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February 24, 1997

Mr. Lech Dolata
NYSDEC - BCS
50 Wolf Road, Rm. 207
Albany, NY 12233-7010

Re: Storonske Cooperage Site Remediation
NYSDEC Contract No. D003249
D&B No. 1317-5A

Dear Mr. Dolata:

As requested, enclosed please find six (6) copies of the revised Post - Construction Report for the referenced project.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

David S. Glass, P.E.
Project Manager

DSG/ld
Enclosure
cc: T. Maher (D&B)
♦1317\DSG98-3.LTR(R03)

POST - CONSTRUCTION REPORT
FOR
STORONSKE COOPERAGE SITE
TOWN OF SCHODACK
RENSSLAER COUNTY, NEW YORK

PREPARED FOR

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

BY

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
WOODBURY, NEW YORK

FEBRUARY 1998

STORONSKE COOPERAGE SITE
TOWN OF SCHODACK, RENSSELAER COUNTY
NYSDEC SITE REGISTRY NO. 4-4-2021

CONSTRUCTION CERTIFICATION
NYSDEC CONTRACT NO. D003249

Construction was completed in accordance with the Contract Documents entitled " Remediation of Storonske Cooperage Site" dated July 25, 1994, and Change Orders Nos. 1 and 2, with the exception of the items described below.

As documented in the Post-Construction Report, soil vapor extraction was not effective on a portion of the site in the vicinity of Soil Boring No. 14 (see Figure 3-2), and as a result, the Contract soil cleanup goals for volatile organic compounds were not achieved on this portion of the site. A supplemental investigation program is being conducted on this portion of the site and a supplemental remediation program will be implemented, if determined necessary.

In addition, as documented in the Post-Construction Report, at two post-excavation soil sample locations, the final concentration of lead was greater than 200 ppm, which is the Contract cleanup goal. Soil removal was discontinued for the following reasons:

- The concentrations are below the 400 ppm cleanup objective currently being used by NYSDEC and NYSDOH for remediation of lead contaminated soil on other projects; and

- The contamination is covered by a minimum of 12 inches of clean fill, including 6 inches of topsoil and new vegetation (i.e., grass).

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
330 Crossways Park Drive
Woodbury, NY 11797-2015

by: _____ 2/23/98
Thomas F. Maher, P.E. — Date
D&B Project Director

by: _____ 2.23.98
David S. Glass, P.E. — Date
D&B Project Manager

REMEDIATION OF STORONSKE COOPERAGE SITE
POST - CONSTRUCTION REPORT

TABLE OF CONTENTS

TABLE OF CONTENTS (continued)

List of Appendices

List of Figures

List of Tables

1.0 INTRODUCTION

1.1 Project Overview

This report documents the remediation activities completed at the Storonske Cooperage Site in Schodack, New York under New York State Department of Environmental Conservation (NYSDEC) Contract No. D003249. Dvirka and Bartilucci Consulting Engineers (D&B) provided construction oversight services under NYSDEC Work Assignment No. D00298-19. The remedial construction contractor was Metcalf & Eddy Technologies, Inc.

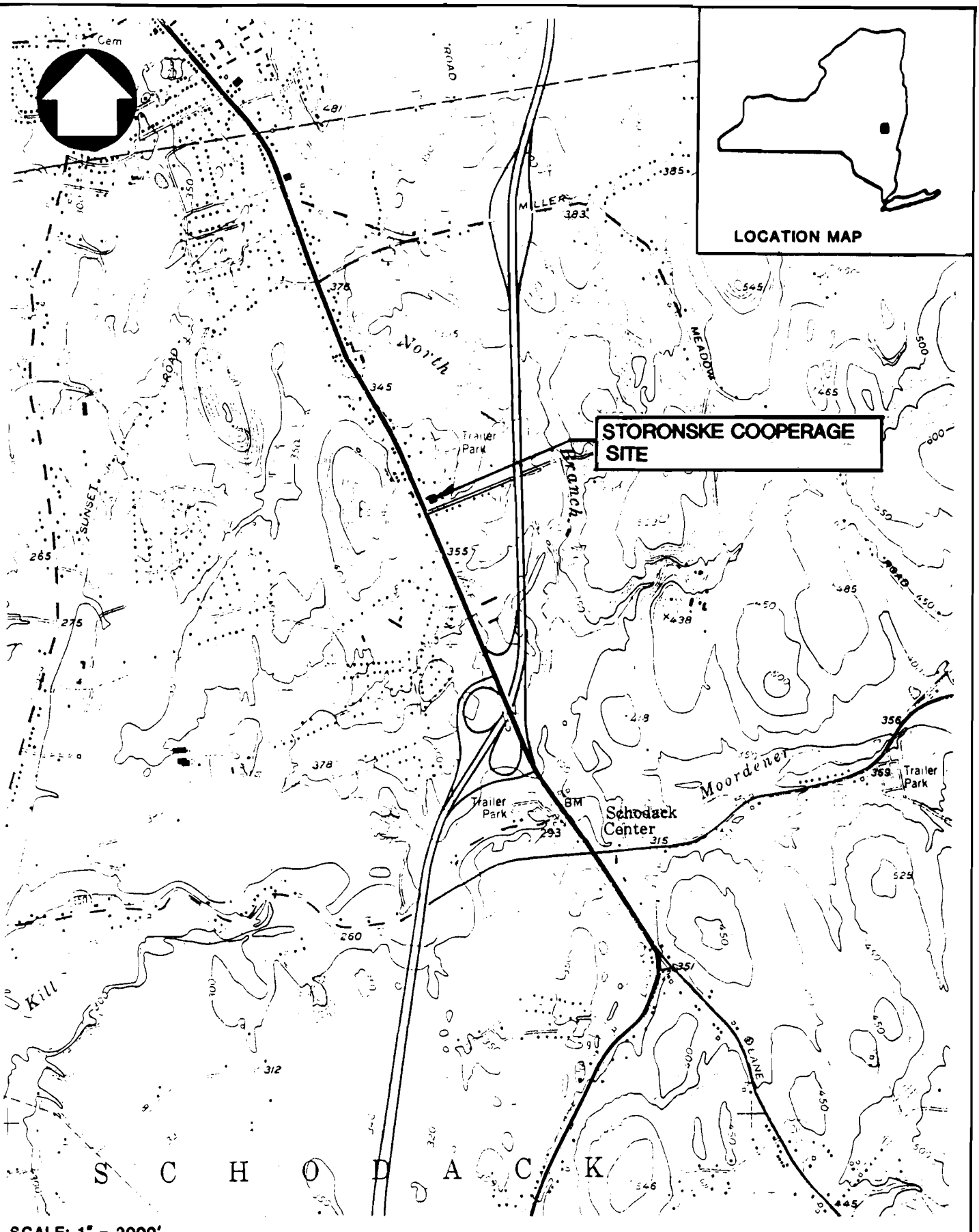
The date established for commencement of the project in the Notice to Proceed was February 15, 1995. The project was deemed substantially complete on July 25, 1997, and final completion was achieved on January 9, 1998.

The main work items completed under the Contract were as follows:

- Construction, operation, maintenance, and subsequent decommissioning and removal of a soil vapor extraction (SVE) system to remove volatile organic compounds (VOCs) from site soils;
- Excavation, sampling, testing, and off-site disposal of PCB and lead contaminated soil, and debris; and
- Backfilling of the excavations with clean soil, and placement of 6 inches of top soil and grass seeding.

1.2 Site Description

The Storonske Cooperage Site, New York State Superfund Site No. 4-42-021, is an approximately 5-acre parcel located in the Town of Schodack in Rensselaer County, New York. The site is located on the north side of Kraft Road, immediately east of the intersection of Kraft Road and U.S. Routes 9 and 20 (see Figure 1-1). The facility was used for the cleaning and reconditioning of 55-gallon drums beginning in 1973. Prior to 1973, the property was utilized as a bus garage and depot. A facility site plan is provided as Figure 1-2.

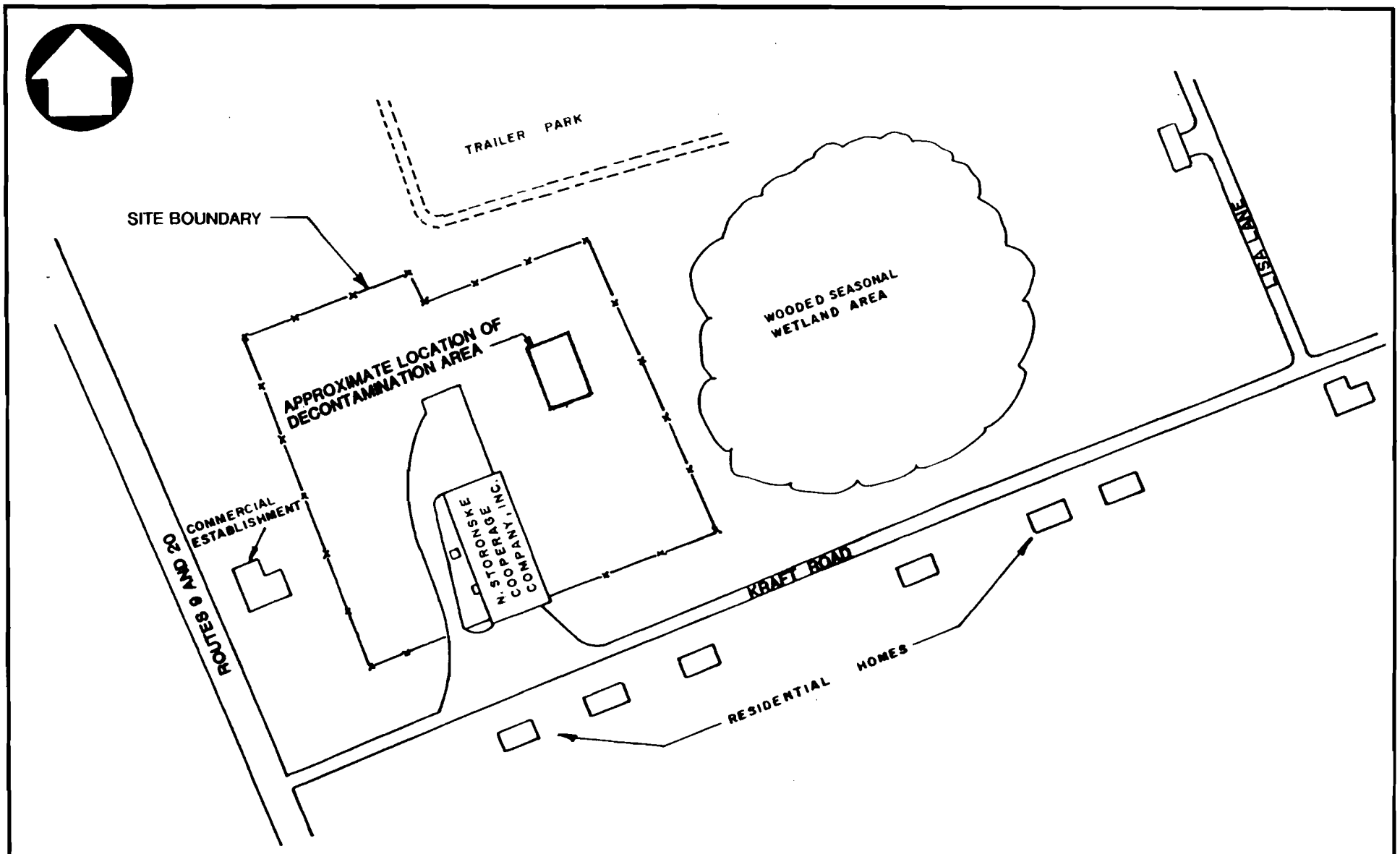


STORONSKE COOPERAGE SITE
FINAL REMEDIATION REPORT

Dvirka and Bartilucci CONSULTING ENGINEERS

SITE LOCATION MAP

FIGURE 1-1



STORONSKE COOPERAGE SITE
RENSSELAER COUNTY, N.Y.

SITE PLAN

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Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 1-2

Based on investigations conducted between 1988 and 1991, contaminated soil and groundwater were identified at the site. The remedial action proposed in the March 1992 Record of Decision addressed on-site soil contaminated with volatile organic compounds, lead and PCBs. VOCs comprised primarily tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, 1,2-dichloroethane, xylenes, ethylbenzene, toluene and chlorobenzene.

1.3 Project Objectives

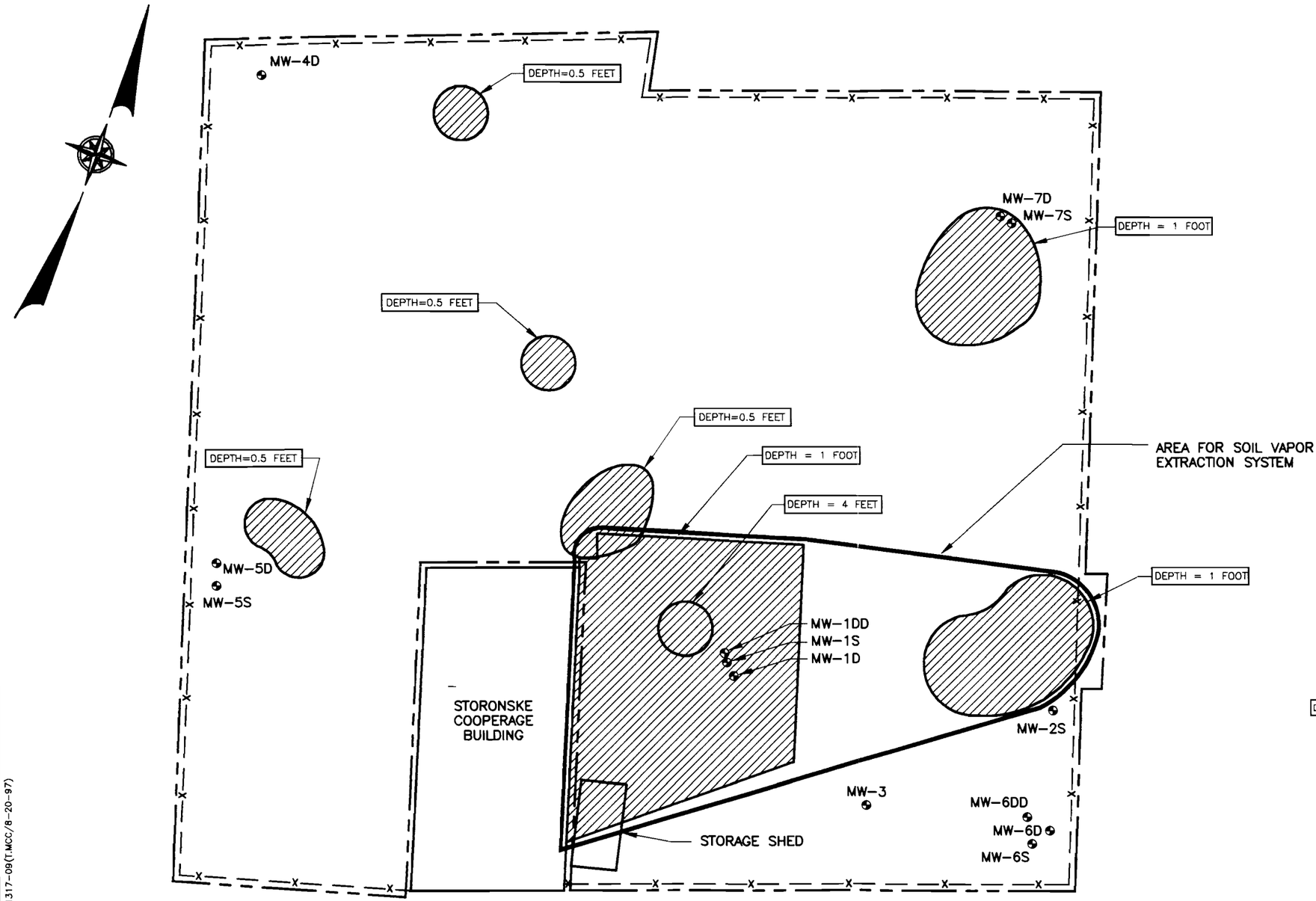
The overall objectives of the remediation were to:

- Reduce levels of volatile organic contaminants in on-site soils to prevent off-site migration, in particular through the groundwater;
- Remove approximately 1,300 tons of soil contaminated with lead and PCBs; and
- Revegetate the site to prevent erosion and control migration of any residual contamination.

