INSTALLATION RESTORATION PROGRAM

FINAL

TIME CRITICAL REMOVAL ACTION COMPLETION REPORT - SITE 6

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

JANUARY 2003

Prepared For

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

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Prepared By
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TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF ACRONYMS

ABB	ABB Environmental Services, Inc.
ANG	Air National Guard
ANGRC	Air National Guard Readiness Center
Aneptek	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
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.

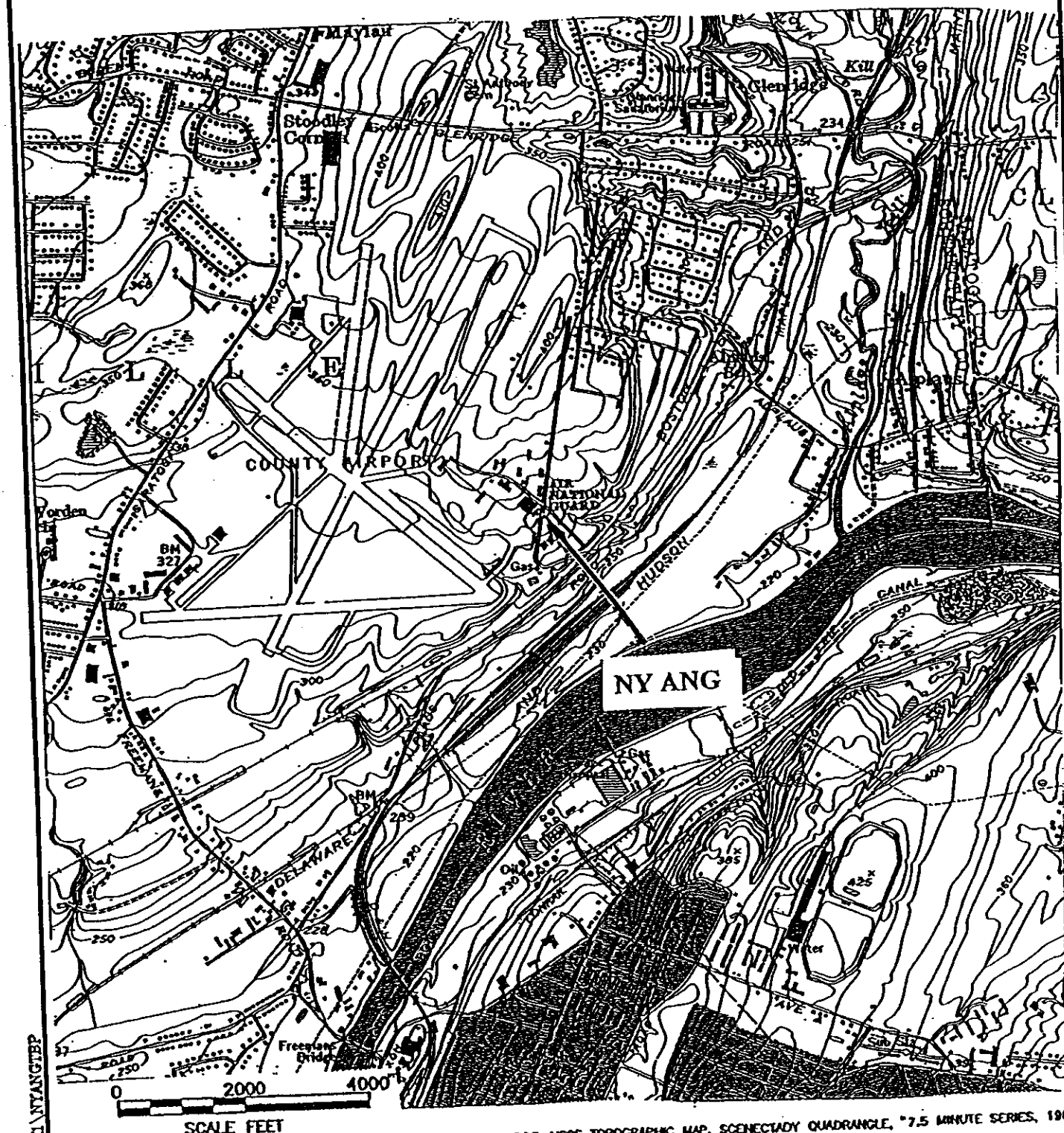
By September of 1950, the permanent facilities for the unit were completed at the Schenectady County Airport. These facilities consisted of the present administration building, aircraft hanger, vehicle maintenance, and various supply buildings. In 1951, The P-47's were replaced by the P-51 "Mustang." 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.



SOURCE: USGS TOPOGRAPHIC MAP, SCENECTADY QUADRANGLE, 7.5 MINUTE SERIES, 1980

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NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
NY ANG LOCATION
SCOTIA, NEW YORK

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 3-1

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).

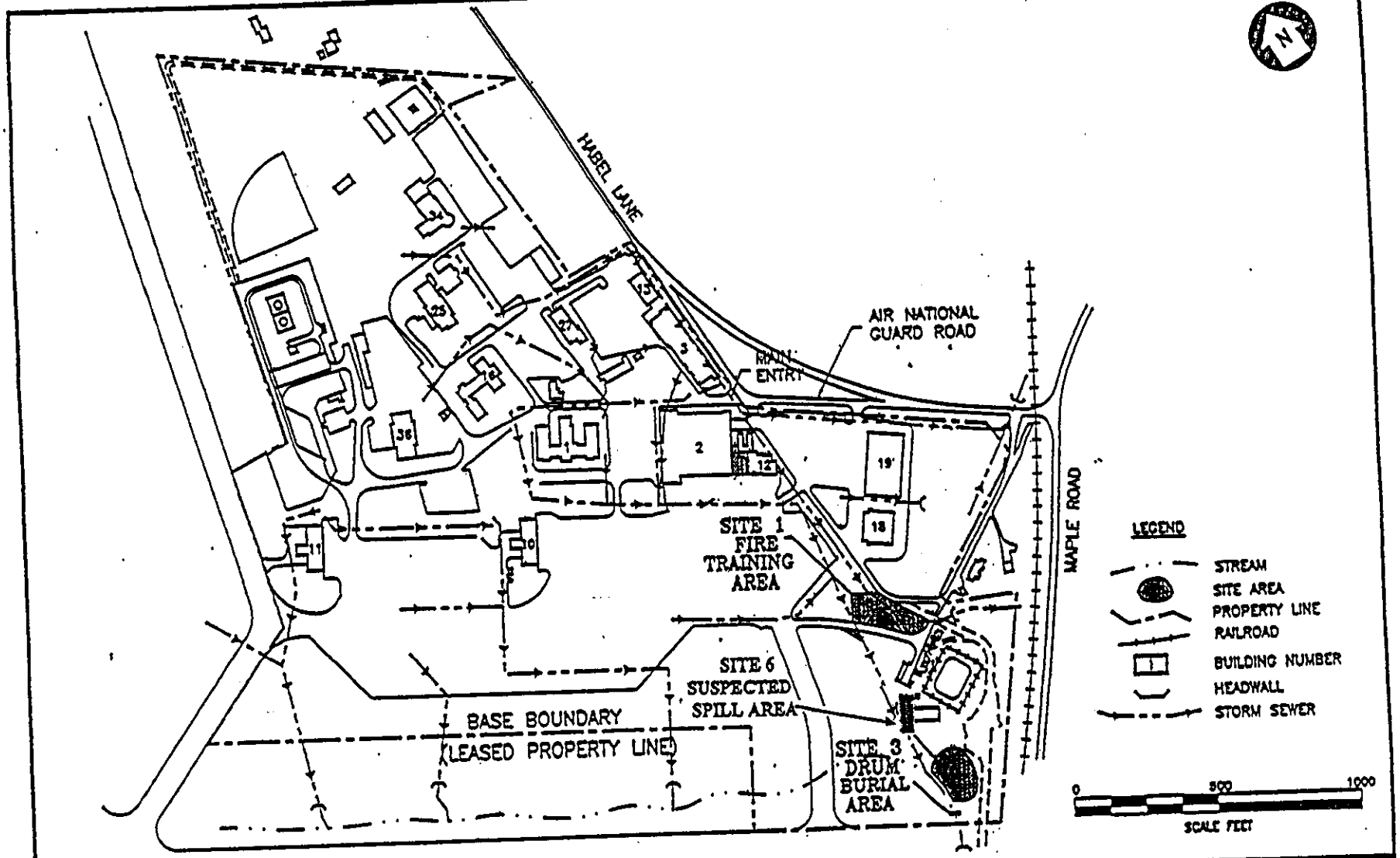
3.3.1 Remedial Investigation

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 (µg/L). The sample collected from temporary well (TW)-9 had the highest concentration at 50.1 µg/L. Other compounds detected in this sample were PCE at 3.3 µg/L, TCE at 1.14 µg/L, and vinyl chloride at 1.01 µg/L. NYSDEC drinking water standards for these three compounds are 5 µg/L, 5 µg/L, and 2 µg/L, respectively. TW-12 had the next highest concentration of cis-1,2-DCE



NEW YORK AIR NATIONAL GUARD BASE

109th AIRLIFT WING

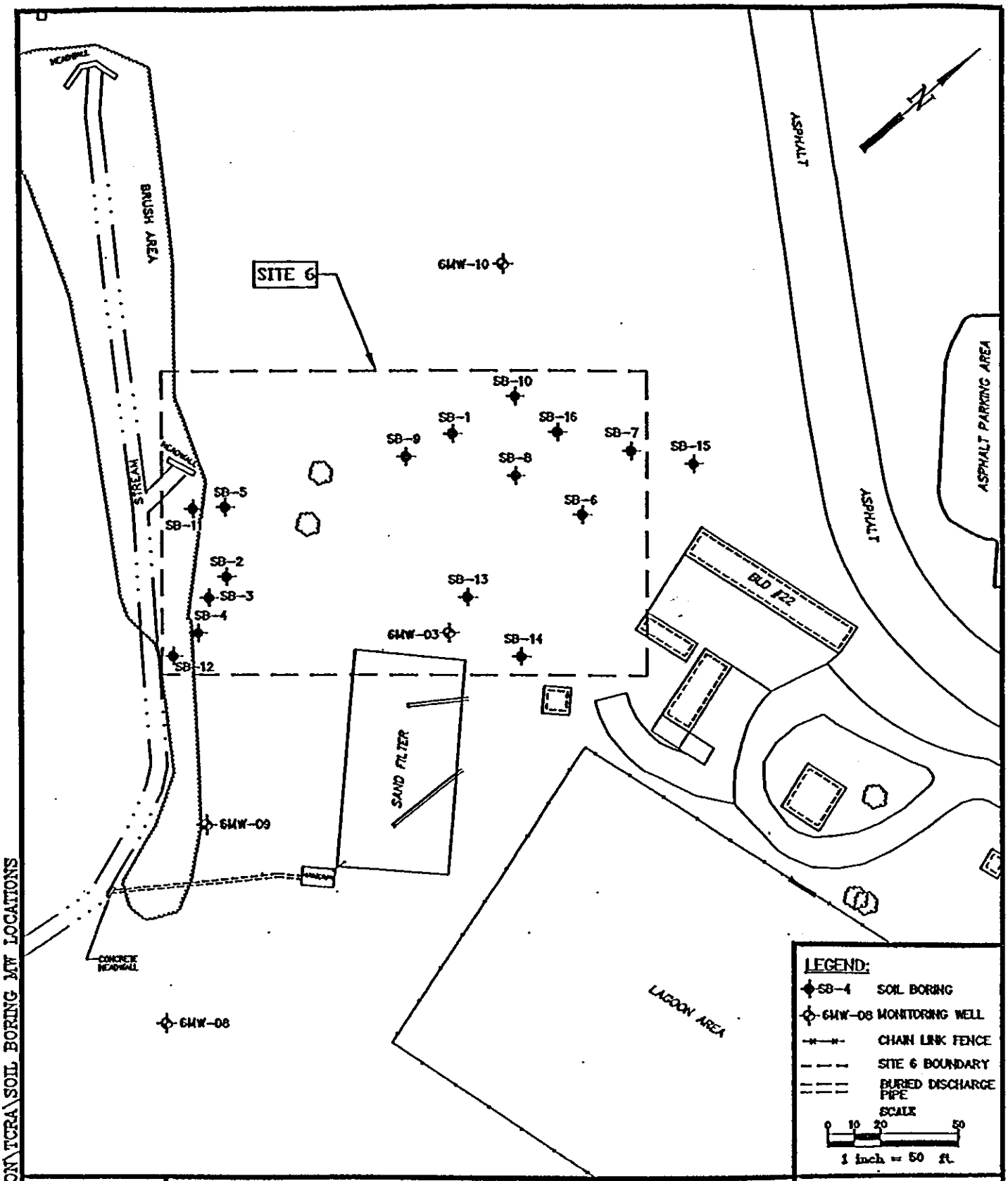
IRP SITE LOCATIONS

SCOTIA, NEW YORK

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 3-2

C:\DRAW\STRATTON\DISK1\IRP SITE LOCATIONS



C:\DRAW\STRATTON\TCRA\SOIL BORING MW LOCATIONS

NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
RI SOIL BORING/MONITORING WELL
LOCATIONS – SITE 6
SCOTIA, NEW YORK

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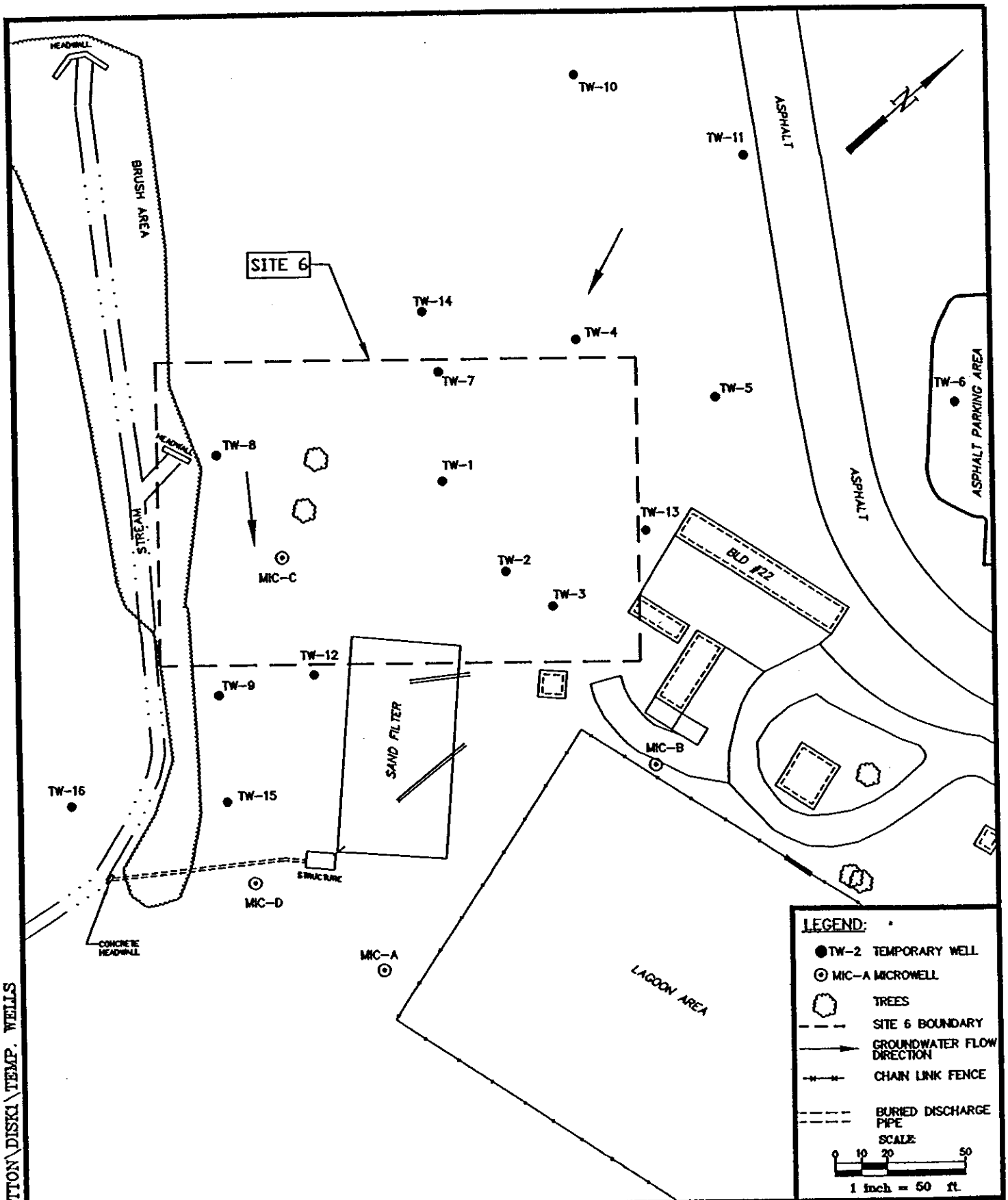
FIGURE: 3-3



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NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
RI TEMPORARY WELL LOCATIONS–SITE 6
SCOTIA, NEW YORK

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FIGURE: 3-4

at 34.2 µg/L. Trichloroethene was also detected in this sample at 2.72 µg/L. In the sample from TW-7, only cis-1,2-DCE was detected at a concentration of 6.87 µg/L. In sample TW-15, cis-1,2-DCE was detected at 1.14 µg/L and PCE at 4.71 µg/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 µg/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 µg/L in 6MW-03 in the first round. Vinyl chloride was detected in both rounds at 6MW-03, at a concentration of 16 µg/L (first round) and 2.7 µg/L (second round). PCE was detected in 6MW-09 at a concentration of 16 µg/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 µg/L and 35 µg/L, respectively. The phenolic compounds were detected in the second round at 6MW-08 and 6MW-09, with the highest combined concentration of 54 µg/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

ANALYTE	DETECTION LIMITS[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	SAMPLE NUMBERS							
				TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7	TW-8
VOCs (ug/L)											
1,3,5-Trimethylbenzene	1	NA	5	ND	1.33	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1	70	5	1.86	ND	ND	ND	ND	ND	[redacted]	ND
Tetrachoroethene	1	NA	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	2	1.04	ND	ND	ND	ND	ND	ND	ND

ANALYTE	DETECTION LIMITS[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	SAMPLE NUMBERS								
				TW-9	TW-10	TW-11	TW-12	TW-13	TW-14	TW-15	TW-16	6MW-03[4]
VOCs (ug/L)												
1,3,5-Trimethylbenzene	1	NA	5	ND	ND	NS	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1	70	5	[redacted]	ND	NS	[redacted]	ND	ND	1.14	ND	[redacted]
Tetrachoroethene	1	NA	5	3.3	ND	NS	ND	ND	ND	4.71	ND	ND
Trichloroethene	1	5	5	1.14	ND	NS	2.72	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	2	1.01	ND	NS	ND	ND	ND	ND	ND	ND

ABBREVIATIONS:

ug/L- micrograms per liter
DWQS - Drinking Water Quality Stds.
MCL - Maximum Contaminant Lev el
MW - Monitoring Well
NA - Not Applicable
ND - Not Detected
NS - Not Sampled
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 QUALIFIERS:

[redacted] Indicates concentration that ex ceeds State or Federal regulatory limits.

