-8	n-Butylbenzene		1.1	U
96-12-8	1,2-Dibromo-3-chlor	opropane	1.1	U
87-68-3	Hexachlorobutadien		1.1	U
120-82-1	1,2,4-Trichlorobenze		1.1	U
91-20-3	Naphthalene		1.1	U
87-61-6	1,2,3-Trichlorobenze	ene	1.1	U



VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	N0.
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EX-C-E-side Contract: 01012.01 STL Newburgh Lab Name: SAS No.: SDG No.: AN099 Lab Code: 10142 Case No.: SOIL Lab Sample ID: 211099-018 Matrix: (soil/water) (g/ml) G 5.0 Lab File ID: W7323.D Sample wt/vol: Date Received: 04/26/02 Level: (low/med) LOW Date Analyzed: 05/04/02 % Moisture; not dec. 13.2 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: _.___ (uL) Soil Extract Volume: (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) Number TICs found: RT EST. CONC. Q CAS NO. COMPOUND NAME





COMPOUND

CAS NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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Q

SITE 6 TCRA EX- C-W-botton	SITE 6 TCRA EX-	c-w-botton
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Lab Name:	STL Nev	wburgh		Contract: 01012.0	O1 SITE 6 TCRA EX	
Lab Code:	10142		e No.:	SAS No.:	SDG No.: AN099	_
Matrix: (soil/	water)	SOIL		Lab Sample	ID: 211099-019	_
Sample wt/vo	ol:	5.0	(g/ml) G	Lab File ID:	W7335.D	
Level: (low/r	ned)	LOW		Date Receiv	ved: 04/26/02	
% Moisture:	not dec.	15.9		Date Analyz	zed: 05/06/02	
GC Column:	DB-62	4 ID: 0.5	3(mm)	Dilution Fact	tor: 1.0	
Sail Evtract \	/oluma:		 (ut \	Soit Aliquot \	Volume: (uL}

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

75-71-8	Dichlorodifluoromethane	1.2	UJL
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	6.9	
67-66-3	Chloroform	1.2	U
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U_
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	Ų
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	19	
71-43-2	Benzene	2.5	JQ
142-28-9	1,3-Dichloropropane	1.2	U
124-48-1	Dibromochioromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1,2	U
108-88-3	Toluene	2.5	Jo
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	Ų
		1.	

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108-38-3

95-47-6

96-18-4

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3/90 M-NY049

1,2,3-Trichloropropane

m,p-Xylene

o-Xylene

1.2

1.2

1.2

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
SITE 6 TCRA EX-	c-w-bott

Lab Name:	STL Ne	wburgh		_ Contract:	01012.01] ` `
Lab Code:	10142	Case No.		_ SAS No	o.:	SDG No.:	AN099	-
Matrix: (soil/w	vater)	SOIL		La	b Sample ID	: <u>211099</u> -	019	_
Sample wt/vo	ol:	5.0 (g/m	nl) <u>G</u>	_ La	b File ID:	W7335.I)	
Level: (low/m	ned)	LOW		Da	ate Received	: 04/26/02	2	
% Moisture: r	not dec.	15.9		Da	ate Analyzed	: 05/06/02	2	
GC Column:	DB-62	4 ID: 0.53	(mm)	Dit	ution Factor	: 1.0		
Soil Extract V	olume:	(uL)	So	il Aliquot Vo	lume:	(u	L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
98-82-8	Isopropylbenzene			1.2	U
108-86-1	Bromobenzene			1.2	U
103-65-1	n-Propylbenzene			1.2	J
79-34-5	1,1,2,2-Tetrachloro	ethane		1.2	J
95-49-8	2-Chlorotoluene			1.2	U
106-43-4	4-Chlorotoluene			1.2	J
108-67-8	1,3,5-Trimethylben	zene		1.2	J
98-06-6	tert-Butylbenzene			1.2	U
95-63-6	1,2,4-Trimethylben	zene		1.2	U
135-98-8	sec-Butylbenzene			1.2	U
541-73-1	1,3-Dichlorobenze	ne		1.2	U
99-87-6	4-isopropyltoluene			1.2	U
106-46-7	1,4-Dichlorobenze			1.2	U
95-50-1	1,2-Dichlorobenze			1.2	U
104-51-8	n-Butylbenzene			1.2	U
96-12-8	1,2-Dibromo-3-chlo	propropane		1.2	U
87-68-3	Hexachlorobutadie			1.2	U
120-82-1	1,2,4-Trichlorobena			1.2	J
91-20-3	Naphthalene			1.2	U
87-61-6	1.2.3-Trichloroben:	zene		1.2	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

Lab Name:	STL Ne	wburgh	Contract	:: <u>(</u>	01012.01	EX-C-W-B	ott
Lab Code:	10142	Case No.:	SAS	- :.ov	;	SDG No.: AND	99
Matrix: (soil/	water)	SOIL	L	.ab	Sample ID	: <u>211099-019</u>	
Sample wt/vo	ol:	5.0 (g/ml) G		.ab	File ID:	W7335.D	
Level: (low/r	med)	LOW		ate	Received	: 04/26/02	
% Moisture:	not dec.	15.9	[ate	: Analyzed:	05/06/02	
GC Column:	DB-62	4 ID: <u>0.53</u> (mm)	Ċ	Dilut	ion Factor:	1.0	
Soil Extract \	Volume:	(uL)	8	Soil	Aliquot Vol	ume:	(uL)
Number TIC:	s found:	1	CONCENTR (ug/L or ug/K		ON UNITS UG/KG		
CAS NO.		COMPOUND NAME			RT E	ST. CONC.	Q

8.48



1-Propanol

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
SITE 6 TCRA EX-	c-n-sidewall

.ab Name:	STL Ne	wburgh		Contract: 01012.0	01 SITE O TOTAL EX-	ľ
_ab Code:	10142	Cas	e No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/v	water)	SOIL		Lab Sample	e ID: 211099-020	
Sample wt/vo	ol:	5.0	(g/ml) G	Lab File ID:	: W7325.D	
_evel: (low/n	ned)	LOW		Date Receiv	ived: <u>04/26/02</u>	
% Moisture:	not dec.	19.6		Date Analyz	zed: 05/04/02	
GC Column:	DB-62	4 ID: 0.5	3 (mm)	Dilution Fac	ctor: 1.0	
Soil Extract \	/olume:		(aL)	Soil Aliquot	t Volume: (น	L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	UJı
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	1.2	Ja
67-66-3	Chloroform	1.2	υ
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	12	
71-43-2	Benzene	1.2	ქც
142-28-9	1,3-Dichloropropane	1.2	U
124-48-1	Dibromochloromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	υ
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.3	Jφ
108-90-7	Chlorobenzene	1,2	<u>U`</u>
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	U
108-38-3	m,p-Xylene	1.2	U
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.		
	ı	
OUTTO TODA EV	_	

Lab Name:	STL Ne	wburgh		Contract:	01012.01	SILE & TURA	
Lab Code:	10142	Case No	.:	SAS No	.:	SDG No.: AN099	
Matrix: (soil/v	vater)	SOIL		Lab	Sample ID	211099-020	
Sample wt/vo	ol:	5.0 (g/m	nl) <u>G</u>	Lat	File ID:	W7325.D	
Level: (low/r	ned)	LOW		Dat	te Received	i: <u>04/26/02</u>	
% Moisture:	not dec.	19.6		Dat	te Analyzed	l: <u>05/04/02</u>	
GC Column:	DB-62	4 ID: <u>0.53</u>	(mm)	Dile	ution Factor	1.0	
Soil Extract \	/olume:	(uL)	Soi	il Aliquot Vo	olume:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.2	U
108-86-1	Bromobenzene	1.2	U
103-65-1	n-Propylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
95-49-8	2-Chlorotoluene	1.2	<u> </u>
106-43-4	4-Chlorotoluene	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.2	U
98-06-6	tert-Butylbenzene	1.2	<u> </u>
95-63-6	1,2,4-Trimethylbenzene	1.2	U
135-98-8	sec-Butylbenzene	1.2	<u> </u>
541-73-1	1,3-Dichlorobenzene	1.2	U
99-87-6	4-1sopropyttoluene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
87-68-3	Hexachlorobutadiene	1.2	U
120-82-1	1,2,4-Trichlorobenzene	1.2	U
91-20-3	Naphthalene	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAN	(PLE I	VO.

Lab Name:	STL Nev	wburgh		Contract:	01012.0	1	L.		
Lab Code:	10142	Case No.:		SAS No	o.:	_ SD	G No.: Al	1099	
Matrix: (soil/v	vater)	SOIL		Lai	b Sample	ID: 2	211099-02	0	
Sample wt/vo	ol:	5.0 (g/ml) <u>G</u>	Lai	b File ID:	7	W7325.D	<u> </u>	
Level: (low/n	ned)	LOW		Da	ite Receiv	ed: <u>(</u>	04/26/02		
% Moisture:	not dec.	19.6		Da	ite Analyz	ed: (05/04/02		
GC Column:	DB-62	4 ID: 0.53 (mm)	Dii	ution Fac	ior:	1.0		
Soil Extract \	/olume:	(uL)		So	il Aliquot \	√olun	ne:		(uL)
Number TICs	s found:	0		NCENTRAT			·		
CAS NO.		COMPOUND NA	ME		RT	EST	Γ. CONC.		Q





1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- a-s-bottom

Lab Name:	STL Nev	vburah		Contract: 01012	.01		
Lab Code:	10142		e No.:	SAS No.:	s	DG No.: AN099	
∟ab oode. Matrix: (soil/v		SOIL		 Lab Samp	le ID:	211099-007	
Sample wt/vo		5.0	(g/ml) G	Lab File I) :	W7305.D	
<u>"</u> "		LOW	(3	— Date Rece	eived:	04/26/02	
Level: (low/r			-	Date Anal	yzed:	05/03/02	
% Moisture:		18.7	 53 (mm)	Dilution Fa		 :	
GC Column:		<u>:4</u> ID: <u>0.5</u>	 ' '	Soil Alique			(uL)
Soil Extract '	Volume:		(uL)	Ooli Aliqui	J. , J		• •