The following cleanup goals were established for the site soils:

Organic Compounds	Soil Cleanup Goal (ppm)
Tetrachloroethene	1.5
1,1,1-Trichloroethane	1.0
Trichloroethene	1.0
1,2-Dichloroethane	0.1
Ethylbenzene	5.5
Chlorobenzene	1.5
Toluene	1.5
Total Xylenes	1.2
PCBs to a depth of 1'	1.0
PCBs to a depth of 4'	10
Metals	
Lead	200

The areas of the site which were targeted for remediation based on the investigations are depicted on Figure 1-3.



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STORONSKE COOPERAGE SITE
FINAL REMEDIATION REPORT

LIMITS OF EXCAVATION AND SOIL VAPOR EXTRACTION

Dvirka and Bartilucci Consulting Engineers

FIGURE 1-3

2.0 PRECONSTRUCTION ACTIVITIES

2.1 Public Meeting

A Public Meeting to describe the remediation plan for the Storonske Cooperage Site, prior to commencement of construction, was held at the Town of Schodack Town Hall on January 23, 1995. Presentations were made at the Public Meeting by representatives of the New York State Department of Environmental Conservation and Department of Health.

2.2 Preconstruction Meeting

A Preconstruction Meeting was held at the NYSDEC offices in Albany on January 23, 1995 (the same date as the Public Meeting). In attendance were representatives of the NYSDEC, Metcalf & Eddy Technologies, Inc. (the selected remedial Contractor) and Dvirka and Bartilucci Consulting Engineers (the construction oversight engineer). As documented in the minutes of the Preconstruction Meeting, items of discussion included the responsibilities of the project participants and lines of communication; project schedule; procedures for submittals, subcontractor approval, payment, changes in the work and dispute resolution; and Minority and Women's Business Enterprise (M/WBE) and Equal Employment Opportunity (EEO) requirements.

3.0 CONSTRUCTION ACTIVITIES

3.1 Contractor Submittals

As required in the Contract Documents, contractor submittals included a Health and Safety Plan (HASP), Quality Assurance/Quality Control Plan, Contingency Plan, Work and Waste Handling Plan, Surface Water Management Plan, Sampling Plan, Operations and Maintenance Plan, Site Plan, Soil Vapor Extraction System Process Flow Diagram, Process Description of SVE System, Engineering Description of SVE System and Shop Drawings. Shop Drawings were submitted for electrical supply, SVE system piping and mechanical equipment, temporary site facilities layout, decontamination pad, NYSDEC/Engineer's Trailer, SVE System enclosure, and the health and safety trailer. The Contractor's submittals were reviewed by D&B for conformance with the requirements of the specifications, and revised by the Contractor in accordance with D&B's comments.

3.2 Site Preparation and Facilities

The Contractor mobilized to the site on March 14, 1995, to initiate site preparation activities and installation of temporary utilities. Site preparation activities undertaken by the Contractor included:

- Installation of crushed stone access roads;
- Delivery and installation of health and safety trailer and NYSDEC/Engineer's office trailer;
- Trenching for and installation of electric and telephone service;
- Construction of the decontamination pad;
- Installation of the Project Sign at the site entrance; and
- Repair of site perimeter fencing and installation of temporary fencing around areas of known soil contamination.

During site preparation activities, an existing depression (or trench) and soil/debris piles in the vicinity of the former wastewater lagoon was noted by the Contractor. The Contractor indicated that the depression and piles would interfere with installation of the SVE wells, and proposed to regrade the area by pushing the soil piles into the trench and leveling the area. The Contractor was required to revise the HASP and Work and Waste Handling Plan to perform this work. In addition, a total of eleven (11) soil samples were collected from the bottom of the trench and from the soil piles, and analyzed for lead and PCBs prior to regrading. All sample results were below the project cleanup goals. The area was regraded by the Contractor on April 15, 1995.

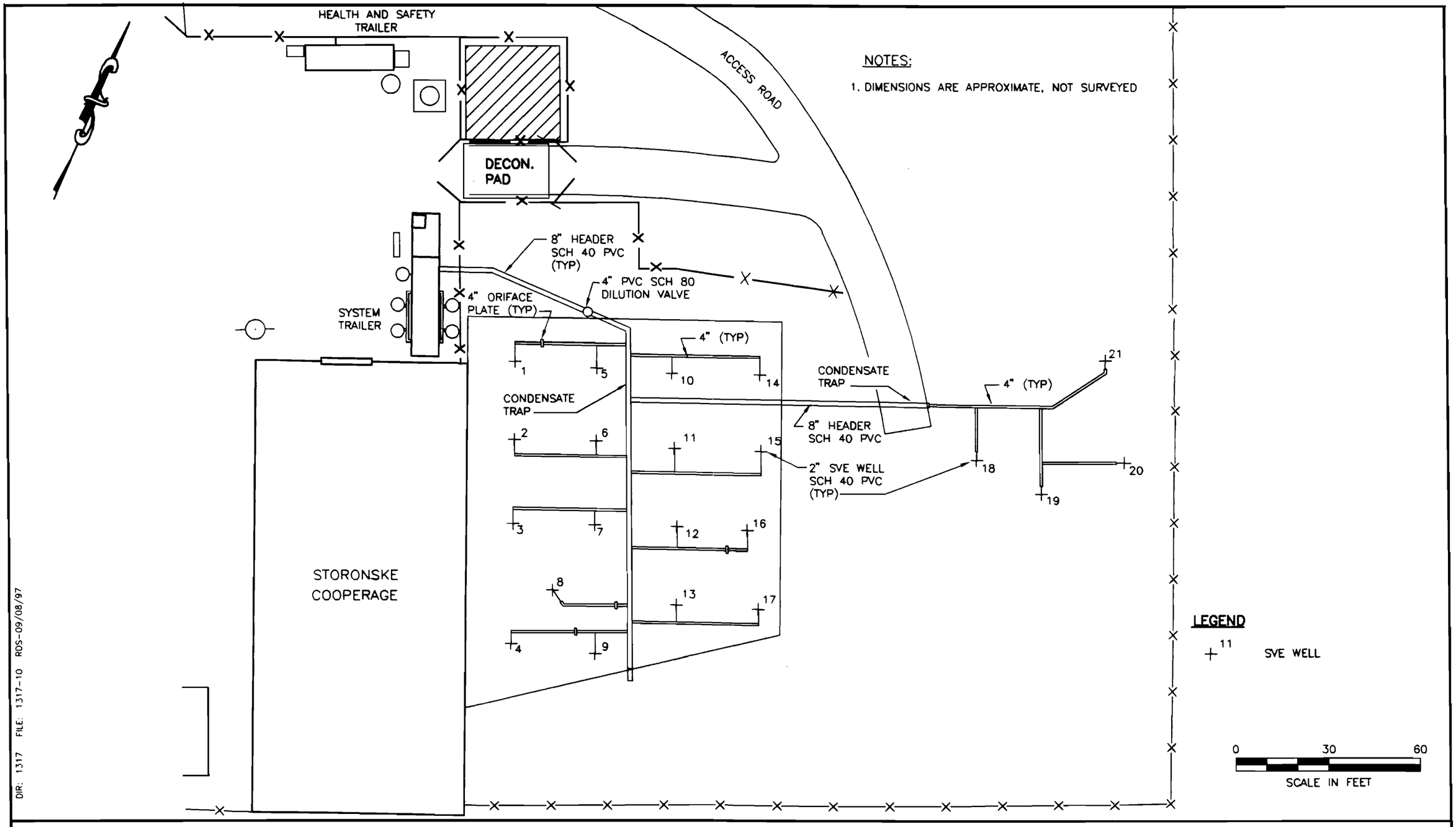
3.3 Soil Vapor Extraction System

3.3.1 Construction

The Contractor began installation of the soil vapor extraction wells on April 10, 1995. Initially, twenty-one (21) SVE wells were installed. The approximate location and configuration of the SVE wells, and associated aboveground pipe are shown on Figure 3-1. Each SVE wellhead included a sampling port, pressure gauge and ball valve.

The system trailer, which housed the SVE mechanical equipment, was delivered to the site on May 1, 1995, and the SVE wells and connecting piping were completed on May 7, 1995. The primary equipment housed within the SVE system trailer included the following:

- One (1) 1,000 gallon vapor/water separator supplied by Remedial Systems, Inc. and a condensate transfer pump;
- One (1) 60 horsepower belt driven rotary positive displacement vacuum blower-Sutorbilt® Legend™ Model 8L, including discharge and inlet silencers;
- NEMA 4X Control Panel;
- Two (2) 1,000 pound capacity vapor phase granular activated carbon canisters; and
- 8-inch diameter schedule 80 PVC discharge stack.



STORONSKE COOPERAGE SITE

SVE SYSTEM LAYOUT

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FIGURE 3-1

Two series of three (3) trains of carbon canisters operating in parallel were provided. Two (2) trains were located outside the enclosure. In addition, a 1,000 gallon condensate storage tank was supplied.

The SVE system blower was started for the first time on May 8, 1995. Preliminary vacuum and flow measurement using pitot tubes were measured at the well heads on May 10, 1995. However, preliminary measurements indicated that noise levels from the SVE system blower exceeded the specified 50 dBA limit at the site property boundaries. In addition, the Contractor was initially unable to demonstrate achievement of the specified minimum total flow rate of 1,300 SCFM and minimum vacuum of 6.5 inches of mercury at each wellhead.

On June 1, 1995, an active noise attenuation device was installed by the Contractor on the vacuum blower exhaust. Between June 15 and August 2, 1995, the SVE system was operated intermittently while the Contractor continued to make adjustments in order to meet specified performance requirements. In addition, although specified flow rates and vacuum had not been achieved, preliminary gas phase sampling of the SVE system for volatile organic compounds was initiated during this time period utilizing activated charcoal filters and a sample pump (Modified NIOSH Method 1501). This initial sampling method proved to be unsuccessful and was replaced with a syringe based method. In support of attempts to obtain more accurate gas phase flow rate measurements, the Contractor ultimately installed orifice plates in the discharge piping from SVE Wells 1, 4 and 8.

In order to demonstrate compliance with the specified performance objectives, on August 3, 1995, the Engineer and Contractor agreed on an "acceptance protocol." The protocol consisted of a three (3) day "pre-test" and fourteen (14) day test to demonstrate adequate flow rates, noise attenuation, proper operation of mechanical equipment and instrumentation, and sample collection methods. The test was initiated by the Contractor on August 9, 1995, and conditionally accepted on August 23, 1995. The Contractor initiated the "High Concentration Testing" phase of operation on August 24, 1995, as discussed below.

3.3.2 Operation and Progress Monitoring

The High Concentration Testing Phase of SVE system operation began on August 24, 1995. This phase of operation included sixty (60) days of continuous (24 hour per day) operation of the SVE system and weekly progress monitoring with biweekly reporting.

Progress monitoring during the operating period included measurement of temperature, pressure and flow rate, and collection and analysis of gas phase samples for VOCs at the following points:

- Each vapor extraction wellhead;
- Inlet to the vapor/water separator;
- Discharge to each of the three (3) primary vapor phase carbon treatment canister; and
- Inlet to the vacuum blower.

Based on the low concentrations of VOCs detected at the wellheads in August and early September 1995, on September 13, the system was sampled and then shutdown for one (1) week and restarted on September 20. The results of the September 13 and September 20, 1995 sampling results are presented in Table 3-1. Based on the lack of variability between the September 13 and 20 sampling results and consistently low soil vapor concentrations detected throughout the month of October 1995, soil sampling for VOCs was undertaken in November 1995.

The confirmatory soil sampling program, conducted by the Contractor under supervision of the Engineer, consisted of the advancement of eight soil borings (SB-1 through SB-7 and SB-9) in the area of the SVE system well field, at the locations shown on Figure 3-2. Seven of the boring locations (i.e., all except SB-3) corresponded to the approximate locations of soil samples collected under previous investigations conducted prior to installation of the SVE system. The

Table 3-1

STORONSKE COOPERAGE SITE REMEDIATION
SAMPLING RESULTS BEFORE AND AFTER
SVE SYSTEM SHUTDOWN - SEPTEMBER 1995
TOTAL VOCs (ug/l)

Sample Point	9/13/95 (Date of System Shutdown)	9/20/95 (Date of System Restart)	9/27/95
SVE-1	5.620	17.842	3.500
SVE-2	5.024	12.199	2.827
SVE-3	1.618	3.970	1.476
SVE-4	0.048	0.240	0.048
SVE-5	1.026	2.822	1.152
SVE-6	2.796	4.962	3.269
SVE-7	0.991	5.022	0.977
SVE-8	0.000	1.075	0.281
SVE-9	0.000	0.114	0.000
SVE-10	0.727	1.855	1.357
SVE-11	0.138	0.334	0.143
SVE-12	0.000	1.035	0.034
SVE-13	0.113	2.081	0.161
SVE-14	0.315	0.761	0.204
SVE-15	0.122	0.348	0.134
SVE-16	0.000	0.189	0.066
SVE-17	0.156	0.750	0.000
SVE-18	Closed	Closed	Closed
SVE-19	0.211	0.550	0.093
SVE-20	0.462	0.788	0.443
SVE-21	0.172	0.792	0.300

seven locations were selected to allow for direct before (i.e., pre-SVE) and after comparison of soil contaminant concentrations.