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

ANALYTE	DETECTION LIMIT[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	BACKGROUND CONC.[4]		SAMPLE NUMBERS 6MW-03		6MW-08		6MW-09		6MW-19[5]	
VOCs (ug/kg)													
Tetrachoroethene	1	5	5	1	U	1	U	1	U	1	J	1.2	
cis-1,2-Dichloroethene	1	70	5[a]	1	U	[redacted]		1	U	1	U	1	U
trans-1,2-Dichloroethene	1	100	5[a]	1	U	0.7	J	1	U	1	U	1	U
Trichloroethene	1	5	5[a]	1	U	1.4		1	U	1	U	1	U
Vinyl Chloride	1	2	2	1	U	[redacted]		1	U	1	U	1	U
Methylene Chloride	1	NA	5[a]	1	U	1	U	1	U	1	U	1	U
Toluene	1	1,000	5[a]	1	U	1	U	1	U	1	U	1	U
SVOCs (ug/L)													
bis (2-Ethylhexyl) phthalate	10	NA	5	12		11	U	10	U	10	U	10	U
Diethylphthalate	10	NA	NA	10	U	11	U	10	U	10	J	10	U
Di-n-butylphthalate	10	NA	50	1	J	11	U	10	U	10	U	10	U
2-Methylphenol	10	NA	NA	10	U	11	U	10	U	1	J	10	U
Naphthalene	10	NA	10	10	U	11	U	10	U	3	J	10	U
2-Methylnaphthalene	10	NA	4.7[c]	10	U	11	U	10	U	[redacted]		10	UJ
Acenaphthene	10	NA	20	10	U	11	U	10	U	[redacted]		10	U
Dibenzofuran	10	NA	NA	10	U	11	U	10	U	30	J	10	U
Fluorene	10	NA	50[c]	10	U	11	U	10	U	18	J	10	UJ
Phenanthrene	10	NA	50[c]	10	U	11	U	10	U	8	J	10	U
Anthracene	10	NA	50[c]	10	U	11	U	10	U	2	J	10	U
Phenol	10	NA	1[a]	10	U	10	U	10	U	10	U	10	U
2,4-Dinithrophenol	10	NA	10[c] / 1[a]	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	NA	1[a]	10	U	10	U	10	U	10	U	10	U
PEST/PCBs (ug/L)													
4,4'-DDD	0.1	NA	0.3	0.1	U	0.01	U	0.01	U	0.01	U	0.01	U
4,4'-DDT	0.1	NA	0.2	0.1	U	0.01	U	0.01	U	0.01	U	0.01	U
HERBICIDES (ug/L)													
2,4,5-TP (Silvex)	0.5	50	NA	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
Pentachlorophenol (PCP)	0.1	1	1[a]	0.1	R	0.1		0.1	R	0.1	R	0.1	R
Dinoseb	0.1	7	1[a]	0.1	UJ	0.1		0.1	UJ	0.1	UJ	0.1	UJ
Picloram	0.04	500	50	0.04	UJ	0.05	J	0.04	UJ	0.04	UJ	0.04	UJ
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	U	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)													
Aluminum	200	NA	NA	10.2	UJ	200	U	10.2	UJ	15.9	J	10.2	UJ
Antimony	2.8	6	3	2.6	UJ	6	U	5.9	U	2.8	U	2.4	U
Arsenic	10	50	25	2.6	UJ	1.7	U	6.4	U	5	U	5.4	U
Barium	200	2,000	1,000	78.8	J	154	J	80.8	J	167	J	162	J
Beryllium	5	4	3[c]	0.4	J	0.2	U	0.1	U	0.1	U	0.1	U
Cadmium	5	5	5	0.4	J	0.3	U	0.2	U	0.2	U	0.2	U
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	U
Cobalt	50	NA	5	0.6	U	0.8	U	0.7	J	0.6	U	0.6	U
Copper	25	1,300	200	0.5	UJ	2.7	U	0.5	UJ	0.5	UJ	0.5	UJ
Iron	100	NA	300	1.3	U	12.7	B	1.3	U	1.3	U	1.3	U
Lead	3	15	25	1.1	U	3	UJ	2.9	J	1.1	U	1.1	U
Magnesium	5,000	NA	35,000[c]	18,600	J	32,200	J	[redacted]		[redacted]		[redacted]	
Manganese	15	NA	300	85	J	15	U						
Nickel	40	100	100	3.8	J	3.1	U	6	BJ	2	J	1.7	J
Potassium	5,000	NA	NA	3,360	J	10,900	J	6,830	J	9,270	J	9,590	J
Silver	10	NA	50	10	U	10	UJ	10	U	10	U	10	U
Sodium	5,000	NA	20,000	6,870	J	[redacted]		[redacted]		[redacted]		[redacted]	
Thallium	10	2	0.5[c]	1.1	U	10	U	1.1	U	1.1	U	1.1	U
Vanadium	50	NA	NA	1.2	U	50	U	1.2	U	1.2	U	1.2	U
Zinc	20	NA	2000[c]	9.2	J	20	U	4.4	J	1	J	2.4	J

CAD\SharedFiles\RI Sample result tables (revised)\table 6-21 9/18/02 8:41 AM

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

ANALYTE	DETECTION LIMIT[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	BACKGROUND CONC.[4]		SAMPLE NUMBERS							
						6MW-03		6MW-08		6MW-09		6MW-19[5]	
TOTAL INORGANICS (ug/L)													
Aluminum	200	NA	NA	7,050	J	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	J	200		224	
Beryllium	5	4	3[c]	0.4	J	0.2	U	0.1	U	0.2	J	0.9	J
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	J	19.8	J
Iron	100	NA	300	15,200		386	J	5,900		9,910	J	[redacted]	
Lead	3	15	25	6.7	J	3	UJ	5.2	J	7.7	J	9.7	J
Magnesium	5,000	NA	35,000[c]	21,000		27,600	J	[redacted]		[redacted]		[redacted]	
Manganese	15	NA	300	607		[redacted]		[redacted]		606		[redacted]	
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	J	9,200	J	5,530	J	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		[redacted]		[redacted]		[redacted]		[redacted]	
Thallium	10	2	0.5[c]	10	U	[redacted]		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

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
   a) 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.
[redacted] 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

ANALYTE	DETECTION LIMIT[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	BACKGROUND CONC.[4]		SAMPLE NUMBERS							
						6MW-03		6MW-08		6MW-09		6MW-29[5]	
VOCs (ug/kg)													
cis-1,2-Dichloroethene	1	70	5[a]	1	U	34		1	U	19		18	
trans-1,2-Dichloroethene	1	100	5[a]	1	U	1	U	1	U	1	U	1	U
Trichloroethene	1	5	5[a]	1	U	0.6	J	1	U	1.8		1.6	U
Vinyl Chloride	1	2	2	1	U	2.7	J	1	U	1	U	1	U
Methylene Chloride	1	NA	5[a]	1	U	1	U	1	U	1	U	1	U
Toluene	1	1,000	5[a]	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	1	5	5[b]	1	U	1	U	1	U	16		15	
SVOCs (ug/L)													
Phenol	10	NA	1[a]	10	U	10	U	9	J	1	J	10	U
2,4-Dinithrophenol	10	NA	10[c]/ 1[a]	10	U	10	U	11	U	26	UJ	25	UJ
Diethylphthalate	11	NA	NA	10	U	11	U	10	U	10	U	10	U
4-Nitrophenol	10	NA	1[a]	10	U	10	U	26	UJ	26	UJ	25	UJ
Di-n-butylphthalate	10	NA	50	1	J	11	U	11	U	11	U	10	U
bis (2-Ethylhexyl) phthalate	10	NA	5	12		11	U	1	J	11	U	1	J
Naphthalene	10	NA	10	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	NA	4.7[c]	10	U	10	U	10	U	10	U	10	U
Acenaphthene	10	NA	20	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	10	NA	NA	10	U	10	U	10	U	10	U	10	U
Fluorene	10	NA	50[c]	10	U	10	U	10	U	10	U	10	U
Phenanthrene	10	NA	50[c]	10	U	10	U	10	U	10	U	10	U
Anthracene	10	NA	50[c]	10	U	10	U	10	U	10	U	10	U
PEST/PCBs (ug/L)													
4,4'-DDD	0.1	NA	0.3	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	NA	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
HERBICIDES (ug/L)													
2,4,5-TP (Silvex)	0.5	NA	NA	0.05	UJ	0.1	U	0.05	UJ	0.05	UJ	0.05	UJ
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	1[a]	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Picloram	0.04	500	50	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	UJ
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)													
Aluminum	200	NA	NA	10.2	UJ	9.5	U	40.8	J	19.2	U	56.2	J
Antimony	6	6	3	2.6	UJ	1.6	UJ	6	U	6	U	6	U
Arsenic	10	50	25	2.6	UJ	4.9	U	10	U	10	U	10	U
Barium	200	2,000	1,000	78.8	J	147	J	75.2	J	145	J	152	J
Beryllium	5	4	3[c]	0.1	U	0.2	U	0.1	U	0.1	U	0.1	U
Cadmium	5	5	5	0.2	U	0.3	U	0.3	U	0.4	U	0.3	U
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	U
Copper	25	1,300	200	0.5	UJ	0.5	U	1.5	J	1.2	J	2.1	J
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		ND	
Magnesium	5,000	NA	35,000[c]	18,600	J	37,600	J	43,600	J	37,500		38,600	
Manganese	15	NA	300	85	J	1,080	J	627		659	J	623	
Potassium	5,000	NA	NA	3,360	J	7,820		2,470	J	6,840		6,830	
Silver	10	NA	50	10	U	3.8	UJ	ND		ND		ND	
Sodium	5,000	NA	20,000	6,870	J	63,400	J	86,300	J	76,500		79,400	J
Thallium	10	2	0.5[c]	1.1	U	1.5	U	3.9	UJ	4.6	J	3.9	UJ
Vanadium	50	NA	NA	1.2	U	0.4	U	ND		ND		ND	
Zinc	20	NA	2,000[c]	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

ANALYTE	DETECTION LIMIT[1]	FEDERAL MCL[2]	NY STATE DWQS[3]	BACKGROUND CONC.[4]		SAMPLE NUMBERS							
						6MW-03		6MW-08		6MW-09		6MW-29[5]	
TOTAL INORGANICS (ug/L)													
Aluminum	200	NA	NA	7,050	UJ	927		799		96.8	J	109	J
Antimony	6	6	3	2.3	U	1.6	UJ	6	U	6	U	6	U
Arsenic	10	50	25	6.8	U	3.4	J	ND		ND		ND	
Barium	200	2,000	1,000	198	J	146	B	7.9	J	160	J	156	J
Beryllium	5	4	3[c]	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
Copper	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	
Lead	3	15	25	6.7	J	2		3	U	3	U	3	U
Magnesium	5,000	NA	35,000[c]	21,000	J	32,600		39,500	J	38,100		37,700	
Manganese	15	NA	300	607	J	1,300		599		643		648	
Nickel	40	100	100	20.4	J	5.1	J	3.9	U	3.1	U	3	U
Potassium	5,000	NA	NA	4,680	J	7,180		2,610	J	6,890		6,740	
Selenium	5	50	10	5	U	5	U	2.4	UJ	2.4	UJ	2.9	UJ
Silver	10	NA	50	10	U	3.8	UJ	10	U	10	U	10	U
Sodium	5,000	NA	20,000	8,190		48,400	J	112,000	J	83,500	J	78,300	J
Thallium	10	2	0.5[c]	10	U	1.5	U	3.9	UJ	6.3	J	3.9	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	J

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)
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
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.
107 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 µg/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 µg/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 µg/Kg); 1,3,5-trimethylbenzene (2900 µg/Kg); 4-isopropyltoluene (1630 µg/Kg); ethylbenzene (622 µg/Kg); isopropylbenzene (3900 µg/Kg); n-butylbenzene (604 µg/Kg); n-propylbenzene (1220 µg/Kg); sec-butylbenzene (785 µg/Kg); tert-butylbenzene (491 µg/Kg); and total xylenes (1668 µg/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

ANALYTE	BKGRND CONC.	NYSDEC CLEANUP CONC.[1]	SAMPLE NUMBERS / SAMPLE INTERVALS										
			SB-1 8-8.6'	SB-2 4-6'	SB-3	TW-2[2] 3.5-4'	SB-4 4.4-4.7'	SB-5 3.4-4'	SB-6	SB-7 5-6'	SB-8	SB-9 4-5'	SB-10
VOCs (ug/kg)													
1,2,4-Trimethylbenzene	ND	NA	828	ND	NS	3,310	ND	ND	NS	ND	NS	ND	NS
1,3,5-Trimethylbenzene	ND	NA	254	ND	NS	2,900	ND	ND	NS	ND	NS	ND	NS
4-Isopropyltoluene	ND	NA	2,200	ND	NS	1,630	ND	ND	NS	ND	NS	ND	NS
cis-1,2-Dichloroethene	ND	NA	2,600	ND	NS	ND	ND	ND	NS	ND	NS	ND	NS
Ethylbenzene	ND	5,500	ND	ND	NS	622	ND	ND	NS	ND	NS	ND	NS
Isopropyl benzene	ND	NA	468	ND	NS	3,900	ND	ND	NS	ND	NS	ND	NS
m,p-Xylene	ND	1,200	ND	ND	NS	1,490	ND	ND	NS	ND	NS	ND	NS
n-Butylbenzene	ND	NA	252	ND	NS	604	ND	ND	NS	ND	NS	ND	NS
n-Propylbenzene	ND	NA	180	ND	NS	1,220	ND	ND	NS	ND	NS	ND	NS
O Xylene	ND	NA	ND	ND	NS	178	ND	ND	NS	ND	NS	ND	NS
sec-Butylbenzene	ND	NA	1,980	ND	NS	785	ND	ND	NS	ND	NS	ND	NS
tert-Butylbenzene	ND	NA	441	ND	NS	491	ND	ND	NS	ND	NS	ND	NS
Tetrachoroethene	ND	1,400	ND	40,000	NS	ND	8,480	217	NS	ND	NS	ND	NS
Trichloroethene	ND	700	7,930	ND	NS	ND	ND	ND	NS	ND	NS	32.2	NS

ABBREVIATIONS:

ug/kg - micrograms per kilogram
MCL - Maximum Contaminant Level
MW - Monitoring Well
NA - Not Applicable
ND - Not Detected
NS - Not Sampled
NYSDEC - New York State Dept. of Environm'l Conservation
SB - Soil Boring
TOC - Total Organic Carbon
TW - Temporary Well
VOCs - Volatile Organic Compounds

NOTES:

1) 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.

DATA QUALIFIERS:

Indicates concentration that exceeds State regulatory limits.

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

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.	NYSDEC CLEANUP CONC.[2]	SAMPLE NUMBERS									
				SB-2 4-6'		TW-2 3-4'		TW-22 3-4'		SB-11 2-4'		SB-12 2-4'	
VOCs (ug/kg)													
cis-1,2-Dichloroethene	6	ND	NA	17		6	U	6	U	1	U	200	J
tert-Butylbenzene	6	ND	NA	6	U	6	U	12		1	U	1	U
Trichloroethene	6	ND	700*	14		6	U	1	U	1	U	95	
Ethylbenzene	6	ND	5,500*	6	U	10	J	17	J	1	U	1	U
Isopropyl benzene	6	ND	NA	6	U	69	J	150	J	1	U	1	U
4-Isopropyltoluene	6	ND	NA	6	U	52	J	140	J	1	U	1	U
n-Propylbenzene	6	ND	NA	6	U	84	J	220	J	1	U	1	U
1,1,1,2-Tetrachloroethane	6	ND	NA	7.1		6	U	5.6	U	1	U	1	U
1,3,5-Trimethylbenzene	6	ND	NA	6	U	110	J	380	J	1	U	1	U
1,2,4-Trimethylbenzene	6	ND	NA	6	U	170	J	600	J	1	U	1	U
Tetrachloroethene	6	ND	1,400*	3,600	J	7	J	6	UJ	4	U	520	J
m,p-Xylene	6	ND	1,200*	6	U	49	J	140	J	1	U	1	U
trans-1,2-Dichlorofluromethane	1	ND	NA	6	U	6	U	6	U	1	U	6.2	
Toluene	1	5.4	1,500*	6	U	6	U	6	U	1	U	1.4	J
Trichlorofluromethane	1	ND	NA	6	U	6	U	6	U	1	UJ	1	U
SVOCs (ug/kg)													
Fluoranthene	390	340	50,000**	390	U	44	J	68	J	38	J	390	U
Benzo (b) fluoranthene	390	330	1100	390	UJ	390	UJ	370	UJ	370	U	390	U
2,2'oxibis (1 Chloropane)	390	ND	NA	390	UJ	390	UJ	370	UJ	370	U	390	U
Pentachlorophenol	980	ND	1,000 or MDL	980	R	970	R	930	R	940	U	970	U
n-Nitrosodimethylamine	390	330	NA	390	UJ	390	UJ	370	UJ	370	U	390	U
Pyrene	390	ND	50,000**	390	U	390	UJ	55	J	41	J	390	U
2-Methylnaphthalene	390	ND	36,400	390	U	88	J	370	U	370	U	390	U
Naphthalene	390	ND	13,000	390	U	110	J	370	UJ	370	U	390	U
Hexachlorocyclopentadiene	390	ND	NA	390	UJ	390	UJ	370	U	370	UJ	390	UJ
2,4-Dinitrophenol	390	ND	NA	390	U	390	U	370	U	940	UJ	970	UJ
bis (2-Ethylhexyl) phthalate	390	ND	50,000**	390	U	390	U	370	U	370	U	110	J
Benzo (a) anthracene	390	180	224 or MDL	390	U	390	U	370	U	370	U	390	U
Chrysene	390	250	400	390	U	390	U	370	U	370	U	390	U
Benzo (a) pyrene	390	210	61 or MDL	390	U	390	U	370	U	370	U	390	U
PEST/PCBs (ug/kg)													
4,4'-DDD	3.9	6	2,100	3.9	U	3.9	U	3.7	U	3.8	U	3.9	U
4,4'-DDT	3.7	3	2,100	3.9	U	3.9	U	3.7	U	3.8	U	3.9	U
HERBICIDES (ug/kg)													
2,4-D	0.6	ND	500	0.58	R	0.58	R	0.56	R	0.6	R	0.6	R
2,4,5-TP (Silvex)	0.6	0.24	700	0.58	UJ	0.58	U	0.56	U	0.6	UJ	0.6	UJ
Dinoseb	1.1	ND	NA	1.2	UJ	1.2	U	1.1	U	1.1	R	1.2	R
Picloram	0.5	ND	NA	0.47	UJ	0.46	UJ	0.44	UJ	0.4	UJ	0.5	UJ
CYANIDE, Total (mg/kg)	0.5	ND	ND	ND		ND		ND		ND		ND	
INORGANICS (mg/kg)													
Aluminum	200	15,321	SB	14,200		14,200	J	13,300	J	13,100	J	10,200	J
Antimony	60	17	SB	1.1	U	0.5	U	1	U	2.7	U	1.4	U
Arsenic	2	8	7.5 or SB	16.4	J	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	J
Beryllium	1	0.81	.16 or SB	0.9	J	0.6	J	1	J	0.7	J	0.5	J
Cadmium	1	ND	1 or SB	1.1	J	0.7	J	0.7	J	0.2	J	0.3	J
Calcium	5,000	11,383	SB	2,070	J	3,360		1,840		2,860	J	5,060	J
Chromium	2	23	10 or SB	24.5		16.7		21.6		17.7		14	
Cobalt	50	16	30 or SB	25.9		11.6	J	13.8	J	14.2	J	9	J
Copper	25	42	25 or SB	41.7		24.5		24		32.2		21.1	
Iron	100	33,876	2,000 or SB	40,500		23,200		31,800		30,800	J	19,000	J
Lead	3	45	SB	25.6	J	15.9	J	10	J	20.2		12.3	
Magnesium	5,000	8,120	SB	6,690		4,420		4,990		4,600		4,480	J
Manganese	15	855	SB	838		464		363		535	J	205	J
Nickel	40	29	13 or SB	59.7		21.4		24.6		30	J	18.9	
Potassium	5,000	1,930	SB	2,280	B	1,370	J	1,910	J	1,760	J	1,590	
Silver	2	ND	SB	0.6		0.6	U	0.7	U	1.3	J	1	J
Sodium	5,000	380	SB	232		192	U	39.3	U	67	U	66	U
Thallium	10	ND	SB	0.5		1.1	U	0.5	U	1.8	U	0.9	U
Vanadium	50	30	150 or SB	25.2		21.9		32.8		28		20.9	
Zinc	20	116	20 or SB	132		75.2		75.4		75.35	J	56.3	J

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

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.	NYSDEC CLEANUP	SAMPLE NUMBERS									
				SB-13		SB-14		SB-15		SB-55[4]		SB-16	
VOCs (ug/kg)													
cis-1,2-Dichloroethene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
tert-Butylbenzene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
Trichloroethene	6	ND	700*	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	6	ND	5,500*	1	U	1	U	1	U	1	U	1	U
Isopropyl benzene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
4-Isopropyltoluene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
n-Propylbenzene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
1,1,1,2-Tetrachloroethane	6	ND	NA	1	U	1	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
1,2,4-Trimethylbenzene	6	ND	NA	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	6	ND	1,400*	1	U	1	U	1	U	1	U	1	U
m,p-Xylene	6	ND	1,200*	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichlorofluromethane	1	ND	NA	1	U	1	U	1	U	1	U	1	U
Toluene	1	5.4	1,500*	1	U	1	U	1	U	0.8	U	1	U
Trichlorofluromethane	1	ND	NA	1	U	1	U	1	U	1	U	1	U
SVOCs (ug/kg)													
Fluoranthene	390	340	50,000**	410	U	390	U	60	J	410	U	94	J
Benzo (b) fluoranthene	390	330	1,100	410	U	390	U	55	J	410	U	78	J
2,2'oxibis (I Chloropane)	390	ND	NA	410	U	390	U	370	U	410	U	390	U
Pentachlorophenol	980	ND	1,000 or MDL	1,000	U	970	U	920	U	1,000	U	970	U
n-Nitrosodimethylamine	390	330	NA	410	U	390	U	370	U	410	U	390	U
Pyrene	390	ND	50,000**	410	U	48	J	70	J	410	U	98	J
2-Methylnaphthalene	390	ND	36,400	410	U	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	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	U	54	J	370	U	410	U	45	J
Chrysene	390	250	400	410	U	390	U	370	U	410	U	47	J
Benzo (a) pyrene	390	210	61 or MDL	410	U	39	J	40	J	410	U	52	J
PEST/PCBs (ug/kg)													
4,4'-DDD	3.9	6	2,100	4	U	0.7	U	2.8	J	2.1	U	3.9	U
4,4'-DDT	3.7	3	2,100	4	U	3.9	U	0.9	J	4.1	U	3.9	U
HERBICIDES (ug/kg)													
2,4-D	0.6	ND	500	0.6	R	0.6	R	0.5	R	0.6	R	0.6	R
2,4,5-TP (Silvex)	0.6	0.24	700	0.6	UJ	0.6	UJ	0.5	UJ	0.6	R	0.6	UJ
Pentachlorophenol (P CP)	1.1	ND	1,000 or MDL	1.2	R	1.2	R	1.1	R	1.2	R	1.2	R
Dinoseb	1.1	ND	NA	1.2	R	1.2	R	1.1	R	1.2	R	1.2	R
Picloram	0.5	ND	NA	0.5	UJ	0.5	UJ	0.4	UJ	0.5	UJ	0.5	UJ
CYANIDE, Total (mg/kg)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INORGANICS (mg/kg)													
Aluminum	200	15,321	SB	14,600	J	14,000	J	[redacted]		[redacted]		11,000	J
Antimony	60	17	SB	2.9	U	2.8	U	2.6	U	2.9	U	1.4	U
Arsenic	2	8	7.5 or SB	8	J	[redacted]		[redacted]		[redacted]		6.2	
Barium	200	97	300 or SB	93.6	J	65.5	J	116	J	124	J	80	J
Beryllium	1	0.81	.16 or SB	0.8	J	0.7	J	[redacted]		[redacted]		[redacted]	
Cadmium	1	ND	1 or SB	0.1	U	0.2	J	0.5	J	0.9	J	0.2	J
Calcium	5,000	11,383	SB	2,250	J	1,590	J	7,020	J	6,010	J	5,210	J
Chromium	2	23	10 or SB	17.4		21.8		19.4		22.5		13.5	
Cobalt	50	16	30 or SB	9.5	J	15.6	J	9.4	J	10.6	J	10.2	J
Copper	25	42	25 or SB	24		31.7		22.8		24.2		20	
Iron	100	33,876	2,000 or SB	27,900	J	24,000	J	32,100	J	33,600	J	22,200	J
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	J
Manganese	15	855	SB	421	J	661	J	418	J	551	J	522	J
Nickel	40	29	13 or SB	23.0		[redacted]		21.5		23.5	J	15.6	
Potassium	5,000	1,930	SB	1,710	J	[redacted]		1,520	J	1,890	J	1,380	
Silver	2	ND	SB	1.4	U	1.3	U	1.6	J	1.7	J	1	J
Sodium	5,000	380	SB	72.2	U	69.2	U	64	U	72	U	33.8	U
Thallium	10	ND	SB	1.9	U	1.8	U	1.7	U	1.9	U	0.9	U
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	J

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
NYSDEC - NewYorkStateDept.ofEnviroConserv'n
PCBs - Polychlorinated Biphenyls
SB - Soil Boring
SVOCs - Semi-Volatile Organic Compounds
TAGM - Technical&AdministrativeGuidanceMemo
VOCs - Volatile Organic Compounds

NOTES:

1) Contract Required Detection Limit (CRDL)
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.
3) TW-22 is a duplicate sample of TW-2
4) SB-55 is a duplicate sample of SB-15
*) As per TAGM #4046, total VOCs < 10 ppm.
**) As per TAGM #4046, total VOCs < 10 ppm, total SVOCs < 500 ppm, and individual SVOCs < 50 ppm must be maintained for the listed NYSDEC concentrations to apply.

