(24)

NEW YORK STATE SUPERFUND CONTRACT

Interim Remedial Measure Underground Tank Removal Report

Mohonk Road Industrial Plant Site
Remedial Investigation/Feasibility Study

Site No. 356023

Work Assignment No. D002676-25

DATE: January 1998

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
John Cahill, *Commissioner*

Division of Environmental Remediation
Michael J. O'Toole, Jr., P.E., *Director*

By:

Lawler, Matusky & Skelly Engineers LLP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road
Albany, New York 12233

INTERIM REMEDIAL MEASURE
UNDERGROUND TANK REMOVAL REPORT

MOHONK ROAD INDUSTRIAL PLANT SITE
High Falls, Ulster County

Site I.D. No. 3-56-023

Work Assignment No. D002676-25

January 1998

LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, New York 10965

Project No. 650-253

TABLE OF CONTENTS

LIST OF FIGURES

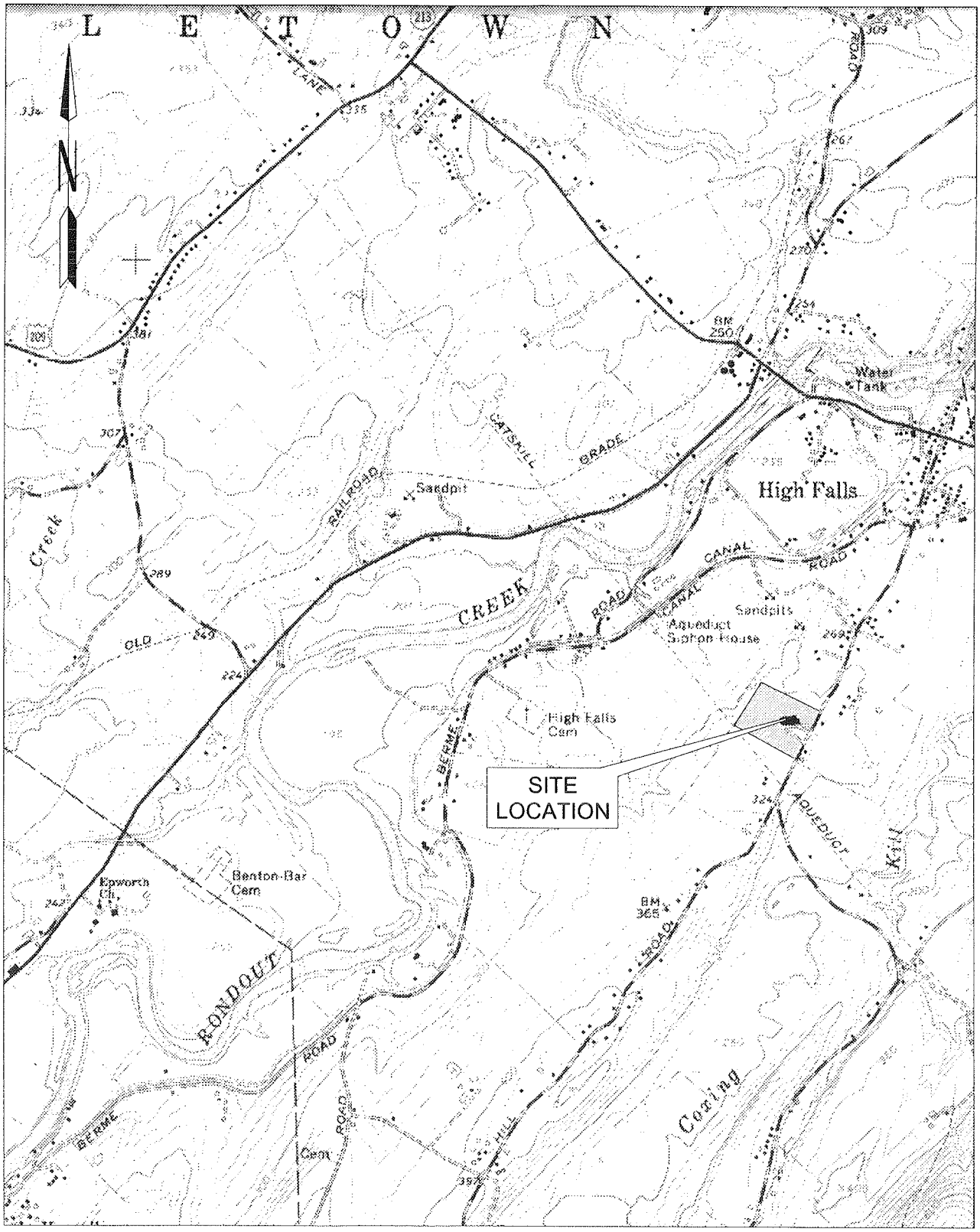
LIST OF TABLES

1 INTRODUCTION

Lawler, Matusky & Skelly Engineers LLP (LMS) was retained by the New York State Department of Environmental Conservation (NYSDEC) under terms of the Standby Contract to conduct a remedial investigation/feasibility study (RI/FS) of the Mohonk Road Industrial Plant (MRIP) site in High Falls, Ulster County, New York (Figure 1-1 and 1-2). The RI/FS was needed since the discovery in 1994 of volatile organic compound (VOC) contamination of residential wells downgradient of the MRIP site. The site was placed on the New York State Registry of Inactive Hazardous Waste Sites in August 1994 as a Class 2 site. A Class 2 site represents a site that poses a significant threat to public health and the environment. Subsequently to this finding, granular activated carbon (GAC) filters were added to 64 business and residential wells downgradient of the site whose wells were contaminated with VOCs above the groundwater standards.