In accordance with the specifications, three soil samples were collected from each boring for analytical testing. The samples were selected based on photoionization detector (PID) readings. If no elevated readings were observed, then the depth intervals for soil samples were selected to correspond with the depth intervals of the soil samples from previous investigations (i.e., where elevated VOC concentrations were previously detected).

The selected samples were analyzed for volatile organic compounds (USEPA SW-846 Method 8010/8020). Figure 3-2 presents a summary of the results for the eight compounds for which Soil Cleanup Goals were established for the site. The Contract Soil Cleanup Goals were achieved in every soil sample collected except for sample SB-7 (4'-6'). 1,2-Dichloroethane (1,2-DCA) was detected in sample SB-7 (4'-6') at 120 ug/kg, which exceeds the Soil Cleanup Goal of 100 ug/kg for this compound. The concentration (i.e., 5.7 ug/kg) of 1,2-DCA detected in the underlying sample SB-7 (6'-8') was below the Soil Cleanup Goal, indicating limited vertical extent of contamination.

To further evaluate the results achieved by the SVE system, comparison of the confirmatory samples was made to the concentrations of VOCs detected in soil samples collected at the site during previous investigations. Based on the comparison, significant decreases in the concentrations of the target compounds had occurred in the soils at the site. For example, 1,2-dichloroethane at 1,900 ug/kg, chlorobenzene at 1,900 ug/kg, ethylbenzene at 15,700 ug/kg, tetrachloroethene at 3,500 ug/kg, toluene at 29,900 ug/kg, trichloroethene at 2,600 ug/kg and xylenes (total) at 43,500 ug/kg were detected in the vicinity of SB-3 at 2' to 6' below grade in November 1988. None of these compounds, with the exception of total xylenes at 0.9 ug/kg, were detected in SB-3 (4'-6') in November 1995. Similar decreases were achieved for sample locations SB-4 (8'-10'), SB-5 (6'-8'), SB-6 (1'-3') and SB-9 (4'-6').

Based on the November 1995 sampling program, it was concluded that a significant decrease had occurred in the concentrations of VOCs in the soils at the Storonske Cooperage Site. Additionally, as stated above, the Contract Soil Cleanup Goals were achieved in every soil sample collected except SB-7 (4'-6') in which 1,2-dichloroethane was detected at 120 ug/kg, which exceeds the cleanup goal of 100 ug/kg for this compound. Due to the Contractor's failure to implement the specified soil vapor sampling program at the start of SVE system operation, it was not possible to evaluate the initial removal efficiencies achieved or to estimate total quantities of VOCs removed from site soils.

Regarding the exceedance of the Contract Soil Cleanup Goal for 1,2-dichloroethane detected in sample SB-7 (4'-6'), it was concluded that this compound was not being extracted from the soils by the SVE wells in the vicinity of SB-7. Reviewing the SVE system soil vapor sampling results for the two sampling events (i.e., November 27, 1995 and December 28, 1995) conducted after the collection of the confirmatory samples showed that 1,2-dichloroethane was not detected at any of the well heads. This included wells SVE-2, SVE-7 and SVE-8, which based on their locations, should have an influence on soils in the vicinity of SB-7.

Accordingly, it was suggested at that time that continued operation of the SVE system may not necessarily result in cost effective achievement of the Soil Cleanup Goals for 1,2-DCA, and since the Soil Cleanup Goals were met in all other soil samples, continued *extended* operation of the SVE System may be unnecessary.

However, in order to confirm this conclusion, prior to shutting down and dismantling the SVE system, additional soil sampling was recommended to ensure achievement of the Soil Cleanup Goals across the entire contamination zone. These recommendations were implemented under a second round of soil sampling conducted at the site.

The second confirmatory soil sampling program, conducted by the Contractor in February 1996, consisted of the advancement of soil borings in the area of the SVE system well field at

nine locations, SB-10 through SB-18 (see Figure 3-2). Three samples from each boring were selected for analysis for VOCs.

The results of the analysis for volatile organic compounds (USEPA SW-846 Method 8010/8020) performed on the 27 second round confirmatory soil samples indicated the Contract Soil Cleanup Goals were achieved at every soil boring location except SB-14. Following is a summary of the concentrations of target compounds detected in soil boring SB-14:

Compound	Concentrations in ug/kg			Contract Soil Cleanup Goal ug/kg
	SB-14 (2'-4')	SB-14 (4'-6')	SB-14 (8'-10')	
1,2-Dichloroethane	U	11	U	100
1,1,1-Trichloroethane	U	3 J	U	1,000
Trichloroethene	U	8	2,700	1,000
Tetrachloroethene	U	9	5,800	1,500
Toluene	46 J	52,000 D	57,000	1,500
Chlorobenzene	18 J	24	250 J	1,500
Ethylbenzene	1,100 D	16,000 D	31,000	5,500
Xylene (total)	266 J	51,000 D	126,000	1,200

Notes: J - Concentration less than contract required detection limit, but greater than instrument detection limit, value estimated.
D - Sample diluted.

As indicated, no exceedances of the Contract Soil Cleanup Goals were detected in the 2 to 4-foot deep sample collected from boring SB-14. The concentrations of toluene, ethylbenzene and xylene (total) detected in the 4 to 6-foot depth interval exceeded cleanup goals, and in the 8 to 10-foot depth interval, trichloroethene, tetrachloroethene, toluene, ethylbenzene and xylene (total) were detected in excess of the soil cleanup goals.

Based on the soil sample results, it appeared that soil in the area of SB-14 was outside the influence of the surrounding soil vapor extraction wells. Additionally, the gas phase samples collected from the vapor extraction wells located closest to soil boring SB-14 (i.e., SVE-7, SVE-8, SVE-9, SVE-12 and SVE-13) indicated only very low concentrations of trichloroethene and tetrachloroethene in two of the five well heads, and toluene, ethylbenzene and xylene were not

detected in the gas being extracted from any of the five wells. Therefore, it was concluded that continued operation of the SVE system in the then existing mode of operation would not result in remediation of the contamination detected in SB-14, and the following program was recommended:

- Close off valves at all well heads, except SVE-7, SVE-8, SVE-9, SVE-12 and SVE-13;
- Adjust valves at wells SVE-7, SVE-8, SVE-9, SVE-12 and SVE-13, as necessary, to obtain a minimum well head vacuum of approximately 6.5 in Hg (approximately 88 in. W.C.) at each of these wells;
- Monitor for changes in water accumulation rate in the liquid/vapor separator; and
- Perform monitoring and sampling once system has reached steady state.

It was expected that the sampling results would provide an indication of whether or not the recommended adjustments were resulting in extraction of the contaminants detected at SB-14, and if the adjustments were unsuccessful, alternative approaches would include installing a low permeability surface membrane to direct air flow through the soils around SB-14 and/or installing an additional extraction well at the location of SB-14.

On May 24, 1996, the Contractor closed the valves at all well heads except SVE-3, 4, 7, 8, 9, 12, 13, 16 and 17, and collected vapor phase samples at each of these well heads. (SVE-3, 4, 16 and 17 were kept in operation due to the limitations of the vacuum blower which could not withstand further reductions in flow rate.) Table 3-2 presents estimated hourly mass removal rates at the well heads closest to SB-14 based on the May 24 gas phase sampling results for the target contaminants detected in SB-14 soils. Also presented for comparison purposes are estimated hourly mass removal rates at these soil vapor extraction wells for the prior three sampling events. Based on these results, it was concluded that the adjustments implemented by the Contractor were not effective in removing the target contaminants detected in the soils at SB-14. Accordingly, installation of a new soil vapor extraction well at the location of boring SB-14 was recommended.

Table 3-2

STORONSKE COOPERAGE SITE REMEDIATION
ESTIMATED SVE WELL EXTRACTION RATES
(LBS/HOUR)

Sample Point	Compound	Sample Date			
		11/27/95	12/26/95	03/27/96	05/24/96
SVE-7	Trichloroethene	0.00017	0.00006	0.00005	0.00004
	Tetrachloroethene	0.00035	0.00014	0.00011	0.00009
	Toluene	0.00007	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND
	Xylene (total)	ND	ND	ND	ND
SVE-8	Trichloroethene	0.00001	ND	ND	ND
	Tetrachloroethene	0.00006	0.00001	0.00002	0.00003
	Toluene	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND
	Xylene (total)	ND	ND	ND	ND
SVE-9	Trichloroethene	0.00001	ND	ND	ND
	Tetrachloroethene	0.00002	ND	ND	ND
	Toluene	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND
	Xylene (total)	ND	ND	ND	ND
SVE-12	Trichloroethene	0.00001	ND	ND	ND
	Tetrachloroethene	0.00001	ND	ND	ND
	Toluene	0.00004	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND
	Xylene (total)	ND	ND	ND	ND
SVE-13	Trichloroethene	ND	ND	ND	ND
	Tetrachloroethene	0.00001	ND	ND	0.000017
	Toluene	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND
	Xylene (total)	ND	ND	ND	ND

On August 1, 1996, an additional soil vapor extraction well, SVE-22, was installed at SB-14 and operation of the soil vapor extraction system with the additional well (SVE-22) was continued.

Initial sampling of the gas phase at the SVE-22 well head showed elevated concentrations of toluene (21 ug/l) and total xylene (5.6 ug/l). The system was shut down and restarted on September 11, 1996 and September 19, 1996; October 24, 1996 and November 1, 1996; and December 17, 1996 and January 3, 1997, respectively. On the date of each system restart, the gas phase at well head SVE-22 was sampled and compared to the concentrations prior to shutdown. The January 3, 1997 sampling event showed no significant increases in contaminant concentrations from the December 17, 1996 (pre-shutdown) sampling event.

As a result, on January 29, 1997, soil sampling was undertaken in the vicinity of SB-14 to confirm the progress of the soil vapor extraction efforts. The results of the January 1997 soil sampling exhibited exceedances of the Contract Cleanup Goals for 1,1,1-trichloroethane, trichloroethene, toluene, tetracholorethene, ethylbenzene and total xylene (see Table 3-3 and Figure 3-2). In addition, perched water was encountered in the soil boring at approximately 7 feet below grade.

In response to the results of the January 1997 soil sampling program, the focused investigation described in Section 5.0 of this report was implemented in February 1997.

As discussed above, previous confirmatory soil sampling within the soil vapor extraction system well field had not indicated the presence of any other contaminated areas. However, based on the February 1997 sampling program and the scarcity of detailed information regarding the sources of contamination encountered, additional investigation was recommended before proceeding with additional remediation in the area of investigation (see Section 5.0).

Based on the results of the February 1997 investigation and prior sampling programs, in correspondence dated March 24, 1997, the Contractor was advised to decommission and remove

Table 3-3

STORONSKE COOPERAGE SITE REMEDIATION
SB-14 SOIL SAMPLING RESULTS
TARGET VOLATILE ORGANIC COMPOUNDS

Soil Boring Location	Sample Depth	1,1,1-Trichloroethane	1,2-Dichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Chlorobenzene	Ethylbenzene	Xylene
SB-14 (Feb. 1996)	2'-4'	U	U	U	46 J	U	18 J	1,100 D*	266 J
	4'-6'	3 J	11	8	52,000 D**	9	24	16,000 D**	51,000 D**
	8'-10'	U	U	2,700	57,000	5,800	250 J	31,000	126,000
SB-14A (Jan. 1997)	4'-6'	U	U	U	1,200	400	U	1,200	6,300
	6'-8'	4,400	U	1,400	96,000	15,000	U	96,000	382,000
	8'-10'	830 J	U	3,200	29,000	25,000	U	29,000	94,000

Qualifiers:
J: Compound found at a concentration below the CRDL, value estimated.
U: Compound analyzed for but not detected.
D*: Result taken from the 1:5 dilution.
D**: Result taken from the 1:2 dilution.

Notes:
: Soil concentration exceeds Contract Cleanup Objective.

the soil vapor extraction system from the site and proceed with the next phase of the work (i.e., excavation and disposal of contaminated soil), as discussed in Section 3.4 below.

3.3.3 Decommissioning

3.3.3.1 - Soil Vapor Extraction System

Twenty-two (22) soil vapor extraction wells, designated SVE-1 through SVE-22, were decommissioned between May 2, 1997 and May 6, 1997. The extraction points were decommissioned by the following procedure:

- Removal of the surrounding concrete surface seal;
- Cutting and removal of the 2-inch ID. riser piping to approximately 5' below grade;
- Grouting of the screened interval and remaining riser to approximately 5' below grade by means of a tremie; and
- Backfilling to grade.

The above grade portion of the network of the soil vapor extraction system piping, together with the debris from the demolished shed and grubbed trees (see Section 3.4.4 below) was disposed of off-site. Below grade portions of the extraction system piping that were removed were combined with the excavated contaminated soil for off-site disposal (see Section 3.4.2 below).

3.3.3.2 - Monitoring Wells

The specifications required the decommissioning of monitoring wells MW-3 and MW-5S. MW-3, a 2-inch diameter monitoring well, was decommissioned on May 6, 1997, using the same procedure as the procedure used for decommissioning the soil vapor extraction wells (see Section 3.3.4.1 above). Attempts to locate MW-5S, including removal of surface soil and use of a magnetic locator in the area, were unsuccessful.

3.4 Removal of Contaminated Materials

3.4.1 Waste Characterization

For the purpose of waste characterization, soil samples were collected within the planned areas of excavation prior to the initiation of excavation activities. All of the waste characterization samples collected exhibited results below regulatory thresholds for hazardous waste. The below grade portions of trees and the sections of below grade soil vapor extraction system piping were combined with excavated soil.

The above grade portions of trees grubbed at the site were disposed of as nonhazardous waste. This material was combined with the debris from the demolition of the shed and the above grade portion of the soil vapor extraction system piping.