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.
[redacted] Indicates concentration that exceeds either State or Federal regulatory limits.

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

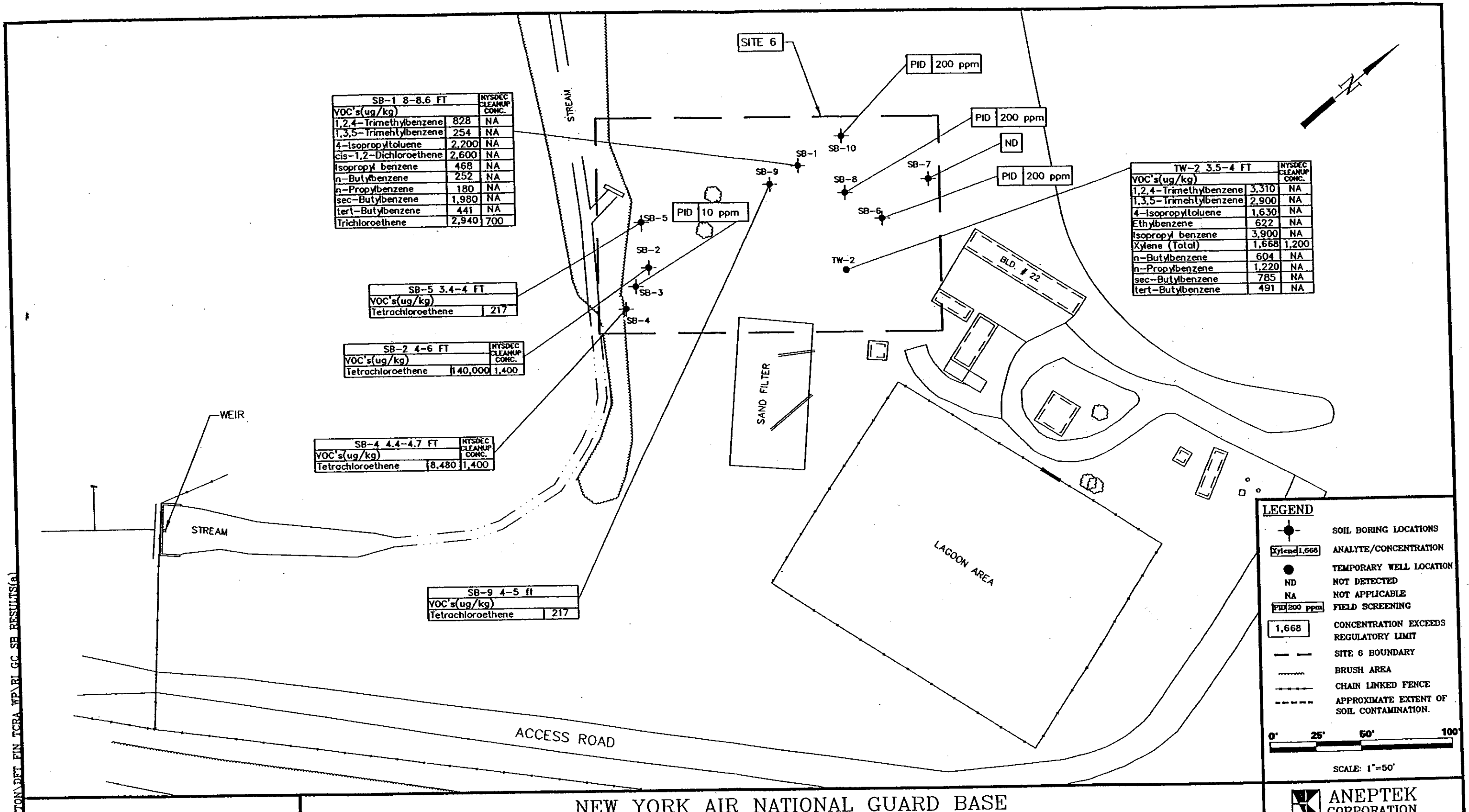
Within Site 6, the RI revealed three apparently separate and distinct soil contaminant locations. The dominant Contaminants of Concern (COCs) within these three areas are inorganics and volatile organic compounds. These areas, identified by their specific soil contaminant in reference to a soil boring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



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RI SOIL SAMPLE GC SCREENING RESULTS SUMMARY SITE-6
SCOTIA, NEW YORK

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FIGURE: 3-5

SB-11 2-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
INORGANICS			
Arsenic	11.2	SB	8
Nickel	30	SB	29

SB-2 4-6 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
ORGANICS			
cis-1,2-Dichloroethene	17	NA	ND
Trichloroethene	14	5,500	ND
1,1,1,2-Tetrachloroethane	7.1	NA	ND
Tetrachloroethene	8,600	1,400	ND
INORGANICS			
Arsenic	16.4 J	SB	8
Beryllium	0.9 J	SB	0.81
Cadmium	1.1 J	1	ND
Chromium	24.5	SB	23
Copper	48.8	SB	42
Iron	40,500	SB	35,876
Manganese	888	SB	855
Nickel	59.7	SB	29
Potassium	2,280B	SB	1,930
Zinc	132	SB	116

SB-12 2-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
ORGANICS			
cis-1,2-Dichloroethene	200 J	NA	ND
Trichloroethene	95	700	ND
Tetrachloroethene	520	1,400	ND
trans-1,2-Dichlorofluromethane	6.2	NA	ND
Toluene	1.4	1,500	5.4
bis(2-Ethylhexyl) phthalate	110	50,000	ND
INORGANICS			
No Exceedances			

SB-13 2-4 ft	
ORGANICS	ND
INORGANICS	
No Exceedances	

SB-16 2-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
INORGANICS			
Beryllium	1.0 J	SB	.81

SB-15 2-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
ORGANICS	ND		
INORGANICS			
Aluminum	19,800J	SB	15,321
Arsenic	9.2	SB	8
Barium	124	300	97
Beryllium	1.0 J	SB	.81
Vanadium	38	30	150

TW-2 3-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
ORGANICS			
Ethylbenzene	10 J	5,500	ND
Isopropyl benzene	69 J	NA	ND
4-Isopropyltoluene	52 J	NA	ND
n-Propylbenzene	84 J	NA	ND
1,3,5-Trimethylbenzene	110 J	NA	ND
1,2,4-Trimethylbenzene	170 J	NA	ND
Tetrachloroethene	7 J	1,400	ND
m,p-Xylene	49 J	1,200	ND
Fluoranthene	44 J	NA	340

SB-14 2-4 FT		NYSDEC CLEANUP CONC.	BCK.GRND CONC.
ORGANICS	ND		
INORGANICS			
Arsenic	10.4 J	SB	8
Nickel	35	SB	29
Potassium	2,150	SB	1,930

SITE 6

STREAM

SAND FILTER

LAGOON AREA

ACCESS ROAD

WEIR

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 SB-9 SB-10 SB-11 SB-12 SB-13 SB-14 SB-15 SB-16 TW-2

NS ND

LEGEND

- SOIL BORING WELL LOCATIONS
- 50.1 — CONCENTRATION EXCEEDS REGULATORY LIMIT
- Nickel 35 — ANALYTE/CONCENTRATION
- TEMPORARY WELL LOCATION
- ND — NOT DETECTED
- NA — NOT APPLICABLE
- SB — SITE BACKGROUND
- SITE 6 BOUNDARY
- BRUSH AREA
- CHAIN LINKED FENCE
- APPROXIMATE EXTENT OF SOIL CONTAMINATION.

0' 25' 50' 100'

SCALE: 1"=50'

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RI SOIL SAMPLE ANAYTICAL RESULTS SUMMARY SITE-6
SCOTIA, NEW YORK

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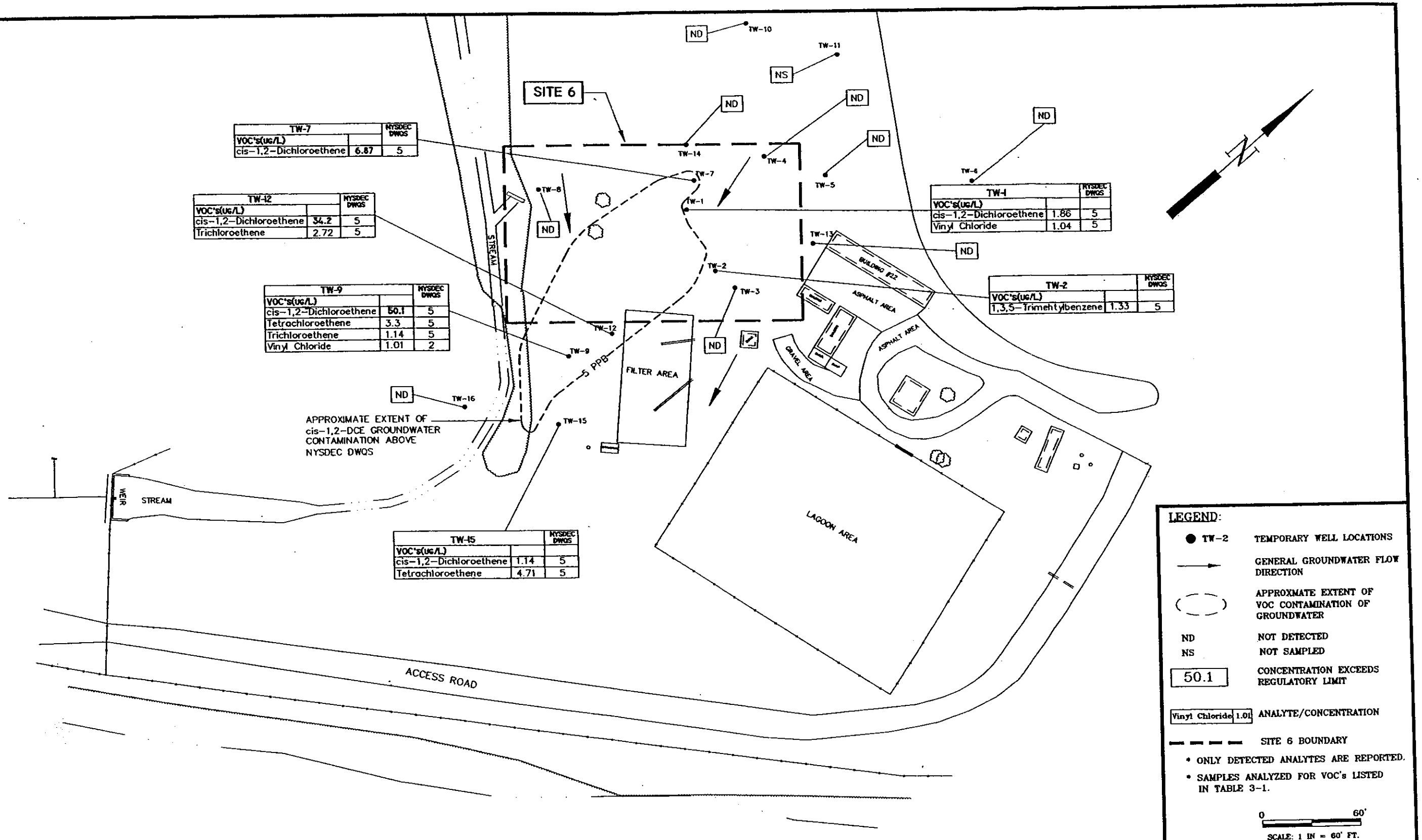
FIGURE: 3-6

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 1.33µg/L, below the NYSDEC drinking water standard of 5 µg/L. In monitoring well 6MW-03, located directly down gradient from TW-2, gasoline fuel constituents were not detected during the RI.



TW-7		NYSDEC DWQS
VOC's(UG/L)		
cis-1,2-Dichloroethene	6.87	5

TW-12		NYSDEC DWQS
VOC's(UG/L)		
cis-1,2-Dichloroethene	34.2	5
Trichloroethene	2.72	5

TW-9		NYSDEC DWQS
VOC's(UG/L)		
cis-1,2-Dichloroethene	50.1	5
Tetrachloroethene	3.3	5
Trichloroethene	1.14	5
Vinyl Chloride	1.01	2

TW-15		NYSDEC DWQS
VOC's(UG/L)		
cis-1,2-Dichloroethene	1.14	5
Tetrachloroethene	4.71	5

TW-1		NYSDEC DWQS
VOC's(UG/L)		
cis-1,2-Dichloroethene	1.86	5
Vinyl Chloride	1.04	5

TW-2		NYSDEC DWQS
VOC's(UG/L)		
1,3,5-Trimehtylbenzene	1.33	5

LEGEND:

- TW-2 — TEMPORARY WELL LOCATIONS
- GENERAL GROUNDWATER FLOW DIRECTION
- APPROXMATE EXTENT OF VOC CONTAMINATION OF GROUNDWATER
- ND — NOT DETECTED
- NS — NOT SAMPLED
- 50.1 — CONCENTRATION EXCEEDS REGULATORY LIMIT
- Vinyl Chloride | 1.01 — ANALYTE/CONCENTRATION
- SITE 6 BOUNDARY

* ONLY DETECTED ANALYTES ARE REPORTED.
* SAMPLES ANALYZED FOR VOC's LISTED IN TABLE 3-1.

0 60'

SCALE: 1 IN = 60' FT.

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RI TEMPORARY WELL GC SCREENING RESULTS SUMMARY-SITE 6
SCOTIA, NEW YORK

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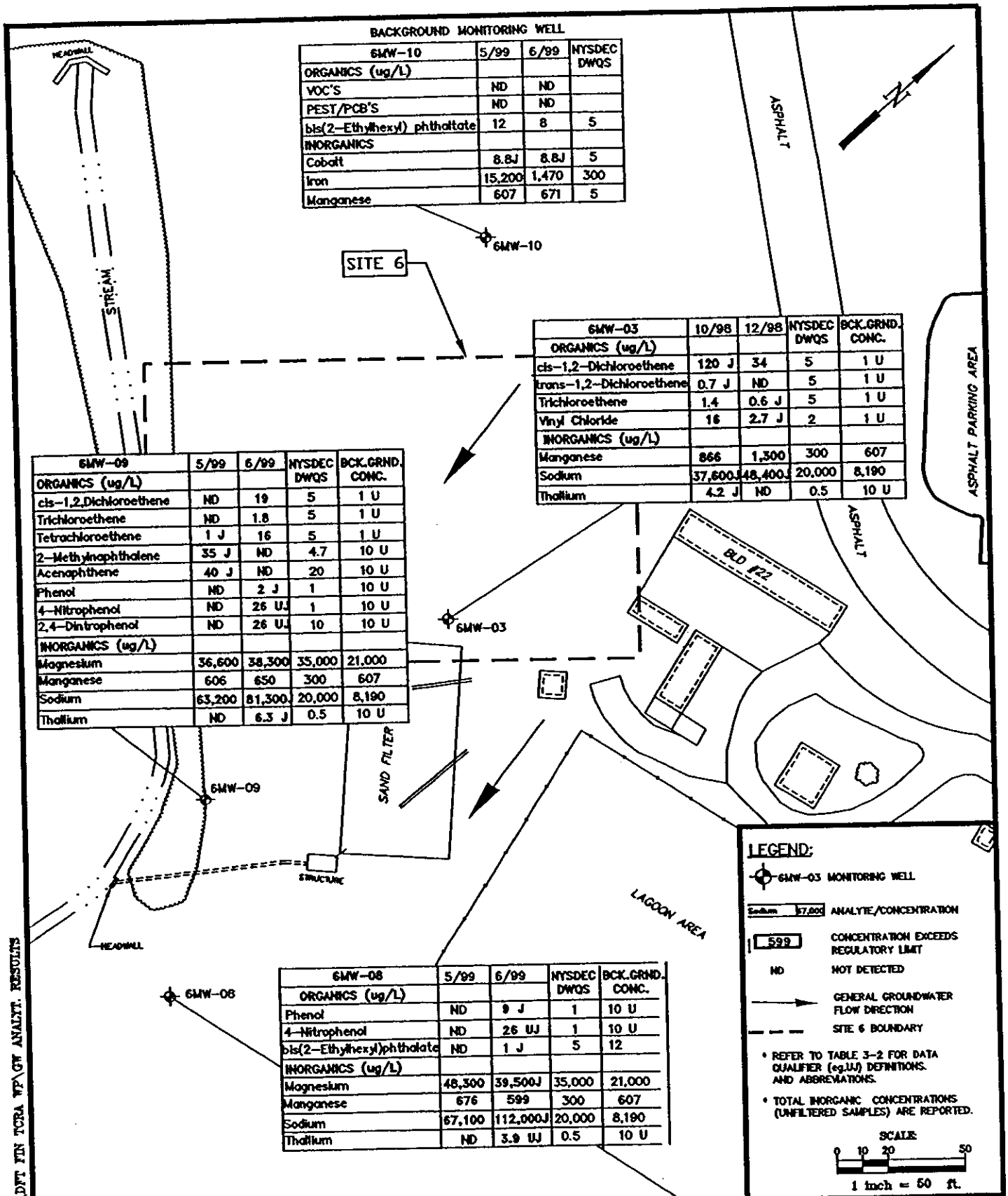
FIGURE: 3-7

C:\DRAW\STRATTON\DET_FIN_TCRA_WP\RI_TW_SCREENING_RESULTS_SITE6



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RI GROUNDWATER ANALYTICAL RESULTS
SUMMARY - SITE 6
SCOTIA, NEW YORK

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FIGURE: 3-8

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

ARARS	SYNOPSIS
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

ARARS	SYNOPSIS
State ARARs	
1. New York State Rules for Inactive Hazardous Waste Sites 6 NYCRR Subpart 375	This regulation includes the New York State regulations for inactive hazardous waste sites.
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 human health and the environment. 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 6 NYCRR Part 373	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 ARARs if a remedial action is implemented.

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

ARARS	SYNOPSIS
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 alternative is available. If no alternative is available, impacts from 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 et seq. (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 birds.