During an Immediate Investigation Work Assignment (IIWA) conducted by LMS for NYSDEC in 1996 an onsite underground tank was sampled and analyzed for chlorinated VOCs by an onsite mobile laboratory, Commonwealth Analytical. A sample was collected from below both concrete covers since the type of tank and configuration was unknown at the time of sampling. These samples revealed the presence of 1,1,1-trichloroethane (1,1,1-TCA) at concentration of 5000 and 6200 mg/kg. A subsequent sample was collected and submitted to a NYSDEC contract laboratory for analysis contained 260,000 mg/kg (26%) 1,1,1-TCA and 18,000 mg/kg of 1,1-dichloroethane (1,1-DCA). Soil borings in the area of the tank indicated VOC contamination. Monitoring wells installed during this and second IIWA conducted in 1997 near and downgradient of the underground tank also contained elevated concentrations of 1,1,1-TCA. This led to the conclusion that the VOCs in the groundwater downgradient of the site were from the chemicals found in the tank. The RI/FS work was initiated in April 1997 and included the construction of test pits in and around the area of the tank. The tank was uncovered and discovered to be a steel cylindrical tank about four ft in diameter with two concrete access covers. The outlet pipe was traced to a distribution box from which two laterals discharged. The laterals were traced for to the end. Soil samples collected from test pits dug beneath the laterals and at their end revealed little or no contamination. Test pits dug in the area of the tank also showed little or no contamination.

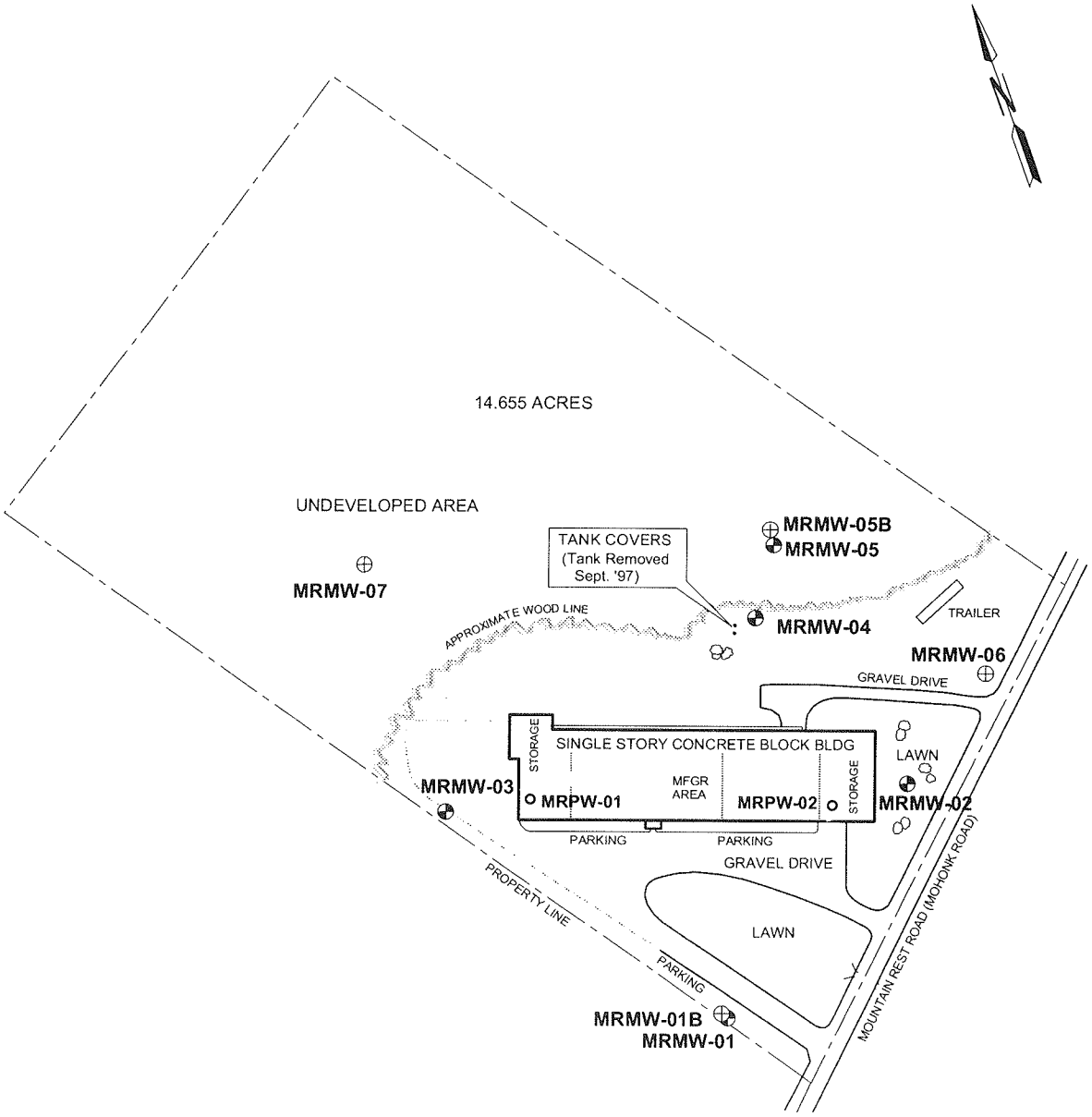
The finding of little or no contamination from the laterals led to the conclusion that the underground tank had probably leaked and continued to be a source of contamination to the underlying bedrock aquifer. An interim remedial measure (IRM) was needed to remove the tank and its contents and thus the continuous source of contamination. NYSDEC tasked LMS to conduct the IRM as part of the RI/FS contract; the IRM consisted of the removal of the tank



Map source:
USGS 7.5-minute Quadrangle Map,
Mohonk Lake, NY, 1964.