Six thousand (6,000) pounds of granular activated carbon from the SVE system carbon tanks were vacuumed into the tank of a vacuum truck and disposed of as nonhazardous waste based on test results.

Twelve (12) sealed drums with contents, including drill cuttings, personal protective clothing and sampling equipment, decontamination water and carbon, were labeled and disposed of as hazardous waste.

Decontamination water generated from the work was drummed and a composite sample was collected for waste characterization. The wastewater was determined to be nonhazardous and was disposed of accordingly.

Test results for the water recovered from the vapor/liquid separator and stored in the fractionation tank established the presence of trace quantities of contaminants all below regulatory thresholds for hazardous waste.

3.4.2 Soil Excavation

3.4.2.1 - Decontamination Procedures

All equipment used during decommissioning, soil sampling and excavation activities was steam cleaned at the decontamination pad prior to removal from the exclusion zone and off-site. The underside and tires of the dump trucks/trailers, which were brought into the exclusion zone for the loading of contaminated soil and debris, were washed at the decontamination pad before exiting the exclusion zone. The boot wash positioned at the west end of the decontamination pad area was used by personnel exiting the exclusion zone. Water generated from decontamination was collected and drummed for characterization and disposal.

3.4.2.2 - Storm Water Management

Soil excavation activities were not permitted during storm events. Excavations were covered with polyethylene plastic sheeting at all times, except when confirmatory sampling was being conducted. This was done to prevent the exposure of the excavations to storm water. The covers were removed just prior to backfilling.

Just prior to completion of backfill and topsoil placement activities in certain excavation areas, a heavy rain event overnight on July 10, 1997, produced erosion of the topsoil layer. After regrading, straw bails were placed in the areas of prior erosion to limit the likelihood of a similar event occurring before a healthy stand of grass could be established.

3.4.2.3 - Air Monitoring

Air monitoring was conducted in the breathing zone of workers involved in excavation and at the site perimeter downwind and upwind of excavation activities. A photoionization

detector equipped with an 11.7 eV probe was used for the monitoring of volatile organic compounds. A Miniram personal dust monitor was used to record dust level readings.

The action level for respirable nuisance dust established for the site was 5 milligrams per cubic meter. This level of dust was never recorded during work activities at the site. The action level established for dust at the perimeter of the site was 0.15 milligrams per cubic meter above background readings. Instantaneous dust levels at the site perimeter occasionally exceeded 0.15 milligrams per cubic meter momentarily when gusts of wind occurred. Work was discontinued in these instances until the readings diminished below the action level.

The action level for volatile organic compound vapors established at the site was 5 ppm. Readings of this magnitude were not recorded during soil excavation activities. In cases when volatile organic compounds were detected at 1 ppm or greater above background, a sample was collected by means of a draeger tube to determine the presence or absence of benzene. No detections of benzene were recorded. Volatile organic compound vapors were not detected at any time at the site perimeter.

3.4.2.4 - Confirmatory Sampling and Analytical Methods

The locations of confirmatory soil samples collected at the site are identified on Figure 3-3. The samples were analyzed by Galson Laboratories in East Syracuse, New York for lead. In addition, 20% of the samples were analyzed by Galson for PCBs. The remaining PCB analyses were performed utilizing an immunoassay field test kit. The methods of analyses for confirmatory samples were as follows:

- PCBs were analyzed for in the laboratory according to NYSDOH ASP Method 95-3;

- PCBs were analyzed for in the field by means of an immunoassay field test kit (Millipore Enviro Gard PCB Test Kit); and
- Lead was analyzed for in the laboratory by USEPA SW846 Method 6010.

The results of the analyses are presented in Table 3-4.

3.4.2.5 - Excavation Methods and Limits

Soil excavation was accomplished by means of hand tools and mechanical equipment. Areas around sensitive obstructions, such as monitoring wells and concrete pads, were excavated using hand tools. General excavation was accomplished using three different excavators. A Gradall G-880 was used to excavate most of the contaminated soil. Additional excavation, particularly at greater depths, was accomplished with either a track-mounted backhoe or tire-mounted backhoe/loader.

In general, initial excavation work was performed to the limits specified in the Contract or in areas of known and suspected contamination based on field observations. Additional excavation, as necessary, was performed based on the results of confirmatory sampling (i.e., endpoint sampling) results and the soil cleanup goals of:

- 1 ppm for PCBs from 0' to 1' below grade;
- 10 ppm for PCBs from 1' to 4' below grade; and
- 20 ppm for lead (no specified depth limit).

Typically, when an exceedance of the above goals was encountered, additional excavation was performed to five (5) feet laterally in all horizontal directions wherever practical and an additional half-foot (1/2') in the vertical direction. If visual observation indicated contamination beyond these limits, additional excavation was undertaken.

TABLE 3-4
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
EA-1	PE-1A	5/19/97	0.5'	U	0.023 J	33.3
	PE-1B	5/19/97	0.5'	U	0.075	70.9
	PE-1C	5/19/97	0.5'	U	U	22.8
	PE-1D	5/19/97	0.5'	U	–	42.8
	PE-1E	5/19/97	0.5'	> 5*	9.3 P*	28.7
	PE-1F	5/19/97	0.5'	U	–	53.3
	PE-1G	5/19/97	0.5'	U	–	40.4
	PE-1H	5/19/97	0.5'	U	–	19.5
OEA-1A	POE1-A	5/29/97	1.0'	U	–	17.1
	POE1-B	5/29/97	1.0'	U	U	11.8
	POE1-C	5/29/97	1.0'	U	–	28.8
	POE1-D	5/29/97	1.0'	U	–	12.7
	POE1-E	6/30/97	1.0'	–	–	44.7
EA-2	PE-2A	5/19/97	0.5'	U	–	17.2
	PE-2B	5/19/97	0.5'	U	–	14.4
	PE-2C	5/19/97	0.5'	U	U	36.6
	PE-2D	5/19/97	0.5'	1 - 5*	0.026 JP	35.7
	PE-2E	5/19/97	0.5'	> 5*	0.164 P	125
	PE-2F	5/19/97	0.5'	U	U	20.0
	PE-2F DUP	5/19/97	0.5'	U	–	–
	PE-2G	5/19/97	0.5'	U	U	18.2
	PE-2H	5/19/97	0.5'	U	–	13.6
	PER2-A	5/29/97	0.5'	~ 5*	–	236 *
	PER2-B	5/29/97	0.5'	5 - 10*	–	69.8
OEA-2A	POE2-E	6/30/97	1.5'	1 - 10	–	25.2
	POE2-F	6/30/97	1.5'	1 - 10	–	144
	POE2-G	6/30/97	1.5'	1 - 10	–	26.0
	POE2-H	6/30/97	1.5'	1 - 10	–	66.3
OEA-2B	POE2-A	6/30/97	1.5'	1 - 10	–	–
	POE2-B	6/30/97	1.5'	1 - 10	–	14.8
	POE2-C	6/30/97	1.5'	1 - 10	–	14.5
	POE2-D	6/30/97	1.5'	1 - 10	–	13.0

Notes:
* : Contamination removed.
– : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

TABLE 3-4 (continued)
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
EA-3	PE-3A	5/19/97	0.5'	U	–	30.2
	PE-3B	5/19/97	0.5'	U	–	23.2
	PE-3C	5/19/97	0.5'	U	0.047 JP	45.3
	PE-3D	5/19/97	0.5'	U	–	17.0
	PE-3E	5/19/97	0.5'	U	0.034 JP	29.7
	PE-3E DUP	5/19/97	0.5'	U	–	–
	PE-3F	5/19/97	0.5'	U	–	16.2
	PE-3G	5/19/97	0.5'	U	U	28.8
	PE-3H	5/19/97	0.5'	U	–	30.5
	E3-A	6/30/97	0.25'	1 - 10 *	–	34.7
	E3-B	6/30/97	0.25'	1 - 10 *	–	114
	E3-C	6/30/97	0.25'	1 - 10 *	–	234
	E3-D	6/30/97	0.25'	1 - 10 *	–	102
	E3-E	6/30/97	0.25'	–	0.076	–
	E3-F	6/30/97	0.25'	–	0.097	–
	E3-G	6/30/97	0.25'	–	0.146	–
	E3-H	6/30/97	0.25'	–	0.182	–
EA-4	PE4-A	5/23/97	0.5'	> 10 *	12 JP*	33.2
	PE4-B	5/23/97	0.5'	> 10 *	–	228 *
	PE4-C	5/23/97	0.5'	1 - 5 *	0.484 JP	25.7
	PE4-D	5/23/97	0.5'	U	0.100 JP	20.4
	PE4-E	5/23/97	0.5'	1 - 5 *	–	430 *
	POE4-J	5/29/97	0.5'	U	–	15.5
	POE4-K	5/29/97	0.5'	U	–	13.4
	POE4-L	5/29/97	0.5'	1 - 5 *	–	142
	POE4-M	5/29/97	0.5'	~ 5 *	0.9 P	38.5
	POE4-N	5/29/97	0.5'	U	–	72.6
	POE4-N DUP	5/29/97	0.5'	U	–	–
	POE4-O	5/29/97	0.5'	U	–	17.7
OEA-4A	POE4-E	5/29/97	1.5'	U	–	14.1
	POE4-F	5/29/97	1.5'	U	–	11.9
	POE4-G	5/29/97	1.5'	U	–	12.5
	POE4-H	5/29/97	1.5'	1 - 5	–	19.2
	POE4-I	5/29/97	1.5'	~ 1	–	42.4

Notes:
* : Contamination removed.
– : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

TABLE 3-4 (continued)
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
OEA-4B	POE4-C	5/29/97	3.0'	~ 1	–	17.1
	POE4-D	5/29/97	3.0'	1 - 5	–	23.8
OEA-4C	POE4-A	5/29/97	4.0'	U	–	19.4
	POE4-B	5/29/97	4.0'	U	U	22.8
OEA-4D	POE4-2-A	6/30/97	1.5'	1 - 10	–	179
	POE4-2-B	6/30/97	1.5'	~ 10	–	101
	POE4-2-C	6/30/97	1.5'	1 - 10	–	276
	POE4-2-D	6/30/97	1.5'	< 1	–	22.0
OEA-4E	POE4-2-E	6/30/97	1.5'	< 1	–	14.5
	POE4-2-F	6/30/97	1.5'	< 1	–	18.2
	POE4-2-G	6/30/97	1.5'	< 1	–	13.8
	POE4-2-H	6/30/97	1.5'	< 1	–	16.0
	DUPL4-2-H	6/30/97	1.5'	< 1	–	–
EA-5	PE-5A	5/21/97	1.0'	U	0.910 P	35.7
	PE-5A DUP	5/21/97	1.0'	U	–	–
	PE-5B	5/21/97	1.0'	U	–	70.1
	PE-5C	5/21/97	1.0'	U	–	31.9
	PE-5D	5/21/97	1.0'	~ 10	1.79 P*	248 *
	PE-5E	5/21/97	1.0'	> 10*	–	30.1
	PE-5F	5/21/97	1.0'	U	–	17.9
	PE-5G	5/21/97	1.0'	U	U	18.1
	PE-5H	5/21/97	1.0'	> 10*	–	20.6
	PE-5I	5/21/97	1.0'	> 10*	1.642 P*	31
	PE-5J	5/21/97	1.0'	U	–	22.0
	PE-5K	5/21/97	1.0'	> 10*	–	321 *
	PE-5L	5/21/97	1.0'	> 10*	91 *	254 *
	PE-5L DUP	5/21/97	1.0'	> 10*	–	–
	PE5-M	5/22/97	1.0'	U	–	18.4
	PE5-N	5/22/97	1.0'	U	–	26.4
	PE5-O	5/22/97	1.0'	U	–	14.8
	PE5-P	5/22/97	1.0'	U	U	14.2
	PE5-Q	5/22/97	1.0'	U	–	14.6
	PE5-R	5/22/97	1.0'	U	–	15.6

Notes:
* : Contamination removed.
– : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

TABLE 3-4 (continued)
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
EA-5	PE5-S	5/22/97	1.0'	U	U	30.7
	PE5-T	5/22/97	1.0'	–	–	11.9
	PE5-U	5/22/97	1.0'	U	0.024 J	15.5
	PE5-V	5/22/97	1.0'	U	0.361 P	36.3
	PE5-VD	5/22/97	1.0'	–	0.530 P,J	–
	PE5-W	5/22/97	1.0'	1 - 5	–	21.8
	PE5-X	5/22/97	1.0'	U	–	25.2
	PE5-Y	5/22/97	1.0'	U	–	41.7
	PE5-Y DUP	5/22/97	1.0'	U	–	–
OEA-5A	POE5-A	5/23/97	1.5'	1 - 5	–	278 *
	POE5-B	5/23/97	1.5'	1 - 5	0.181 P	199
	POE5-C	5/23/97	1.5'	U	–	15.8
	POE5-D	5/23/97	1.5'	U	0.020 J	22.9
	POE5-E	5/23/97	1.5'	U	–	20.4
	POE5-F	5/23/97	1.5'	~ 5	0.016 JP	274 *
	POE5-G	5/23/97	1.5'	> 10*	–	123
	POE5-G DUP	5/23/97	1.5'	–	–	–
	POE5-H	5/23/97	1.5'	> 10*	–	208 *
	POE5-H DUP	5/23/97	1.5'	5 - 10	–	–
OEA-5B	POE5-2-D	5/30/97	2.5'	1 - 5	–	105
	POE5-2-E	5/30/97	2.5'	U	–	116
	POE5-2-F	5/30/97	2.5'	U	–	151
	POE5-2-G	5/30/97	2.5'	U	–	17.3
	POE5-2-G DUP	5/30/97	2.5'	–	–	15.5
	POE5-2-H	5/30/97	2.5'	U	–	38.4
	POE5-2I	5/30/97	2.5'	1 - 5	–	59.0
	POE5-2I DUP	5/30/97	2.5'	1 - 5	–	–
OEA-5C	PE5-T	5/22/97	2.0'	U	–	11.9
OEA-5D	POE5-2-A	5/30/97	4.0	U	–	74.0
	POE5-2-B	5/30/97	4.0	1 - 5	–	54.9
	POE5-2-C	5/30/97	4.0	1 - 5	–	91.5
OEA-5E	POE5-3-A	6/30/97	4.0'	1 - 10	–	92.2
	DUPL-5-3-A	6/30/97	4.0'	1 - 10	–	–
	POE5-3-B	6/30/97	4.0'	< 1	–	92.0