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	_	Q
	Dichlorodifluoromethane		1.2	UJL
75-71-8	Chloromethane		1.2	U
74-87-3			1.2	υ
74-83-9	Bromomethane		1.2	U
75-01-4	Vinyl Chloride		1.2	U
75-00-3	Chloroethane Trichlorofluoromethane		1.2	U
75-69-4			1.2	U
75-09-2	Methylene Chloride		1.2	U
75-35-4	1,1-Dichloroethene		1.2	U
75-34-4	1,1-Dichloroethane		1.2	Ū
590-20-7	2,2-Dichloropropane		1.2	Ü
156-60-5	trans-1,2-Dichloroethylene		1.2	Ū
540-59-0	cis-1,2-Dichloroethene		1.2	U
67-66-3	Chloroform		1.2	Ü
563-58-6	1,1-Dichloropropene		1.2	Ū
107-06-2	1,2-Dichloroethane		1.2	U
74-97-5	Bromochloromethane		1.2	U
71-55-6	1,1,1-Trichloroethane		1.2	Ü
56-23-5	Carbon Tetrachloride		1.2	- U
74-95-3	Dibromomethane		1.2	- U
75-27-4	Bromodichloromethane		1.2	-
78-87-5	1,2-Dichloropropane			Ū
10061-01-5	cis-1,3-Dichloropropene		1,2 1,2	Ü
79-01-6	Trichloroethene		1.2	Jq
71-43-2	Benzene		1.2	U
142-28-9	1,3-Dichloropropane		1.2	U
124-48-1	Dibromochloromethane		1.2	Ü
10061-02-6	trans-1,3-Dichloropropene		1.2	U
79-00-5	1,1,2-Trichloroethane		1.2	U
106-93-4	1,2-Dibromoethane			U
75-25-2	Bromoform		1.2	U
127-18-4	Tetrachloroethene		36	
630-20-6	1,1,1,2-Tetrachloroethane		1.2	U
108-88-3	Toluene		3.8	Jo
108-90-7	Chlorobenzene		1.2	U
100-41-4	Ethylbenzene		1.2	U
100-42-5	Styrene		1.2	U
108-38-3	m,p-Xyiene		0.8	Ja
95-47-6	o-Xylene		1.2	U
96-18-4	1,2,3-Trichloropropane		1.2	U

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5/28/02007

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE NO	•
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SITE 6 TCRA EX- 9-5- both

_ab Name:	STL Nev	wburgh		_ Contract: <u>01012.</u>		
Lab Code:	10142		ase No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/v		SOIL		Lab Sampl	le ID: 211099-007	
Sample wt/vo		5.0	 (g/ml) G	Lab File ID): W7305.D	
Sample www. Level: (low/r		LOW		 Date Rece	eived: 04/26/02	
≗evei. (lown % Moisture:		18.7		Date Analy	yzed: 05/03/02	
			 0.53 (mm)	Dilution Fa	actor: 1.0	
GC Column:		<u>.4</u> ,D.	(uL)	Soil Alique	ot Volume:	(uL)
Soil Extract \	volume:		(uL)			

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
	le enconvibonzon			1.2	U
98-82-8	Isopropylbenzen	<u> </u>		1.2	U
108-86-1	Bromobenzene			1.2	U
103-65-1	n-Propylbenzene			1.2	Ŭ
79-34-5	1,1,2,2-Tetrachle	oroethane			U
95-49-8	2-Chlorotoluene			1.2	
106-43-4	4-Chlorotoluene			1.2	<u>U</u>
108-67-8	1,3,5-Trimethylb	enzene		1.2	<u>U</u>
98-06-6		tert-Butylbenzene		1.2	U
95-63-6		1,2,4-Trimethylbenzene		1.2	U
135-98-8		sec-Butylbenzene		1.2	U
541-73-1		1,3-Dichlorobenzene		1.2	U
99-87-6	4-Isopropyltolue			1.2	U
106-46-7	1,4-Dichloroben			1.2	U
95-50-1	1,2-Dichloroben			1.2	U
104-51-8	n-Butylbenzene			1.2	U
96-12-8		1,2-Dibromo-3-chloropropane		1.2	U
87-68-3	Hexachlorobuta			1.2	U
120-82-1	1,2,4-Trichlorob			1.2	U.
91-20-3	Naphthalene			1.2	U
87-61-6	1,2,3-Trichlorob	enzene		1.2	<u> </u>



VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE	N0.

•			Contract	: 01012.0	1	EV-4-0-1	J () ()	- 1
Lab Name:	STL Ne	wburgh					1000	
Lab Code:	10142	Case No.:		lo.:		OG No.: At		
Matrix: (soil/	water)	SOIL	L	ab Sample	ID:	211099-00	7	
Sample wt/v		5.0 (g/ml) G	L	ab File ID:		W7305.D		
Level: (low/		LOW		ate Receiv	ed:	04/26/02		
% Moisture:	·		C	ate Analyz	ed:	05/03/02		
		24 ID: 0.53 (mm)	С	Oilution Fac	tor:	1.0		
Soil Extract Volume: (uL)			8	Soil Aliquot	Volur	ne:		(uL)
			CONCENTR	ATION UNI	ITS:			
Number TIC	s found:	. 1	(ug/L or ug/K	g) <u>UG</u>	/KG			
			 -		т		7	
CAS NO.		COMPOUND NAME		RT	ES	T. CONC.	(2
JAO 110.				= = = =	 			1





VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E.	NO.
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SITE 6 TCRA EX-	b-s-d (bott)
	om.

_ab Name:	STL Newburgh		Contract: 01012.01
_ab Code:	10142	Case No.:	SAS No.: SDG No.: AN099
Matrix: (soil/		SOIL	Lab Sample ID: 211099-008
Sample wt/v		5.0 (g/ml) G	Lab File ID: W7306.D
Level: (low/		LOW	Date Received: 04/26/02
% Moisture:			Date Analyzed: 05/03/02
			Dilution Factor: 1.0
GC Column: Soil Extract		(uL)	Soil Aliquot Volume:(u

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	
74-87-3	Chloromethane	1.2	
74-83-9	Bromomethane	1.2	
75-01-4	Vinyl Chloride	1.2	
75-00-3	Chloroethane	1.2	
	Trichlorofluoromethane	1,2	
75-69-4 75-09-2	Methylene Chloride	1.2	. U
75-09-2	1,1-Dichloroethene	1.2	
	1,1-Dichloroethane	1.2	. U
75-34-4	2,2-Dichloropropane	1.2	2 U
590-20-7	trans-1,2-Dichloroethylene	1.2	2 U
156-60-5	cis-1,2-Dichloroethene	5.8	
540-59-0	Chloroform	1.2	
67-66-3	1,1-Dichloropropene	1.3	
563-58-6		1.2	
107-06-2	1,2-Dichloroethane	1.3	
74-97-5	Bromochloromethane	1.3	
71-55-6	1,1,1-Trichloroethane	1.3	
56-23-5	Carbon Tetrachloride	1.3	
74-95-3	Dibromomethane	1.3	
75-27-4	Bromodichloromethane	1.	
78-87-5	1,2-Dichloropropane	1.	
10061-01-5	cis-1,3-Dichloropropene	8.	
79-01-6	Trichloroethene	1.	
71-43-2	Benzene	1.	
142-28-9	1,3-Dichloropropane Dibromochloromethane	1.	
124-48-1	trans-1,3-Dichloropropene	1.	
10061-02-6	1,1,2-Trichloroethane	1.	
79-00-5	1,2-Trichloroethane	1.	
106-93-4		1.	
75-25-2	Bromoform		.2 U
127-18-4	Tetrachloroethene		.2 U
630-20-6	1,1,1,2-Tetrachloroethane		.6 Jo
108-88-3	Toluene		.2 U
108-90-7	Chlorobenzene		.2 U
100-41-4	Ethylbenzene		.2 U
100-42-5	Styrene		.2 U
108-38-3	m,p-Xylene		.2 U
95-47-6	o-Xylene		.2 U
96-18-4	1,2,3-Trichloropropane		.2 1 0



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3/90 M-NY049 STL Newburgh 315 Fullerton Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- B-S-O (BOTT)

Lab Name:	STL Nev	STL Newburgh		Contract: 01012.01		
Lab Code:	10142	Cas	se No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/\	water)	SOIL		Lab Sample	D: 211099-008	_
Sample wt/ve		5.0	- (g/ml) G	Lab File ID:	W7306.D	
Level: (low/r		LOW		Date Receiv	ved: 04/26/02	
% Moisture:	•	16.1	-	Date Analyz	zed: <u>05/03/02</u>	
GC Column:		4 ID: 0.5	53 (mm)	Dilution Fac	otor: 1.0	
Soil Extract			(uL)	Soil Aliquot	Volume: ((uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.2	U
108-86-1	Bromobenzene	1.2	U
103-65-1	n-Propylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
95-49-8	2-Chlorotoluene	1.2	U
106-43-4	4-Chlorotoluene	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.2	U
98-06-6	tert-Butylbenzene	1.2	U
95-63-6	1,2,4-Trimethylbenzene	1.2	U
135-98-8	sec-Butylbenzene	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
99-87-6	4-Isopropyltoluene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
87-68-3	Hexachlorobutadiene	1.2	U_
120-82-1	1,2,4-Trichlorobenzene	1.2	U
91-20-3	Naphthalene	2.3	Jo
87-61-6	1,2,3-Trichlorobenzene	1.2	<u> </u>





M-NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

Lab Name:	STL Nev	wburgh	Contract: 01012.01	
Lab Code:	10142	Case No.:	SAS No.: S	DG No.: AN099
Matrix: (soil/	vater)	SOIL	Lab Sample ID:	211099-008
Sample wt/ve		5.0 (g/ml) G	Lab File ID:	W7306.D
Level: (low/r		LOW	Date Received:	04/26/02
% Moisture:	-	16.1	Date Analyzed:	05/03/02
GC Column:			Dilution Factor:	1.0
Soil Extract		(uL)	Soil Aliquot Vol	ume: (ul
			CONCENTRATION UNITS	;
Number TIC	s found:	16	(ug/L or ug/Kg) UG/KG	<u> </u>

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	C11H24 isomer	24.62	42	J∓
	C5H13BO isomer	24.71	34	Jŗ
3.	Unknown CnH2n+2	24.81	53	J _T
4.	C11H24 isomer	25.02	53	J_T
5.	C10H18 isomer	25.32	37	JT
6.	Unknown CnH2n+2	25.81	160	Jr
7.	Unknown CnH2n+2O	26.15	53	Jт
8.	Unknown CnH2n+2	26.30	67	Jr
9.	Unknown CnH2n+2	26.61	37	Jī
10.	C11H22 isomer	27.20	76	Jт
11. 527-53-7	1,2,4,5-Tetramethylbenzene	27.30	14	
12.	Unknown CnH2n+2	27.43	70	Jī
13.	Unknown CnH2n+2	27.55	68	Jτ
14.	C12H26 isomer	27.75	62	J۳
15.	Unknown CnH2n+2	28.49	64	J٢
	Unknown CnH2n+2	28.86	47	Jτ





1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Soil Extract Volume: _____ (uL)

EPA SAMPLE NO.