\650\171USGS.ds4

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Site Location** **Mohonk Road Industrial Plant** **NYSDEC I.D. No. 356023**	**Figure 1-1**



200 ft 0 200 ft

SCALE
1 in. = 200 ft

Legend

- ⊕ ESI bedrock wells
- ◒ ESI interface wells
- o Existing production wells (-01 in use, -02 abandoned)

Map source: Richard T. Sherman, P.C., 1981.

\650\MOHONK\MOHONKSITE.dsf

Figure 1-2

Site Plan

MOHONK ROAD INDUSTRIAL PLANT
NYSDEC I.D. No. 356023

LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Pearl River, New York

and its contents, an investigation to determine if soil beneath the tank was contaminated, and, if so, removal of any contaminated soil.

2 UNDERGROUND TANK REMOVAL

In August 1997 LMS prepared bid specifications for the IRM and solicited bids from five qualified firms. LMS received bids from five subcontractors and selected the lowest bidder, Hazardous Elimination Corporation (HEC), to conduct the IRM.

Tank removal was initiated on 23 September 1997 when HEC mobilized to the site. Field notes for the IRM are contained in Appendix A. Upon arrival at the site, HEC determined that they did not have enough drums with them to containerize the tank contents as well as the decontamination fluids. HEC went ahead and excavated down to expose the top of the tank. This soil was stockpiled for later use as backfill since a sample collected adjacent to the tank during test pit sampling conducted 2 July 1997 was not contaminated. Some seepage occurred from the effluent pipe upon exposing and breaching this pipe. Soil was tamped back into place around the pipe to prevent further seepage. The clean soil removed from above the tank was then used to construct a berm which was lined with plastic to stage drums as the tank was pumped out.

The contents of the tank were removed on 24 September 1997 by pumping out the liquid fraction into drums in the staging area (Photo 1 - Appendix B). Drum lids were placed over the tops of the drums as each drum was filled (Photo 2 - Appendix B). A total of fourteen drums (approximately 700-gal.) of liquid was pumped out before the sludge became to viscous for the pump to handle. It was originally intended that the liquid fraction would be kept as a separate phase from the sludge, however, during pumping only the first couple of drums were relatively sediment free. As the water level in the tank dropped, the water became more and more turbid from the sludge being disturbed at the bottom of the tank. The liquid fraction removed from the tank exhibited a strong septic odor. After removal of the liquid fraction in the tank, approximately 1.5-ft of sludge remained in the bottom of the tank.

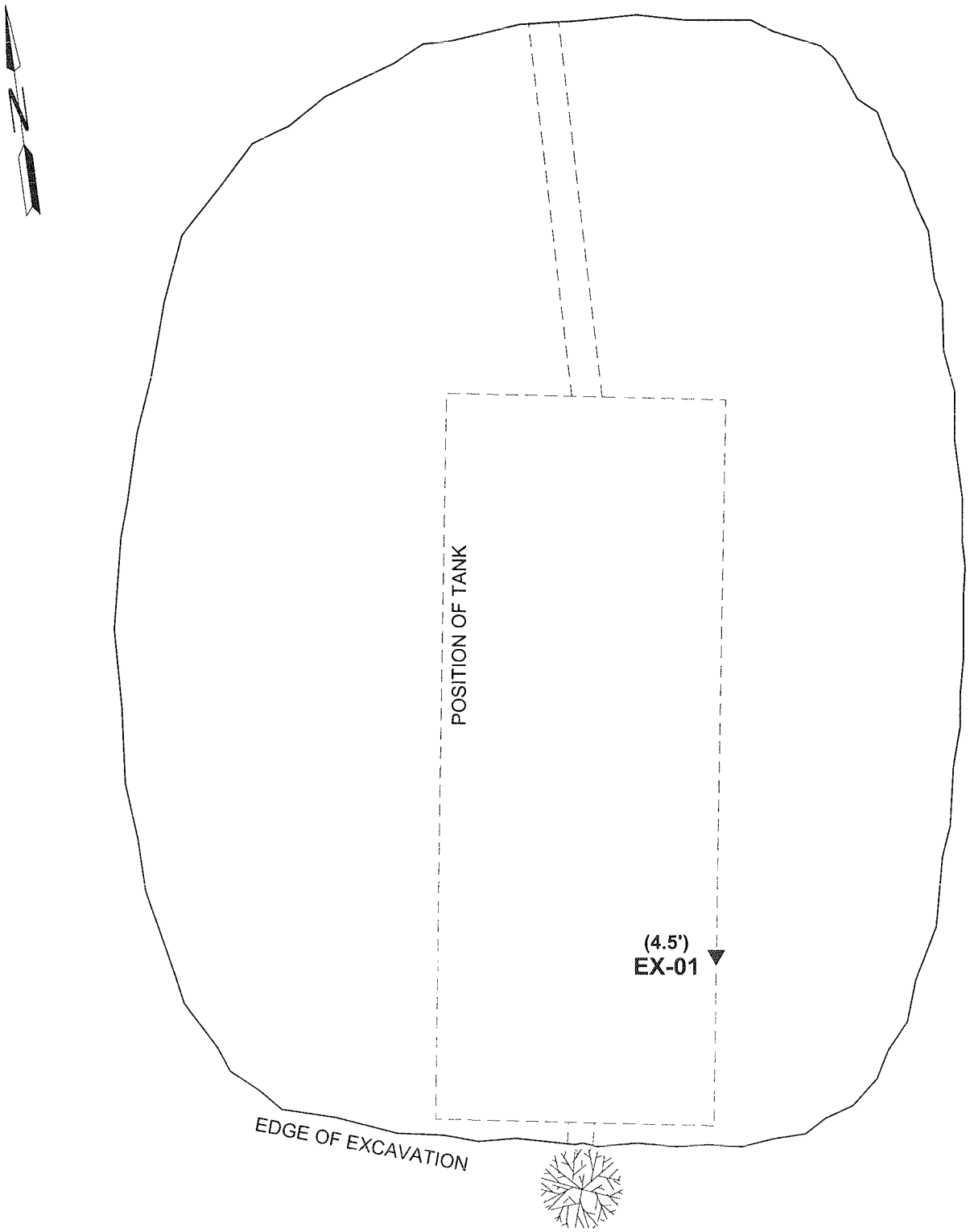
The sludge in the bottom of the tank was removed by bailing out as much as possible using a 5-gal bucket (Photo 2 and 3 - Appendix B). When the amount which could be easily bailed had been removed, it became necessary for HEC to enter the tank to complete the cleaning. Prior to entering the tank, the north entry port was enlarged to a dimension that would allow a person to easily enter and exit the tank using a gasoline powered abrasive saw. A blower was then placed in the south access port to ventilate the tank while HEC entered the tank in Level C protection (Photo 4 - Appendix B). The remainder of the sludge was removed by shoveling it