Notes:
* : Contamination removed.
– : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

TABLE 3-4 (continued)
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
OEA-5E	POE5-3-C	6/30/97	4.0'	< 1	--	13.2
	POE5-3-D	6/30/97	4.0'	< 1	--	47.4
	DUPL5-3-D	6/30/97	4.0'	< 1	--	--
EA-6	PE-6A	5/20/97	1.0'	U	--	16.5
	PE-6B	5/20/97	1.0'	U	--	14.5
	PE-6B DUP	5/20/97	1.0'	U	--	--
	PE-6C	5/20/97	1.0'	1 - 5	U	19.7
	PE-6D	5/20/97	1.0'	U	--	15.6
	PE-6E	5/20/97	1.0'	1 - 5	0.023 JP	15.4
	PE-6F	5/20/97	1.0'	U	--	14.4
	PE-6G	5/20/97	1.0'	U	--	12.7
	PE-6H	5/20/97	1.0'	U	--	14.1
	PE-6I	5/20/97	1.0'	U	U	12.3
	PE-6J	5/20/97	1.0'	U	--	13.1
	PE-6K	5/20/97	1.0'	U	--	18.3
	PE-6L	5/20/97	1.0'	U	U	17.7
	PE-6L DUP	5/20/97	1.0'	U	--	--
EA-7	PE-7A	5/21/97	1.0'	U	U	39.6
	PE-7B	5/21/97	1.0'	U	0.128 P,J	64.3
	PE-7C	5/21/97	1.0'	U	--	22.2
	PE-7D	5/21/97	1.0'	U	--	72.3
	PE-7E	5/21/97	1.0'	U	U	20.9
	PE-7F	5/21/97	1.0'	U	--	33.3
	PE-7G	5/21/97	1.0'	U	0.141 JP	59.7
	PE-7H	5/21/97	1.0'	U	--	38.6
	PE-7I	5/21/97	1.0'	U	--	39.7
	PE-7J	5/21/97	1.0'	U	--	44.0
	PE-7K	5/21/97	1.0'	1 - 5	--	181
	PE-7L	5/21/97	1.0'	1 - 5	--	43.2
EA-8	PE-8A	5/19/97	0.5'	U	--	18.4
	PE-8B	5/19/97	0.5'	U	0.026 J	27.3
	PE-8B DUP	5/19/97	0.5'	U	--	--

Notes:
* : Contamination removed.
-- : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

TABLE 3-4 (continued)
STORONSKE COOPERAGE SITE REMEDIATION
POST EXCAVATION END POINT SOIL SAMPLING RESULTS

				PCBs (mg/kg)		Lead (mg/kg)
Excavation Area	Sample ID	Date Collected	Sample Depth	Field Test Results	Laboratory Results	Laboratory Results
EA-8	PE-8C	5/19/97	0.5'	U	--	25.9
	PE-8D	5/19/97	0.5'	U	0.050 JP	154
	PE-8E	5/19/97	0.5'	U	--	15.4
	PE-8F	5/19/97	0.5'	U	U	17.6
	PE-8G	5/19/97	0.5'	U	--	23.7
	PE-8H	5/19/97	0.5'	U	--	35.8
	PE-8I	5/19/97	0.5'	U	--	23.1
	PE-8J	5/19/97	0.5'	U	--	22.5
	PE-8K	5/19/97	0.5'	U	--	14.0
	PE-8L	5/19/97	0.5'	U	--	19.4
EA-9	PE9-A	5/22/97	4.0'	U	--	494 *
	PE9-B	5/22/97	4.0'	U	--	13.2
	PE9-C	5/22/97	4.0'	U	0.157 P	22.7
	PE9-D	5/22/97	4.0'	1 - 5	--	24.9
	PE9-E	5/22/97	4.0'	1 - 5	--	21.2
	PE9-F	5/22/97	4.0'	1 - 5	0.240 P	19.2
	PE9-G	5/22/97	4.0'	U	--	41.6
	PE9-H	5/22/97	4.0'	U	U	29.6
	PE9-H DUP	5/22/97	4.0'	U	--	--
OEA-9A	POE9-A	6/30/97	5.0'	10 - 50	--	199
	POE9-B	6/30/97	5.0'	1 - 10	--	37.2
	POE9-C	6/30/97	5.0'	1 - 10	--	148
	POE9-D	6/30/97	5.0'	10 - 50	--	156
EA-DA	DECA-N	5/30/97	Grade	1 - 5*	--	163
	DECB-S	5/30/97	Grade	U	--	153
OEA-DA	DECA-N-2-A	6/30/97	1.0'	< 1	--	18.9
	DECA-N-2-B	6/30/97	1.0'	< 1	--	17.7
	DECA-N-2-C	6/30/97	1.0'	< 1	--	18.6
	DECA-N-2-D	6/30/97	1.0'	1 - 10	--	16.3
	DECA-N-2-D DUP	6/30/97	1.0'	1 - 10	--	12.7
	PILEL-A	5/29/97	Surface	1 - 5*	--	346 *
	PILER-A	5/29/97	Surface	U	--	56.4

Notes:
* : Contamination removed.
-- : Not analyzed for.

Qualifiers:
U : Analyzed for but not detected.
J : Concentration less than the CRDL but greater than the IDL, value estimated.
P : Concentration from primary and confirmatory columns have a >25% difference, lower value reported.

The Contractor began mobilization of excavation equipment to the site on May 19, 1997, and excavation activities were completed on June 19, 1997. Presented below is an area-by-area description of the excavation work performed at the site.

Excavation Area 1 (EA-1)

EA-1 is the westernmost excavation area at the site (see Figure 3-3). EA-1 was excavated to a depth of approximately 0.5'. Eight (8) confirmatory soil samples, designated PE-1A through PE-1H, were collected in EA-1 at the locations depicted on Figure 3-3. The results of the analyses are presented in Table 3-4. Confirmation sample PE-1E exhibited a PCB field-screen concentration of >5 ppm and a PCB laboratory result of 9.3 ppm.

Additional excavation of 0.5' of soil to a total depth of approximately 1' below ground surface (bgs) was conducted in the northwest corner of EA-1 as a result of the PCB concentration encountered at PE-1E. Five (5) confirmatory samples (POE-1A through POE-1E) were collected to evaluate the additional excavation effort. The results of the analyses for these locations are shown on Table 3-4. As can be seen, the results are all below the cleanup objectives.

Excavation Area 2 (EA-2)

As shown on Figure 3-3, EA-2 is located near the center of the site. This is north of and adjacent to the former decontamination pad area and east of the asphalt paved area north of the building. EA-2 was excavated to a depth of approximately 0.5'. Ten (10) confirmatory soil samples were collected at the locations shown on Figure 3-3. Originally, eight (8) locations (PE-2A through PE-2H) were sampled. Two (2) locations were resampled when the initial field-screen and laboratory PCB results were found to be in disagreement. The two original samples are identified as PE-2D and PE-2E. The second round of samples at the same locations are PER2-B and PER2-A, respectively. All of the analytical results are shown on Table 3-4. All four (4) PCB field screen results were above the cleanup goal. Additionally, the lead analysis for

PER2-A was 236 ppm, which is above the cleanup goal for lead. Therefore, additional excavation was performed at both locations.

The two areas of additional excavation conducted in EA-2 were designated OEA-2A and OEA-2B. OEA-2A is located on the north side of EA-2, and OEA-2B is positioned on the south side. Based on field observations, both areas were excavated an additional 1', or to a total depth of approximately 1.5'. Four (4) confirmatory soil sampling locations each were selected for OEA-2A and OEA-2B. These locations were designated POE2-A through POE2-H and are shown on Figure 3-3. The corresponding analytical results are presented on Table 3-4. All of the results were below the cleanup goals.

Excavation Area 3 (EA-3)

As shown on Figure 3-3, EA-3 is situated in the northwest portion of the site. EA-3 was excavated to a depth of approximately 0.5'. Eight (8) confirmatory soil sample locations, identified as PE-3A through PE-3H, were selected within the limits of EA-3. The results of the analyses for these locations are presented on Table 3-4. All results are below the cleanup goals.

Four (4) additional confirmatory sample locations (E3-A through E3-D) were selected beyond the north and northeast limits of the excavation to determine the presence or absence of suspected contamination in these areas. The samples were collected at a depth of approximately 0.25'. These four (4) locations were resampled (E3-E through E3-H) for laboratory analysis for PCBs when the field-screen results exhibited PCB concentrations above the cleanup goal for all locations (1-10 ppm for E3-A through E3-D). The laboratory PCB results for E3-E through E3-H were all below 1 ppm.

As indicated on Table 3-4, E3-C exhibited a lead concentration of 234 ppm which is above the Contract cleanup goal of 200 ppm. However, because of the area's proximity to the ephemeral stream (see Figure 3-3), and since the lead concentration is below the cleanup

objective of 400 ppm currently used by NYSDEC on other projects, no additional excavation was conducted in this area.

Excavation Area 4 (EA-4)

As shown on Figure 3-3, EA-4 is located northeast of the building and south of the former decontamination pad. EA-4 was excavated to depth of approximately 0.5'. Eleven (11) confirmatory soil sample locations were selected as shown on Figure 3-3. The analytical results are presented on Table 3-4. Samples PE4-A, PE4-B, PE4-C and PE4-E, all located on the west side of the excavation, exhibited results above cleanup goals.

As a result, an additional 1' of soil to a total depth of approximately 1.5' was removed within approximately 10' of the west edge of the excavation to address the contamination detected at sample locations PE4-A, PE4-B, PE4-C and PE4-E. This additional excavation was designated OEA-4A. During excavation, it became apparent that contamination immediately adjacent to the concrete pad (see Figure 3-3) continued to depths greater than 1.5', therefore, excavation was extended in the form of two (2) terraces prior to confirmation sampling. Excavation was completed to a depth of 3' extending to approximately 5' east and northeast of the concrete pad and to a depth of 4' extending 2' outward along the east side of the concrete pad. These two (2) areas were designated OEA-4B and OEA-4C, respectively. Nine (9) confirmatory soil samples were collected in OEA-4A, OEA-4B and OEA-4C (i.e., samples POE4-A through POE4-I). All of the analytical results for these samples were below the cleanup goals, as can be seen on Table 3-4.

Sample locations POE4-L (on the north side) and POE4-M (at the southeast corner) exhibited results above the cleanup objective for PCBs (field-screen: 1-5 ppm and ~5 ppm, respectively). As a result, additional excavation was undertaken at both locations, designated OEA-4D (surrounding POE4-M) and OEA-4E (surrounding POE4-L). Based on visual observations an additional 1' of soil was removed to a total depth of approximately 1.5'. Four (4) confirmatory soil sample locations were selected for each of these additional excavations. The

results of the analyses (see Table 3-4) were below the Contract cleanup goals with the exception of lead detected at 276 ppm in sample POE4-2-C. However, because this sample was collected at approximately 1.5' in depth, the concentration is below the cleanup objective of 400 ppm currently used by NYSDEC on other projects, and the area was covered with backfill, topsoil and seeding, no additional excavation was performed in EA-4.

Excavation Area 5 (EA-5)

EA-5 is the largest excavation area in horizontal extent and is east of the building as shown on Figure 3-3. Within its confines are both EA-9 and the "Area of Future Investigation" (see Figure 3-3). The "Area of Future Investigation" is a portion of the site in which there is known VOC contamination in the soil. Future investigation and remediation activities are planned in this area, and therefore, there were no excavation activities performed within the limits of the area.

EA-5 was excavated to a depth of approximately 1'. Twenty-four (24) confirmatory soil sample were initially collected at the locations shown on Figure 3-3. The results of the analyses are shown on Table 3-4. Samples PE-5D, PE-5E, PE-5H, PE-5I, PE-5K and PE-5L exhibited results above the cleanup objectives, prompting additional excavation.

The resulting area of additional excavation was designated OEA-5A. OEA-5A was excavated an additional 0.5' to a total depth of approximately 1.5'. Eight (8) confirmatory soil samples, POE5-A through POE5-H, were collected in OEA-5A as shown on Figure 3-3. The analytical results are presented in Table 3-4. Exceedances of the cleanup goal for lead were detected in POE5-A, POE5-F and POE5-H, and exceedances of the cleanup goal for PCBs were detected in POE5-G and POE5-H. These results prompted additional excavations OEA-5B, OEA-5D and OEA-5E.

Based on visual observations, OEA-5B was excavated an additional 1' in the southeast corner of EA-5 in response to the 278 ppm concentration of lead detected at POE5-A. The

resulting depth of OEA-5B was approximately 2.5'. Six (6) confirmatory soil sample locations, POE5-2-D through POE5-2-I were selected around the perimeter of OEA-5B as shown on Figure 3-3. Samples collected at all of these locations exhibited analytical results below the cleanup goals.

OEA-5D was excavated east of EA-9 (see Figure 3-3) an additional 2.5' to a total depth of approximately 4' based upon visual observations and results above cleanup objectives for POE5-F and POE5-G. Three (3) confirmatory soil samples were collected (POE5-2-A, POE5-2-B and POE5-2-C). All of the analyses exhibited results below the cleanup goals as indicated on Table 3-4.

Additional excavation in area OEA-5E (see Figure 3-3) was conducted east of EA-9 adjacent to and north of OEA-5D. The additional excavation was undertaken in response to the results for POE5-H (>10 ppm PCBs and 208 ppm lead). Based on visual observations, this area was excavated to a total depth of approximately 4'. Four (4) confirmatory soil samples were collected for OEA-5E: POE5-3-A through POE5-3-D. The results, presented on Table 3-4, are all below the cleanup goals.

OEA-5C was excavated prior to the initial collection of confirmatory samples based upon visual indications of contamination. This area (depicted on Figure 3-3) is adjacent to the west side of the nonexcavation area. Based on visual observations, an additional 1' of soil in OEA-5C was excavated to a total depth of approximately 2' where a concrete pad was encountered. Sample PE-5T was collected within OEA-5C after excavation to 2'. The results of the analyses for lead and PCBs at this location were below the cleanup objectives as indicated on Table 3-4.

Excavation Area 6 (EA-6)

EA-6 is located in the northeast corner of the site and encompasses the former drum storage area. Excavation was completed vertically to a depth of approximately 1' and horizontally to the western limits of the former drum storage area. Twelve (12) confirmatory soil

samples, designated PE-6A through PE-6L, were collected as shown on Figure 3-3. The results of the analyses are presented on Table 3-4. All of the sample results were below the cleanup objectives.