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

CRITERIA	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	EPA 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)		Sediment Criteria (b)					
			Aquatic Toxicity		Human Health		Wildlife Residue	
Metals (mg/kg)								
Aluminum	SB							
Antimony	SB							
Arsenic	7.5 or SB		5					
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					
Selenium	2 or SB							
Silver	SB							
Thallium	SB							
Vanadium	150 or SB							
Zinc	20 or SB		85					
Semivolatile Organics (mg/kg)								
Acenaphthene	50	c,e	7.3	c				
Anthracene	50	c,e						
Benz(a)anthracene	0.224 or MDL	c,e			0.007	c		
Benzo(b)fluoranthene	1.1	c,e			0.007	c		
Benzo(k)fluoranthene	1.1	c,e			0.007	c		
Benzo(g,h,i)perylene	50	c,e						
Benzo(a)pyrene	0.061 or MDL	c,e			0.007	c		
Chrysene	0.4	c,e			0.007	c		
Dibenz(a,h)anthracene	0.014 or MDL	c,e						
Dibenzofuran	6.2	c,e						
Fluoranthene	50	c,e						
Fluorene	50	c,e						
Indeno(1,2,3-c,d)pyrene	3.2	c,e			0.007	c		
2-Methylnaphthalene	36.4	c,e						
Naphthalene	13	c,e						
Phenanthrene	50	c,e	1.39	c				
Pyrene	50	c,e						

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

Parameters	Soil Criteria (a)		Sediment Criteria (b)					
			Aquatic Toxicity		Human Health		Wildlife Residue	
Volatile Organics (mg/kg)								
Benzene	0.06	c,d			0.006	c		
Chlorobenzene	1.7	c,d	0.035	c				
Ethylbenzene	5.5	c,d						
Toluene	1.5	c,d						
Xylenes (total)	1.2	c,d						
1,2-Dichlorobenzene	7.9	c,d	0.12	c				
1,3-Dichlorobenzene	1.6	c,d	0.12	c				
1,4-Dichlorobenzene	8.5	c,d	0.12	c				
1,2,4-Trichlorobenzene	3.4	c,d	0.91	c				

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 soil 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

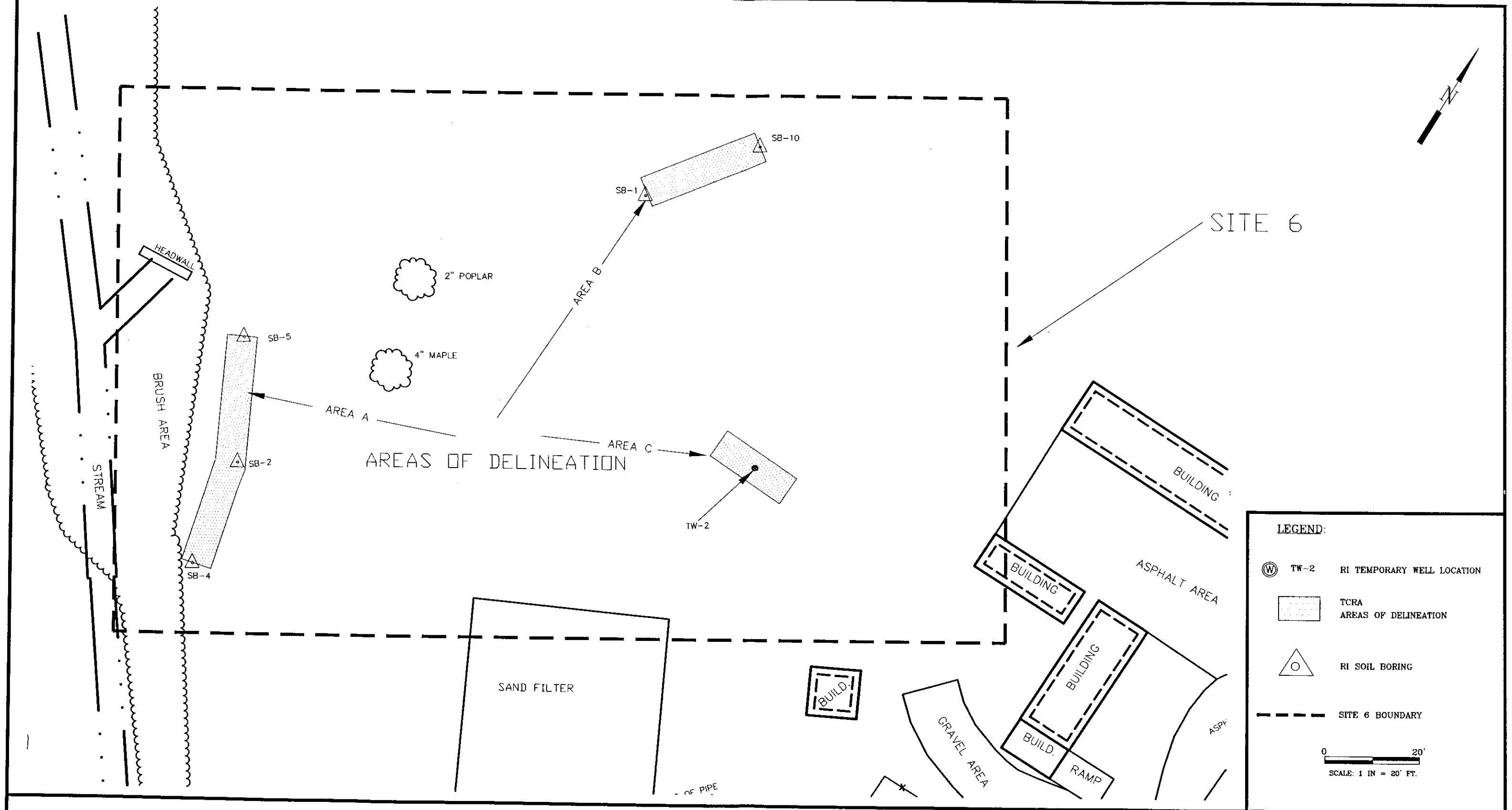

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FIGURE: 5–1

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.

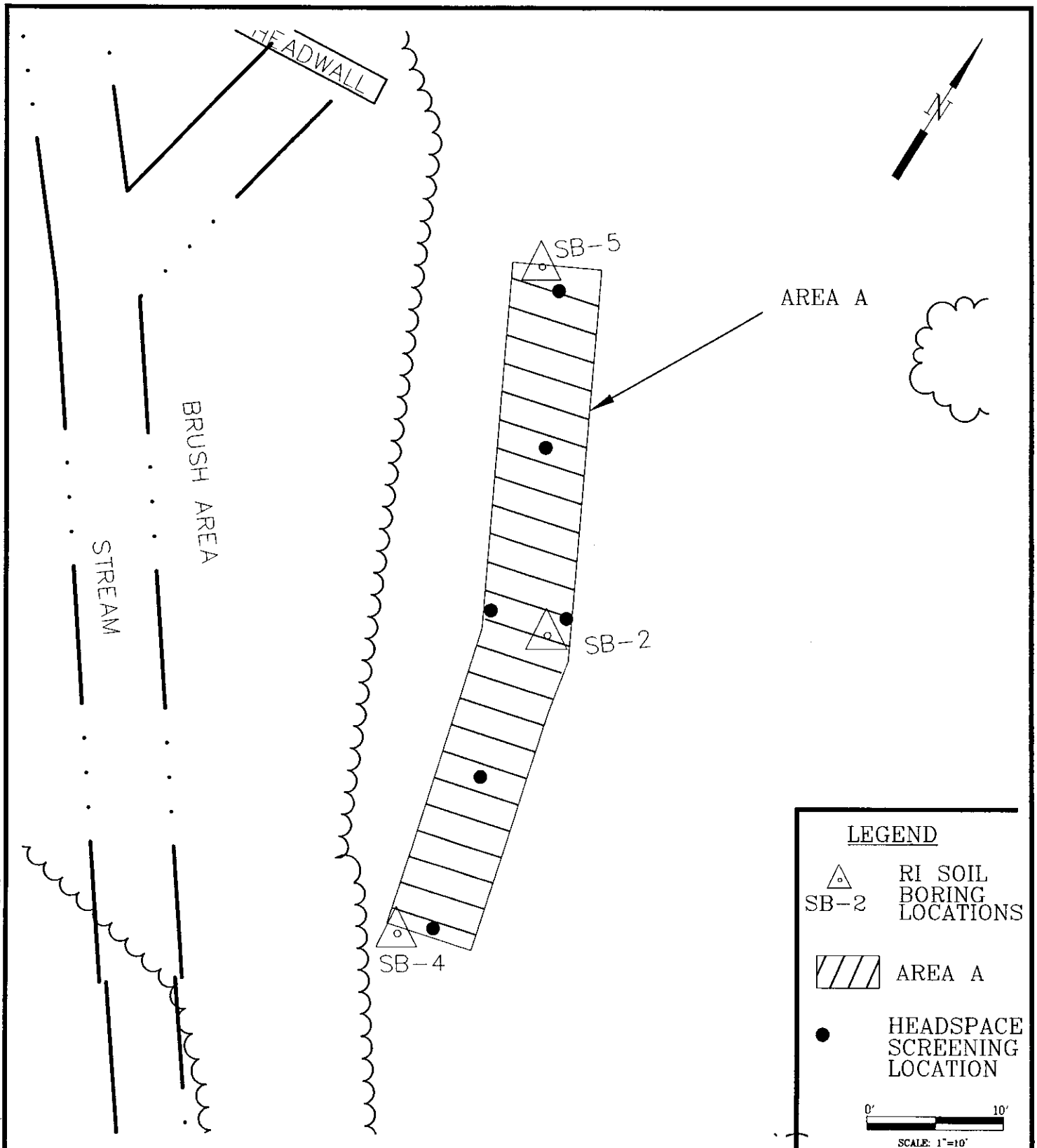
5.6 Equipment Decontamination

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,



C:\DRAW\STRATTON\DFT TCRA COMP REP FIG 4-2

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HEADSPACE SCREENING LOCATIONS–AREA A
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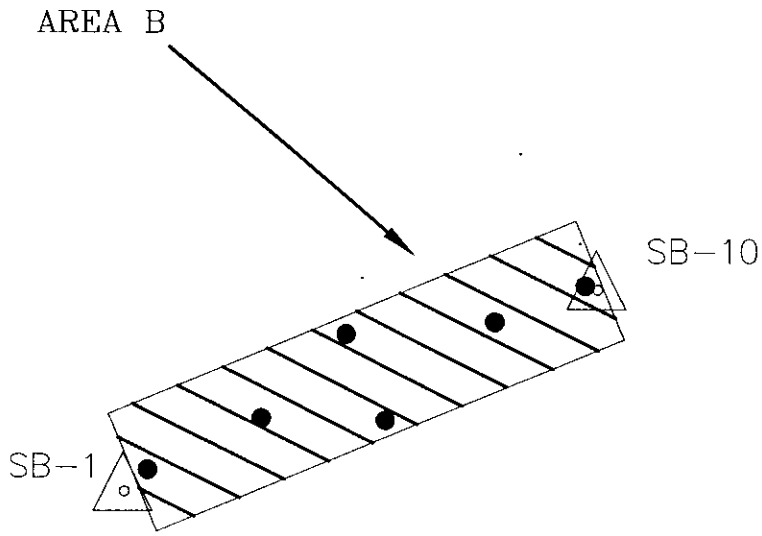
FIGURE: 5-2



LEGEND

SB-1 RI SOIL BORING LOCATIONS

AREA B

HEADSPACE SCREENING LOCATION

0' 10'

SCALE: 1"=10'

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HEADSPACE SCREENING LOCATIONS-AREA B
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FIGURE: 5-3

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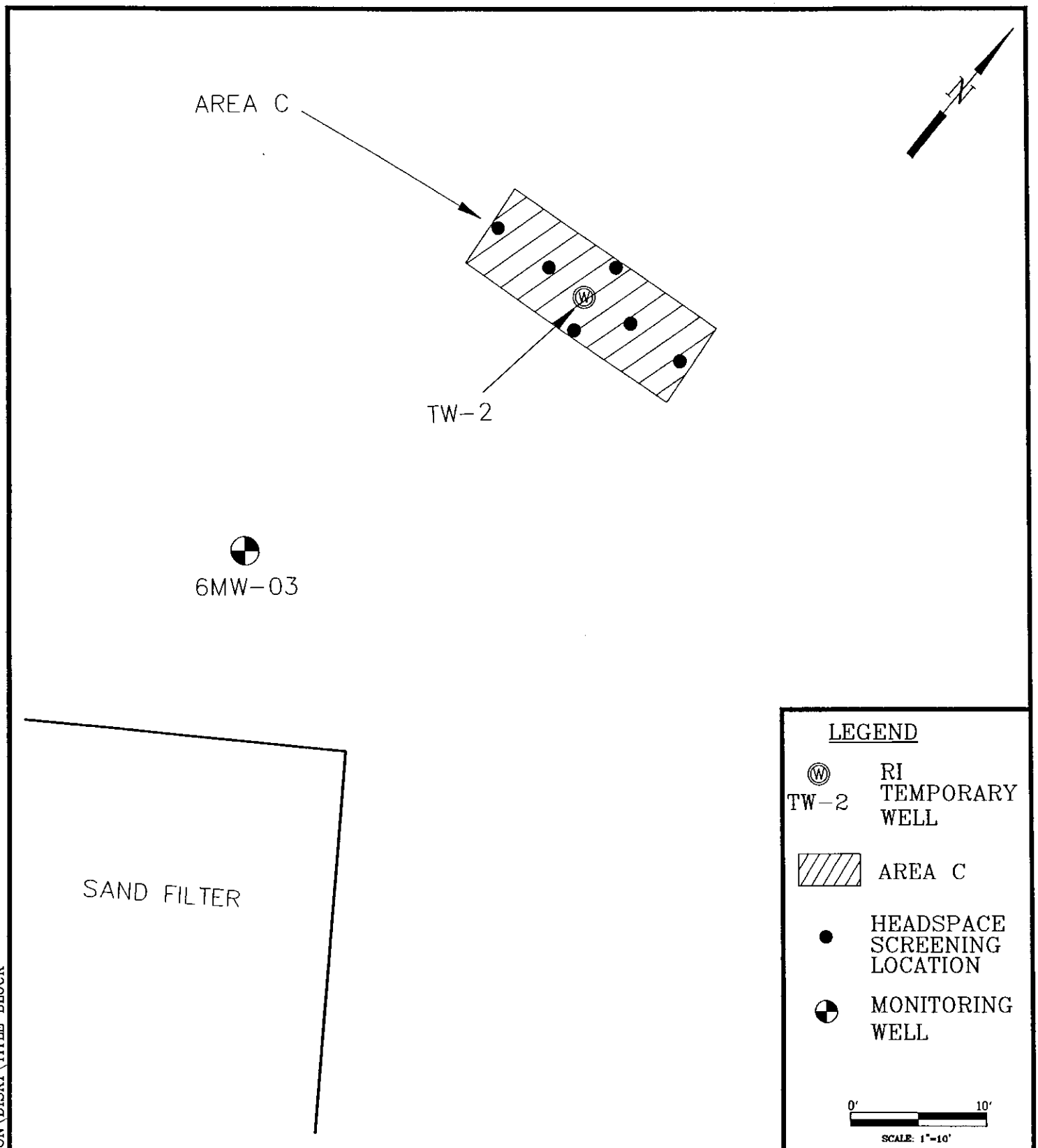

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HEADSPACE SCREENING LOCATIONS-AREA C
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FIGURE: 5-4

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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

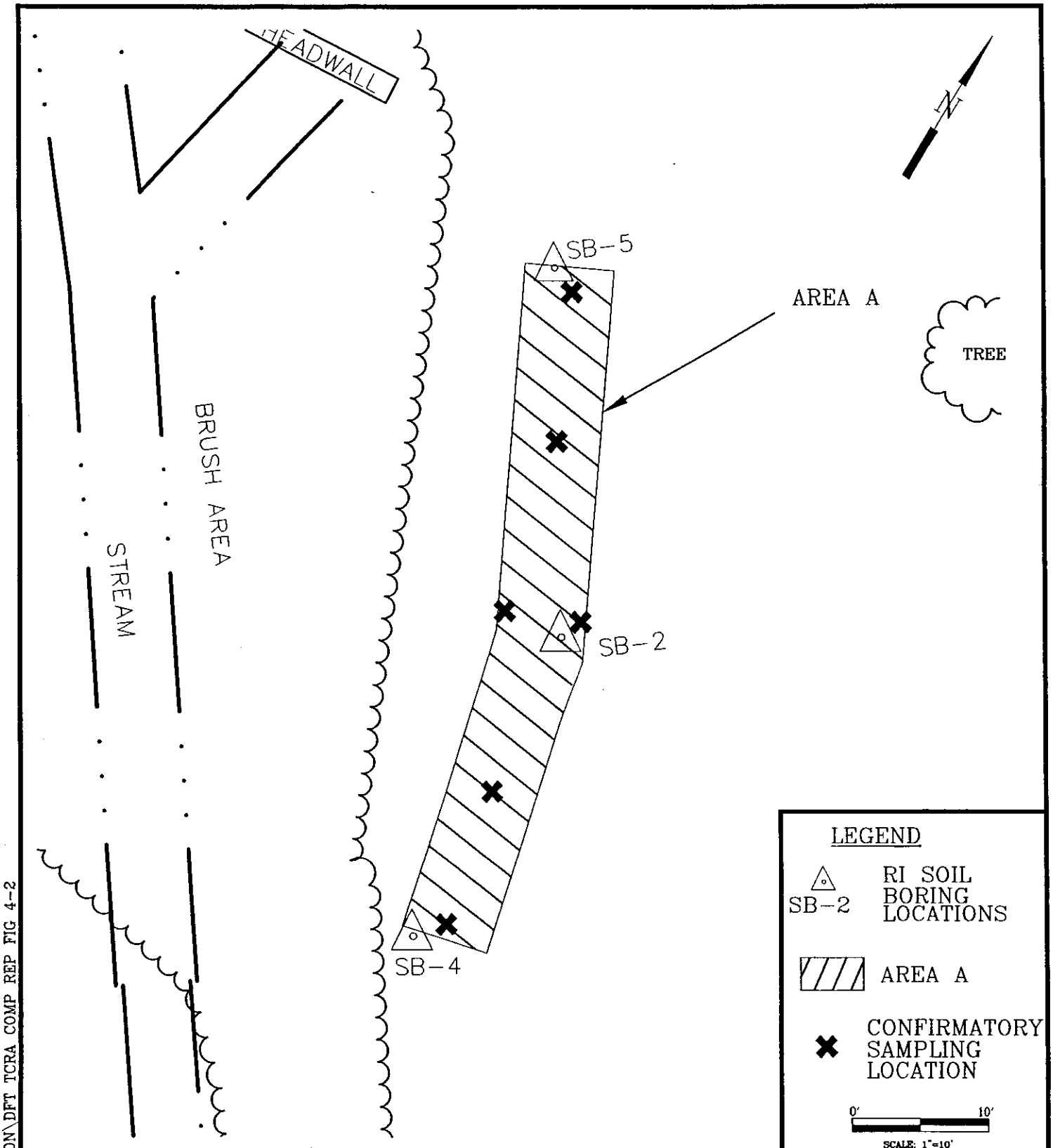
To complete the removal action activities, the excavations were backfilled using an off-site borrow material supplied by PIM Inc. Backfill material was clean and free of boulders and organic debris. The backfill material was screened for total VOCs by PID headspace screening methods prior to placement. 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 de-contamination 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.



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CONFIRMATORY SAMPLING LOCATIONS–AREA A
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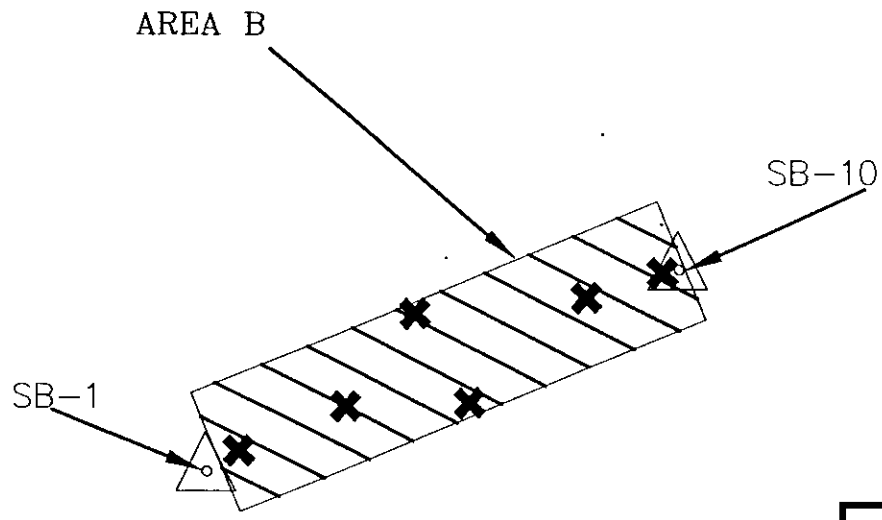
FIGURE: 5-5

C:\DRAW\STRATTON\DFT TCRA COMP REP FIG 4-2



LEGEND

SB-1 RI SOIL BORING LOCATIONS

AREA B

CONFIRMATORY SAMPLING LOCATION

0' 10'

SCALE: 1"=10'

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FIGURE: 5-6

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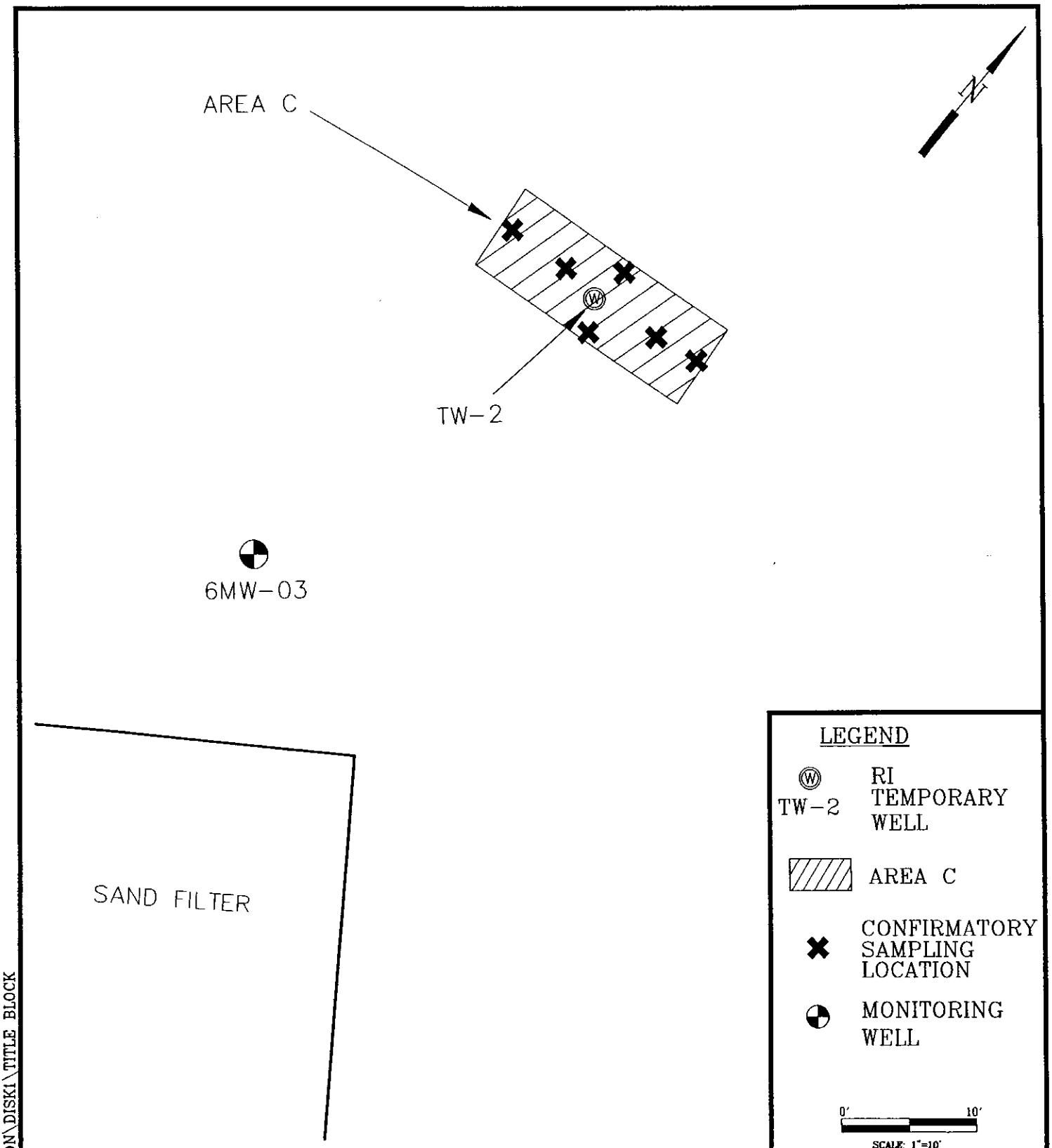