into a five gallon bucket and passing the bucket up to the surface where the sludge was transferred into a drum. The interior of the tank was then gone over with a squeegee to remove most of the sludge residue. A total of four 55-gal drums (220-gal.) of sludge was removed from the tank. The tank was then pulled from the excavation using the backhoe and staged on plastic.

A soil sample (EX-01) was collected from the southeast corner of the excavation where the tank wall rested against the soil (Figure 2-1). The tank in this area had been severely corroded and the soil adjacent to the tank exhibited dark staining. The sample was collected by having the back-hoe operator remove some of the stained soil with the back-hoe bucket and bring the soil up out of the excavation where a sample could be safely collected. The sample was collected by peeling the soil back with a stainless steel spoon to obtain fresh material, and then placing the soil directly into a sample container with a stainless steel spoon. The sample was retained by HEC and sent the sample to their disposal facility for analysis. LMS requested quick turnaround analysis, therefore, HEC requested that the sample be returned and analyzed by HEC's laboratory. The results showed no detectable VOCs, but this result is considered unrepresentative. Due to the excessive transporting of the sample and unknown handling (the sample may have been opened at the disposal facility or the sample may not have been chilled properly) the VOCs had probably volatilized prior to analysis. The raw laboratory report is contained in Appendix C.

Upon removal, it was apparent that the tank was severely corroded and contained numerous large holes (Photo 5 and 6 - Appendix B). It was originally planned to pressure wash the inside of the tank prior to disposal, however, it was determined after pulling the tank that the tank was corroded to the point that pressure washing would blast more holes in the tank and the water would be difficult to contain. The tank was scraped as clean as possible and HEC crushed the tank and removed the tank for disposal (Photo 7 - Appendix B). Photo 8 in Appendix B shows the tank excavation prior to soil removal.

The liquid (14 drums) and sludge (4 drums) removed from the tank were shipped as hazardous waste to North East Chemical Corporation in Cleveland, Ohio on 25 September 1997 for disposal. Prior to shipment, LMS reviewed the manifest, and then signed the manifest on behalf of the NYSDEC. The disposal documentation for the liquid and sludge waste is presented in Appendix D.



LEGEND

EX-# ▼ **(5.0')** IRM sample number and depth in feet

0 10 ft 20 ft

APPROXIMATE
SCALE: 20 ft = 1"