Excavation Area 7 (EA-7)

EA-7 is located in the southeast corner of the site to the east of EA-5. This area was excavated to approximately 1' in depth. Twelve (12) confirmatory soil samples (PE-7A through PE-7L) were collected at the locations shown on Figure 3-3. The analytical results, all of which were below the cleanup goals, are presented on Table 3-4.

Excavation Area 8 (EA-8)

EA-8, in the north-central portion of the site, was excavated to a depth of approximately 0.5'. Twelve (12) confirmatory soil samples, designated PE-8A through PE-8L, were collected at the locations shown on Figure 3-3. The results of the analyses are presented on Table 3-4. All of the results were below the cleanup goals.

Excavation Area 9 (EA-9)

As depicted on Figure 3-3, EA-9 is located within EA-5, north of the area designated for further investigation and south of EA-4. EA-9 was initially excavated to a depth of approximately 4'. Eight (8) confirmatory soil samples, PE-9A through PE-9H, were collected. The results of the analyses for these samples are presented on Table 3-4. PE-9A exhibited a concentration of 494 ppm for lead which exceeds the cleanup objective of 200 ppm. All other analytical results were below the cleanup goals.

The over-excavation OEA-9A was conducted in the southeast corner of EA-9 due to the lead result for PE-9A (see Figure 3-3). Four (4) confirmatory soil samples were collected (POE9-A through POE-9D) after excavation to a total depth of approximately 5' was achieved.

The results of the analyses are presented on Table 3-4. All results were below the project cleanup goals.

Decontamination Pad Area

Approximately 1' of soil was excavated from underneath the former decontamination pad in order to restore original grade in the vicinity. Two (2) confirmatory soil samples, designated DECA-N and DECB-S, were collected at the locations shown on Figure 3-3. The analytical results are presented on Table 3-4. DECA-N exhibited a concentration of 1-5 ppm using the PCB field test kit. Therefore, additional excavation was performed.

The over-excavation OEA-DA was advanced to a depth of approximately 2' below the former decontamination pad (or 1' bgs). Four (4) confirmatory soil samples, designated DECA-N-2-A through DECA-N-2-D, were collected. The analytical results are presented on Table 3-4. All of the results were below the cleanup objectives.

Additional Soil Sampling

Two soil piles from previous underground utility trenching work were disposed of with contaminated soil from the excavation work phase. The soil piles were both located immediately to the north of the main building. After the removal of the piles, one (1) soil sample location was selected near the center of each former pile at grade. The samples were designated PILEL-A and PILER-A, and are shown on Figure 3-3. PILEL-A exhibited lead (346 ppm) and PCBs (1-5 ppm) above the cleanup objectives. Because additional investigation is scheduled for this area, no soil excavation was conducted in the vicinity.

Soil Lead Concentrations

As discussed above, at two locations the soil associated with post-excavation samples, which exhibited lead above 200 ppm, was not removed. Post excavation sample E3-C, collected

at a depth of approximately 0.25 feet, exhibited a lead concentration of 234 ppm and sample POE4-2-C, collected at a depth of approximately 1.5 feet, exhibited a lead concentration of 276 ppm.

Sample E3-C was collected along the northern perimeter of Excavation Area 3 (EA-3) as shown on Figure 3-3. EA-3 is approximately 800 square feet in area. A total of 12 locations were sampled and tested for lead following removal of soil in EA-3. This represents a sampling frequency of approximately one sample for every 65 square feet. The second highest lead sample result detected in EA-3 was 114 ppm (in sample E3-B), and the arithmetic average lead concentration for the EA-3 post-excavation samples was 59 ppm.

Sample POE4-2-C was collected after an initial excavation of 0.5 feet of soil in EA-4, collection of post excavation sample POE4-M (which exhibited an exceedance for PCB), and subsequent excavation of an additional 1 foot of soil around POE4-M in an area designated OEA-4D. OEA-4D, is approximately 120 square feet in area. A total of four locations were sampled and tested for lead following removal of the additional 1 foot of soil in OEA-4D. This represents a sampling frequency of approximately one sample for every 30 square feet. The second highest lead sample result detected in OEA-4D was 179 ppm in sample POE4-2-A, and the arithmetic average lead concentration for the OEA-4D post excavation samples was 145 ppm.

Based on the above, it can be concluded that the average lead concentrations in soil in EA-3 and OEA-4D are below the site cleanup goal of 200 ppm. In addition, it should be noted that soil excavation in both EA-3 and EA-4 was completed, at a minimum, to the contract specified depths.

As stated previously, the following should also be noted:

- The concentrations of lead detected in samples E3-C and POE4-2-C are below the 400 ppm cleanup objective currently being used by NYSDEC and NYSDOH for remediation of lead contaminated soil on other projects; and

- The remaining soil is covered by a minimum of 12 inches of clean fill, including 6 inches of topsoil and new vegetation (i.e., grass).

3.4.3 Drum Consolidation and Removal

Drums which had been stored on the site (mostly within the limits of excavation area EA-6 [see Figure 3-3]) were removed from the site and disposed of. Empty drums were crushed and disposed of with excavated contaminated soil. Open drums which contained liquids were screened with a photoionization detector. No detections were recorded. The contents of these drums were emptied on to plastic sheeting and mixed with excavated contaminated soil. The drums were then crushed and disposed of with excavated contaminated soil.

The remaining covered (non-empty) drums were staged prior to disposal west of excavation area EA-2. The drums were first opened while screening with a photoionization detector in Level C to examine the contents. Apparent waste from previous investigation work at the site, such as personal protective equipment, drill cuttings, decontamination water, carbon and sampling equipment, was found in the drums. The drums were characterized as hazardous waste and removed from the site.

3.4.4 Demolition and Debris Removal

The small wood-frame shed formerly located southeast of the building was demolished on May 20, 1997. The debris resulting from demolition of the shed, as well as the contents of the shed, were consolidated into a container for off-site transportation and disposal at High Acres Landfill in Fairport, New York. The contents of the shed included apparent sample containers and rock cores from previous investigations undertaken at the site.

Miscellaneous debris from across the site was consolidated into a single pile south of excavation area EA-6. Debris generated by the Contractor was collected in a container for disposal as municipal solid waste.

3.4.5 Waste Transportation and Disposal

Excavated soil and the below grade portions of grubbed trees and the soil vapor extraction system piping were transported and disposed of at the Seneca Meadows Landfill in Waterloo, New York.

Above grade debris from the grubbing of trees and the shed demolition debris was brought to the High Acres Landfill in Fairport, New York.

Decontamination water was transferred to a vacuum truck and transported for disposal to International Petroleum Corporation Wilmington, Delaware.

Carbon from the SVE system carbon tanks was transported for disposal to Environmental Products & Services, Inc. in Syracuse, New York.

Eleven (11) drums, characterized as hazardous waste, were transported for disposal to Environmental Quality Company in Belleville, Michigan.

3.5 Earthwork

3.5.1 Fill Material

A total of 1,642 tons of backfill material were used to replace contaminated soil removed from the site. The fill was utilized to reestablish the topography existing prior to the onset of excavation activities. Backfilling began on July 10, 1997, and was completed on July 16, 1997. The source of the backfill material was Troy Top Soil Co., Inc. of Troy, New York. Sieve analyses were provided by the supplier prior to acceptance of the material. The backfill was placed with a bulldozer and compacted using a vibrating roller in lifts no thicker than twelve (12) inches.

3.5.2 Topsoil

A total of 66,500 square feet of topsoil was placed at the site after backfill operations were complete. Topsoil placement began on July 10, 1997, and was completed on July 16, 1997. The source of the topsoil was Warren W. Fane, Inc. of Troy, New York. Sieve analyses were provided by the supplier prior to acceptance of the material. Six inches of topsoil was placed over backfill material in the areas of prior soil excavation. Due to the impact of heavy equipment on existing vegetation in certain areas, two (2) to three (3) inches of top soil was also applied in these areas prior to grass seeding.

Concurrent with the placement of topsoil, three (3) new concrete surface vaults were constructed for MW-1S, MW-1D and MW-7S to replace existing deteriorated vaults.

3.5.3 Grass Seeding

On July 25, 1997, grass seed was applied to an estimated 66,500 square feet of the site at an approximate density of 328 pounds of seed per acre. Seeding was accomplished by means of a hydroseeder. The mix included the use of fertilizer and mulch consisting of recycled wood and paper fiber.

3.5.4 Summary of Quantities

Presented below is a summary of quantities associated with the excavation phase of the project.

Item	Quantity
Non-Hazardous Soil and Debris	1,802 tons
Decontaminated Debris	25 tons
Backfill	1,642 tons
Topsoil	66,500 square feet
Seed	66,500 square feet

4.0 CHANGE ORDERS

In order to complete the work, two (2) change orders were required as discussed below.

4.1 Change Order No. 1

Change Order No. 1 was prepared for the following items:

- Collection and analysis of nine (9) additional soil borings drilled by the Contractor in February 1996, and one (1) additional soil boring drilled by the Contractor in January 1997. Three (3) samples were selected from each soil boring for analysis and analyzed for volatile organic compounds. This change was necessary in order to evaluate the performance of the soil vapor extraction system with respect to the Contract Soil Cleanup Goals.

- One additional soil vapor extraction well, SVE-22, was installed by the Contractor in July 1996. This change was necessary to increase the efficiency of the soil vapor extraction system based on the results of confirmatory soil samples which indicated the need for one additional soil vapor extraction well to remove volatile organic compounds from the one remaining area at which an exceedance of cleanup standards was detected at that time.

The total amount of Change Order No. 1 was $11,902.40.

4.2 Change Order No. 2

Change Order No. 2 was prepared for the following items:

- In lieu of conducting daily progress monitoring of the soil vapor extraction system for two months, the Contractor followed the negotiated Protocol for Completing Start-up and Initial Testing Phase (Protocol). This resulted in a reduction in the number of pressure and flow readings required as well as a reduction in the number of gas phase samples collected and analyzed for volatile organic compounds (VOCs), and therefore, a corresponding credit to the Department. The Protocol was developed and implemented to accelerate startup and acceptance of the soil vapor extraction system.

- During the period between June 15, 1995 and August 2, 1995, the Contractor operated the soil vapor extraction system without performing the daily progress monitoring required. In addition, the extraction rates of the wells had not been balanced. However, during the period, contaminants were being removed from the soil daily, and operation and maintenance costs were incurred. Therefore, payment for the operation of the system between June 15, 1995 and August 2, 1995, was made on a time-and-material basis.

- The Contractor removed the Department/Engineer's trailer from the site before completion of the project, since during routine operation of the soil vapor extraction system, it was not necessary to maintain the trailer at the site. Since the trailer was not available for the entire length of the project, a credit was due to the Department.

- Beginning on October 4, 1996, excess amounts of contaminated groundwater accumulated in the vapor/liquid separator of the soil vapor extraction system. Off-site transportation and disposal of this contaminated groundwater was required.

- Excavation and disposal of an additional 602 tons of nonhazardous soil and debris more than the estimated quantity of 1,200 tons in the Contract were removed from the site since confirmatory (i.e., post-construction) sampling results indicated the presence of additional contaminated soil on the site after the estimated quantities of soil in the Contract had been removed.

- An additional 542 tons of backfill over the estimated quantity of 1,100 tons in the Contract was furnished at the site as needed to replace the additional contaminated soil that was removed from the site.

- Collection and analysis of an additional 34 confirmatory soil samples in addition to the estimated quantity of 200 in the Contract was performed by the Contractor to verify cleanup goals had been achieved in areas where excavation of soil was required above the estimated quantities.

- The Contractor was directed to transport and dispose of one (1) drum of waste generated during the February 1997 Supplemental Investigation.

- In order to determine the amount of VOCs being removed at more frequent intervals, the Contractor was directed to collect a gas phase sample from Well SVE-22 on October 3, November 1, and November 22, 1996. By decreasing the time between sampling events, the time needed to identify when cleanup goals are achieved could be shortened.

- A time extension was required since the Contractor shut down and restarted the SVE system as requested by the Department, on the following dates:

Date of Shutdown	Date of Restart	Duration of Shutdown
September 13, 1995	September 20, 1995	7 days
September 11, 1996	September 19, 1996	8 days
October 24, 1996	November 1, 1996	7 days
December 17, 1996	January 3, 1997	15 days
	Total	37 days

The Contract provides for three soil vapor extraction (SVE) system shutdowns each for a period of 48 hours for a total of 144 hours (or 6 days). The purpose of the SVE system shutdowns and restarts was to obtain an indication of the progress of remediation based on a comparison of the variability between shutdown and restart gas phase contaminant concentrations. The time period allocated between system shutdowns and restarts was extended in an effort to measure the effectiveness of remediation efforts by allowing longer recovery times for the soil vapor extraction system.

- An extension in Contract Time was necessary in order to complete the additional excavation and removal of non-hazardous soil, associated confirmatory sample collection and analysis, and additional backfilling.

The total change (i.e., increase) in Contract Price under Change Order No. 2 was $79,436.72. The total change (i.e. increase) in Contract Time was 91 days.

5.0 SUMMARY OF REMAINING SITE CONDITIONS

As discussed in Section 3.3.2 above, in response to the remaining contamination identified in the vicinity of the soil boring SB-14, on February 20, 1997, a sampling crew was mobilized to the site to collect soil probe samples and groundwater samples for head space analysis utilizing a portable gas chromatograph. Soil probes were advanced approximately 10 feet and 20 feet north, south, east and west of SB-14, as well as approximately 15 feet northwest of SB-14 (see Figure 3-2). Soil probe samples were collected continuously at each of the 9 locations at 2-foot intervals from ground surface to bedrock, with the exception of location 14-E-20 where a black oil-like liquid was encountered at approximately 8 feet below ground surface and probe advancement was discontinued. Additionally, an attempt was made to recover a groundwater sample from each probe location, however, groundwater could only be recovered at probe locations 14-N-10 and 14-N-20.

In addition to the soil probe sampling in the vicinity of SB-14, a groundwater sample, PZ-1-GW, was collected from the 2-inch diameter well installed by Metcalf & Eddy in the vicinity of SVE-3. Also, the dry well near the northwest corner of the building was located and a probe was driven through the concrete lid to the bottom of the well. Soil/sediment was encountered at approximately 4 feet below ground surface and two probe samples, DW-1 (0'-2') and DW-2 (2'-4'), were collected.

Due to the large number of samples collected and the limited amount of time available to complete the field program, not all samples collected could be screened using the portable GC in the field. As a result, a number of samples were selected for laboratory analysis for volatile organic compounds (VOCs).