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CONFIRMATORY SAMPLING LOCATIONS-AREA C
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FIGURE: 5-7

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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	**TPH**
Sample Type	**Composite**
Soil Quantity (yd^3) 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

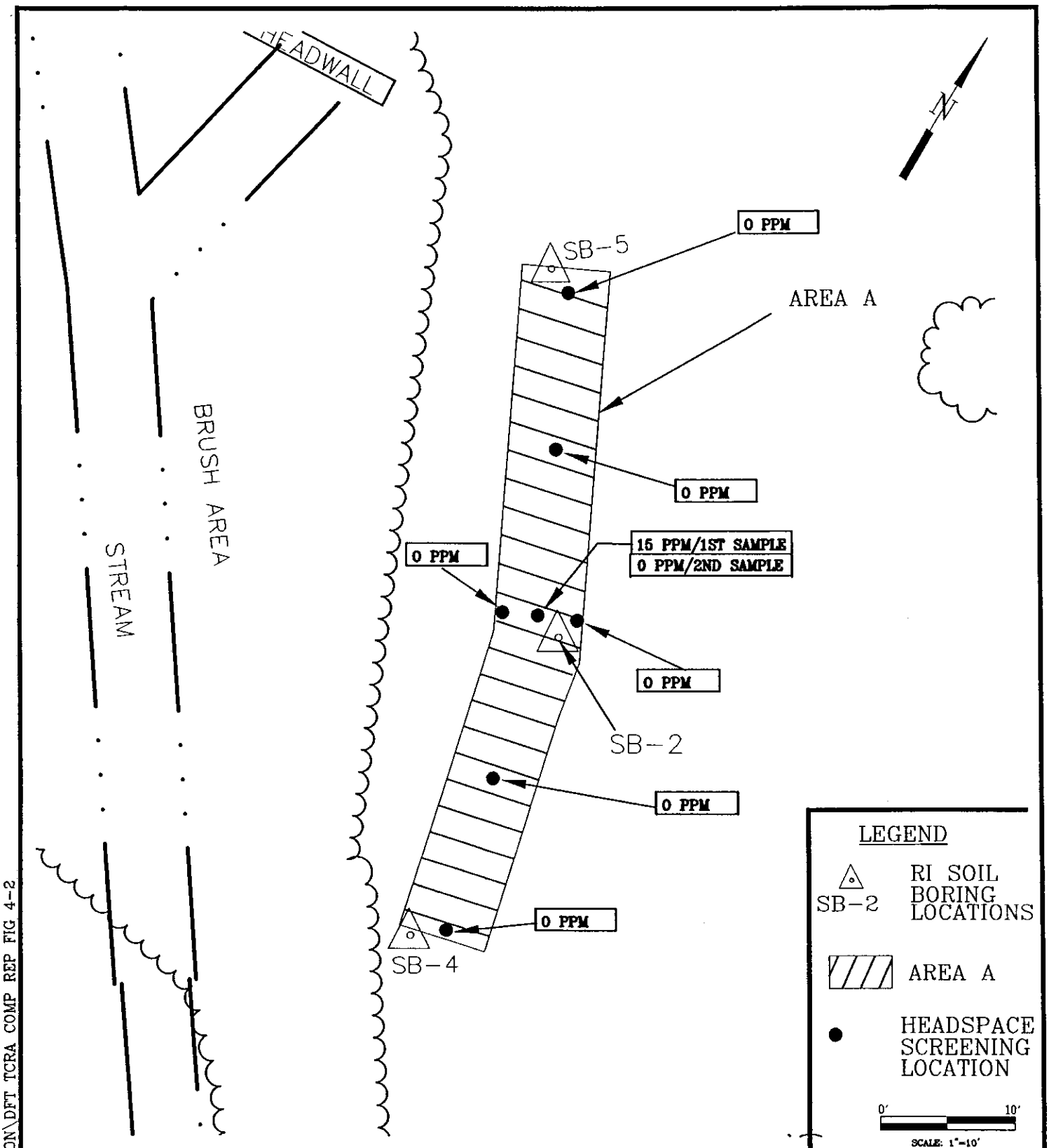
During the excavation of Areas A, B, and C, soil samples were collected and screened in the field with a PID using headspace screening methods. Headspace samples were collected from the sidewalls and bottom of each area unless a specific location indicated possible contamination, either through visual 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



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HEADSPACE SCREENING RESULTS–AREA A
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FIGURE: 6–1

C:\DRAW\STRATTON\DFT TCRA COMP REP FIG 4-2

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

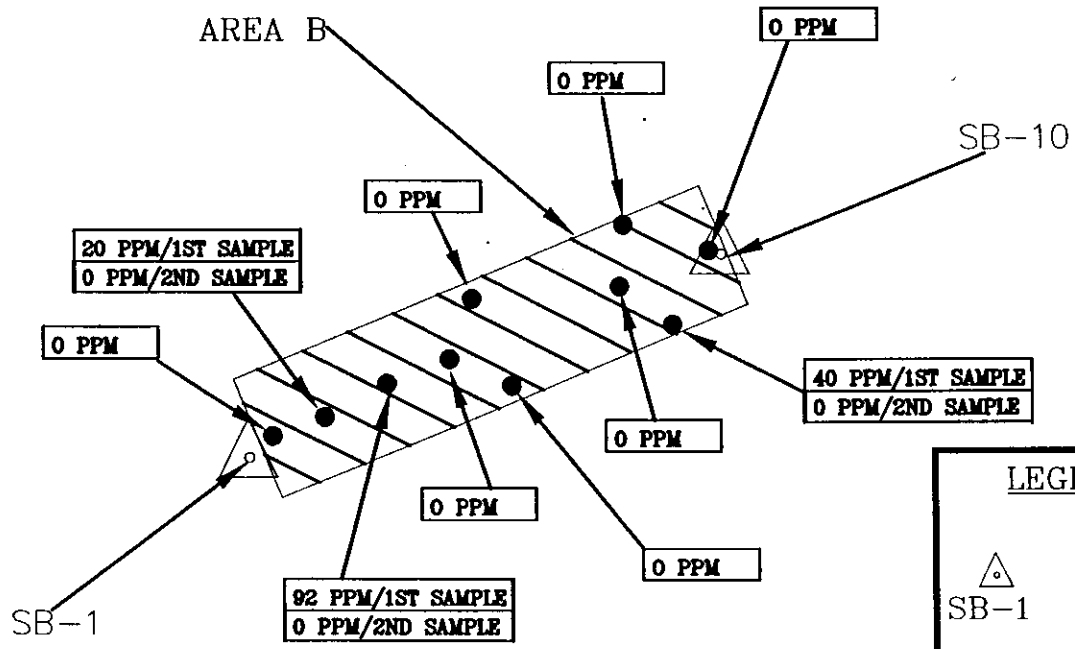
Continuous ambient air monitoring was conducted during the excavation and loading of soils throughout this TCRA in accordance with the NYSDOH Community Air Monitoring Plan (CAMP). In accordance with this plan, the ambient air surrounding the areas of excavation, both upwind and downwind, was continuously 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/m^3), 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/m^3, below the CAMP ambient air standard of 0.1 mg/m^3 for a sustained



LEGEND

SB-1 RI SOIL BORING LOCATIONS

AREA B

HEADSPACE SCREENING LOCATION

0 PPM PARTS PER MILLION

0' 10'

SCALE: 1"=10'

NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
HEADSPACE SCREENING RESULTS-AREA B
SCOTIA, NEW YORK

ANEPTEK CORPORATION
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FIGURE: 6-2

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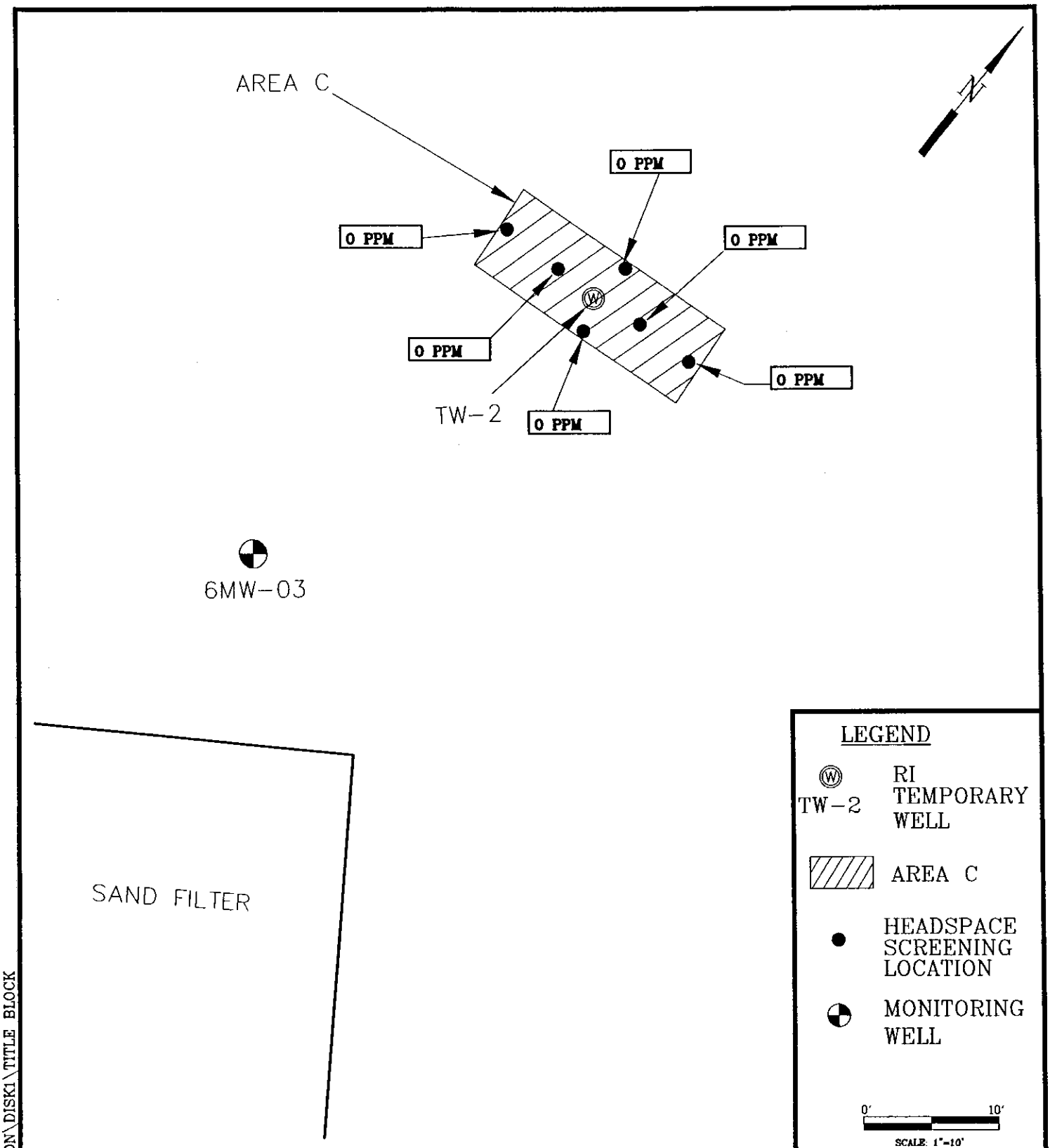

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109th AIRLIFT WING
HEADSPACE SCREENING RESULTS–AREA C
SCOTIA, NEW YORK

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FIGURE: 6-3

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15 minute period.

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 yd^3
Area B	54 yd^3
Area C	28 yd^3

6.4.1 Area A

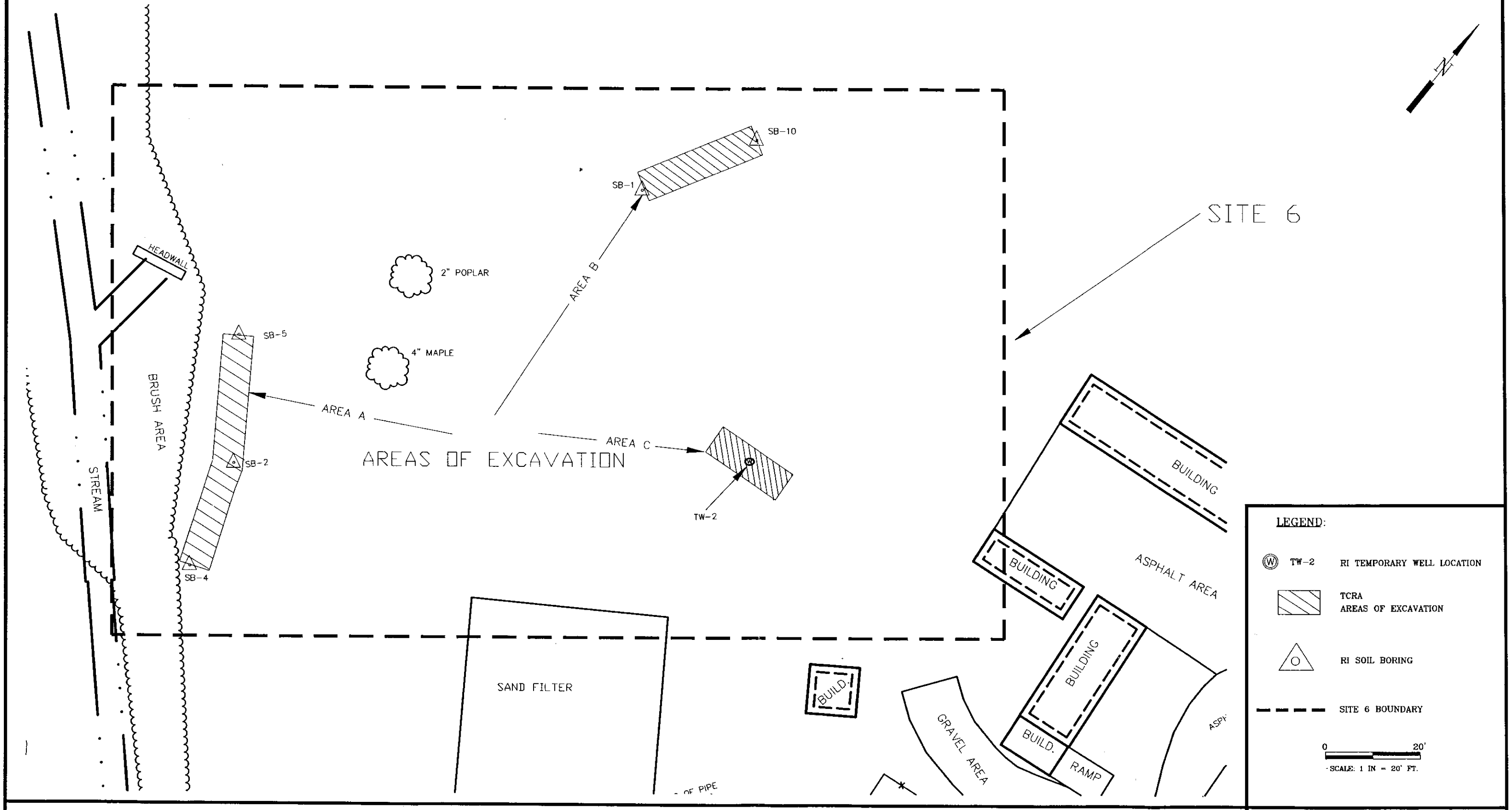
Excavation of Area A began at the southern end (delineated by SB-4) of the delineated area and proceeded in a north/northeast direction until the terminus at SB-5. The final area of excavation measured approximately 50' x 7' x 6'. Area A was delineated prior to the start of excavation to include the 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



NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
AREAS OF EXCAVATION–SITE 6
SCOTIA, NEW YORK

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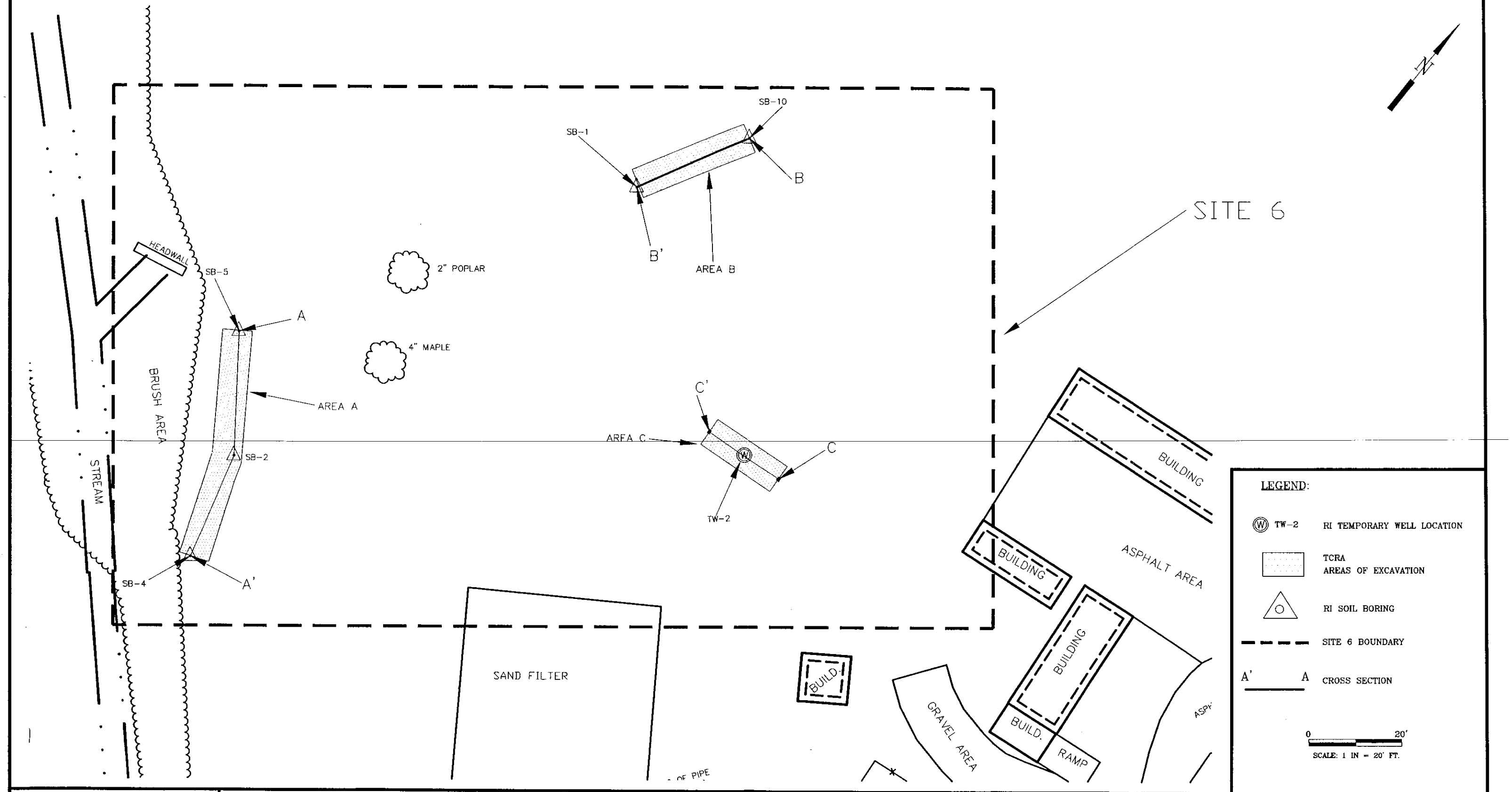
FIGURE: 6–4



NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
LOCATIONS OF CROSS SECTIONS-SITE 6
SCOTIA, NEW YORK

ANEPTEK CORPORATION
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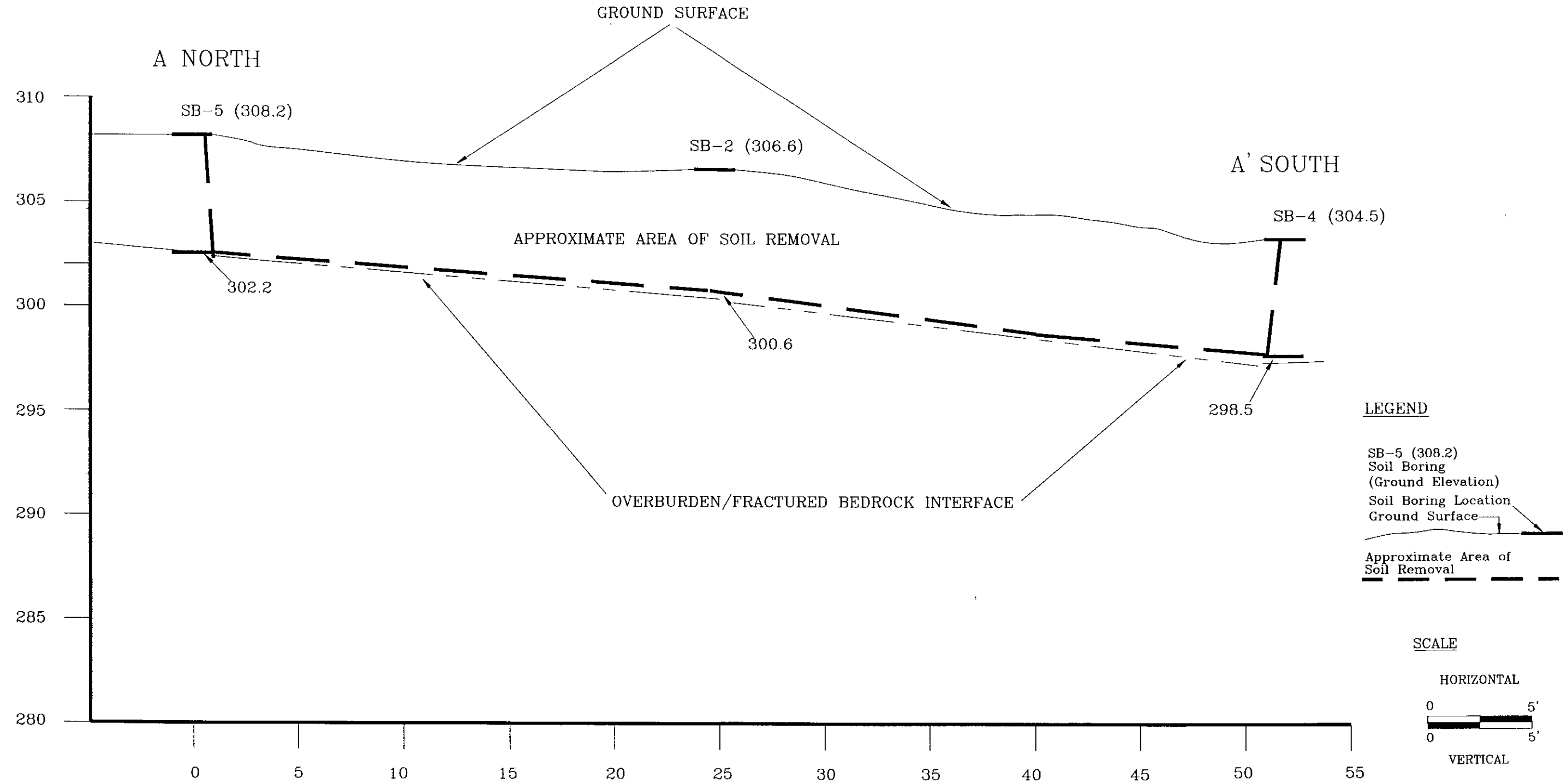
FIGURE: 6-5



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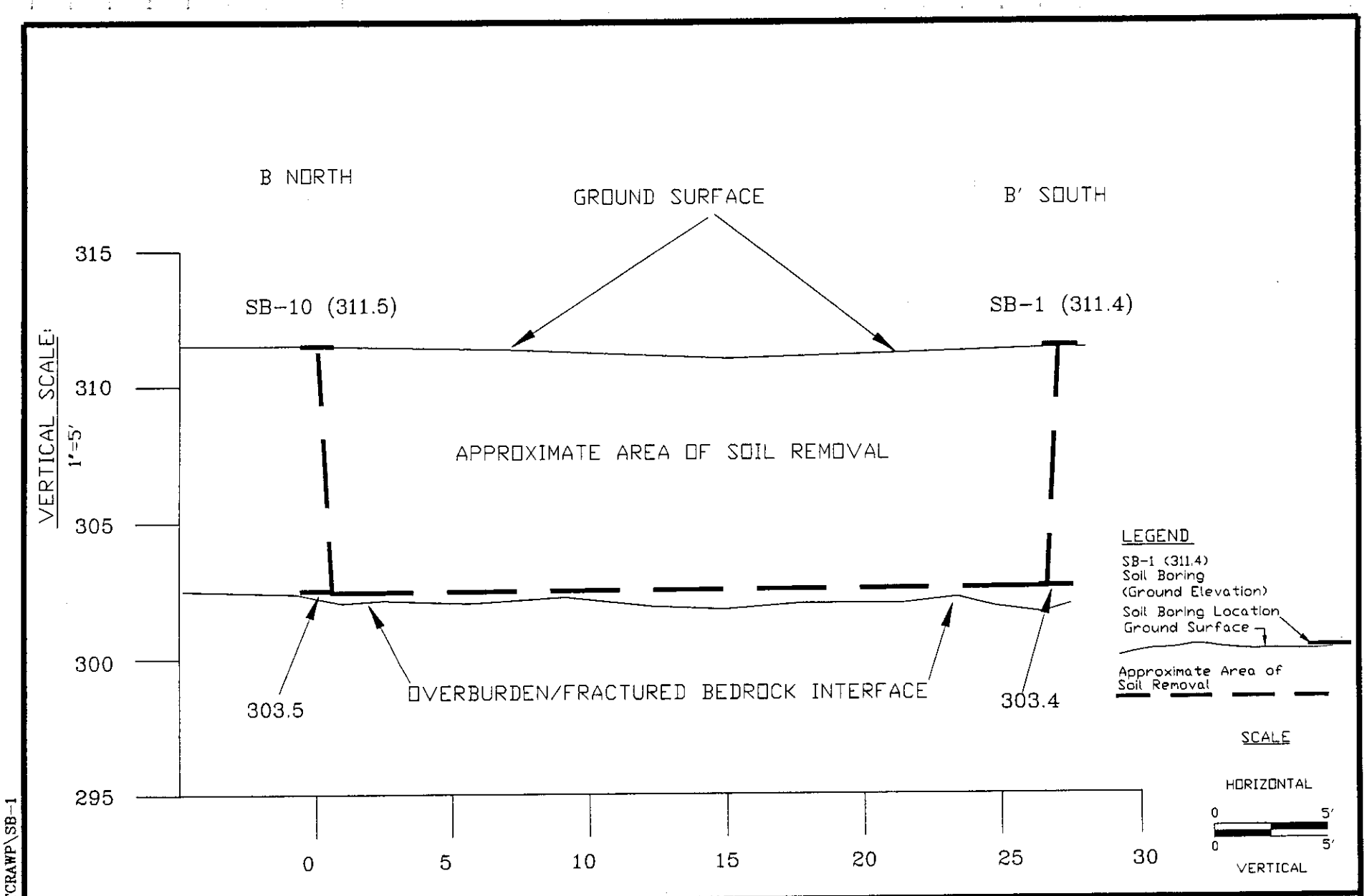
NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
EXCAVATION CROSS SECTION A
SCOTIA, NEW YORK

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 6-6



NEW YORK AIR NATIONAL GUARD BASE

109th AIRLIFT WING

EXCAVATION CROSS SECTION B

SCOTIA, NEW YORK

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FIGURE: 6-7

6-11

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southeasterly direction approximately 18 feet . The final area of excavation measured approximately 18 x 6 x 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

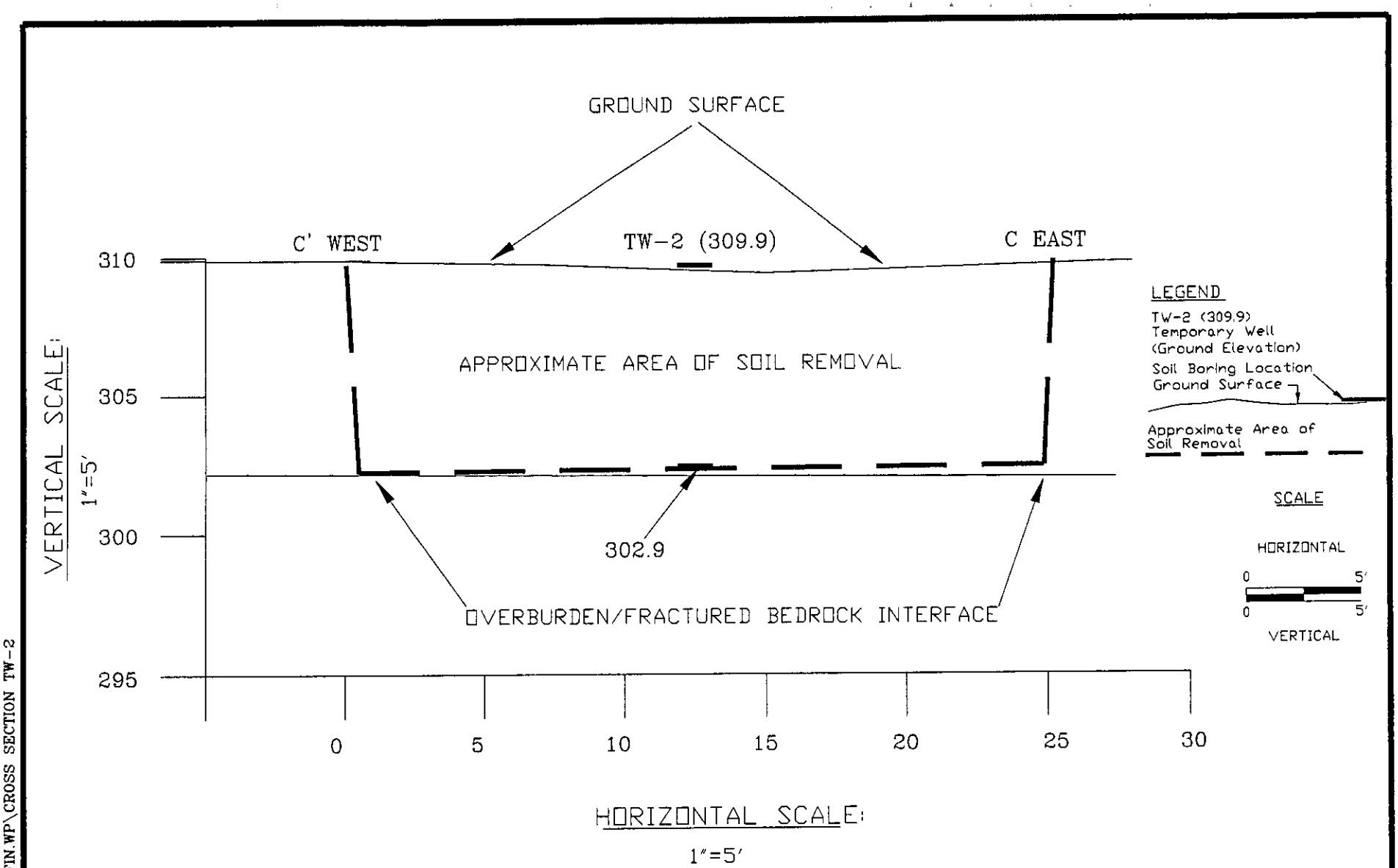
Potable water used for decontamination was obtained from an outside spigot located next to the Base Sewage Treatment Plant at Building #23. For QA/QC purposes, a field blank sample was collected from this spigot. Two sampling equipment rinsates were also collected using laboratory supplied de-ionized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



NEW YORK AIR NATIONAL GUARD BASE

109th AIRLIFT WING

EXCAVATION CROSS SECTION C

SCOTIA, NEW YORK

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FIGURE: 6-8

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concentrations. Samples EX-A-E-Sidewall and EX-A-W-Sidewall had concentrations of PCE at 1800 μg/kg and 3200 μg/kg, respectively. The NYSDEC cleanup concentrations for PCE is 1400 μg/kg. Sample EX-A-S-Sidewall also contained PCE at a concentration of 240 μg/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 μg/kg, 130 μg/kg, and 36 μg/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 μg/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 μg/kg and 30 μg/kg, respectively. The NYSDEC cleanup concentration for TCE is 700 μg/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 μg/kg and 5.8 μg/kg, respectively. Sample EX-B-E-Sidewall contained TCE and DCE at concentrations of 5.6 μg/kg and 4.9 μg/kg, respectively. All other sample results were reported at or just above the reported detection limit of 1.2 μg/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

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

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.[2]	NYSDEC CLEANUP CONC.[3]	SAMPLE IDENTIFICATION									
				EX-A-W-Sidewall		EX-A-N-Bottom		EX-A-N-Sidewall		EX-A-E-Sidewall		EX-A-S-Bottom	
VOCs (ug/kg)													
Dichlorodifluoromethane	1.1	ND	NL	1.1	JL	1.1	JL	1.1	JL	1.2	JL	1.2	UJL
cis-1,2-Dichloroethene	1.1	ND	NL	3.9	JQ	1.1	U	1.1	U	7.3		1.2	U
Chloroform	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
Trichloroethene	1.1	ND	700	2.7	JQ	1.1	U	1.1	JQ	3.7	JQ	1.2	U
Benzene	1.1	ND	NL	1.3	JQ	2.1	JQ	1.9	JQ	1.2	JQ	1.2	JQ
Tetrachoroethene	1.1	ND	1400	[redacted]		130		400		[redacted]		36	
Toluene	1.1	5.4	1500	2.5	JQ	5.5		3.1	JQ	1.7	JQ	3.8	JQ
m,p-Xylene	1.1	ND	1200	1.1	U	1.3	JQ	1.1	U	1.2	U	0.8	JQ
4-Isopropyltoluene	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
Naphthalene	1.1	ND	13,000	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.[2]	NYSDEC CLEANUP CONC.[3]	SAMPLE IDENTIFICATION									
				EX-A--S-Sidewall		EX-B-N-Bottom		EX-B-S-D-Bottom		EX-B-N-Sidewall		EX-B-E-Sidewall	
VOCs (ug/kg)													
Dichlorodifluoromethane	1.1	ND	NL	1.1	JL	1.2	JL	1.2	JL	1.1	JL	1.2	JL
cis-1,2-Dichloroethene	1.1	ND	NL	1.1	U	1.3	JQ	5.8	JQ, JF	1.1	U	4.9	JQ
Chloroform	1.1	ND	NL	1.1	U	1.2	U	1.2	U	1.1	U	1.2	U
Trichloroethene	1.1	ND	700	2.1	JQ	1.3	JQ	8.6	JF	1.1	U	5.6	JQ, JM
Benzene	1.1	ND	NL	2.7	JQ	1.2	U	1	JQ	1.1	U	1.1	JQ
Tetrachoroethene	1.1	ND	1400	240		1.2	U	1.2	U	1.1	U	1.2	U
Toluene	1.1	5.4	1500	13		1.2	U	2.6	JQ	1.2	JQ	3.4	JQ, JM
m,p-Xylene	1.1	ND	1200	1.1	U	1.2	U	1.2	U	1.1	U	1.2	U
4-Isopropyltoluene	1.1	ND	NL	1.1	U	1.2	U	1.2	U	1.1	U	2.3	JQ
1,2,4-Trichlorobenzene	1.1	ND	NL	1.1	U	1.2	U	1.2	U	1.1	U	1.2	JM
Naphthalene	1.1	ND	13,000	1.1	U	1.2	U	2.3	JQ	1.1	U	2.5	JQ

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

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.[2]	NYSDEC CLEANUP CONC.[3]	SAMPLE IDENTIFICATION									
				EX-B-S-Sidewall		EX-B-S-Bottom		EX-B-W-Sidewall		EX-C-E-Bottom		EX-C-S-Sidewall	
VOCs (ug/kg)													
Dichlorodifluoromethane	1.1	ND	NL	1.2	JL	1.2	JL	1.2	JL	1.1	JL	1.2	JL
cis-1,2-Dichloroethene	1.1	ND	NL	1.2	U	20	JF	1.2	U	5.8		1.2	U
Chloroform	1.1	ND	NL	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U
Trichloroethene	1.1	ND	700	1.2	U	30	JF	1.2	U	20		1.3	JQ
Benzene	1.1	ND	NL	1.2	U	1.2	JQ	1.2	U	4.9	JQ	1.2	JQ
Tetrachoroethene	1.1	ND	1400	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U
Toluene	1.1	5.4	1,500	1.2	U	1.2	U	1.2	U	1.1	JF	1.7	JQ
m,p-Xylene	1.1	ND	1200	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U
4-Isopropyltoluene	1.1	ND	NL	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U
1,2,4-Trichlorobenzene	1.1	ND	NL	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U
Naphthalene	1.1	ND	13,000	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U

ANALYTE	DETECTION LIMIT[1]	BCKGRND CONC.[2]	NYSDEC CLEANUP CONC.[3]	SAMPLE IDENTIFICATION									
				EX-C-W-Sidewall		EX-C-E-D-Bottom		EX-C-E-Sidewall		EX-C-W-Bottom		EX-C-N-Sidewall	
VOCs (ug/kg)													
Dichlorodifluoromethane	1.1	ND	NL	1.1	JL	1.1	JL	1.1	JL	1.2	JL	1.2	JL
cis-1,2-Dichloroethene	1.1	ND	NL	46		3.6	JQ	1.3	JQ	6.9		1.2	JQ
Chloroform	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
Trichloroethene	1.1	ND	700	91		13		5.8		19		12	
Benzene	1.1	ND	NL	2.9	JQ	5.3	JQ	2	JQ	2.5	JQ	1.2	JQ
Tetrachoroethene	1.1	ND	1400	1.1	U	1.9	JQ	0.7	JQ	1.2	U	1.2	U
Toluene	1.1	5.4	1500	3	JQ	21	JF	5	JQ	2.5	JQ	1.3	JQ
m,p-Xylene	1.1	ND	1200	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
4-Isopropyltoluene	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	1.1	ND	NL	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U
Naphthalene	1.1	ND	13,000	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U

ABBREVIATIONS:

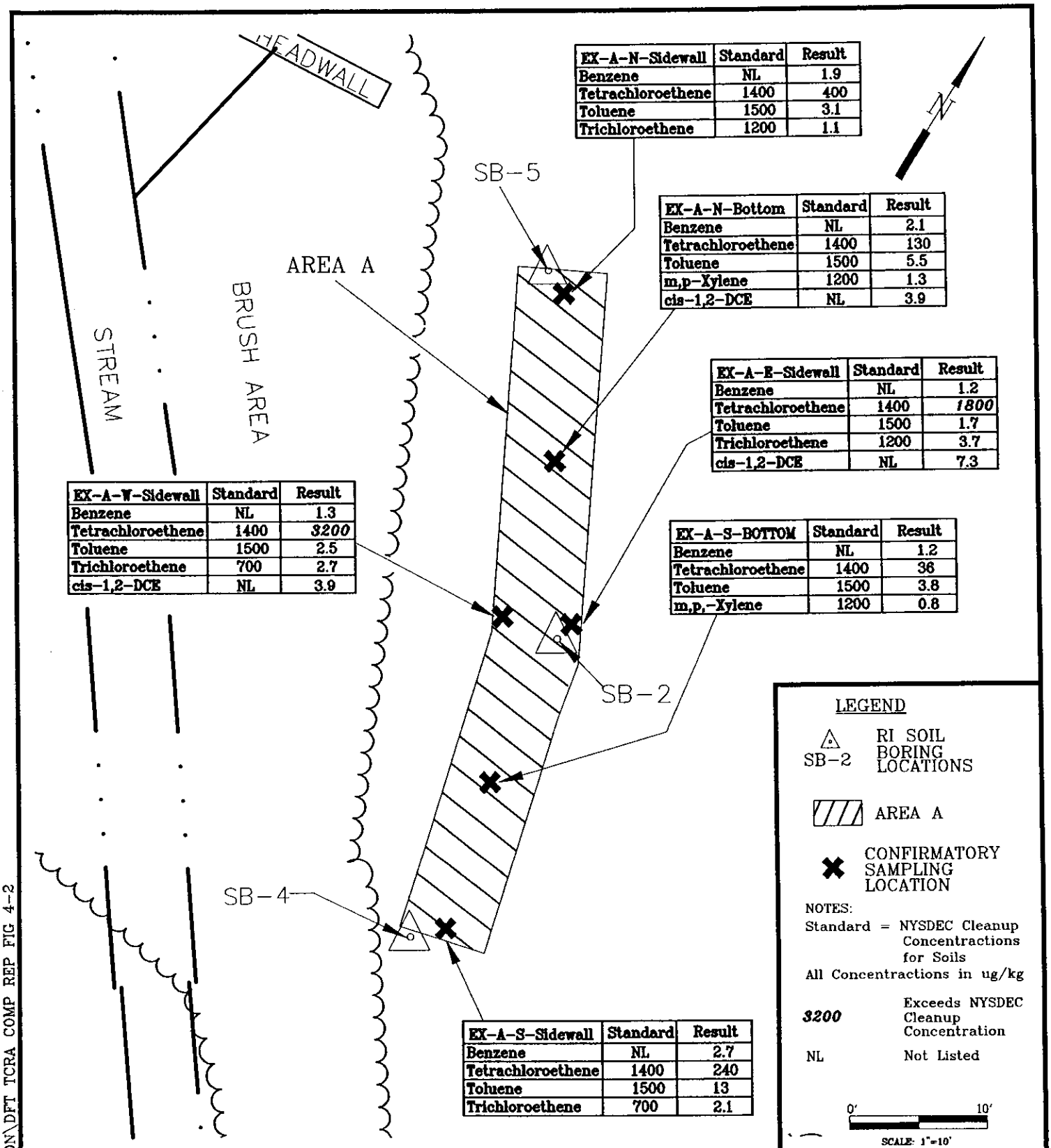
ug/kg - micrograms per kilogram
DWQS - Drinking Water Quality Stds.
MDL - Method Detection Limit
MS(D) - Matrix Spike (Duplicate)
NYSDEC - New York State Dept. of Environm'l Conservation
NL - Not Listed
RI - Remedial Investigation
RPD - Relative Percent Difference
VOC's - Volatile Organic Compounds
D - Duplicate Sample

NOTES:

1) Contract Required Detection Limit (CRDL)
2) RI Background Sample Results
3) 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.