\650\MOHONK\TANKPIT.dsf

Figure 2-1

IRM Tank Removal Soil Samples

MOHONK ROAD INDUSTRIAL PLANT
NYSDEC I.D. No. 356023

LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Pearl River, New York

3 SOIL REMOVAL

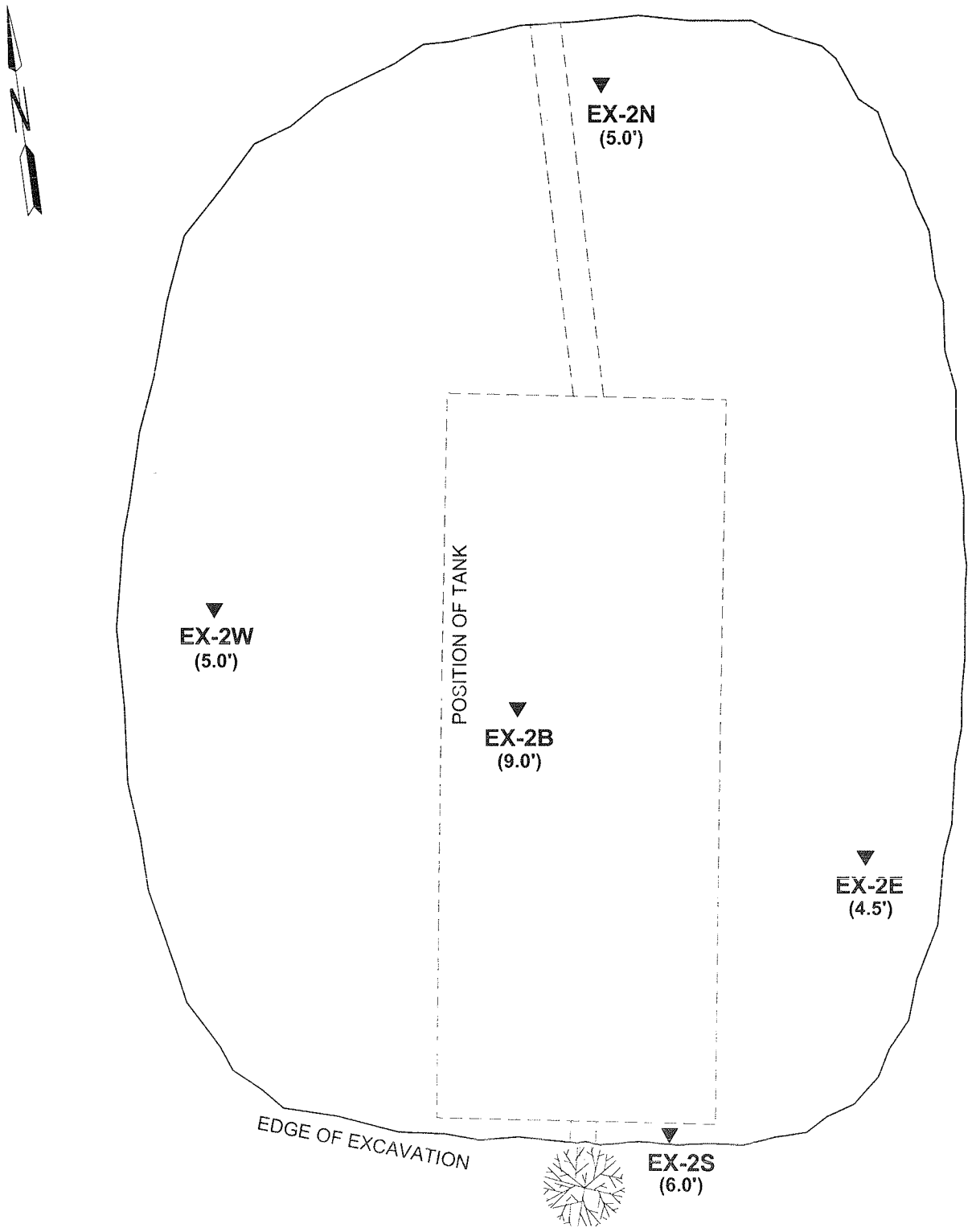
After the drums had been removed from the site, the bermed area containing the drums was relined with plastic to stage contaminated soil removed from the excavation. The obviously stained soil from immediately below the tank and from the side walls of the tank was removed and stockpiled in the bermed staging area. The removal of the stained material from the side walls required that the side of the excavation be cut back to enlarge the excavation. The soil down to a depth of 4-ft were segregated from the north and west walls for reuse as backfill. The excavator knocked much of the overburden material from the east wall into the excavation and pulled it to one side of the excavation while the stained material was excavated. Approximately 20-yds of stained soil was removed from the excavation and stockpiled in the bermed staging area. Five soil samples (EX-2W, 2E, 2N, 2S, and 2B) were collected from the side and bottom of the excavation. These samples were retained by HEC and submitted for VOC analysis. Figure 3-1 shows the locations at which each sample was collected. The depth of each sample is indicated in parentheses. A soil sample (WA-1) was also collected from the stockpiled soil in the staging area.

On 25 September 1997, a 30-cy rolloff was delivered to the site. The staged soil was then transferred into the rolloff on 26 September 1997. About 5-cy of loose soil in the bottom of the excavation was also removed and placed into the rolloff. Three additional samples (EX-3BN, 3BS, and 3S) were collected and submitted to ITS Environmental Laboratories for VOC analysis. Figure 3-2 shows the locations of these samples and the depth is indicated in parentheses.

The results of the samples collected from the excavation and from the soil piles are summarized on Table 3-1 and the raw laboratory data reports are contained in Appendix C. The NYSDEC recommended soil cleanup objectives [corrected for total organic carbon (TOC) of 3605 mg/kg] are also shown on the table. Only the sample from the soil pile exceeded the cleanup objectives for chloroethane and 1,1,1-TCA. The results from all samples from the bottom of the excavation were below the cleanup objectives.

4 SOIL SCREENING

Headspace analysis was performed on soil collected at sample locations 2N, 2S, 2E, 2W, 2B, WA-1, 3BN, 3BS, and 3S. The headspace analysis was performed by placing the soil into a plastic zip-lock bag and sealing the bag. The sample was allowed to stand for at least fifteen minutes, and the seal of the bag was cracked open to allow the insertion of an FID probe tip.