SITE 6 TCRA EX-	B-N-sidewall
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_ab Name:	STL Nev	vhurah	Contract: 01012.01	0.12
Lab Code:	10142	Case No.:	SAS No.: SE	OG No.: AN099
Lab Code. Matrix: (soil/v		SOIL	Lab Sample ID:	211099-009
Sample wt/vo		5.0 (g/ml) G	Lab File ID:	W7307.D
Level: (low/r		LOW	Date Received:	04/26/02
∟evei. (lown % Moisture: ι		10.3	Date Analyzed:	05/04/02
GC Column:			Dilution Factor:	1.0
Soil Extract \		(uL)	Soil Aliquot Volu	me: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75.74.0	Dichlorodifluoromethane	1.1	UJL
75-71-8	Chloromethane	1.1	U
74-87-3	Bromomethane	1.1	U
74-83-9	Vinyl Chloride	1.1	U
75-01-4	Chloroethane	1.1	U
75-00-3	Trichlorofluoromethane	1.1	U
75-69-4	Methylene Chloride	1.1	υ
75-09-2	1,1-Dichloroethene	1.1	U
75-35-4	1,1-Dichloroethane	1.1	U
75-34-4	2,2-Dichloropropane	1.1	U
590-20-7		1.1	U
156-60-5	trans-1,2-Dichloroethylene	1.1	U
540-59-0	cis-1,2-Dichloroethene	1.1	Ū
67-66-3	Chloroform	1.1	Ū
563-58-6	1,1-Dichloropropene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	Ü
74-97-5	Bromochloromethane	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon Tetrachloride	1.1	$\frac{1}{0}$
74-95-3	Dibromomethane	1.1	 U
75-27-4	Bromodichloromethane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	 0
10061-01-5	cis-1,3-Dichloropropene	1.1	U U
79-01-6	Trichloroethene	1.1	U
71-43-2	Benzene	1.1	U
142-28-9	1,3-Dichloropropane		U
124-48-1	Dibromochloromethane	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U
106-93-4	1,2-Dibromoethane	1,1	U
75-25-2	Bromoform	1.1	
127-18-4	Tetrachloroethene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	. 1.1	U
108-88-3	Toluene	1.2	Jo
108-90-7	Chlorobenzene	1.1	U U
100-41-4	Ethylbenzene	1.1	U
100-42-5	Styrene	1.1	U
108-38-3	m,p-Xylene	1.1	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	E NO.
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SITE 6 TCRA EX-	ť

B-N-S

Lab Name:	STL Nev	vburgh		Contract:	01012.01	_	
Lab Code:	10142	Case	No.:	SAS No).: §	SDG No.: <u>AN099</u>	
Matrix: (soil/v	vater)	SOIL		Lai	b Sample ID:	211099-009	
Sample wt/vo	•	5.0 (9	g/ml) G	Lai	b File ID:	W7307.D	
Level: (low/n		LOW	- <u> </u>	Da	te Received:	04/26/02	
% Moisture: ı	-	10.3		Da	ite Analyzed:	05/04/02	
GC Column:			 (mm)	Dil	ution Factor:	1.0	
Soil Extract \			_ (uL)	So	ii Aliquot Vol	ume:	(uL)
~~; ~~; ~~ .			` '				

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.1	U
108-86-1	Bromobenzene	1.1	U
103-65-1	n-Propylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
95-49-8	2-Chlorotoluene	1.1	U
106-43-4	4-Chlorotoluene	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	1.1	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	Ų
99-87-6	4-Isopropyltoluene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
104-51-8	n-Butylbenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
87-68-3	Hexachlorobutadiene	1.1	U
120-82-1	1,2,4-Trichlorobenzene	1.1	U
91-20-3	Naphthalene	1.1	U
87-61-6	1,2,3-Trichlorobenzene	1.1	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1 als Massas	STL Nev	whitah	Contract	01012.0	1		
Lab Name:		Case No.:	SAS N		SDG No.: ANO	99	
	10142	SOIL		ab Sample	ID: 211099-009		
Matrix: (soil/		5.0 (g/ml) G	•	ab File ID:	W7307.D		
Sample wt/v		LOW		ate Receiv	ed: 04/26/02		
Level: (low/ % Moisture:			ם	ate Analyz	ed: 05/04/02	· 	
		24 ID: <u>0.53</u> (mm)		ilution Fac	tor: 1.0		
Soil Extract			S	Soil Aliquot	Volume:	(uL)	
			CONCENTR				
Number TIC	s found:	1	(ug/L or ug/K	.g) <u>UG</u> ,		1	1
CAS NO.		COMPOUND NAME	ţ	RT	EST. CONC.	Q	
	71-23-8	1-Propagol		8.51	-30	-JN-	J Rm





VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	NO.
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CITE 6 TORA FX-	B-E-sidewall
SILE DICKA EX-	U C

Lab Name: S	TL Newburg	h	_ Contract: 01012.01		
	0142	Case No.:	SAS No.:S	DG No.: AN099	
Matrix: (soil/wat			Lab Sample ID:	211099-010	
Sample wt/vol:	5.0	 (g/ml) G	Lab File ID:	W7308.D	
Level: (low/me			Date Received:	04/26/02	
% Moisture: not		·	Date Analyzed:	05/04/02	
		D: 0.53 (mm)	Dilution Factor:	1.0	
Soil Extract Vol		(uL)	Soil Aliquot Vol	ume: (uL)

CONCENTRATION UNITS:

	CONCENTRATION	311 011110.		•
AS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
75 74 0	Dichlorodifluoromethane		1.2	UJL
75-71-8	Chloromethane		1.2	U
74-87-3	Bromomethane		1.2	U
74-83-9	Vinyl Chloride		1.2	Ü
75-01-4	Chloroethane		1.2	U
75-00-3	Trichlorofluoromethane		1.2	U
75-69-4	Methylene Chloride		1.2	U
75-09-2	1.1-Dichloroethene		1.2	U
75-35-4	1,1-Dichloroethane		1.2	Ü
75-34-4			1.2	U
<u>590-20-7</u>	2,2-Dichloropropane		1.2	U
156-60-5	trans-1,2-Dichloroethylene		4.9	Je
540-59-0	cis-1,2-Dichloroethene		1.2	U
67-66-3	Chloroform		1.2	Ū
563-58-6	1,1-Dichloropropene		1.2	U
107-06-2	1,2-Dichloroethane		1.2	U
74-97-5	Bromochloromethane		1.2	Ü
71-55-6	1,1,1-Trichloroethane		1.2	- U
56-23-5	Carbon Tetrachloride		1.2	<u>U</u>
74-95-3	Dibromomethane		1.2	U
75-27-4	Bromodichloromethane			U
78-87-5	1,2-Dichloropropane		1.2	U
10061-01-5	cis-1,3-Dichloropropene		1.2	Ja, J
79-01-6	Trichloroethene		5.6	
71-43-2	Benzene		1,1	Jo U
142-28-9	1,3-Dichloropropane		1.2	U
124-48-1	Dibromochloromethane		1.2	Ü
10061-02-6	trans-1,3-Dichloropropene		1.2 1.2	Ü
79-00-5	1,1,2-Trichioroethane		1.2	Ü
106-93-4	1,2-Dibromoethane			U
75-25-2	Bromoform		1.2	
127-18-4	Tetrachloroethene		0.8	Jø
630-20-6	1,1,1,2-Tetrachloroethane		1.2	U
108-88-3	Toluene		3.4	Jo,
108-90-7	Chlorobenzene		1.2	U
100-41-4	Ethylbenzene		1.2	U
100-42-5	Styrene		1.2	U
108-38-3	m,p-Xylene		1.2	U
95-47-6	o-Xylene		1.2	U
96-18-4	1,2,3-Trichloropropane		1.2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- B-2-SIDO

Lab Name: S'	TL Newburgh	1	Contract:	01012.01	_	
	0142	Case No.:	_ SAS No	o: S	DG No.: AN099	
Matrix: (soil/wat	ter) SOIL		La	b Sample ID:	211099-010	
Sample wt/vol:	5.0	(g/mi) G	La	b File ID:	W7308.D	
Level: (low/me	d) LOW		Da	ite Received:	04/26/02	
% Moisture: not	t dec. 15		Da	ite Analyzed:	05/04/02	-
GC Column:	DB-624 ID	: <u>0.53</u> (mm)	Di	lution Factor:	1.0	
Soil Extract Vol	ume:	(uL)	So	il Aliquot Volu	ime:	. (ul
		· C		TION UNITS:		

	*	0011041111			
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
98-82-8	Isopropylbenze	 ne		1.2	U
108-86-1	Bromobenzene	•		1.2	U
103-65-1	n-Propylbenzen			1.2	U
79-34-5	1,1,2,2-Tetrach			1.2	U
95-49-8	2-Chlorotoluene			1.2	U
106-43-4	4-Chlorotoluene			1.2	U
108-67-8	1,3,5-Trimethyl			1.2	U
98-06-6	tert-Butylbenze	-		1.2	U
95-63-6	1,2,4-Trimethyl			1.2	U
135-98-8	sec-Butylbenze			1.2	U
541-73-1	1,3-Dichlorober			1.2	U_
99-87-6	4-Isopropyltolue			2.3	ď
106-46-7	1,4-Dichlorober			1.2	U
95-50-1	1,2-Dichlorober	nzene		1.2	U
104-51-8	n-Butylbenzene			1.2	U
96-12-8	1,2-Dibromo-3-	chloropropane		1.2	U
87-68-3	Hexachlorobuta	adiene		1.2	U
120-82-1	1,2,4-Trichlorol	oenzene		1.2	<u> UJ</u> w
91-20-3	Naphthalene			<u>2.5</u>	Ja
87-61-6	1,2,3-Trichlorol	penzene		1.2	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-E-Side

_ab Name: STL N	lewburgh	Contract: 01012.01	_
_ab Code: 10142	Case No.:	SAS No.: S	DG No.: AN099
Matrix: (soil/water)	SOIL	Lab Sample ID:	211099-010
Sample wt/vol:	5.0 (g/ml) G	Lab File ID:	W7308.D
Level: (low/med)	LOW	Date Received:	04/26/02
% Moisture: not dec		Date Analyzed:	05/04/02
GC Column: DB-	<u> </u>	Dilution Factor:	1.0
Soil Extract Volume		Soil Aliquot Volu	ıme: (uL
Number TICs found	ı: 16	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
Manager 1108 loans	·		

			_	
CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown CnH2n+2	22.91	39	<u>J.</u>
2.	Unknown CnH2n+2	24.62	33	Jī
3.	Unknown CnH2n+2	24.81	44	J۳
4.	C11H24 isomer	25.02	48	J_T
5.	C10H18 isomer	25.32	44	JT
6.	C11H24 isomer	25.81	220	Jr
7.	Unknown CnH2n	26.14	75	J ₇
8.	Unknown CnH2n+2	26.30	81	Jτ
9.	Unknown CnH2n+2	26.61	56	Jr
10.	C11H22 isomer	27.20	90	Jr
11. 527-53-7	1,2,4,5-Tetramethylbenzene	27.28	43	
12.	C10H14 isomer	27.43	94	Jr
13.	Unknown CnH2n+2	27.54	84	J_{T}
14.	Unknown CnH2n+2	27.75	73	J_T
15.	Unknown CnH2n+2	28.49	140	Jг
16.	Unknown CnH2n+2O	28.86	57	Jr



Jan 18

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
SITE 6 TORA EX-	la-s-sideual