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
JL - The blank spike and/or blank spike duplicate % recoveries were not within the control limits of 60-140% for organics
JM - The MS and/or MSD % recoveries were not within the control limits for this compound
JQ - Estimate due to detection level below lowest calibration standard
U - Compound was analyzed for, but not detected
Compound exceeds regulatory limit

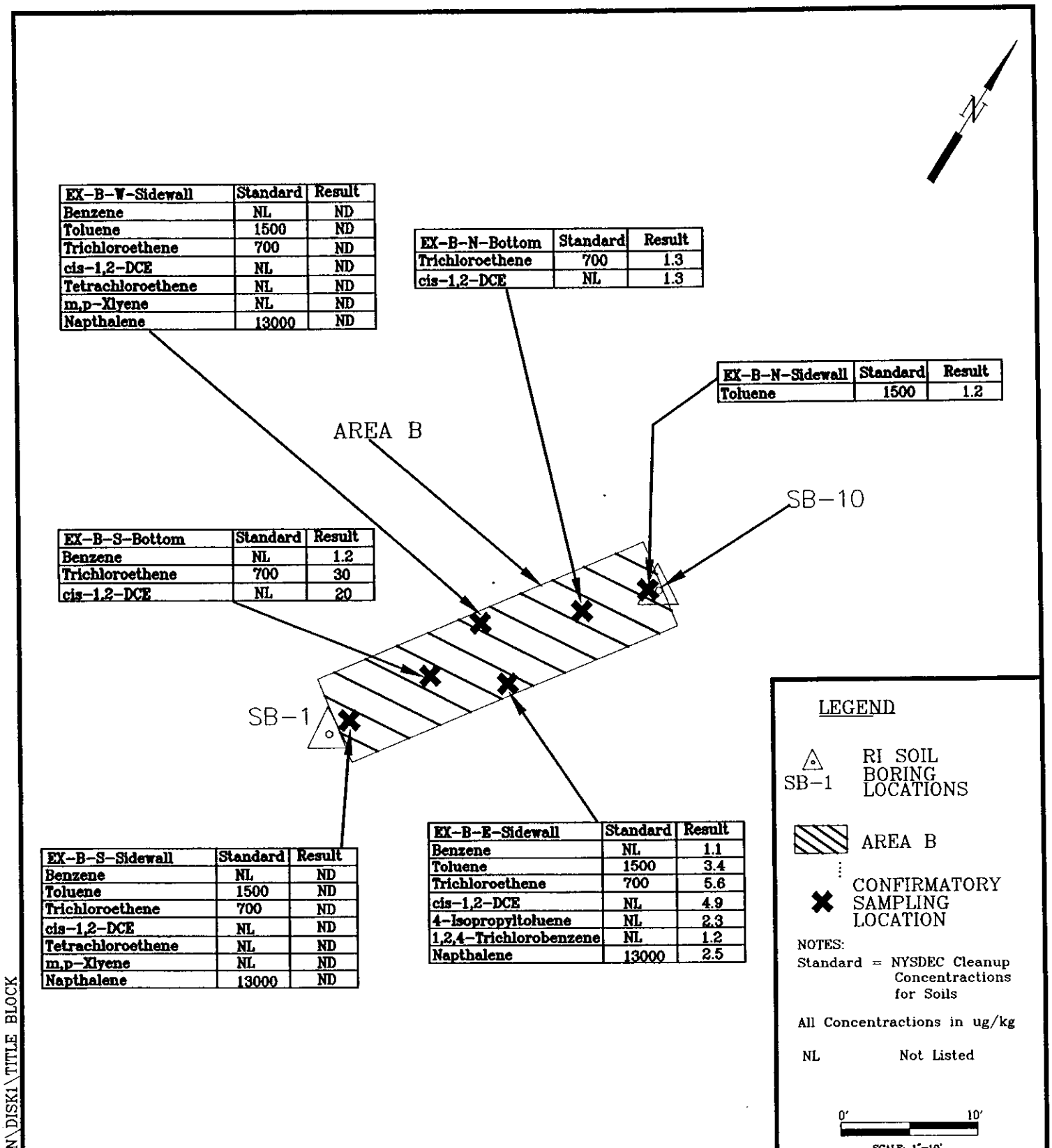


C:\DRAW\STRATTON\DFT TCRA COMP REP FIG 4-2

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

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 6-9



EX-B-W-Sidewall	Standard	Result
Benzene	NL	ND
Toluene	1500	ND
Trichloroethene	700	ND
cis-1,2-DCE	NL	ND
Tetrachloroethene	NL	ND
m,p-Xlyene	NL	ND
Napthalene	13000	ND

EX-B-N-Bottom	Standard	Result
Trichloroethene	700	1.3
cis-1,2-DCE	NL	1.3

EX-B-N-Sidewall	Standard	Result
Toluene	1500	1.2

EX-B-S-Bottom	Standard	Result
Benzene	NL	1.2
Trichloroethene	700	30
cis-1,2-DCE	NL	20

EX-B-S-Sidewall	Standard	Result
Benzene	NL	ND
Toluene	1500	ND
Trichloroethene	700	ND
cis-1,2-DCE	NL	ND
Tetrachloroethene	NL	ND
m,p-Xlyene	NL	ND
Napthalene	13000	ND

EX-B-E-Sidewall	Standard	Result
Benzene	NL	1.1
Toluene	1500	3.4
Trichloroethene	700	5.6
cis-1,2-DCE	NL	4.9
4-Isopropyltoluene	NL	2.3
1,2,4-Trichlorobenzene	NL	1.2
Napthalene	13000	2.5

LEGEND

SB-1 RI SOIL BORING LOCATIONS

AREA B

CONFIRMATORY SAMPLING LOCATION

NOTES:
Standard = NYSDEC Cleanup Concentrations for Soils

All Concentrations in ug/kg

NL Not Listed

0' 10'
SCALE: 1"=10'

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

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 6-10

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 μg/kg and 91 μg/kg, respectively. Results from sample EX-C-E-Bottom reported DCE at 5.8 μg/kg and TCE at 20 μg/kg, and benzene at 4.9 μg/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 μg/kg and 13 μg/kg, respectively. This sample also contained toluene and benzene at 21 μg/kg and 5.3 μg/kg, respectively. EX-C-W-Bottom contained concentrations of DCE and TCE at 6.9 μg/kg and 19 μg/kg, respectively. TCE was also reported in sample EX-C-N-Sidewall at a concentration of 12 μg/kg. Sample results are summarized in Figure 6-11.

6.7 Backfilling, Compaction, and Site Restoration

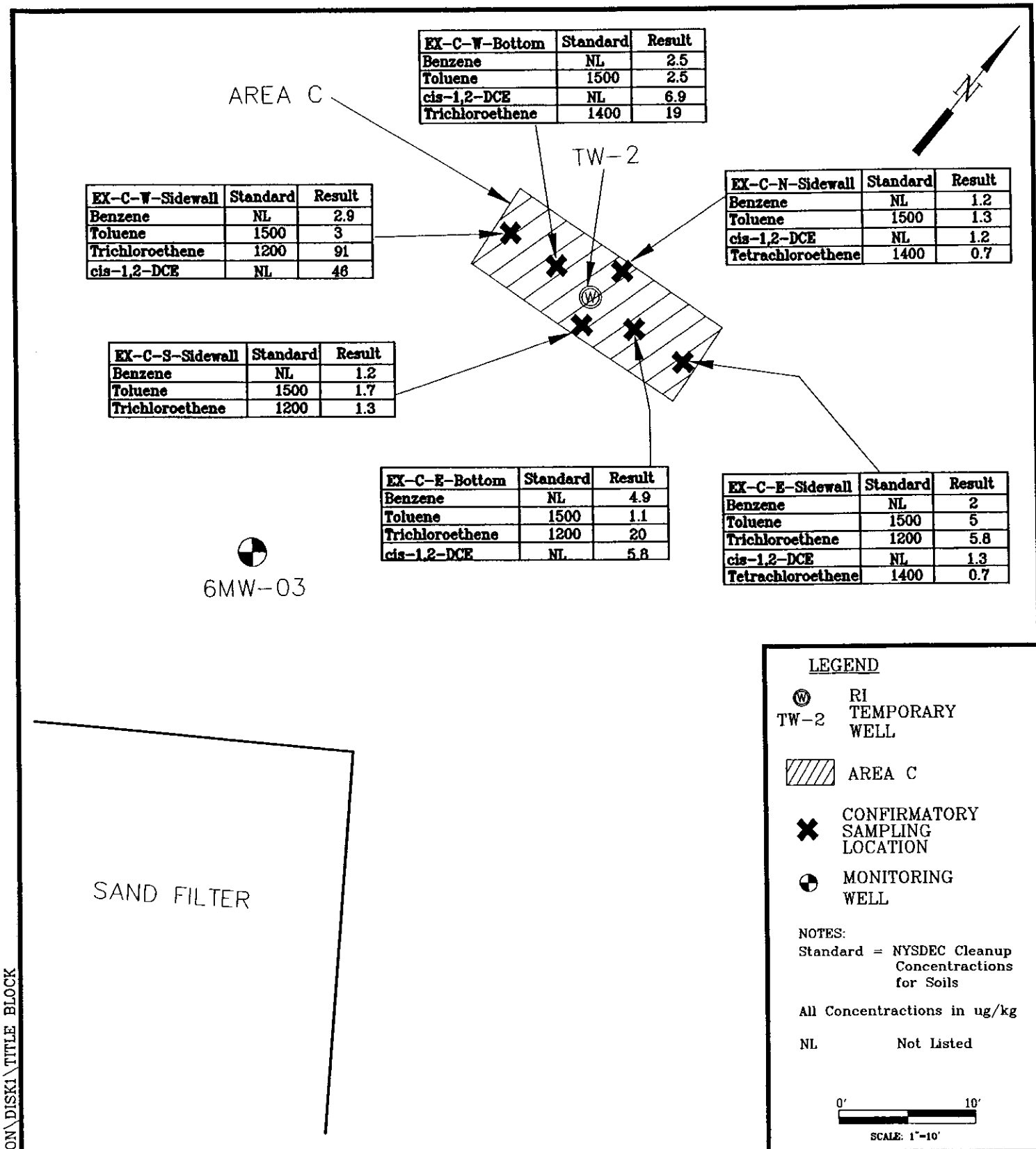
Backfilling of the excavations was conducted concurrently with the transportation and disposal effort. Approximately 220 tons of clean backfill material was obtained through PIM and delivered on-site by Cedar Hill Trucking. The backfill material was promptly evaluated, placed in the excavation, and compacted. 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.



EX-C-W-Bottom	Standard	Result
Benzene	NL	2.5
Toluene	1500	2.5
cis-1,2-DCE	NL	6.9
Trichloroethene	1400	19

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	NL	5.8

EX-C-E-Sidewall	Standard	Result
Benzene	NL	2
Toluene	1500	5
Trichloroethene	1200	5.8
cis-1,2-DCE	NL	1.3
Tetrachloroethene	1400	0.7

C:\DRAW\STRATTON\DISK1\TITLE BLOCK

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

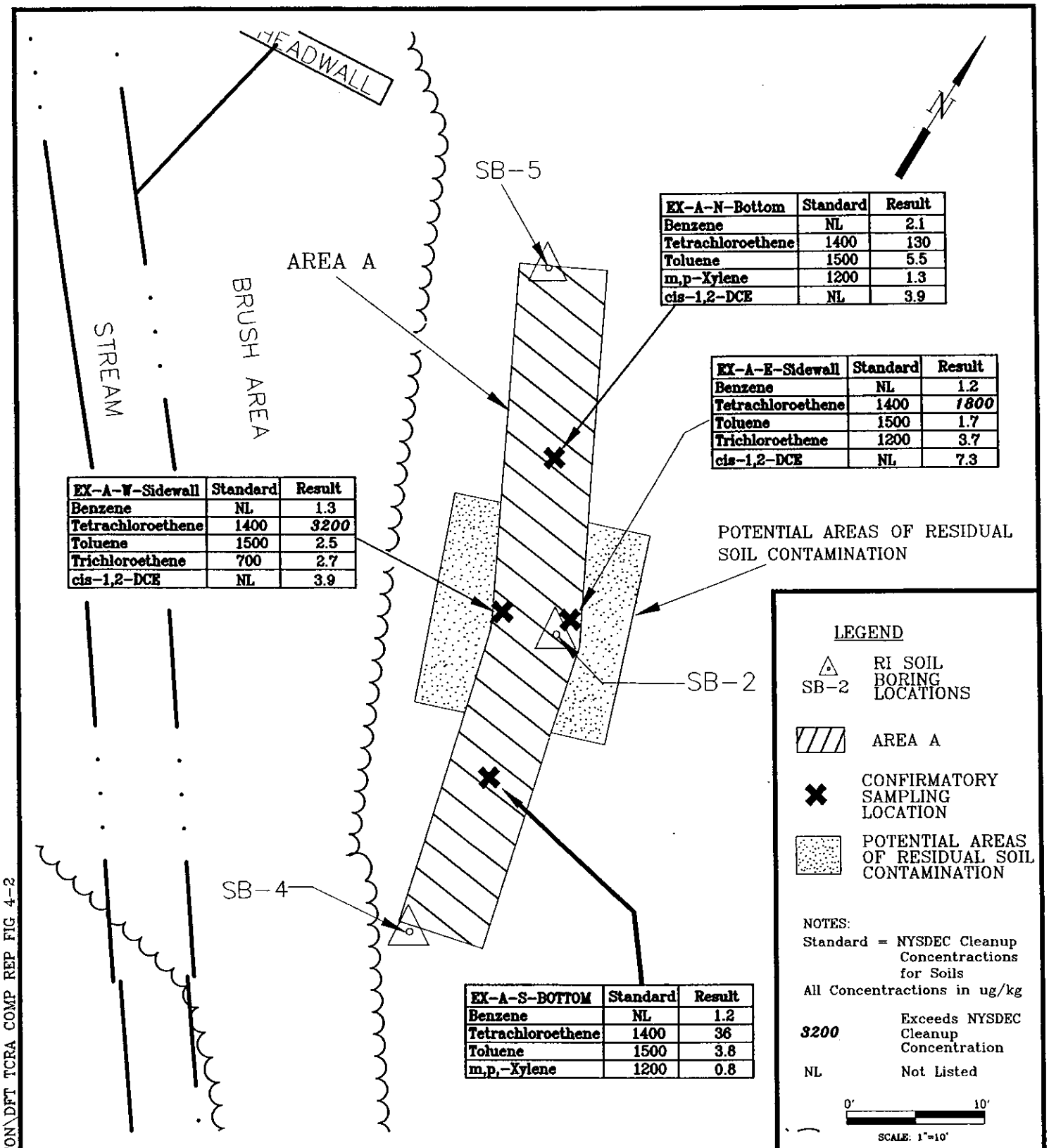
Area A

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 mid-point 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.



EX-A-N-Bottom	Standard	Result
Benzene	NL	2.1
Tetrachloroethene	1400	130
Toluene	1500	5.5
m,p-Xylene	1200	1.3
cis-1,2-DCE	NL	3.9

EX-A-E-Sidewall	Standard	Result
Benzene	NL	1.2
Tetrachloroethene	1400	*1800*
Toluene	1500	1.7
Trichloroethene	1200	3.7
cis-1,2-DCE	NL	7.3

EX-A-W-Sidewall	Standard	Result
Benzene	NL	1.3
Tetrachloroethene	1400	*3200*
Toluene	1500	2.5
Trichloroethene	700	2.7
cis-1,2-DCE	NL	3.9

EX-A-S-BOTTOM	Standard	Result
Benzene	NL	1.2
Tetrachloroethene	1400	36
Toluene	1500	3.8
m,p,-Xylene	1200	0.8

NEW YORK AIR NATIONAL GUARD BASE
109th AIRLIFT WING
POTENTIAL AREAS OF RESIDUAL CONTAMINATION-AREA A
SCOTIA, NEW YORK

ANEPTEK CORPORATION
Analytic, Environmental and Process Technologies

FIGURE: 7-1

C:\DRAW\STRATTON\DFT TCRA COMP REP FIG 4-2

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

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

APPENDIX A

BILLS OF LADING

SHIPPER NO. 02-0185

CARRIER NO. 4A-314

DATE: 4/23/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

ECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

-edar Hill Trucking

OF CARRIER) (SCAC)

I IEE ESMI of New York
304 Towpath Road
Fort Edward STATE NY ZIP 12828

INATION

FROM
SHIPPER Stratton ANGB
STREET 1 Air National Guard Rd.
ORIGIN Scotia STATE NY ZIP 12302-9752

E Via Best

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER (NY) AB 4-9158

G	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		DT Non-RCRA Non-DOT Regulated Solid (NA16- Contaminated Soil)	30	Tons		

T C.O.D. TO:

I S: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

pment moves between two ports by a carrier by water, the law at the bill of lading shall state whether it is "carrier's or shipper's

- where the rate is dependent on value, shippers are required to state cally in writing the agreed or declared value of the property.

d or declared value of the property is hereby specifically stated by r to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

ED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the ot prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

R: Stratton ANGB

CARRIER: Cedar Hill Trucking

PER: [signature]

DATE: 4/03/02

RGENCY RESPONSE PHONE NUMBER: (888) 888-7464

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

"X" to designate Hazardous Material as defined in The Department of Transportation s Governing Transportation of Hazardous Materials. The use of this column is an optional designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02-4185

CARRIER NO. 21A-314

DATE: 4/23/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDAR HILL TRUCKING (SCAC)

(NAME OF CARRIER)

CONSIGNEE ESMI OF NEW YORK

STREET 304 TOWPATH ROAD

DESTINATION FORT EDWARD STATE N.Y. ZIP 12828

FROM SHIPPER STRATTON ANGB

STREET 1 AIR NATIONAL GUARD RD.

ORIGIN SCOTIA STATE N.Y. ZIP 12302-9752

ROUTE: BEST

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER 146961 PA/N

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DT NON-RCRA - NONDOT REGULATED SOLID (NA8116-CONTAMINATED SOIL)	30 TON			

PERMIT C.O.D. TO:

ADDRESS:

CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON ANGB

PER: [signature]

CARRIER: CEDAR HILL TRUCKING

PER: [signature]

DATE: 4/23/02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02-0185

CARRIER NO. 4A-314

DATE: 4/23/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

Cedar Hill Trucking (SCAC)

OF CARRIER)

IGNEE ESMI of New York
304 Towpath Road
Fort Edward STATE NY ZIP 12828

INATION

FROM
SHIPPER Stratton ANGB
STREET 1 Air National Guard Rd.
ORIGIN Scotia STATE NY ZIP 12302-9752

Via Best

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER (NY) AB 69138

NG	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		DOT Non-RCRA Non-DOT Regulated Solid (NA16- Contaminated Soil)	30	Tons		

C.O.D. TO:

IESS:

STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

shipment moves between two ports by a carrier by water, the law that the bill of lading shall state whether it is "carrier's or shipper's

- where the rate is dependent on value, shippers are required to state ally in writing the agreed or declared value of the property.

eed or declared value of the property is hereby specifically stated by per to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

ED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the s not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

s to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

ER: Stratton ANGB

CARRIER: Cedar Hill Trucking

PER:

DATE: 4/03/02

RGENCY RESPONSE PHONE NUMBER: (888, 888-7464

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

ith "X" to designate Hazardous Material as defined in The Department of Transportation ions Governing Transportation of Hazardous Materials. The use of this column is an optional of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02-0185

CARRIER NO. 4A-314

DATE: 4/23/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDAR HILL TRUCKING

(NAME OF CARRIER) (SCAC)

TO CONSIGNEE: ESMI OF NEW YORK
STREET: 1 TOWPATH ROAD
DESTINATION: FORT EDWARD STATE: NY ZIP: 12828

FROM SHIPPER: STRATTON ANGB
STREET: 1 AIR NATIONAL GUARD RD.
ORIGIN: SCOTIA STATE: NY ZIP: 12302-9752

SITE: BEST

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER: AE41199 (N.Y.)