LEGEND

EX-# (5.0') ▼ IRM sample number and depth in feet

0 10 ft 20 ft

APPROXIMATE
SCALE: 20 ft = 1"

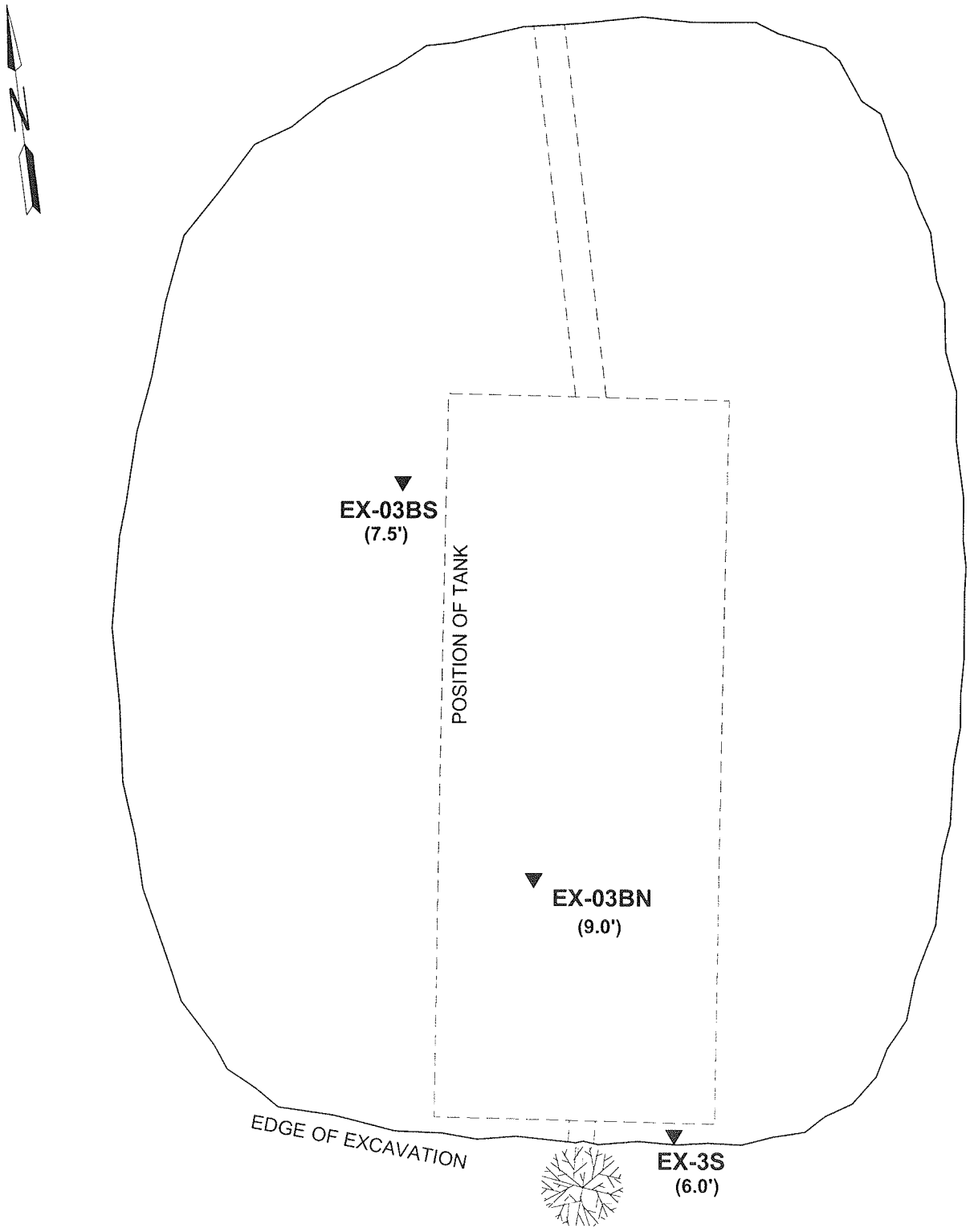
\650\MOHONK\TANKPIT.dsf

Figure 3-1

IRM Tank Removal Soil Samples

MOHONK ROAD INDUSTRIAL PLANT
NYSDEC I.D. No. 356023

LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Pearl River, New York



LEGEND

EX-# ▼ IRM sample number and depth in feet
(5.0')

0 10 ft 20 ft
APPROXIMATE
SCALE: 20 ft = 1"

\650\MOHONK\TANKPIT.dsf

Figure 3-2

IRM Tank Removal Soil Samples

MOHONK ROAD INDUSTRIAL PLANT
NYSDEC I.D. No. 356023

LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Pearl River, New York

TABLE 3-1

SOIL EXCAVATION RESULTS (SEPTEMBER 1997)

Mohonk Road Industrial Plant Site No. 356023

12/29/97

PARAMETER	EX-2N[1]	EX-2S[1]	EX-2E[1]	EX-2W[1]	EX-2B[1]	WA-1[1]	EX-3S[2]	EX-3BN[2]	EX-3BS[2]	RECOMMENDED SOIL CLEANUP OBJECTIVE (3)
VOLATILE ORGANICS (mg/kg)										
Chloroethane	ND	ND	ND	0.024	ND	**1.103**	0.075	0.015	0.13	0.684
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	0.005 j	0.015	0.038
Acetone	ND	ND	ND	ND	ND	ND	0.064 b	0.025 b	0.040 b	0.305
1,1-Dichloroethane	0.008	0.006	0.006	0.018	0.035	0.117	0.015 j	0.026	0.080	0.144
1,1,1-Trichloroethane	0.005	ND	ND	ND	ND	**0.408**	0.004 j	0.003 j	0.002 j	0.288
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	0.001 j	ND	0.252
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	ND	0.010 j	ND	0.504
Toluene	ND	ND	ND	ND	ND	ND	0.009 j	0.011 j	0.008 j	0.540
Ethylbenzene	ND	ND	ND	ND	ND	ND	0.023 j	0.005 j	0.002 j	1.980
Xylene (total)	ND	ND	ND	ND	ND	ND	0.12	0.037	0.010 j	0.432
Freon TF	NR	NR	NR	NR	NR	NR	ND	ND	ND	2.160

NOTE: Numbers in bold exceed limit.