I -6 Nomes	STL Nev	whiteah	Contract: 01012.01		┙
		Case No.:	SAS No.:	SDG No.: AN099	_
Lab Code:	10142			D: 211099-011	
Matrix: (soil/w	vater)	SOIL	-	 :	_
Sample wt/vo	ol:	5.0 (g/ml) G	Lab File ID:	W7309.D	
Levei: (low/n		LOW	Date Receive	d: 04/26/02	
% Moisture: r		19	Date Analyze	d: <u>05/04/02</u>	
GC Column:			Dilution Facto	or: 1.0	
Soil Extract V		(uL)	Soil Aliquot V	olume: (uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
	Dichlorodifluoromethane		1.2	UJL
75-71-8	Chloromethane		1.2	U
74-87-3	Bromomethane		1.2	Ū
74-83-9			1.2	U
75-01-4	Vinyl Chloride		1.2	U
75-00-3	Chloroethane		1.2	U
75-69-4	Trichlorofluoromethane		1.2	U
75-09-2	Methylene Chloride		1.2	U
75-35-4	1,1-Dichloroethene		1.2	Ü
75-34-4	1,1-Dichloroethane		1.2	Ū
590-20-7	2,2-Dichloropropane		1.2	U
156-60-5	trans-1,2-Dichloroethylene		1.2	Ū
540-59-0	cis-1,2-Dichloroethene		1.2	Ū
67-66-3	Chloroform		1.2	Ū
563-58-6	1,1-Dichloropropene		1.2	U
107-06-2	1,2-Dichloroethane		1.2	Ü
74-97-5	Bromochloromethane		1.2	- Ŭ
71-55-6	1,1,1-Trichloroethane		1.2	- U
56-23-5	Carbon Tetrachloride		1.2	- Ŭ -
74-95-3	Dibromomethane		1.2	Ü
75-27-4	Bromodichloromethane		1.2	U
78-87-5	1,2-Dichloropropane		1.2	U U
10061-01-5	cis-1,3-Dichloropropene		1.2	Ü
79-01-6	Trichloroethene		1.2	- U
71-43-2	Benzene		1.2	Ū
142-28-9	1,3-Dichloropropane		1.2	U
124-48-1	Dibromochloromethane		1.2	U
10061-02-6	trans-1,3-Dichloropropene		1.2	Ü
79-00-5	1,1,2-Trichloroethane		1.2	U
106-93-4	1,2-Dibromoethane		1.2	Ü
75-25-2	Bromoform		1.2	Ü
127-18-4	Tetrachloroethene		1.2	U
630-20-6	1,1,1,2-Tetrachloroethane		1.2	U
108-88-3	Toluene		1.2	U
108-90-7	Chlorobenzene		1.2	Ü
100-41-4	Ethylbenzene		1.2	U
100-42-5	Styrene		1.2	l U
108-38-3	m,p-Xylene		1.2	U
95-47-6	o-Xylene			1 0
96-18-4	1,2,3-Trichloropropane		1.2	1 0

Jan 1/1/2



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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SITE 6 TCRA EX-	A-5-510
SITE 6 TCRA EX-	D-2-210

Lab Name:	STL Nev	vburgh		_ Contract: 01012.0	
Lab Code:	10142	Cas	se No.:	SAS No.:	_ SDG No.: AN099
Matrix: (soil/w	/ater)	SOIL		Lab Sample	ID: 211099-011
Sample wt/vo		5.0	(g/ml) G	Lab File ID:	W7309.D
Level: (low/m		LOW		Date Receiv	ed: 04/26/02
% Moisture: r		19	-	Date Analyz	ed: 05/04/02
GC Column:	DB-62			Dilution Fact	tor: 1.0
Soil Extract V			_ (uL)	Soil Aliquot	Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	, Q
00.00.0	Isopropylbenzene	1.2	U
98-82-8	Bromobenzene	1.2	U
108-86-1		1.2	U
103-65-1	n-Propylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	Ū
95-49-8	2-Chlorotoluene	1.2	Ū
106-43-4	4-Chiorotoluene		U
108-67-8	1,3,5-Trimethylbenzene	1.2	U
98-06-6	tert-Butylbenzene	1.2	
95-63-6	1,2,4-Trimethylbenzene	1.2	U
135-98-8	sec-Butylbenzene	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
99-87-6	4-Isopropyltoluene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	<u> </u>
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
87-68-3	Hexachlorobutadiene	1.2	U
120-82-1	1,2,4-Trichlorobenzene	1.2	U
91-20-3	Naphthalene	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	STL Nev	wburgh	Contract	: <u>01012.01</u>	<u> </u>	
Lab Code:	10142	Case No.:	SAS N	ło.:	_ SDG No.: ANOS	9
Matrix: (soil/	water)	SOIL	L	.ab Sample	ID: <u>211099-011</u>	
Sample wt/ve	ol:	5.0 (g/ml) <u>G</u>		.ab File ID:	W7309.D	
Level: (low/o		LOW	1	Date Receive	ed: 04/26/02	
% Moisture:	-	19		Date Analyze	ed: 05/04/02	_
GC Column:		24 ID: 0.53 (mm)	ŧ	Dilution Fact	or: <u>1.0</u>	
Soil Extract	Volume:	(uL)	5	Soil Aliquot \	Volume:	_ (uL)
Number TIC	s found:	0	CONCENTR (ug/L or ug/K			
CAS NO.		COMPOUND NAME		RT	EST. CONC.	Q





1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- B-5- BOTTOM

Lab Name:	STL Nev	whurdh	Contract: 01012.01	0.12
Lab Name. Lab Code:	10142	Case No.:	SAS No.: SE	OG No.: AN099
Matrix: (soil/		SOIL	Lab Sample ID:	211099-012
Sample wt/v	-	5.0 (g/ml) G	Lab File ID:	W7310.D
Level: (low/s		LOW	Date Received:	04/26/02
% Moisture:		16.5	Date Analyzed:	05/04/02
GC Column:		24 ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract	Volume:	(uL)	Soil Aliquot Volu	me: (ul

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	UJL
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01-4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34-4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	20	Jf
67-66-3	Chloroform	1.2	U
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U_
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	30	JF
71-43-2	Benzene	1.2	Jo
142-28-9	1,3-Dichloropropane	1,2	U
124-48-1	Dibromochloromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1,2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-42-5	Styrene	1.2	U
108-38-3	m,p-Xylene	1.2	U
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U_



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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:	STL Nev	vburgh		Contract: 010	12.01		
Lab Code:	10142	Case	No.:	SAS No.:	SI	DG No.: AN099	
Matrix: (soil/v	vater)	SOIL		Lab Sar	mple ID:	211099-012	
Sample wt/vo			g/ml) G	Lab File	D:	W7310.D	
Level: (low/r		LOW		Date Re	eceived:	04/26/02	
% Moisture:		16.5		Date Ar	nalyzed:	05/04/02	
GC Column:			 (mm)	Dilution	Factor:	1.0	
Soil Extract \			(·····) (uL)	Soil Alic	quot Volu	me:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG		Q
00 00 0	Isopropylbenzene		1.2	Ü
98-82-8	Bromobenzene		1.2	υ
108-86-1			1.2	U
103-65-1	n-Propylbenzene		1.2	Ū
79-34-5	1,1,2,2-Tetrachloroethane		1.2	U
95-49-8	2-Chlorotoluene		1.2	- ŭ
106-43-4	4-Chiorotoluene		1.2	Ü
108-67-8	1,3,5-Trimethylbenzene			U
98-06-6	tert-Butylbenzene		1.2	
95-63-6	1,2,4-Trimethylbenzene		1.2	<u>U</u>
135-98-8	sec-Butylbenzene		1.2	U
541-73-1	1,3-Dichlorobenzene		1.2	U_
99-87-6	4-Isopropyltoluene		1.2	U
106-46-7	1,4-Dichlorobenzene		1.2	U
95-50-1	1,2-Dichlorobenzene		1.2	U
104-51-8	n-Butylbenzene		1.2	U
96-12-8	1,2-Dibromo-3-chloropropane		1.2	U
87-68-3	Hexachlorobutadiene		1.2	U
120-82-1	1,2,4-Trichlorobenzene		1.2	U
91-20-3	Naphthalene		1.2	<u>u</u>
87-61-6	1,2,3-Trichlorobenzene	L	1.2	U





VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO	•
EX-B-S-B	

Lab Name:	STL Nev	wburgh	Contract	: <u>01012.0</u>	1	
Lab Code:	10142	Case No.:	SAS	۷o.:	SDG No.: ANO	99
Matrix: (soil/v	vater)	SOIL	L	.ab Sample	ID: <u>211099-012</u>	
Sample wt/vo	ol:	5.0 (g/ml) G		ab File ID:	W7310.D	
Level: (low/n	ned)	LOW	Ε	Date Receiv	red: 04/26/02	
% Moisture:	not dec.	16.5	ו	Date Analyz	red: 05/04/02	
GC Column:	DB-62	4 ID: 0.53 (mm)	[Dilution Fac	tor: <u>1.0</u>	
Soil Extract \	/olume:	. (uL)	8	Soil Aliquot	Volume:	(uL)
			CONCENTR (ug/L or ug/K		ITS: /KG	
Number TICs	s found:	0	(ug/L or ug/r	.g) <u></u>		
CAS NO.		COMPOUND NAME		RT	EST. CONC.	Q

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	ENO.
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SITE 6 TCRA EX-	B-w-side wal
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Lab Name:	STL Ne	wburgh	Contract: 01012.01	_	
Lab Code:	10142	Case No.:	SAS No.: S	DG No.: AN099	
Matrix: (soil/\	water)	SOIL	Lab Sample ID:	211099-013	
Sample wt/ve	ol:	5.0 (g/ml) G	Lab File ID:	W7311.D	
Level: (low/r		LOW	Date Received:	04/26/02	
% Moisture:	•	19.2	Date Analyzed:	05/04/02	
GC Column:			Dilution Factor:	1.0	
Soil Extract \		(uL)	Soil Aliquot Volu	ıme:	(uL)

CONCENTRATION UNITS:

	COMPOUND: (ug/L or ug/Kg)		Q
CAS NO.	COMPOUND (ug/L or ug/Kg)	00/10	
75-71-8	Dichlorodifluoromethane	1.2	UJL
74-87-3	Chloromethane	1.2	U
74-83-9	Bromomethane	1.2	U
75-01 - 4	Vinyl Chloride	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-09-2	Methylene Chloride	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
75-34 - 4	1,1-Dichloroethane	1.2	U
590-20-7	2,2-Dichloropropane	1.2	U
156-60-5	trans-1,2-Dichloroethylene	1.2	U
540-59-0	cis-1,2-Dichloroethene	1.2	U
67-66-3	Chloroform	1.2	U
563-58-6	1,1-Dichloropropene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
74-97-5	Bromochloromethane	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
56-23-5	Carbon Tetrachloride	1.2	U
74-95-3	Dibromomethane	1.2	U
75-27-4	Bromodichloromethane	1.2	υ
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	Ū
79-01-6	Trichloroethene	1.2	Ū
71-43-2	Benzene	1.2	Ū
142-28-9	1,3-Dichloropropane	1.2	U
124-48-1	Dibromochloromethane	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
75-25-2	Bromoform	1.2	U
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
100-41-4	Styrene	1.2	Ū
108-38-3	m,p-Xylene	1.2	U
	o-Xylene	1.2	Ŭ
95-47-6		1.2	U
96-18-4	1,2,3-Trichloropropane		