A total of 18 soil samples collected in the vicinity of SB-14 were analyzed utilizing the portable GC and 15 soil samples were analyzed by a New York State Department of Health Environmental Laboratory Approval Program (ELAP) approved laboratory for VOCs by Method 8010/8020. The majority of the headspace readings exhibited elevated concentrations (>10,000

ppb) of 1,1,1-trichloroethane. These results, however, have been qualified as "... highly suspect, estimated high with possible false positives."

In the case of several samples, both headspace readings and laboratory analyses were completed to verify elevated headspace readings for comparison purposes. These samples are as follows: 14-N-10 (6'-8'), 14-N-10 (16'-17'), 14-W-10 (2'-4') and 14-W-10 (6'-8'). There did not appear to be a high degree of correlation between the headspace readings and the laboratory results; however, for any single compound, generally, higher headspace readings corresponded to higher laboratory results.

Based on a review of the data and the Contract Cleanup Goals for each compound, the following values were used to screen the headspace readings: 2 ppm for 1,2-dichloroethane, for which the lowest soil Contract Cleanup Goal (i.e., 100 ppb) had been established; 10 ppm for ethylbenzene, for which the highest Contract Cleanup Goal (e.g., 5,500 ppb) had been established; and 5 ppm for all other compounds (Contract Cleanup Goals between 1,000 ppb and 1,500 ppb). It should be noted, however, since there is not a strong correlation between headspace and laboratory results, the screening values are intended for discussion purposes only and actual laboratory data is necessary to confirm soil contaminant concentrations.

Soil samples in which an exceedance of a Contract Cleanup Goal, based on laboratory results, and/or a headspace value above a screening value was detected are summarized below:

Sample ID	Compounds for which Contract Cleanup Goal was Exceeded	Compounds Detected in Sample Headspace Above Screening Values[1]
14-N-10 (6'-8')	toluene	toluene
14-W-10 (2'-4')	1,2-dichloroethane, toluene, tetrachloroethene and xylene	1,2-dichloroethane, trichloroethene, toluene, tetrachloroethene, ethylbenzene and xylene
14-W-20 (2'-4')	N.A.	1,2-dichloroethane
14-NW-15 (2'-4')	1,2-dichloroethane, trichloroethene, toluene, tetrachloroethene, chlorobenzene, ethylbenzene and xylene	N.A.

Note: N.A. - Not Analyzed.

[1]Screening values are : 2 ppm for 1,2-dichloroethane, 10 ppm ethylbenzene and 5 ppm for all other compounds.

The results of the headspace analyses for the groundwater samples collected at probe locations 14-N-10 and 14-N-20 were below 1 ppm for all the target compounds (except 1,1,1-trichloroethane). However, the black oil-like liquid collected at 14-E-20 exhibited headspace concentrations above the screening values for 1,2-dichloroethane, toluene, tetrachloroethene, ethylbenzene and xylene. Finally, with regard to soil sample DW-1 (0'-2') collected from the dry well (with the exception of 1,1,1-trichloroethane), there were no compounds detected at a concentration of greater than 1 ppm.

Based upon a review of the findings, elevated concentrations of volatile organic compounds in soil were confirmed or suspected at the following locations:

- SB-14 to a minimum depth of 10 feet below ground surface;
- Ten (10) feet north of SB-14 to a depth of 8 feet below ground surface;
- Ten (10) and twenty (20) feet west of SB-14 to a minimum depth of 4 feet below ground surface; and
- Fifteen (15) feet northwest of SB-14 to a minimum depth of 4 feet below ground surface.

Additionally, as stated above, a black oil-like sample substance exhibiting elevated headspace readings was encountered 20 feet west of SB-14.

Based on these results, a supplemental investigation is being undertaken at the site. The supplemental investigation includes advancement of soil probes and collection and analysis of soil samples in order to delineate the extent of contamination, and test pit excavation in the area of 14-E20 where the black oil like substance was encountered. The results of the supplemental investigation, along with recommendations for completing remediation of the site are being provided in a separate report.

APPENDIX A

WASTE DISPOSAL RECORDS

STRONSKE COOPERAGE
SITE REMEDIATION
WEIGH TICKET SUMMARY

Contaminated Soil

Date	Truck Identification	Weight (lbs)
5/19/97	BEA480	47,900
5/19/97	BUR430	45,260
5/19/97	FBT460	47,900
5/19/97	FBT413	62,600
5/19/97	FBT514	64,840
5/20/97	FBT521	72,120
5/20/97	FBT419	45,100
5/20/97	FBT122	45,120
5/20/97	FBT475	45,860
5/20/97	FBT440	53,520
5/20/97	FBT480	47,860
5/20/97	FBT430	43,960
5/20/97	FBT413	62,240
5/20/97	FBT460	47,600
5/20/97	FBT514	59,300
5/20/97	FBT440	48,600
5/20/97	FBT419	43,640
5/20/97	FBT122	46,540
5/20/97	FBT450	46,620
5/20/97	FBT475	48,840
5/20/97	FBT521	61,220
5/21/97	FBT514	48,400
5/21/97	FBT413	57,380
5/21/97	FBT460	51,060
5/21/97	FBT480	46,420
5/21/97	FBT430	49,800
5/21/97	FBT419	49,500
5/21/97	FBT122	43,980
5/21/97	FBT475	48,200
5/21/97	FBT521	63,300
5/21/97	FBT430	45,060
5/21/97	FBT480	47,200
5/22/97	FBT514	63,720
5/22/97	FBT440	43,820
5/22/97	FBT413	59,860
5/22/97	FBT521	68,660
5/22/97	FBT460	47,200
5/22/97	FBT419	46,940
5/22/97	FBT122	39,120
5/22/97	FBT475	51,040
5/22/97	FBT450	46,160
5/22/97	FBT430	47,440

STRONSKE COOPERAGE
SITE REMEDIATION
WEIGH TICKET SUMMARY

Contaminated Soil (continued)

Date	Truck Identification	Weight (lbs)
5/22/97	FBT480	47,140
5/22/97	FBT440	51,280
5/22/97	FBT460	50,740
5/22/97	FBT413	65,740
5/22/97	FBT122	49,980
5/22/97	FBT475	49,980
5/22/97	FBT514	63,240
5/23/97	FBT450	43,980
5/23/97	FBT455	45,760
5/23/97	FBT480	53,820
5/23/97	FBT430	48,540
5/23/97	FBT521	68,600
5/29/97	FBT514	65,440
5/29/97	FBT413	65,560
5/29/97	FBT521	62,120
5/30/97	FBT480	50,620
5/30/97	FBT430	48,960
5/30/97	FBT475	49,580
5/30/97	FBT122	45,000
5/30/97	FBT413	61,020
5/30/97	FBT514	60,480
5/30/97	FBT521	65,420
5/31/97	FBT413	67,220
5/31/97	FBT521	40,180
5/31/97	FBT514	60,600
7/11/97	FBT514	79,600
7/11/97	FBT430	49,260
7/11/97	FBT460	44,720

Total (lbs):	3,705,480
Total Excluding Roadway (lbs):	3,604,700
Total Excluding Roadway (tons):	1,802.35

Debris

Date	Truck Identification	Weight (lbs)
5/21/97	BFC807	16,900
5/21/97	BFC6828	14,140
5/22/97	BFC6847	18,140

Total (lbs):	49,180
Total (tons):	24.59

Weigh Tickets
Non-hazardous Soil & Debris

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No: 00035099S

Date: 05/19/97
In: 13:18:53
Out: 13:35:56

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: BEA480

Gross Wt:	74300.00lbs	Material:	0.00
Tare Wt:	26400.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47900.00lbs		
	23.95tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000250997

Date: 05/19/97
In: 13:19:35
Out: 13:37:58

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: BUR430

Gross Wt:	72400.00lbs	Material:	0.00
Tare Wt:	27140.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45260.00lbs		
	22.63tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Bill

Remarks:

Ticket No:
000351023

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/19/97
In: 14:24:46
Out: 14:39:43

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt: 74780.00lbs
Tare Wt: 26880.00lbs
Net Wt: 47900.00lbs
23.95tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351024

Date: 05/19/97
In: 14:26:47
Out: 14:46:55

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	93800.00lbs	Material:	0.00
Tare Wt:	31200.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	62600.00lbs		
	31.30tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Brian

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351025

Date: 05/19/97
In: 14:27:23
Out: 14:38:34

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT514

Gross Wt:	95540.00lbs	Material:	0.00
Tare Wt:	30700.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	64840.00lbs		
	32.42tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks: REPLACES TKT# 351013

Ticket No:
000351068

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 06:10:19
Out: 07:01:03

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR T301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	102840.00lbs	Material:	0.00
Tare Wt:	30720.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	72120.00lbs		
	36.06tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Fred Burrows

Remarks:

Ticket No:
000351069

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 06:11:03
Out: 06:34:09

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT419

Gross Wt:	70900.00lbs	Material:	0.00
Tare Wt:	25800.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45100.00lbs		
	22.55tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Andy Dolan

Remarks:

Ticket No:
000351070

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 06:11:39
Out: 06:39:54

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	71900.00lbs	Material:	0.00
Tare Wt:	26780.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45120.00lbs		
	22.56tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: B-122

Remarks:

Seneca Meadows, Inc · W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351071

Date: 05/20/97
In: 06:12:15
Out: 06:42:08

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT475

Gross Wt:	72260.00lbs	Material:	0.00
Tare Wt:	26400.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45860.00lbs		
	22.93tns	Total Due:	0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver: M Adair

Remarks:

Ticket No:
000351072

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 06:12:55
Out: 06:43:19

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT440

Gross Wt:	81020.00lbs	Material:	0.00
Tare Wt:	27500.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	53520.00lbs		
	26.76tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Ralph Sackett

Remarks:

Ticket No:
00035120

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 10:35:27
Out: 10:47:56

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	74100.00lbs	Material:	0.00
Tare Wt:	26240.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47860.00lbs		
	23.93tns	Total Due:	0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 45002

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000751204

Date: 05/20/97
In: 10:36:06
Out: 10:49:00

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430	Gross Wt:	71580.00lbs	Material:	0.00
	Tare Wt:	27620.00lbs	Haul Fee:	0.00
			Sales Tax:	0.00
	Net Wt:	43960.00lbs		
		21.98tns	Total Due:	0.00
Price/Tn: 0.00				
			Paid:	
Weigh Master: COOKSEY 450027			Check No:	

Driver: Bill

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
00035260

Date: 05/20/97
In: 12:36:02
Out: 12:55:19

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	93480.00lbs	Material:	0.00
Tare Wt:	31240.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	62240.00lbs		
	31.12tns	Total Due:	0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: SPRAGUE 450072

Driver: Brad

Remarks:

Ticket No:
00035[illegible]64

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 12:39:56
Out: 12:59:08

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt:	74460.00lbs	Material:	0.00
Tare Wt:	26860.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47600.00lbs		
	23.80tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450072

Check No:

Driver: C Lorenz

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351270

Date: 05/20/97
In: 12:50:20
Out: 13:11:37

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT514

Gross Wt: 89900.00lbs
Tare Wt: 30600.00lbs
Net Wt: 59300.00lbs
29.65tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: SPRAGUE 450072

Driver:

Remarks:

Ticket No:
000351298

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 13:28:15
Out: 13:46:18

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT440

Gross Wt:	75560.00lbs	Material:	0.00
Tare Wt:	26960.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	48600.00lbs		
	24.30tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: D. Schaller

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Sheldrake Road
Waterloo NY 13165

Ticket No:
000351323

Date: 05/20/97
In: 14:26:51
Out: 14:42:53

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT419

Gross Wt:	69460.00lbs	Material:	0.00
Tare Wt:	25820.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	43640.00lbs		
	21.82tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No: 00035329

Date: 05/20/97
In: 14:37:12
Out: 14:56:46

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/F-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	73320.00lbs	Material:	0.00
Tare Wt:	26780.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	46540.00lbs		
	23.27tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: B-122

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351331

Date: 05/20/97
In: 14:56:00
Out: 15:07:21

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT450	Gross Wt:	74300.00lbs	Material:	0.00
	Tare Wt:	27680.00lbs	Haul Fee:	0.00
			Sales Tax:	0.00
	Net Wt:	46620.00lbs		
		23.31tns	Total Due:	0.00
Price/Tn: 0.00				
			Paid:	
Weigh Master: COOKSEY 450027			Check No:	

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
00051334

Date: 05/20/97
In: 15:08:26
Out: 15:26:49

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT475

Gross Wt:	74940.00lbs	Material:	0.00
Tare Wt:	26100.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	48840.00lbs		
	24.42tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M. Fedor

Remarks:

Ticket No:
000351337

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/20/97
In: 15:11:19
Out: 16:04:42

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBTS21

Gross Wt:	91320.00lbs	Material:	0.00
Tare Wt:	30100.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	61220.00lbs		
	30.61tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Fran Kitchen

Remarks:

Ticket No:
00035[illegible]

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 06:08:58
Out: 06:48:03

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBTS14

Gross Wt:	79380.00lbs	Material:	0.00
Tare Wt:	30980.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	48400.00lbs		
	24.20tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351350

Date: 05/21/97
In: 06:09:28
Out: 06:48:58

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	88940.00lbs	Material:	0.00
Tare Wt:	31560.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	57380.00lbs		
	28.69tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Brian

Remarks:

Ticket No:
000351353

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 06:11:35
Out: 06:50:19

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt:	78220.00lbs	Material:	0.00
Tare Wt:	27160.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	51060.00lbs		
	25.53tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: C Lowe

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351358

Date: 05/21/97
In: 06:14:36
Out: 06:41:54

Customer: 15FBT
FRED BURROWS TRUCKING
5539 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	72960.00lbs	Material:	0.00
Tare Wt:	26540.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	46420.00lbs		
	23.21tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Drivers:

Remarks:

Ticket No:
00055359

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 06:15:06
Out: 06:46:35

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt:	77220.00lbs	Material:	0.00
Tare Wt:	27420.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	49800.00lbs		
	24.90tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Bill

Remarks:

Seneca Meadows Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351536

Date: 05/21/97
In: 11:34:55
Out: 11:54:29

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT419

Gross Wt:	75080.00lbs	Material:	0.00
Tare Wt:	25580.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	49500.00lbs		
	24.75tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351549

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 11:54:18
Out: 12:11:59

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	70620.00lbs	Material:	0.00
Tare Wt:	26640.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	43980.00lbs		
	21.99tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: 122