1 - Analyzed by HE contract laboratory, American Analytical Laboratories, by EPA Method 8260.
2 - Analyzed by LMS standby contract laboratory, Intertek Testing Services, by CLP Method 95.1.
(3) - NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94, corrected for TOC of 3605 mg/kg.
b - Found in associated blanks.
j - Estimated concentration; compound present below quantitation limit.
ND - Not detected at analytical detection limit.
NR - Not analyzed.

The sample was screened with the FID for an initial reading. A second reading was then taken after placing a carbon filter on the tip of the FID probe. The carbon filter absorbs many organic compounds while allowing methane to pass through. A third reading was then taken without the filter. Table 4-1 lists the FID values recorded using a FID calibrated to 95 ppm methane. The similar levels between filtered and non-filtered measurements indicates that the majority of the volatile fraction was probably methane. Methane would be expected in a septic system environment at fairly high concentrations due to the natural breakdown of sewage.

5 ROLLOFF SOIL SAMPLING

Three samples were collected from the rolloff for waste characterization on 6 October 1997. The rolloff was roughly divided into thirds and a sample collected between each third for a total of three samples. Each sample was collected by entering the rolloff, hand augering to a depth of about 2-ft, and collecting the sample. The samples were analyzed for target compound list (TCL) VOCs and toxicity characteristic leaching procedure (TCLP) VOCs. The sample for VOC analysis was collected immediately from the soil retained in the hand auger and placed into an appropriate sample container using a stainless steel spoon. Splits of these samples were also retained by NYSDEC and submitted to a NYSDEC contract laboratory for analysis.

On 10 October 1997, two additional samples were collected for polychlorinated biphenyls (PCB), total petroleum hydrocarbons (TPH), and TCLP metals analyses as required for soil disposal. The samples were collected at the same location as the MRRO-1B and -1C VOC samples by extending the depth of the hand auger bore hole about one foot. The soil was placed in a stainless steel bowl and homogenized. Samples were then collected for PCB, TPH, and TCLP metals and placed into the appropriate sample container. The samples were submitted to ITS Environmental Laboratories for analysis following proper chain of custody procedures.

The sample results of the soils analyzed for soil characterization are summarized on Table 5-1 and the raw laboratory data reports are in Appendix C. The TCLP metals, PCBs, and TPH analyses were requested by the disposal contractor and met all applicable criteria. For the VOC and TCLP VOC data the results are averaged to determine the concentration in the rolloff for characterization purposes. The soil data are compared to the soil/sediment action levels from NYSDEC TAGM 3028 "contained-in" criteria and the land disposal restriction/universal treatment standard (LDR/UTS) criteria. The TCLP data are compared to the groundwater action levels from TAGM 3028. The TAGM states that if a soil is derived from a listed hazardous waste (as is the case at Mohonk) the soil can be managed as a solid waste if the soil action levels and LDR/UTSs are met and the TCLP leachate meets the groundwater action

TABLE 4-1 (Page 1 of 1)

SOIL HEADSPACE ANALYSIS

Mohonk Road Industrial Plant Site No. 356023

SAMPLE NU.	NO FILTER	FILTER	NO FILTER
3 S	25	25	15
3 BN	100	25	25
3 BS	150	150	150
2W	15	20	10
2N	20	20	15
2E	40	25	20
2B	550	300	300
2S	900	600	400
WP-1	100	35	60

TABLE 5-1 (Page 1 of 4)

SOIL CHARACTERIZATION RESULTS (October 1997)

Mohonk Road Industrial Plant Site No. 356023

PARAMETER	MRRO-1A	MRRO-1B	MRRO-1C	ROLLOFF AVERAGE CONCENTRATION (mg/kg)	SOIL/ SEDIMENT ACTION LEVEL (mg/kg)	LDR/UTS (mg/kg)
VOLATILE ORGANICS (mg/kg)						
Acetone	0.018 b	0.008 b j	0.012 b	0.013	8000	160
Chloroethane	0.002 j	ND	ND	0.0007	540	NS
1,1-Dichloroethane	0.008 j	0.008 j	0.002 j	0.006	8000	6
1,1,1-Trichloroethane	0.029	0.028	0.014	0.024	700	6
Chloroform	ND	0.002 j	ND	0.0007	110	6
Tetrachloroethylene	ND	0.004 j	ND	0.001	140	6
Toluene	0.002 j	0.001 j	ND	0.001	20000	10
Xylene (total)	0.001 j	ND	ND	0.0003	2000	30

(1) - NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94, corrected for TOC of 3605 mg/kg.
b - Found in associated blanks.
j - Estimated concentration; compound present below quantitation limit.
ND - Not detected at analytical detection limit.
NS - No standard.
LDR - Land disposal restriction.
UTS - Universal Treatment standard

PARAMETER	MRRO-1A	MRRO-1B	MRRO-1C	ROLLOFF AVERAGE CONCENTRATION (mg/l)	TCLP LIMITS (mg/l)	GROUNDWATER ACTION LEVEL (mg/l)
TCLP VOCS (mg/l)						
Acetone	ND	0.016 j	ND	0.005	NS	0.05
Methylene chloride	ND	0.0067	0.0023 j	0.003	200	0.005
Trichloroethylene	ND	0.0055	ND	0.002	0.5	0.005
Toluene	ND	0.0013 j	ND	0.0004	5	0.005
1,2,4-Trichlorobenzene	0.0015 j	0.0056	0.0013	0.003	5	0.005

j - Estimated concentration; compound present below quantitation limit.
ND - Not detected at analytical detection limit.
NS - No standard.