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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
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SITE 6 TCRA EX-	8-w-510

ab Name:	STL Nev	wburgh		Contract: 01012.01		j
_ab Code:	10142	Cas	e No.:	SAS No.: S	DG No.: AN099	
vlatrix: (soil/v		SOIL		Lab Sample ID:	211099-013	
Sample wt/vo		5.0	(g/ml) G	Lab File ID:	W7311.D	
· ·		LOW	(8.74.7)	Date Received:	04/26/02	
Level: (low/r				Date Analyzed:	05/04/02	
% Moisture:				Dilution Factor:		
GC Column:	DB-62	10: 0.5				L)
Soil Extract \	Volume:		_ (uL)	Soil Aliquot Volu	AILIE	-,

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
98-82-8	Isopropylbenzene	1.2	U
	Bromobenzene	1.2	U
108-86-1	n-Propylbenzene	1.2	U
103-65-1	1,1,2,2-Tetrachloroethane	1.2	U
79-34-5		1.2	U
95-49-8	2-Chlorotoluene	1.2	U
106-43-4	4-Chlorotoluene	1.2	Ü
108-67-8	1,3,5-Trimethylbenzene	1.2	Ü
98-06-6	tert-Butylbenzene		T U
95-63-6	1,2,4-Trimethylbenzene	1.2	 U
135-98-8	sec-Butylbenzene	1.2	
541-73-1	1,3-Dichlorobenzene	1.2	<u> U</u>
99-87-6	4-Isopropyltoluene	1.2	<u> </u>
106-46-7	1,4-Dichlorobenzene	1.2	U U
95-50-1	1,2-Dichlorobenzene	1.2	U
104-51-8	n-Butylbenzene	1.2	U
	1,2-Dibromo-3-chloropropane	1.2	U
96-12-8		1.2	U
87-68-3	Hexachlorobutadiene	1.2	T U
120-82-1	1,2,4-Trichlorobenzene	1.2	 ŭ
91-20-3	Naphthalene		$\frac{1}{U}$
87-61-6	1,2,3-Trichlorobenzene	1.2	



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-W-side

Lab Name:	STL Nev	wburgh		Contract:	: <u>01012.0</u> °	1	
Lab Code:	10142	Ca	ase No.:	SAS N	lo.:	_ SDG No.: ANO	99
Matrix: (soil/v	vater)	SOIL	-	L	ab Sample	ID: 211099-013	
Sample wt/ve		5.0	 (g/ml) G	L	ab File ID:	W7311.D	
Level: (low/r		LOW			ate Receiv	ed: 04/26/02	
% Moisture:	-	19.2	_	. [ate Analyz	ed: 05/04/02	
Ϋ.		4 ID: 0	.53 (mm)		ilution Fact		
GC Column: Soil Extract \		<u></u> ib. <u>o</u>	(uL)		Soil Aliquot		(uL)
Number TIC	s found:	0		CONCENTRA (ug/L or ug/K		•	
CAS NO.		СОМРО	OUND NAME		RT	EST. CONC.	Q





EPA NY049

- 1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
OTE S TOPA EX-	C-0-batta

Lab Name:	STL Nev	STL Newburgh		Contract: 01012.01	SILEOTORALA	2 2017
Lab Code:	10142		se No.:		DG No.: AN099	
Matrix: (soil/v	vater)	SOIL	-	Lab Sample ID:	· ·	
Sample wt/vo	ol:	5.0	(g/ml) G	Lab File ID:	W7314.D	
Level: (low/n	ned)	LOW	_	Date Received:		
% Moisture:	not dec.	11.8		Date Analyzed:	05/04/02	
GC Column:		4 ID: 0.	53_ (mm)	Dilution Factor:	1.0	
Soil Extract \			(uL)	Soil Aliquot Volu	ume: (uL)	

CONCENTRATION UNITS:

AS NO.	COMPOUND (ug/L or ug/Kg)		Q
		 1.1	UJL
75-71-8	Dichlorodifluoromethane	 1.1	U
74-87-3	Chloromethane	 1.1	U
74-83-9	Bromomethane	 1.1	Ü
75-01-4	Vinyl Chloride	 1.1	- U
75-00-3	Chloroethane	 1.1	U
75-69-4	Trichlorofluoromethane	 1.1	U
75-09-2	Methylene Chloride	 1.1	U
75-35-4	1,1-Dichloroethene	 1.1	U
75-34-4	1,1-Dichloroethane	 1.1	Ü
590-20-7	2,2-Dichloropropane	 1.1	U U
156-60-5	trans-1,2-Dichloroethylene	 5.8	
540-59-0	cis-1,2-Dichloroethene	 1.1	U
67-66-3	Chloroform	 	U
563-58-6	1,1-Dichloropropene	 1.1	U
107-06-2	1,2-Dichloroethane	 1.1	- U
74-97-5	Bromochioromethane	 1.1	
71-55-6	1,1,1-Trichloroethane	 1.1	U
56-23-5	Carbon Tetrachloride	 1.1	<u> </u>
74-95-3	Dibromomethane	 1.1	U
75-27-4	Bromodichloromethane	 1.1	U_
78-87-5	1,2-Dichloropropane	 1.1	U
10061-01-5	cis-1,3-Dichloropropene	 1.1	U_
79-01-6	Trichloroethene	 20	
71-43-2	Benzene	 4.9	_Jo_
142-28-9	1,3-Dichloropropane	 1.1	U
124-48-1	Dibromochloromethane	 1.1	U
10061-02-6	trans-1,3-Dichloropropene	 1.1	U
79-00-5	1,1,2-Trichloroethane	 1.1	U
106-93-4	1,2-Dibromoethane	 1.1	
75-25-2	Bromoform	 1.1	U
127-18-4	Tetrachloroethene	 1.1	
630-20-6	1,1,1,2-Tetrachloroethane	 1.1	U
108-88-3	Toluene	 1.1	UJ
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	 1.1	U
100-42-5	Styrene	1.1	U
108-38-3	m,p-Xylene	 1.1	U
95-47-6	o-Xylene	 1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U



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STL Newburgh 315 Fullenton Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMP	LE	NO.
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	1
SITE 6 TCRA EX	(- c-e-bot

_ab Name: STL	Newburgh		_ Contract: 01012.01	_	i
ab Code: 101		case No.:	SAS No.: S	DG No.: AN099	
Matrix: (soil/water			Lab Sample ID:	211099-014	
•	5.0	 (g/ml) G	Lab File ID:	W7314.D	
Sample wt/vol:		(9////	— Date Received:	04/26/02	
Level: (low/med)			Date Analyzed:	-	
% Moisture: not d			Dilution Factor:	 ·	
GC Column: D	B-624 ID:	0.53 (mm)			L)
Soil Extract Volur	ne:	(uL)	Soil Aliquot Volu	JINE	-,

CONCENTRATION UNITS:

		CONTOCKTO			_
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG		Q
	In a many thom 701			1.1	U
98-82-8	Isopropylbenzei			1.1	U
108-86-1	Bromobenzene			1.1	U
103-65-1	n-Propylbenzen	16		1.1	Ū
79-34-5	1,1,2,2-Tetrach			1.1	- Ü
95-49-8	2-Chlorotoluene			1.1	U
106-43-4	4-Chlorotoluene			1.1	Ū
108-67-8	1,3,5-Trimethyl	benzene			- U
98-06-6	tert-Butylbenze	ne		1.1	- U
95-63-6	1,2,4-Trimethyl	benzene		1.1	U
135-98-8	sec-Butylbenze	ene		1.1	
541-73-1	1,3-Dichlorober			1.1	U
99-87-6	4-Isopropyltolu			1.1	U
106-46-7	1,4-Dichlorobe			1.1	U
95-50-1	1,2-Dichlorobe			1.1	U
104-51-8	n-Butylbenzene			1.1	U
96-12-8		-chloropropane		1.1	U
87-68-3	Hexachlorobut			1.1	U
120-82-1	1,2,4-Trichloro			1.1	U
91-20-3	Naphthalene			1.1	<u> </u>
87-61-6	1.2.3-Trichloro	benzene		1.1	U





EPA NY049

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPL	E NO.
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EX-C-E-Both

Lab Name:	STL Nev	wburgh	Contract	01012.0	1	
Lab Code:	10142	Case No.:	SAS	lo.:	_ SDG No.: ANO	99
Matrix: (soil/w		SOIL	L	ab Sample	ID: 211099-014	 _
Sample wt/vo		5.0 (g/ml) G	L	ab File ID:	W7314.D	
Level: (low/m		LOW		ate Receiv	red: 04/26/02	
% Moisture: n	-	11.8	C	ate Analyz	red: 05/04/02	
GC Column:	DB-62	24 ID: 0.53 (mm)	C	Dilution Fac	tor: <u>1.0</u>	
Soil Extract V		(uL)	8	Soil Aliquot	Volume:	(uL)
			CONCENTR	ATION UN	ITS:	
Number TICs	found:	2	(ug/L or ug/K	g) <u>UG</u>	/KG	
CAS NO		COMPOUND NAME		RT	EST. CONC.	Q

8.54

15.81

100 / Jon



1-Propanol

C7H8 isomer

000071-23-8

EPA NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMP	LE NO	•
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SITE 6 TB-042402

Lab Name:	STL Newburgh			_ Contract: 01	1012.01)1	
Lab Code:	10142	Cas	se No.:	_ SAS No.:	SI	DG No.: AN099	
Matrix: (soil/	water)	WATER	_	Lab S	ample ID:	211099-024	
Sample wt/v	ol:	5.0	(g/ml) ML	_ Lab Fi	ile ID:	W7290.D	
Level: (low/r		LOW		Date I	Received:	04/26/02	
% Moisture:	not dec.			Date /	Analyzed:	05/03/02	
GC Column:	DB-62	24 ID: 0.5	53 (mm)	Dilutio	on Factor:	1.0	
Soil Extract	Volume:		(uL)	Soil A	liquot Volu	ime:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chioromethane	1	U
74-83-9	Bromomethane	1111	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	UU
75-09-2	Methylene Chloride	111	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	trans-1,2-Dichloroethylene	1	U_
540-59-0	cis-1,2-Dichloroethene	1	<u>U</u>
67-66-3	Chloroform	111	U
563-58-6	1,1-Dichloropropene	1	U
107-06-2	1,2-Dichloroethane	1	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U_
78-87-5	1,2-Dichloropropane	1	Ü
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	11	U_U
71-43-2	Benzene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	11	U
106-93-4	1,2-Dibromoethane	11_	U
75-25-2	Bromoform	1	U
127-18-4	Tetrachloroethene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	111	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	11	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1_	U
96-18-4	1,2,3-Trichloropropane	1	U