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351550

Date: 05/21/97
In: 11:55:07
Out: 12:18:54

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
8CS01 B/R-CONTAM SOIL

Truck Id: FBT475

Gross Wt:	74440.00lbs	Material:	0.00
Tare Wt:	26240.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	48200.00lbs		
	24.10tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M. Grela

Remarks:

Ticket No:
00035566

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 12:35:47
Out: 12:54:38

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	93700.00lbs	Material:	0.00
Tare Wt:	30400.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	63300.00lbs		
	31.65tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450072

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351607

Date: 05/21/97
In: 14:05:43
Out: 14:30:27

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt:	72100.00lbs	Material:	0.00
Tare Wt:	27040.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45060.00lbs		
	22.53tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Bill

Remarks:

Ticket No:
00035160[illegible]

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/21/97
In: 14:06:15
Out: 14:32:29

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	73800.00lbs	Material:	0.00
Tare Wt:	26600.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47200.00lbs		
	23.60tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: [signature]

Remarks:

Ticket No:
00035164[illegible]

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:07:44
Out: 06:41:48

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STOPONSKE COOPE
BCS01 B/P-CONTAM SOIL

Truck Id: FBTS14

Gross Wt:	94760.00lbs	Material:	0.00
Tare Wt:	31040.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	63720.00lbs		
	31.86tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450043
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351643

Date: 05/22/97
In: 06:08:35
Out: 06:23:35

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT440

Gross Wt:	71900.00lbs	Material:	0.00
Tare Wt:	28080.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	43820.00lbs		
	21.91tns	Total Due:	0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver:

Remarks:

Ticket No:
000351644

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:09:07
Out: 06:28:22

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt: 91360.00lbs
Tare Wt: 31500.00lbs
Net Wt: 59860.00lbs
29.93tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver: Brian

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351649

Date: 05/22/97
In: 06:12:38
Out: 06:40:51

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	39260.00lbs	Material:	0.00
Tare Wt:	30600.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	68660.00lbs		
	34.33tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351651

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:13:44
Out: 06:39:48

Customer: 15FBT
FRED BURROWS TRUCKING
5539 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt:	74280.00lbs	Material:	0.00
Tare Wt:	27080.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47200.00lbs		
	23.60tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351652

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:14:16
Out: 06:42:51

Customer: 15FBT
FRED BURROWS TRUCKING
5539 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT419

Gross Wt:	73180.00lbs	Material:	0.00
Tare Wt:	26240.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	46940.00lbs		
	23.47tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
00035165[illegible]

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:15:26
Out: 06:45:50

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	65900.00lbs	Material:	0.00
Tare Wt:	26780.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	39120.00lbs		
	19.56tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351655

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:15:57
Out: 06:46:48

Customer: 1SFBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT475

Gross Wt:	77500.00lbs	Material:	0.00
Tare Wt:	26460.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	51040.00lbs		
	25.52tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M. Sadler

Remarks:

Ticket No:
000351668

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 06:33:31
Out: 06:50:45

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT450

Gross Wt:	73960.00lbs	Material:	0.00
Tare Wt:	27800.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	46160.00lbs		
	23.08tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
00035179

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 11:22:25
Out: 11:36:37

Customer: 15FBT
FRED BURROWS TRUCKING
5539 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt:	74680.00lbs	Material:	0.00
Tare Wt:	27240.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47440.00lbs		
	23.72tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Bud

Remarks:

Ticket No:
000351791

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 11:23:00
Out: 11:35:35

Customer: 15FBT
FRED BURROWS TRUCKING
5593 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	73700.00lbs	Material:	0.00
Tare Wt:	26560.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	47140.00lbs		
	23.57tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M/Cooksey

Remarks:

Ticket No:
000351842

Seneca Meadows, Inc W/M#450042
1786 Salisman Road
Waterloo, NY 13165

Date: 05/22/97
In: 13:01:12
Out: 13:27:35

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BC901 B/R-CONTAM SOIL

Truck Id: FBT440

Gross Wt:	78200.00lbs	Material:	0.00
Tare Wt:	26920.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	51280.00lbs		
	25.64tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450072

Check No:

Driver: Rob Sadlon

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
00035185

Date: 05/22/97
In: 13:37:58
Out: 13:50:29

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt: 77460.00lbs
Tare Wt: 26720.00lbs
Net Wt: 50740.00lbs
25.37tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver: C Lomas

Remarks:

Ticket No:
000351854

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 13:39:35
Out: 14:25:23

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	96880.00lbs	Material:	0.00
Tare Wt:	31140.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	65740.00lbs		
	32.87tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351874

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 14:22:35
Out: 14:37:24

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	76460.00lbs	Material:	0.00
Tare Wt:	26480.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	49980.00lbs		
	24.99tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351876

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 14:24:58
Out: 14:41:13

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT475

Gross Wt:	76180.00lbs	Material:	0.00
Tare Wt:	26200.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	49980.00lbs		
	24.99tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M. Sweet

Remarks:

Ticket No:
000351883

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/22/97
In: 14:45:40
Out: 15:18:40

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT514

Gross Wt:	93680.00lbs	Material:	0.00
Tare Wt:	30440.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	63240.00lbs		
	31.62tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351907

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/23/97
In: 06:09:16
Out: 06:39:02

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT450

Gross Wt:	71400.00lbs	Material:	0.00
Tare Wt:	27420.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	43980.00lbs		
	21.99tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000351908

Date: 05/23/97
In: 06:09:53
Out: 06:32:13

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT455

Gross Wt:	72320.00lbs	Material:	0.00
Tare Wt:	26560.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45760.00lbs		
	22.88tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000351909

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/23/97
In: 06:10:21
Out: 06:35:24

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	80280.00lbs	Material:	0.00
Tare Wt:	26460.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	53820.00lbs		
	26.91tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: _____

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salisman Road
Waterloo, NY 13165

Ticket No:
000351910

Date: 05/23/97
In: 06:10:47
Out: 06:37:50

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt: 75920.00lbs
Tare Wt: 27380.00lbs
Net Wt: 48540.00lbs
24.27tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver: Bill

Remarks:

Ticket No:
00035911

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/23/97
In: 06:11:21
Out: 06:30:42

Customer: 1SFBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	98580.00lbs	Material:	0.00
Tare Wt:	29980.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	68600.00lbs		
	34.30tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: F Kilbourn

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000353053

Date: 05/29/97
In: 13:38:52
Out: 14:16:59

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBTS14

Gross Wt:	96160.00lbs	Material:	0.00
Tare Wt:	30720.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	65440.00lbs		
	32.72tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: _____

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
00253060

Date: 05/29/97
In: 13:46:42
Out: 14:19:07

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt: 96780.00lbs
Tare Wt: 31220.00lbs
Net Wt: 65560.00lbs
32.78tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver: Brian

Remarks:

Ticket No:
00035[illegible]3

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/29/97
In: 14:49:56
Out: 15:33:33

Customer: 15FBT
FRED BURROWS TRUCKING
5593 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	91400.00lbs	Material:	0.00
Tare Wt:	29280.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	62120.00lbs		
	31.06tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Fred Burrows

Remarks:

Ticket No
000353119

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/30/97
In: 06:10:20
Out: 06:24:42

Customer: 15FBT
FRED BURROWS TRUCKING
5593 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT480

Gross Wt:	77160.00lbs	Material:	0.00
Tare Wt:	26540.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	50620.00lbs		
	25.31tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
00035312

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/30/97
In: 06:11:29
Out: 06:26:57

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt:	76380.00lbs	Material:	0.00
Tare Wt:	27420.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	48960.00lbs		
	24.48tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc. D/M#450042
1786 Salcgan Road
Waterloo, NY 13165

Ticket No: 00035318

Date: 05/30/97
In: 06:17:20
Out: 06:30:16

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT475	Gross Wt:	75960.00lbs	Material:	0.00
	Tare Wt:	26380.00lbs	Haul Fee:	0.00
			Sales Tax:	0.00
	Net Wt:	49580.00lbs		
		24.79tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: M. Lutes

Remarks:

Seneca Meadows, Inc (W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000353129

Date: 05/30/97
In: 06:17:44
Out: 06:32:48

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#:
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT122

Gross Wt:	71720.00lbs	Material:	0.00
Tare Wt:	26720.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	45000.00lbs		
	22.50tns	Total Due:	0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver:

Remarks:

Ticket No:
00035358

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/30/97
In: 11:35:08
Out: 11:51:56

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	92100.00lbs	Material:	0.00
Tare Wt:	31080.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	61020.00lbs		
	30.51tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: Brian

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000353261

Date: 05/30/97
In: 11:41:13
Out: 11:54:47

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT514

Gross Wt:	91040.00lbs	Material:	0.00
Tare Wt:	30560.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	60480.00lbs		
	30.24tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450037

Check No:

Driver:

Remarks:

Ticket No:
000353262

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/30/97
In: 11:41:57
Out: 12:00:28

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR 301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	95740.00lbs	Material:	0.00
Tare Wt:	30320.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	65420.00lbs		
	32.71tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Ticket No:
000353392

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/31/97
In: 06:11:40
Out: 06:50:40

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR351
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT413

Gross Wt:	98680.00lbs	Material:	0.00
Tare Wt:	31460.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	67220.00lbs		
	33.61tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450072

Check No:

Driver: Brian

Remarks:

Ticket No:
00353393

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/31/97
In: 06:12:17
Out: 06:51:48

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TRT301
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT521

Gross Wt:	70280.00lbs	Material:	0.00
Tare Wt:	30100.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	40180.00lbs		
	20.09tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450072

Check No:

Driver: Fred Burrows

Remarks:

Not billed - Roadway

Ticket No:
000353395

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Date: 05/31/97
In: 06:13:54
Out: 06:52:54

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TR352
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT514

Gross Wt:	91500.00lbs	Material:	0.00
Tare Wt:	30900.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	60600.00lbs		
	30.30tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: SPRAGUE 450073

Check No:

Driver:

Remarks:

Not billed - Roadway

Seneca Meadows, Inc W/M#450042

Ticket No:
00036Ø2218

1786 Salcman Road
Waterloo, NY 13165

Date: 07/11/97
In: 08:20:17
Out: 08:20:51

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-Ø81
Cust Ref#: TKT# Ø6Ø1
97-Ø81 STORONSKE COOPE
BCSØ1 B/R-CONTAM SOIL

Truck Id: FBTSI4

Gross Wt: 110360.ØØlbs
Tare Wt: 30760.ØØlbs
Net Wt: 79600.ØØlbs
39.80tns

Material: Ø.ØØ
Haul Fee: Ø.ØØ
Sales Tax: Ø.ØØ
Total Due: Ø.ØØ

Price/Tn: Ø.ØØ

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Salcman Road
Waterloo, NY 13165

Ticket No:
000362217

Date: 07/11/97
In: 00:19:30
Out: 00:19:50

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-081
Cust Ref#: TKT# 0603
97-081 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT430

Gross Wt: 76440.00lbs
Tare Wt: 27180.00lbs
Net Wt: 49260.00lbs
24.63tns

Material: 0.00
Haul Fee: 0.00
Sales Tax: 0.00
Total Due: 0.00

Price/Tn: 0.00

Paid:
Check No:

Weigh Master: COOKSEY 450027

Driver:

Remarks:

Seneca Meadows, Inc W/M#450042
1786 Saleman Road
Waterloo, NY 13165

Ticket No:
000362216

Date: 07/11/97
In: 08:18:39
Out: 08:19:06

Customer: 15FBT
FRED BURROWS TRUCKING
5599 LOVERS LN
ORISKANY NY 13424

Order No: 97-001
Cust Ref#: TKT# 0602
97-001 STORONSKE COOPE
BCS01 B/R-CONTAM SOIL

Truck Id: FBT460

Gross Wt:	71680.00lbs	Material:	0.00
Tare Wt:	26960.00lbs	Haul Fee:	0.00
		Sales Tax:	0.00
Net Wt:	44720.00lbs		
	22.36tns	Total Due:	0.00

Price/Tn: 0.00

Paid:

Weigh Master: COOKSEY 450027

Check No:

Driver: _____

Remarks:

Weigh Tickets
Decontaminated Debris

HIGH ACRES LANDFILL - WASTE MANAGEMENT
425 PERINTON PARKWAY
FAIRPORT, NY 14450
(716) 223-6132

205015
DATE: 05/21/1997
TIME: 07:45

CUSTOMER: 9981 METCALF & EDDY(STORONSKE)

WEIGH MASTER: PAULA SCHWEIZER

TRUCK: BFC807 WASTE: SPX SPECIAL TAXABLE

ORIGIN: 300 SCHODACK(AB)

PROFILE: 372140
STORONSKE COOPERAGE(NYSDEC) PCB CON

GROSS: 51680 LBS CELL: 3

TARE: 34780 LBS

NET: 16900 LBS = 8.45 TONS

TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE

OUT-OF-STATE SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief.

0009981 REMARKS: _____ SIGN Mike Hayes

HIGH ACRES LANDFILL - WASTE MANAGEMENT
425 PERINTON PARKWAY
FAIRPORT, NY 14450
(716) 223-6132

205013
DATE: 05/21/1997
TIME: 07:43

CUSTOMER: 9981 METCALF & EDDY(STORONSKE)

WEIGH MASTER: PAULA SCHWEIZER

TRUCK: BFC6828 WASTE: SPX SPECIAL TAXABLE

ORIGIN: 300 SCHODACK(AB)

PROFILE: 372140
STORONSKE COOPERAGE(NYSDEC) PCB CON

GROSS: 50140 LBS CELL: 3

TARE: 36000 LBS

NET: 14140 LBS = 7.07 TONS

TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE

OUT-OF-STATE SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief.

0009981 REMARKS: Bill SIGN _____

HIGH ACRES LANDFILL - WASTE MANAGEMENT
425 PERINTON PARKWAY
FAIRPORT, NY 14450
(716) 223-6132

205246
DATE: 05/22/1997
TIME: 09:04

CUSTOMER: 9981 METCAL EDD STORONSKE

WEIGH MASTER: PAULA SCHWEIZER

TRUCK: BFC6847 WASTE: SPX SPECIAL TAXABLE

ORIGIN: 300 SCHODACK(AB) PROFILE: 372140
STORONSKE COOPERAGE(NYSDEC) PCB CON

GROSS: 51720 LBS CELL: 3

TARE: 33580 LBS

NET: 18140 LBS = 9.07 TONS

TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE

OUT-OF-STATE SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief.

0009981 REMARKS: _____ SIGN Joshua J. Tuppatt