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DT NON-RCRA NON-DOT REGULATED SOLID (NA16-CONTAMINATED SOIL)	30 TON			

PERMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

The carrier is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON ANGB

CARRIER: CEDAR HILL TRUCKING

PER: Ron Sum RS1

DATE: 4/23/02

EMERGENCY RESPONSE PHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

* designate Hazardous Material as defined in The Department of Transportation Hazardous Materials. The use of this column is an optional listing hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) concerning the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02-0185

CARRIER NO. HA-314

DATE: 4/23/02

THIS MEMORANDUM

Is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

NAME OF CARRIER) CEDER HILL TRUCKING (SCAC)

TO
X SIGNEE ESMI OF NEW YORK
STREET 304 TOWPATH ROAD
DESTINATION FORT EDWARD STATE N.Y. ZIP 12828

FROM
SHIPPER STRATTON ANG-B
STREET AIR NATIONAL GUARD RD.
ORIGIN SCOTIA STATE N.Y. ZIP 12302 12302-9752

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER AE66000

NO. SHIPPING UNIT	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DT NON-RCRA NON-DOT REGULATED SOLID (NA816 - CONTAMINATED SOIL)	30	TON		

PERMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

"The shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON ANGB

PER:

CARRIER: CEDER HILL

PER:

DATE: 4/23/02

EMERGENCY RESPONSE TELEPHONE NUMBER: (888) 888-7461

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

SHIPPER NO. 02-0185

CARRIER NO. 4A-314

DATE: 4/24/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDAR HILL TRUCKING

(NAME OF CARRIER) (SCAC)

TO
CONSIGNEE: ESMI OF NEW YORK
STREET: 304 TOWPATH ROAD
DESTINATION: FORT EDWARD STATE: N.Y. ZIP: 12828

FROM
SHIPPER: STRATTON ANGB
STREET: 1 AIR NATIONAL GUARD RD
ORIGIN: SCOTIA STATE: N.Y. ZIP: 12302 6752

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER: AE41199 (NY)

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DT NON-RCRA NON-DOT REGULATED SOLID (NA8116 CONTAMINATED SOIL)	30 TON			

PERMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____
(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON
PER: Jeff Dorn

CARRIER: CEDAR HILL
PER: Ron Senn RS1
DATE: 4/24/02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02 0185

CARRIER NO. 1A-34

DATE: 4/24/02

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect ~~on the~~ date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDER HILL TRUCKING

(NAME OF CARRIER) (SCAC)

TO: ESMI OF NEW YORK
CONSIGNEE 304 TOWPATH ROAD
STREET
DESTINATION FORT EDWARD STATE N.Y. ZIP 12828

FROM STRATTON ANGB
SHIPPER / AIR NATIONAL GUARD BASE
STREET
ORIGIN SCOTIA STATE NY ZIP 12302

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER AEG5443 (NY)

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DOT NON RCRA NON-DOT REGULATED SOLID N-816 (CONTAMINATED SOIL)	30 TON			

PERMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

The carrier is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON

PER: [signature]

CARRIER: CEDER HILL

PER: [signature]

DATE: 4/24/02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Enter with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

SHIPPER NO. 02-0185

CARRIER NO. 4A-314

DATE: 4/24/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDER HILL TRUCKING (SCAC)

(NAME OF CARRIER)

CONSIGNEE ESMI OF NEW YORK

STREET 304 TOWPATH ROAD

DESTINATION FORT EDWARD STATE N.Y. ZIP 12828

FROM SHIPPER STRATTON ANGB

STREET 1 AIR NATIONAL GUARD RD

ORIGIN SCOTIA STATE N.Y. ZIP 12302-9752

SITE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER AE41199(NY)

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		DT NON-RCRA NON-DOT REGULATED SOLID (N816 CONTAMINATED SOIL)	30 TON			

PERMIT C.O.D. TO:

ADDRESS:

CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON

PER: Jeff Dom

CARRIER: CEDER HILL

PER: Ron Sam RS1

DATE: 4/24/02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

SHIPPER NO. 02-0185

CARRIER NO. 4A-3K

DATE: 4/24/02

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

CEDER HILL ~~FREIGHT~~ TRUCKING

(NAME OF CARRIER) (SCAC)

TO CONSIGNEE: ESMI OF NEW YORK

STREET: 304 TOWPATH ROAD

DESTINATION: FORT EDWARD STATE: N.Y. ZIP: 12828

FROM SHIPPER: STRATTON ANGB

STREET: AIR NATIONAL GUARD RD

ORIGIN: SCOTIA STATE: N.Y. ZIP: 12302-9752

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER: AE66000

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
		DT NON-RCRA NON-DOT REGULATED SOLID (NOS CONTAMINATED SOIL)	20TON			

PERMIT C.O.D. TO:

ADDRESS:

CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

*The shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: STRATTON

PER: Jeff Doran

CARRIER: CEDER HILL

PER: T. Chapman

DATE: 4/24/02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

FORM NO. 11-BLC-03 (Rev. 7/95)

APPENDIX B

ANALYTICAL DATA

SEVERN TRENT SERVICES

STL Newburgh

CHAIN OF CUSTODY

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

CUSTOMER NAME: ANEPTEK CORP
ADDRESS: 407 PLEASANT ST 2ND FLOOR
CITY, STATE, ZIP: WORCESTER MA 01609-1811
NAME OF CONTACT: JEFF DONOVAN PHONE NO. 508-459-6989
PROJECT LOCATION: STRATTON ANGB
PROJECT NUMBER / PO NO.: 01012.01

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☒ CLP ☐
OTHER ____

TURNAROUND
☐ NORMAL X
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
[redacted]

NY PUBLIC WATER SUPPLIES
SOURCE ID ___
ELRP TYPE ___
FEDERAL ID ___

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

STL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Amber	~~2 oz~~ 4 oz Qorpak (Glass)	ANALYSIS REQUESTED
	4/24/02	~~0945~~		X	S	~~SITE 6-TCRA EX-B-S-D-BOTTOM~~	*											X	VOC 8260B
		1215				SITE 6-TCRA EX-C-E-BOTTOM	1												VOC 8260B
		~~0904~~ 1210				SITE 6-TCRA EX-B-S-SIDEWALL	1												
		~~0955~~ 1140				SITE 6-TCRA EX-B-W-SIDEWALL	1												
		~~0945~~ 1220				SITE 6-TCRA EX-B-E-D-BOTTOM	1												
		~~0950~~ 1225				SITE 6-TCRA EX-B-E-SIDEWALL	1												
		~~0935~~ 1145				SITE 6-TCRA EX-B-BOTTOM	1												
		~~1015~~ 1200				SITE 6-TCRA EX-B-N-SIDEWALL	1												
		1320			~~W~~	SITE 6-TCRA FB-RW-042402	2	X											
		1300			W	SITE 6-TCRA RB-EX-042402	2	X											
		1600			W	SITE 6-TCRA RB-EX-042302	2	X											
		—			W	TB-042402	2	X											TRIP BLANK

LAB USE ONLY

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY: [signature]	STL	4/19/02	915				
SAMPLED BY: JEFF DONOVAN	ANEPTEK	4/23-24/02	VARIES				
RELINQUISHED BY: [signature]	ANEPTEK CORP	4/25/02	1215				

COMMENTS: ANY QUES. ON SAMPLE I.D.'S CALL JEFF DONOVAN 508-459-6989

SEVERN TRENT SERVICES

STL Newburgh

CHAIN OF CUSTODY

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

CUSTOMER NAME: ANEPTEK CORP
ADDRESS: 408 PLEASANT ST 2ND FLOOR
CITY, STATE, ZIP: WORCESTER MA 01609-1211
NAME OF CONTACT: JEFF DONOVAN
PHONE NO.: 508-459-6989
PROJECT LOCATION: STRATTON AN43 - SITE 6 - TCRA
PROJECT NUMBER / PO NO.: 01012.01

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☑ CLP ☐
OTHER ____

TURNAROUND
☐ NORMAL X
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)

NY PUBLIC WATER SUPPLIES
SOURCE ID ___ ___ ___
ELRP TYPE ___ ___ ___
FEDERAL ID ___ ___ ___ ___ ___ ___ ___

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

← VOC 8260

STL #	SAMPLING DATE	SAMPLING TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Amber	2oz 4oz Clear Glass	ANALYSIS REQUESTED
	4/24/02				S	SITE 6-TCRA EX-B-N-BOTTOM													
	4/23/02	1340		X	S	SITE 6-TCRA EX-A-W-SIDEWALL	1												VOC 8260B
		1525				SITE 6-TCRA EX-A-N-BOTTOM	1												
		1530				SITE 6-TCRA EX-A-N-SIDEWALL	1												
		1345				SITE 6-TCRA EX-A-E-SIDEWALL	1												
		1130				SITE 6-TCRA EX-A-S-SIDEWALL	1												
		1010				SITE 6-TCRA BOTTOM EX-A-S-SIDEWALL	1												
	4/24/02	0945				SITE 6-TCRA EX-B-S-D-BOTTOM	1												
		1015				SITE 6-TCRA EX-B-N-SIDEWALL	1												
		0950				SITE 6-TCRA MS/MSD EX-B-E-SIDEWALL	1												MS/MSD
		0904				SITE 6-TCRA EX-B-S-SIDEWALL	1												
		0935				SITE 6-TCRA EX-B-S-BOTTOM	1												
		0955				SITE 6-TCRA EX-B-W-SIDEWALL	1												

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
[illegible]	SD	4/19/02	9:15				
SAMPLED BY: JEFF DONOVAN	ANEPTEK	4/23 4/24/02	VARIES	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY [illegible] Donovan	ANEPTEK CORP	4/25/02	12:15	RECEIVED BY	COMPANY	DATE	TIME

COMMENTS: ANY QUESTIONS ABOUT SAMPLE ID'S CONTACT JEFF DONOVAN 508-459-6989

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-E-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-005

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7303.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 14 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
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	7.3	
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	3.7	JQ
71-43-2	Benzene	1.2	JQ
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	1800 ~~490~~	~~E~~
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	1.7	JQ
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

ppm 7/7/10

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-B-1d

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-005

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7303.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 14 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

for 7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-E-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-005

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7303.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 14 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.70	6	JNT

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-A-S-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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-624 ID: 0.53 (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
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	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	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	2.1	JQ
71-43-2	Benzene	2.7	JQ
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

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-5-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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-624 ID: 0.53 (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-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

7/7/04

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-S-S ide

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-N-Bottom

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-001

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7299.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.2 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
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	1.3	J
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	J
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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7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-N-BOTT

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-001

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7299.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.2 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

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7/7/02

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-N-BOTT

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-001

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7299.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.2 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 15

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

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7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-W-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-002

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7300.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
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	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	3.9	JQ
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	2.7	JQ
71-43-2	Benzene	1.3	JQ
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	3200 ~~850~~	E
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	2.5	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	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

1400 STANDARD

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tm 7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-w-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: SAS No.: SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-002

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7300.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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-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

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7/7/16

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-W-S1d0

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-002

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7300.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- AN - Bottom

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-003

Sample wt/vol: 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-624 ID: 0.53 (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
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	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	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	JQ
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	
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	JQ
95-47-6	o-Xylene		1.1	U
96-18-4	1,2,3-Trichloropropane		1.1	U

JPM 7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-N-BOTT

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-003

Sample wt/vol: 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-624 ID: 0.53 (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-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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-N-BOTT

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-003

Sample wt/vol: 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-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-N-SIDEWALL

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-004

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7302.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.3 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
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	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	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	JQ
71-43-2	Benzene	1.9	JQ
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	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	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- A-N-SIDC

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-004

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7302.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.3 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-N-S1dc

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-004

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7302.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.3 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.69	6	JT

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- c-s-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-015

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7320.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.9 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	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	JQ
71-43-2	Benzene	1.2	JQ
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	JQ
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

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- C-S-SIDE

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-015

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7320.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.9 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-C-S-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-015

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7320.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.9 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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7/7/10

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- c-w-sid-wall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-016

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7321.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 12.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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

CAS NO.	COMPOUND		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	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	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	91	
71-43-2	Benzene	2.9	JQ
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	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	3	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	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- c-w-sd

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-016

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7321.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 12.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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-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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-C-W-S id

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-016

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7321.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 12.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000071-23-8	1-Propanol	8.55	~~6~~	~~JN~~ Rm

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- C-e-d (Bov om)

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-017

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7322.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.4 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	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	JQ
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	13	
71-43-2	Benzene	5.3	JQ
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	1.9	JQ
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
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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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

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

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-017

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7322.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.4 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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-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

for 7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-C-E-D (bo H)

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-017

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7322.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.4 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- e-e-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-018

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7323.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	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	JQ
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	5.8	
71-43-2	Benzene	2	JQ
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	JQ
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	5	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	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-C-e-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-018

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7323.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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-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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-C-E-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-018

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7323.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 13.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- c-w-bottom

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-019

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7335.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.9 Date Analyzed: 05/06/02

GC Column: DB-624 ID: 0.53 (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
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	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	19	
71-43-2	Benzene	2.5	JQ
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	2.5	JQ
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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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- c-w-both

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-019

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7335.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.9 Date Analyzed: 05/06/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

jpr 7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EX-C-W-Bott

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-019

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7335.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 15.9 Date Analyzed: 05/06/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000071-23-8	1-Propanol	8.48	~~14~~	~~JN~~

Rm

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-C-N-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-020

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7325.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.6 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	JQ
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	12	
71-43-2	Benzene	1.2	JQ
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	1.3	JQ
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

7/1/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-situ

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-020

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7325.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.6 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

jpm 7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-C-N-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-020

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7325.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.6 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- a-s-bottom

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-007

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7305.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 18.7 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
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	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	1.2	U
71-43-2	Benzene	1.2	JQ
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	36	
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
108-88-3	Toluene	3.8	JQ
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	0.8	JQ
95-47-6	o-Xylene	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

jpr 7/7/02

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SITE 6 TCRA EX- 9-S- bott

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-007

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7305.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 18.7 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

tm 7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-A-S-B 011

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-007

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7305.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 18.7 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.70	7	JT

tpm 7/7/10

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- b-s-d (both) 0m

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-008

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7306.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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
75-71-8	Dichlorodifluoromethane	1.2	UJc
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	5.8	JQ, 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	8.6	JF
71-43-2	Benzene	1.0	JQ
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	2.6	JQ
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

for 7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-S-0 (Bott)

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-008

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7306.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	J@
87-61-6	1,2,3-Trichlorobenzene	1.2	U

7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-S-D (BOTT)

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-008

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7306.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.1 Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 16

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

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-N-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-009

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7307.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 10.3 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		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	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	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	1.1	U
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	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	1.2	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	U
95-47-6	o-Xylene	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

for 7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-N-S

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-009

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7307.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 10.3 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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-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

7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-N-S

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-009

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7307.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 10.3 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q	
1. 000071-23-8	1-Propanol	8.51	~~30~~	~~JN~~	R_m

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-E-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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. 15 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	4.9	JQ
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	5.6	JQ, JM
79-01-6	Trichloroethene	1.1	JQ
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	0.8	JQ
127-18-4	Tetrachloroethene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	3.4	JQ, JM
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

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-e-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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. 15 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	2.3	J⊗
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	UJm
91-20-3	Naphthalene	2.5	J⊗
87-61-6	1,2,3-Trichlorobenzene	1.2	U

7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-E-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG 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. 15 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 16

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

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-S-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-011

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7309.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	1.2	U
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

7/7/10

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-S-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-011

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7309.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EX-B-S-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-011

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7309.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-S- BOTTOM

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-012

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7310.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	JQ
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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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- 8-S-BOTT

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-012

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7310.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-S-B

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: SAS No.: SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-012

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7310.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 16.5 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

C00225

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- B-W-sidewall

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-013

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7311.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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
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	U
78-87-5	1,2-Dichloropropane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
79-01-6	Trichloroethene	1.2	U
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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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX- e-w-side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-013

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7311.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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	1.2	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	1.2	U
87-61-6	1,2,3-Trichlorobenzene	1.2	U

7/7/02

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX-B-W-Side

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-013

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7311.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 19.2 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-c-e-bottom

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-014

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7314.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.8 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	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	5.8	
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	20	
71-43-2	Benzene	4.9	J@
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	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
108-88-3	Toluene	1.1	UJF
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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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA EX-c-e-bolt

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-014

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7314.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.8 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (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-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

7/7/10

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EX-C-E-Bott

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) SOIL Lab Sample ID: 211099-014

Sample wt/vol: 5.0 (g/ml) G Lab File ID: W7314.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. 11.8 Date Analyzed: 05/04/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000071-23-8	1-Propanol	8.54	~~11~~	~~JN~~ Rm
2.	C7H8 isomer	15.81	10	J_T

fpm 7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TB-042402

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-024

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7290.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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
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	1	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	1	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	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

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TB-04240

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-024

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7290.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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-Tetrachloroethane	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
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-chloropropane	1	U
87-68-3	Hexachlorobutadiene	1	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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-042402

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-024

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7290.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA FB- PW-042402

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-021

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7291.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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
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	1	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	0.8	JQ
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	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

7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA FB-

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-021

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7291.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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-Tetrachloroethane	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
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-chloropropane	1	U
87-68-3	Hexachlorobutadiene	1	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

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-PW-04

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-021

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7291.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA RB- ex- 4/24/02

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-022

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7292.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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
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	1	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	1	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	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

trm 7/7/02

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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA RB- 4|24

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-022

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7292.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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-Tetrachloroethane	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
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-chloropropane	1	U
87-68-3	Hexachlorobutadiene	1	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

7/7/02

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB-EX-0424

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-022

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: W7292.D

Level: (low/med) LOW Date Received: 04/26/02

% Moisture: not dec. _____ Date Analyzed: 05/03/02

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/02

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Newburgh, NY 12550
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1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA RB- cx- 4/23/02

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-023

Sample wt/vol: 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-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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
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	1	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	1	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	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

fan 7/7/02

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SITE 6 TCRA RB-4123

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-023

Sample wt/vol: 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-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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-Tetrachloroethane	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
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-chloropropane	1	U
87-68-3	Hexachlorobutadiene	1	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

7/7/02

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB-EX-0423

Lab Name: STL Newburgh Contract: 01012.01

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: AN099

Matrix: (soil/water) WATER Lab Sample ID: 211099-023

Sample wt/vol: 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-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

7/7/10

STL Newburgh
315 Fullerton Avenue
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APPENDIX C

AIR MONITORING DATA

Volatile Organic Compounds
in
Ambient Air

TextEvent1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 0 Gas Name: Isobutylene Sample Period: 600 sec

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(ppm)		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(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:			
Min Data Value:			
TWA Data Value:			
AVG Data Value:			

TextEvent2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 1 Gas Name: Isobutylene Sample Period: 600 sec

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

Measurement Type:	Min(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

TextEvent3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 0 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(ppm)		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(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:			
Min Data Value:			
TWA Data Value:			
AVG Data Value:			

TextEvent4

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 6 Gas Name: Isobutylene Sample Period: 600 sec

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

Measurement Type:	Min(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

TextEvent5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 2 Gas Name: Isobutylene Sample Period: 600 sec

Last Calibration Time: 04/19/2002 14:02
Start At: 04/23/2002 13:26 End At: 04/23/2002 13:36

Measurement Type:	Min(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

TextEvent6

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 0 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

Measurement Type:	Min(ppm)		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(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:			
Min Data Value:			
TWA Data Value:			
AVG Data Value:			

TextEvent7

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 6 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(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0.1	20.7	
Min Data Value:	0	0		
TWA Data Value:	0	0.5		
AVG Data Value:	0	3.7		

TextEvent8

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 1 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:	Min(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

TextEvent9

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 5 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:	Min(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

TextEvent10

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 003833

User ID: 00000001 Site ID: 00000000
Data Points: 12 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(ppm)		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(ppm)		Avg(ppm)	Max(ppm)
Peak Data Value:		0	0	
Min Data Value:	0	0		
TWA Data Value:	0	0		
AVG Data Value:	0	0		

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 (%): 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

pDR-1000
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/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
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
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

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/m³
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.(mg/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/m³
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/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	24 Apr	09:00:23	0.010
2	24 Apr	09:10:23	0.010
3	24 Apr	09:20:23	0.008
4	24 Apr	09:30:23	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	0.002
27	24 Apr	13:20:23	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 Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

September 03, 2002

QA/QC Data

SDG I.D.: GAE05971

Parameter	Blank	LCS %	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch Sample No: AE05973 (AE05971, AE05972, AE05973)					
TPH by GC (Extractable Products)					
Aviation Fuel/Kerosene	ND				
Fuel Oil #2/ Diesel Fuel	ND	67	71	61	15.2
Fuel Oil #4	ND				
Fuel Oil #6	ND				
Motor Oil	ND				
Other Oil (Cutting & Lubricating)	ND				
Unidentified	ND				

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

MS - Matrix Spike
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 Turnpike, P.O.Box 370, Manchester, CT 06040
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 12305

Sample Information		Custody Information		Date	Time
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" below		
P.O.#:	020185				

Laboratory Data

SDG I.D.: GAE05971
Client ID: STRATTON ANGB AOC-A Phoenix I.D.: AE05971

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	85.36		%	04/05/02		G	E160.3
Extraction of TPH MOD 8100 SM	Completed			04/05/02		PL	3550/3630
TPH by GC (Extractable Products)							
Fuel Oil #4	ND	50	mg/kg	04/08/02		CN	8100Modified
Fuel Oil #6	ND	50	mg/kg	04/08/02		CN	8100Modified
Fuel Oil#2 / Diesel Fuel	ND	50	mg/kg	04/08/02		CN	8100Modified
Kerosene	ND	50	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 03, 2002

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
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 12305

Sample Information		Custody Information		Date	Time
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" below		
P.O.#:	020185				

Laboratory Data

SDG I.D.: GAE05971
Client ID: STRATTON ANGB AOC-B Phoenix I.D.: AE05972

Parameter	Result	RL	Units	Date	Time	By	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)							
Fuel Oil #4	ND	50	mg/kg	04/08/02		CN	8100Modified
Fuel Oil #6	ND	50	mg/kg	04/08/02		CN	8100Modified
Fuel Oil#2 / Diesel Fuel	ND	50	mg/kg	04/08/02		CN	8100Modified
Kerosene	ND	50	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	**150	50	mg/kg	04/08/02		CN	8100Modified

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

**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles mixture diesel/fuel oil #2 and motor oil.

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

Phyllis Shiller, Laboratory Director
September 03, 2002

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
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 12305

Sample Information		Custody Information		Date	Time
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" below		
P.O.#:	020185				

Laboratory Data

SDG I.D.: GAE05971
Client ID: STRATTON ANGB AOC-C Phoenix I.D.: AE05973

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	86.68		%	04/05/02		G	E160.3
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
Fuel Oil #6	ND	50	mg/kg	04/08/02		CN	8100Modified
Fuel Oil#2 / Diesel Fuel	ND	50	mg/kg	04/08/02		CN	8100Modified
Kerosene	ND	50	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	**350	50	mg/kg	04/08/02		CN	8100Modified

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

**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but most closely resembles mixture diesel/fuel oil #2 and motor oil.

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

Phyllis Shiller, Laboratory Director
September 03, 2002