STL Newburgh 315 Fullerion Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841



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NJDEP 73015

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.
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VOLATILE URGANICS ANALTOIS DATA STILL						SITE 6 TB-04240		
Lab Name:	STL Ne	wburgh	Contract:	01012.01	_) 10-042-		
Lab Code:	10142	Case No.:	SAS No	.: s	DG No.:	AN099		
Matrix: (soil	/water)	WATER	Lai	b Sample ID:	211099-	024		
Sample wt/	vol:	5.0 (g/ml) ML	Lai	b File ID:	W7290.	<u>D</u>		
Level: (low	/med)	LOW	Da	te Received:	04/26/02	<u> </u>		
% Moisture	; not dec.		· Da	te Analyzed:	05/03/02	2		
GC Column	n: DB-62	24 ID: 0.53 (mm)	Dil	ution Factor:	1.0	·		
Soil Extract	Volume:	(uL)	So	il Aliquot Volu	ıme:		(uL)	
			CONCENTRA	TION UNITS:				
CAS	10.	COMPOUND	(ug/L or ug/Kg)	UG/L_		Q		
					1	T u	\neg	
98-8	<u> 2-8</u>	Isopropylbenzene						
108-	86-1	Bromobenzene			1	U		
103-	65- 1	n-Propylbenzene			1_	U		
1				7	4	1 11	- 1	

98-82-8	Isopropylbenzene	111	U
108-86-1	Bromobenzene	1	<u> </u>
103-65-1	n-Propylbenzene	1	<u>U</u>
79-34-5	1,1,2,2-Tetrachloroethane	1	<u> </u>
95-49-8	2-Chlorotoluene	1	<u> </u>
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	11	U
541-73-1	1,3-Dichlorobenzene	<u> </u>	U
99-87-6	4-isopropyltoluene	1	U
106-46-7	1,4-Dichlorobenzene	111	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chioropropane	1	U
87-68-3	Hexachlorobutadiene	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
91-20-3	Naphthalene	11	U
87-61-6	1.2.3-Trichlorobenzene	1	U





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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPL	E N0.
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		IENTAIL	AEC: IDC!!!!	1 100 001 0		TB-042	<u>4</u> 02	- 1
Lab Name:	STL Ne	wburgh		Contract:	01012.0			
Lab Code:	10142	Cas	se No.:	SAS N	o.:	_ SDG No.:	AN099	
Matrix: (soil/	water)	WATER	_	La	ab Sample	ID: 211099-0	24	
Sample wt/v	ol:	5.0	(g/ml) ML	L	ab File ID:	W7290.D	<u> </u>	
Level: (low/r		LOW		D	ate Receiv	ed: 04/26/02		
% Moisture:	-		-	D	ate Analyz	ed: <u>05/03/02</u>	<u> </u>	
GC Column:		24 ID: 0.	 53 (mm)	D	ilution Fac	tor: 1.0		
Soil Extract Volume:		(uL)	s	oil Aliquot	Volume:		(uL)	
				CONCENTRA				
Number TIC	s found:	0		(ug/L or ug/Kg	3) <u>UG</u> /	<u></u>		
CAS NO.		COMPOL	JND NAME		RT	EST. CONC),	Q





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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	E NO.

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	SIT	ſΕ	6	TCRA	FB-

PW-042402

Lab Name:	STL Ne	wburgh		_ Contract: 01012			
Lab Code: 10142 Case No.:		se No.:	SAS No.:	SDG	SDG No.: AN099		
Matrix: (soil/	water)	WATER	_	Lab Samp	ole ID: 2	11099-021	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File II	D: <u>W</u>	/7291.D	
Level: (low/r	med)	LOW		Date Rec	eived: 04	4/26/02	
% Moisture:	not dec.		-	Date Ana	lyzed: 0	5/03/02	
GC Column:		24 ID: 0.	53 (mm)	Dilution F	actor: 1.	.0	
Soil Extract			(uL)	Soil Aliqu	ot Volume	∋:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q ,
75-71-8	Dichlorodifluoromethane	1	Ų
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	<u> </u>
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	1	U
75-09-2	Methylene Chloride	1	U
75-35-4	1,1-Dichloroethene	1	Ü
75-34-4	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	trans-1,2-Dichloroethylene	1	U
540-59-0	cis-1,2-Dichloroethene	111	Ų
67-66-3	Chloroform	0.8	JQ
563-58-6	1,1-Dichloropropene	1	U
107-06-2	1,2-Dichloroethane	1	<u> U </u>
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
71-43-2	Benzene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	1	U_
79-00-5	1,1,2-Trichloroethane	1111	U_
106-93-4	1,2-Dibromoethane	1	U
75-25-2	Bromoform	1	U
127-18-4	Tetrachloroethene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	111	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	11	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
96-18-4	1,2,3-Trichloropropane	1	U

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3/90 M-NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPL	ENO.
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_ab Name:	STL Ne	wburgh		Contract:	01012.01	SITE 6 TCRA FB-	ļ
_ab Code:	10142	Cas	e No.:	SAS No	o.: 8	SDG No.: <u>AN099</u>	
Matrix: (soil/	water)	WATER		La	b Sample ID:	211099-021	
Sample wt/ve	ol:	5.0	(g/ml) ML	_ La	b File ID:	W7291.D	
_evel: (low/r	med)	LOW		Da	ite Received:	04/26/02	
% Moisture:	not dec.			Da	ite Analyzed:	05/03/02	
GC Column:	DB-62	4 ID: <u>0.5</u>	3 (mm)	Dil	ution Factor:	1.0	
Soil Extract \	Volume:		_ (uL)	So	il Aliquot Vol	ume: (uL	-)

CONCENTRATION UNITS:

		00,100,11,011,0			
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q
98-82-8	Isopropylbenze	ne		1	U
108-86-1	Bromobenzene			1	ט
103-65-1	n-Propylbenzer	ie		1	U
79-34-5	1,1,2,2-Tetrach			1	U
95-49-8	2-Chlorotoluene			1	U
106-43-4	4-Chlorotoluene			1	U
108-67-8	1,3,5-Trimethyll	penzene		1	U
98-06-6	tert-Butylbenze	ne		1	U
95-63-6	1,2,4-Trimethyli	penzene		. 1	U
135-98-8	sec-Butylbenze	ne		1	U
541-73-1	1,3-Dichlorober	zene		1	U
99-87-6	4-Isopropyltolue	ene		1	U
106-46-7	1,4-Dichlorober	zene		1	U
95-50-1	1,2-Dichlorober	zene		1	U
104-51-8	n-Butylbenzene			11	U
96-12-8	1,2-Dibromo-3-	chloropropane		1	. U
87-68-3	Hexachlorobuta	diene		1	U
120-82-1	1,2,4-Trichlorob	enzene		1	U
91-20-3	Naphthalene			1	U
87-61-6	1,2,3-Trichlorob	enzene		1	U





PA 68-378

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FB-PW-04 Contract: 01012.01 STL Newburgh Lab Name: SDG No.: AN099 SAS No.: Case No.: Lab Code: 10142 Lab Sample ID: 211099-021 Matrix: (soil/water) WATER Lab File ID: W7291.D (g/ml) ML Sample wt/vol: 5.0 Date Received: 04/26/02 LOW Level: (low/med) Date Analyzed: 05/03/02 % Moisture: not dec. Dilution Factor: 1.0 GC Column: DB-624 ID: 0.53 (mm) Soil Aliquot Volume: Soil Extract Volume: **CONCENTRATION UNITS:** (ug/L or ug/Kg) Number TICs found: RT EST. CONC. Q **COMPOUND NAME** CAS NO.





PA 68-378

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAI	MPLE	E NO.
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	ex-
SITE 6 TCRA RB-	4/24/02

.ab Name:	STL Nev	vburgh		Contract:	01012.01		
_ab Code:	10142	Case No	u.:	SAS No	o.: S	DG No.: <u>AN099</u>	
Vlatrix: (soil/v		WATER		La	b Sample ID:	211099-022	
Sample wt/vo		5.0 (g/n	ni) ML	La	b File ID:	W7292.D	
Level: (low/r		LOW		 Da	ate Received:	04/26/02	~
% Moisture:				Da	ate Analyzed:	05/03/02	
GC Column:		4 ID: 0.53	- (mm)	Di	lution Factor:	1.0	
Sail Extract \		(ul	_)	So	il Aliquot Vol	ume:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L		Q
75-71-8	Dichlorodifluoromethane		1	U
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	<u> </u>
75-00-3	Chioroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
75-09-2	Methylene Chloride		11	U
75-35-4	1,1-Dichloroethene		1	U
75-34-4	1,1-Dichloroethane		1	<u> </u>
590-20-7	2,2-Dichloropropane		1	U
156-60-5	trans-1,2-Dichloroethylene		1	U
540-59-0	cis-1,2-Dichloroethene		1	U
67-66-3	Chloroform		11	Ü
563-58-6	1,1-Dichloropropene		1	U
107-06-2	1,2-Dichloroethane		11	U
74-97-5	Bromochloromethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		11	U
74-95-3	Dibromomethane		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		11	U
142-28-9	1,3-Dichloropropane		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		11	U
79-00-5	1,1,2-Trichloroethane		11	U
106-93-4	1,2-Dibromoethane		11	U
75-25-2	Bromoform		1	U
127-18-4	Tetrachloroethene		11	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
108-88-3	Toluene		111	U
108-90-7	Chlorobenzene		1	υ
100-41-4	Ethylbenzene		1	U
100-42-5	Styrene		1	U
108-38-3	m,p-Xylene		1	U
95-47-6	o-Xylene		1	U
96-18-4	1,2,3-Trichloropropane		11	U



STL Newburgh is a part of Severn Trent Laboratories, Inc. FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLI	E NO.
-----	--------	-------

SITE	6	TCRA	RB-

4/24

Lab Name:	STL Nev	vburgh		_ Contract: 01012.01		
Lab Code:	10142	Cas	e No.:	SAS No.:	SDG No.: AN099	
Matrix: (soil/v	vater)	WATER	_	Lab Sample ID	: <u>211099-022</u>	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab File ID:	W7292.D	
Level: (low/n		LOW	 -	Date Received	: 04/26/02	
% Moisture:	-	+	-	Date Analyzed	: 05/03/02	
GC Column:		4 ID; 0.5	 53 (mm)	Dilution Factor	: 1.0	
Soil Extract \			(uL)	Soil Aliquot Vo	lume:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
98-82-8	Isopropylbenzene	11	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
95-49-8	2-Chlorotoluene	111	U
106-43-4	4-Chlorotoluene	111	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	111	U
135-98-8	sec-Butylbenzene	11_	U
541-73-1	1,3-Dichlorobenzene	1	U .
99-87-6	4-Isopropyltoluene	11_	U
106-46-7	1,4-Dichlorobenzene	1	U U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11_	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
87-68-3	Hexachlorobutadiene	11_	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	11	U





PA 68-378

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.	
DR EY-0424	_

Lab Name:	STL Nev	vburgh		Co	ntract	: <u>C</u>	01012.01		ND-EX	-0427	
Lab Code:	10142		e No.:		SAS N	·.ol		SD	G No.:	AN099	9
Matrix: (soil/v		WATER			L	ab :	Sample i	D: <u>3</u>	211099-0)22	
Sample wt/vo		5.0	(g/ml) ML		L	ab I	File ID:	1	W7292.D)	_
Level: (low/r		LOW	_		D)ate	Receive	ed: [04/26/02		_
% Moisture:					D	ate	. Analyze	d: j	05/03/02		_
GC Column:	DB-62	4 ID: 0.5	3_ (mm)		C	Dilut	ion Facto	or: _	1.0		
Soil Extract	Volume:		(uL)		S	Soil .	Aliquot V	olun'	ne:		_ (uL)
				CONCI			ON UNIT UG/L				
Number TIC	s found:	0	- -								
CAS NO.		COMPOU	ND NAME				RT	ES	T. CONC).	Q





EPA NY049

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.	
	cx-
SITE 6 TCRA RB-	4/23/07

Lab Name:	STL Ne	wburgh		Contract: 01012.01	SITE 6 TCRA I	RB- 4 23
Lab Code:	10142	Cas	se No.:	SAS No.: S	DG No.: AN099	
Matrix: (soil/	water)	WATER	_	Lab Sample ID:	211099-023	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab File ID:	W7293.D	
Level: (low/	med)	LOW	_	Date Received:	04/26/02	
% Moisture:	not dec.			Date Analyzed:	05/03/02	•
GC Column:	DB-62	24 ID: 0.5	3_ (mm)	Dilution Factor:	1.0	
Soil Extract	Volume:	,	(uL)	Soil Aliquot Volu	ıme:	(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	11_	Ū
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-09-2	Methylene Chloride	1	U
75-35-4	1,1-Dichloroethene	111	U
75-34-4	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	trans-1,2-Dichloroethylene	1	U
540-59-0	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	111	U
563-58-6	1,1-Dichloropropene	1	Ų
107-06-2	1,2-Dichloroethane	1	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
71-43-2	Benzene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
75-25-2	Bromoform	1	U
127-18-4	Tetrachloroethene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	· U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
96-18-4	1,2,3-Trichloropropane	1	U

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3/90 M-NY049 315 Fullenton Avenue Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO	١.
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SITE	6	TCRA	RB-	4	2.3

Lab Name:	STL Nev	wburgh	_ Contract: 01012.01	'
Lab Code:	10142	Case No.:	SAS No.: S	DG No.: AN099
Matrix: (soil/v	vater)	WATER	Lab Sample ID:	211099-023
Sample wt/vo	oł:	5.0 (g/ml) ML	Lab File ID:	W7293.D
Level: (low/n	ned)	LOW	Date Received:	04/26/02
% Moisture:	not dec.		Date Analyzed:	05/03/02
GC Column:	DB-62	4 ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract V	/olume:	(uL)	Soil Aliquot Volu	me: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L	. or ug/Kg)	UG/L		Q
98-82-8	Isopropylbenzene			1	U
108-86-1	Bromobenzene			1	U
103-65-1	n-Propylbenzene			1	U
79-34-5	1,1,2,2-Tetrachloroethan	16		1	U
95-49-8	2-Chlorotoluene			1	U
106-43-4	4-Chlorotoluene			1	U
108-67-8	1,3,5-Trimethylbenzene			1	U
98-06-6	tert-Butylbenzene			1	<u> </u>
95-63-6	1,2,4-Trimethylbenzene			1	U
135-98-8	sec-Butylbenzene			1	U
541-73-1	1,3-Dichlorobenzene			1	U
99-87-6	4-Isopropyltoluene			1	U
106-46-7	1,4-Dichlorobenzene			1	U
95-50-1	1,2-Dichlorobenzene			1	U
104-51-8	n-Butylbenzene			1	U
96-12-8	1,2-Dibromo-3-chloropro	pane		1	U
87-68-3	Hexachlorobutadiene			1	<u> </u>
120-82-1	1,2,4-Trichlorobenzene			1	U
91-20-3	Naphthalene			1	U
87-61-6	1,2,3-Trichlorobenzene			1	U





1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO	EPA	SAMPI	LE NO
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RB-EX-0423 Contract: 01012.01 STL Newburgh Lab Name: SAS No.: SDG No.: AN099 Case No.: Lab Code: 10142 Lab Sample ID: 211099-023 Matrix: (soil/water) WATER Lab File ID: W7293.D Sample wt/vol: 5.0 (g/ml) ML Date Received: 04/26/02 Level: (low/med) LOW Date Analyzed: 05/03/02 % Moisture: not dec. Dilution Factor: 1.0 GC Column: DB-624 ID: 0.53 (mm) Soil Aliquot Volume: (uL) Soil Extract Volume: **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L Number TICs found: EST. CONC. Q RT

COMPOUND NAME

CAS NO.



EPA NY049

APPENDIX C

AIR MONITORING DATA

Volatile Organic Compounds in Ambient Air

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

Min(ppm)

User ID: 00000001 Data Points: 0

Site ID: 00000000 Gas Name: Isobutylene

Sample Period: 600 sec

Max(ppm)

Last Calibration Time: 04/19/2002 14:02 Start At: 04/23/2002 09:35 End At: 04/23/2002 09:35

Measurement Type:	Min(p	om)	Avg(ppm) 100	Max(ppm)
High Alarm Levels:	100	100	100	
Low Alarm Levels:	50	50	50	
STEL Alarm Levels:	25	25	25	
TWA Alarm Levels:	ĩŏ	īŏ	10	
THA KILLIN ECTEIS			= = = = = = = = = = = = = = = = = = = 	

Avg(ppm)

Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

User ID: 00000001 Data Points: 1

AVG Data Value:

Site ID: 00000000

Sample Period: 600 sec Gas Name: Isobutylene

Last Calibration Time: 04/19/2002 14:02 Start At: 04/23/2002 09:47

End At: 04/23/2002 09:47

					
Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(pp 100 50 25 10	m) 100 50 25 10	Avg(ppm) 100 50 25 10	Max(ppm)	
Measurement Type: Peak Data Value: Min Data Value: TWA Data Value:	Min(pp O	om) 0 0	Avg(ppm)	Max(ppm)	

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

User ID: 00000001 Data Points: 0

Site ID: 00000000

Gas Name: Isobutylene

Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/23/2002 10:07

End At: 04/23/2002 10:07

Measurement Type:	Min(p	pm)	Avg(ppm)	мах(ррт)	
Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(p) 100 50 25 10	om) 100 50 25 10	Avg(ppm) 100 50 25 10	Max(ppm)	

Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

User ID: 00000001 Data Points: 6

Site ID: 00000000 Gas Name: Isobutylene

Sample Period: 600 sec

Max(ppm)

Last Calibration Time: 04/19/2002 14:02 Start At: 04/23/2002 12:16 End At: 04/23/2002 13:06

Avg(ppm) Max(ppm) Min(ppm) Measurement Type: 100 50 100 High Alarm Levels: Low Alarm Levels: 50 25 50 25 STEL Alarm Levels: 10 10 10 TWA Alarm Levels: Avg(ppm) 0

Measurement Type: Peak Data Value: Min(ppm) Min Data Value: TWA Data Value: 0 Ō 0 ō AVG Data Value:

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

user ID: 00000001 Data Points: 2

Site ID: 00000000

Gas Name: Isobutylene

Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02

End At: 04/23/2002 13:36 Start At: 04/23/2002 13:26

Avg(ppm) Min(ppm) 100 50 Max(ppm) Measurement Type: 100

High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels: 50 25 50 25 25 10 10 10 ______

Avg(ppm) Max(ppm) Min(ppm)

Measurement Type: Peak Data Value: 0 Min Data Value: Ò TWA Data Value: Õ AVG Data Value:

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

User ID: 00000001 Data Points: 0

Site ID: 00000000

Min(ppm)

Gas Name: Isobutylene

Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/24/2002 09:00

End At: 04/24/2002 09:00

Avg(ppm) Max(ppm)

# MAKE BASE 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Noncument Type:	Min(p	an J	Ava(nnm)	Max(ppm)	
Measurement Type: High Alarm Levels:	100	100	Avg(ppm) 100	outre (blun)	
Low Alarm Levels:	50	50	50		
STEL Alarm Levels:	25	25	25		
TWA Alarm Levels:	10	10	10		

Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 003833

User ID: 00000001 Data Points: 6

Site ID: 00000000 Gas Name: Isobutylene Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/24/2002 09:10 End At: 04/24/2002 10:00

Measurement Type:	Min(p	pm)	Avg(ppm) 100	Max(ppm)
High Alarm Levels:	100	100	100	
Low Alarm Levels:	50	50	50 25	
STEL Alarm Levels:	25	25	25	
TWA Alarm Levels:	10	10	10	
Measurement Type:	міл(р	(ma	Avg(ppm) 20.7	Max(ppm)
Peak Data Value:	*1	` 0.1	20.7	
Min Data Value:	0	0		
	_	A F		
TWA Data Value:	0	0.5		

Serial Number: 003833 Instrument: MiniRAE 2000 (PGM7600)

User ID: 00000001 Data Points: 1

Site ID: 00000000 Gas Name: Isobutylene Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/24/2002 10:21 End At: 04/24/2002 10:21

Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(pp 100 50 25 10	100 50 25 10	Avg(ppm) 100 50 25 10	Max(ppm)
Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:	Min(pp 0 0 0	om) 0 0 0	Avg(ppm) 0	мах(ррт)

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 003833

User ID: 00000001 Data Points: 5

Site ID: 00000000 Gas Name: Isobutylene

Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/24/2002 10:47

End At: 04/24/2002 11:27

Measurement Type: High Alarm Levels: Low Alarm Levels: STEL Alarm Levels: TWA Alarm Levels:	Min(pp 100 50 25 10	m) 100 50 25 10	Avg(ppm) 100 50 25 10	Max(ppm)	
Measurement Type: Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:	Min(pp 0 0	om) O O	Avg(ppm) O	Max(ppm)	

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 003833

User ID: 00000001 Data Points: 12

Site ID: 00000000 Gas Name: Isobutylene

Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02 Start At: 04/24/2002 11:47 End At: 04/24/2002 13:37

Measurement Type:	Min(p)	pm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100	
Low Alarm Levels:	50	50	50	
STEL Alarm Levels:	25	25	25	
TWA Alarm Levels:	10	10	10	
Measurement Type:	Min(p	pm)	Avg(ppm)	Max(ppm)

Peak Data Value: Min Data Value: TWA Data Value: AVG Data Value:

Airborne Particulates in Ambient Air

pDR-1000
Tag Number: 01
Number of logged points: 4
Start time and date: 09:28:08 23-Apr
Elapsed time: 00:40:00
Logging period (sec): 600
Calibration Factor (4): 100
Max Display Concentration: 0.084 mg/m³
Time at maximum: 09:29:54 Apr 23
Max STEL Concentration: 0.011 mg/m³
Time at max STEL: 09:43:08 Apr 23
Overall Avg Conc: 0.004 mg/m³
Logged Data:
Point, Date , Time , Avg.(mg/m³)
1, 23 Apr, 09:38:08, 0.015
2, 23 Apr, 09:48:08, 0.006
3, 23 Apr, 09:58:08, 0.008
4, 23 Apr, 10:08:08, 0.001

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pDR-1000
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Tag Number: 02

Number of logged points: 11

Start time and date: 12:06:02 23-Apr

Elapsed time: 01:50:00 Logging period (sec): 600 Calibration Factor (%): 100

Max Display Concentration: 0.029 mg/m3

Time at maximum: 12:23:33 Apr 23 Max STEL Concentration: 0.006 mg/m3 Time at max STEL: 12:24:02 Apr 23 Overall Avg Conc: 0.000 mg/m*

Logged Data:

...

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34.

, Avg. (mg/m³)

- Point, Date , Time , Avg. (a 1, 23 Apr. 12:16:02, 0.008 2, 23 Apr. 12:26:02, 0.006 3, 23 Apr. 12:36:02, 0.005

 - 4, 23 Apr, 12:46:02, 0.006

 - 5, 23 Apr, 12:56:02, 0.001
 - 6, 23 Apr, 13:06:02, 0.000
- 0, 23 Apr. 13:06:02, 0.000
 7, 23 Apr. 13:16:02, 0.000
 8, 23 Apr. 13:26:02, 0.000
 9, 23 Apr. 13:36:02, 0.000
 10, 23 Apr. 13:46:02, 0.003
 11, 23 Apr. 13:56:02, 0.001

MAY 02 2002 1:35PM HP LASERJET 3200

pDR-1000 Tag Number: 03 Number of logged points: 3 Start time and date: 15:05:42 23-Apr Elapsed time: 00:30:00 Logging period (sec): 600 Calibration Factor (%): 100 Max Display Concentration: 0.082 mg/m' Time at maximum: 15:36:40 Apr 23 Max STEL Concentration: 0.000 mg/m3 Time at max STEL: 15:05:42 Apr 23 Overall Avg Conc: 0.001 mg/m3 Logged Data: Point, Date , Time , Avg. (rg/m³)
1, 23 Apr. 15:15:42, 0.000
2, 23 Apr. 15:25:42, 0.000
3, 23 Apr. 15:35:42, 0.002

```
pDR-1000
Tag Number: 04
Number of logged points: 30
Start time and date: 08:50:23 24-Apr
Elapsed time: 05:00:00
Logging period (sec): 600
Calibration Factor (%): 100
Max Display Concentration: 1.166 mg/m2
Time at maximum: 10:08:51 Apr 24
Max STEL Concentration: 0.106 mg/m3
Time at max STEL: 10:09:53 Apr 24
Overall Avg Conc: 0.016 mg/m<sup>3</sup>
Logged Data:
                          , Avg. (mg/m<sup>1</sup>)
Point, Date , Time
    1, 24 Apr, 09:00:23, 0.010
     2, 24 Apr. 09:10:23, 0.010
    3, 24 Apr, 09:20:23,
4, 24 Apr, 09:30:23,
                            0.008
                            0.010
    5, 24 Apr. 09:40:23, 0.009
     6, 24 Apr. 09:50:23, 0.013
     7, 24 Apr, 10:00:23, 0.033
    8, 24 Apr, 10:10:23, 0.134
    9, 24 Apr, 10:20:23,
                            0.024
 10, 24 Apr. 10:30:23, 0.016
11, 24 Apr. 10:40:23, 0.016
12, 24 Apr. 10:50:23, 0.010
 13, 24 Apr, 11:00:23, 0.009
   14, 24 Apr, 11:10:23, 0.008
15, 24 Apr. 11:20:23, 0.008
   16, 24 Apr, 11:30:23, 0.006
   17, 24 Apr, 11:40:23,
                             0.011
18, 24 Apr. 11:50:23,
                             0.013
   19, 24 Apr, 12:00:23, 0.004
20, 24 Apr, 12:10:23, 0.008
   21, 24 Apr, 12:20:23, 0.011
 22, 24 Apr, 12:30:23, 0.034
   23, 24 Apr, 12:40:23, 0.010
    24, 24 Apr, 12:50:23, 0.013
    25, 24 Apr, 13:00:23, 0.004
   26, 24 Apr. 13:10:23, 27, 24 Apr. 13:20:23,
                             0.002
                            0.002
   28, 24 Apr. 13:30:23, 0.019
```

29, 24 Apr. 13:40:23, 0.022 30, 24 Apr, 13:50:23, 0.004

APPENDIX D

WASTE PROFILE SAMPLING DATA





Environmental Laboratories, Inc. 587 East Middle Tumpiks, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

September 03, 2002

SDG LD.: GAE05971

Parameter	Blank	LCS %	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch Sample No; AE05973 (AE	05971, A£05972, A	E05978)			
TPH by GC (Extractable Pro	ducts)				
Aviation Fuel/Kerosene	ND				
Fuel Oil #2/ Diesel Fuel	ND	67	71	61	15.2
Fuel Oil #4	ND				
Fuel Oil #8	ND				
Motor Oil	ND				
Other Oil (Cutting & Lubricating)	ND				
Unidentified	ŅĎ				

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

MS - Matrix Spike

Unidentified

MS Dup - Matrix Spike Duplicate

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

Phyllis Shiller, Laboratory Director

September 03, 2002





Environmental Laboratories, Inc. 587 East Middle Turnplice, P.O.Box 370, Manchester, OT 06040 Tel. (860) 645-1102 Fax (860) 645-0822

Analysis Report

September 03, 2002

FOR:

Attn: Ms. Lynne Farrell Precision Industrial Maint.

226 Broadway

Schenectady NY 12305

Sample Information	Custody Information	Date	Time
Matrix: SOLID Location Code: PREINDST Project Code: RUSH#	Collected by: Received by: KJB Analyzed by: see "By" b	04/04/02 04/05/03 elow	10:30 11:01
P.O.#: 020185			

Laboratory Data

SDG LD.: GAE05971

Client ID: STRATTON ANGB AOC-A				Phoenix LD.: AE05971			
Parameter	Result	RL	Units	Date Tir	ne By	Reference	
Percent Solid	85.86		%	04/05/02	G	E160.8	
Extraction of TPH MOD 8100 SM	Completed			04/05/02	PL	3550/5030	
TPH by GC (Extractable	Products)						
Fuel Oil #4	ND	50	mg/kg	04/08/02	CN	8100Modified	
Fnel Oil #6	ND	50	mg/kg	04/08/02	ON	\$100Modified	
Fuel Oil#2/Diesel Fuel	ND	50	mg/kg	04/08/02	CN	6100Modified	
Kerosene	ND	60	mg/kg	04/08/02	CN	8100Modified	
Motor Oil	ND	50	mg/kg	04/08/02	CN	8100Modified	
Other Oil (Cutting & Lubricating)	ND	50	mg/kg	04/08/02	CN	8100Modified	
Unidentified	ND	50	mg/kg	04/08/02	CN	8100Modified	

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director

September 93, 2002





Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (560) 546-1102 Fax (560) 546-0523

Analysis Report

September 03, 2002

FOR:

Attn. Ms. Lynne Farrell Precision Industrial Maint.

226 Broadway

Schenectady NY 12805

Sample Information		Custody Infor	<u>mation</u>	Date	Time
Matrix	SOLID	Collected by:		04/04/02	10:30
Location Code	PREINDST	Received by:	КJВ	04/05/02	11:01
Project Code:	RUSH#	Analyzed by:	see "By" below		
P.O.#:	020185				

Laboratory Data

SDG LD.: GAE05971

Phoenix LD.: AE05972

Parameter	Result	RL	Units	Date Time	Ву	Reference
Percent Solid	87.32		%	04/05/02	G	E160.3
Extraction of TPH MOD 8100 SM	Completed			04/05/02	PL	3550/5030
TPH by GC (Extractable	Products)					
Fue) Oil #4	ND	50	mg/kg	04/08/02	CN	\$100Modified
Fuel Off #6	ND	50	mg/kg	04/08/02	CN	8109Modified
Fue! Oil#2 / Diesel Fuel	ND	50	mg/kg	04/08/02	CN	\$100Modified
Kerosene	ND	50	mg/kg	04/08/02	CN	8100Modified
Motor Oil	ND	50	mg/kg	04/08/02	CN	\$100Modified
Other Oil (Cutting & Lubricating)	ND	5 0	mg/kg	04/08/02	CN	810 0M odified
Unidentified	**150	50	mg/kg	04/08/02	CN	8100Modified

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

Client ID: STRATTON ANGE AOC-B

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Skiller, Laboratory Director

September 03, 2002

^{**}Petroleum hydrocarbon chromatogram was not a perfect metch with any of the standards, but most dosely resembles mixture diesel/fuel oil #2 and motor oil.



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 870, Manchester, CT 06049 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 03, 2002

FOR:

Attn: Ms. Lynne Farrell Precision Industrial Maint.

226 Broadway

Schenectady NY 12805

Sample Information	Custody Information	<u>Date</u>	<u>Time</u>
Matrix: SOLID	Collected by:	04/04/02	10:30
Location Code: PREINDST	Received by: KJB	04/05/02	11:01
Project Code: RUSH#	Analyzed by: see "By" bek	ó ₩	
P.O.#: 020185			

Laboratory Data

SDG I.D.: GAE05971

Phoenix I.D.: AE05978

Citetta Tty, Prymy rout and and a				-			
Parameter	Result	\mathbf{RL}	Units	Date Time	By	Reference	
Percent Solid	88.88	•	%	04/05/02	G	E160.3	
Extraction of TPH MOD 8100 SM	Completed			04/05/02	PL	8550/5030	
TPH by GC (Extractable	Products)						
Fuel Oil #4	ND	50	mg/kg	04/08/02	CN	B100Modified	
Puel Oil #6	ND	50	mg/kg	04/08/02	ÇN	beiliboM0018	
Fuel Oil#2 / Diesel Fuel	ND	60	mg/kg	04/08/02	CN	\$100Modified	
Kerosene	ND	50	mg/kg	04/08/02	CN	8100Modified	
Motor Oil	ND	50	mg/kg	04/08/02	CN	\$100Modified	
Other Oil (Cutting & Lubricating)	ND	50	mg/kg	04/08/02	CN	8100Modified	
Unidentified	**350	50	mg/kg	04/08/02	CN	8100Modified	

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

Client ID: STRATTON ANGB ACC-C

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director

September 03, 1002

^{**}Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles mixture diesol/fivel oil #2 and motor oil.