TABLE 5-1 (Page 2 of 4)

SOIL CHARACTERIZATION RESULTS (October 1997)

Mohonk Road Industrial Plant Site No. 356023

PARAMETER	MRRO-IB	MRRO-IC
PCBs (mg/kg)	ND	ND

ND - Not detected at analytical detection limit.

TABLE 5-1 (Page 3 of 4)

SOIL CHARACTERIZATION RESULTS (October 1997)

Mohonk Road Industrial Plant Site No. 356023

PARAMETER	MRRO-IB	MRRO-IC
CONVENTIONALS		
TPH (mg/kg)	100	66
Percent Solids (%)	84	88

SOIL CHARACTERIZATION RESULTS (October 1997)

Mohonk Road Industrial Plant Site No. 356023

PARAMETER	MRRO-1B	MRRO-1C	TCLP STANDARDS
TCLP METALS (mg/l))			
Arsenic	0.021	0.030	5.0
Barium	0.499	0.511	100
Cadmium	0.0084 B	0.011	1.0
Chromium	0.0097 B	0.013 B	5.0
Mercury	ND	ND	5.0
Lead	0.016	0.019	0.2
Selenium	0.057	0.053	1.0
Silver	0.0076 B	0.0062 B	5.0

B - Value is less than the contract-required detection limit but greater than the instrument detection limit.
ND - Not detected at analytical detection limit.

levels. In this case, all criteria were met, therefore, it was decided to remove and dispose of the soil as non-hazardous.

6 EXCAVATION BACKFILL

The excavation created during the tank excavation and soil removal was backfilled on 26 September 1997. Prior to being backfilled, the excavation was lined with plastic to delineated the extent of the excavation should further excavation prove necessary. About five yards of soil removed from the upper 4-ft of the excavation was then placed back into the excavation. An additional 12 yards of clean fill material was delivered to the site and placed into the excavation. A bowl shaped depression about 2-ft deep was left after backfilling. The ground surface above the excavation was covered with a layer of plastic sheeting. A layer of plywood was laid down over the plastic sheeting to secure it in place. An additional plastic sheet was placed over the plywood and weighted in place with concrete blocks and rocks. During monitoring well sampling conducted during the first week of December 1997, it was observed that one foot of water had ponded on the plastic up to the edge of the sheeting.

7 SOIL DISPOSAL

The soil contained in the rolloff was removed from the site after receipt of all characterization analyses. The original disposal facility refused to accept the soil after determining the source was from an F002 waste, even though all results from the characterization showed that the soil was below land disposal restrictions (LDR) and was not hazardous. The second facility required the additional analysis of corrosivity, reactivity, and ignitibility in order to accept the waste (see Table 7-1). The raw laboratory data reports are in Appendix C. The rolloff was removed on 17 November 1997. Due to an accumulation of snow in the driveway the rolloff had to be pulled from it's location by a wrecker hired by HEC. The rolloff was loaded onto a truck designed to transport rolloffs; the transporter company was Freehold Cartage, Inc. The manifest was examined by LMS and signed for NYSDEC by LMS. The soil in the rolloff was disposed of as non-hazardous soil at R_3 Technologies, Inc. in Morrisville, PA. Documentation of the disposal is contained in Appendix D.

8 HEALTH AND SAFETY

HEC set up an exclusion zone around the excavation area by cordoning off the area with yellow caution tape. At the end of each work day, the backhoe was placed along one side of the excavation with the boom angled off to block access from another side.

TABLE 7-1 (Page 1 of 1)

SOIL CHARACTERIZATION RESULTS (November 1997)

Mohonk Road Industrial Plant Site No. 356023

PARAMETER	SOIL IN ROLLOFF 9718674	HAZARDOUS LIMITS
Corrosivity, pH	6.95	≤=2 or >=12.5
Ignitability (Flash Point), °F	> 141	< 60°C/140°F
Reactivity as		
Cyanide,mg/kg	< 0.1	250
Sulfide, mg/kg	< 0.1	500
Total Organic Halides (TOX), mg/kg	108	NS
% Solids	91.53	NS

NS - No standard.

HEC also provided air monitoring within the exclusion zone using a explosimeter. The explosimeter detects flammable or explosive concentrations of organic vapors as well as oxygen levels. Level C personal protection was worn by HEC personnel while cleaning and removing the tank and excavating the contaminated soil.

LMS personnel monitored the breathing zone while working within the exclusion area. The FID readings adjacent to the excavation after the tank had been removed exceeded the action levels for Level D protection and required that LMS personnel upgrade to Level C. Level C protection was used in the exclusion zone by LMS personnel even when the FID did not indicate elevated VOC levels due to the septic odor. Likewise, Level C protection was used while sampling the rolloff even though the FID readings were background.

HEC personnel entered the tank to remove the sludge in the bottom of the tank and clean the tank. Prior to entering the tank, one access port was enlarged using a gasoline powered saw with an abrasive blade. Once the access port was enlarged to the point where the tank could be safely entered and exited, a blower was placed in the other access port to ventilate the tank. An explosimeter was used to monitor the atmosphere in the tank during entry. No other air monitoring was performed. LMS personnel remained outside of the exclusion zone while the tank was being emptied and removed to keep out of the way of operating machinery.

9 CONCLUSIONS

The removal of the tank, tank contents, and adjacent soil was completed on 26 September 1997. Prior to removing the tank, approximately 700 gallons of liquid waste and 220 gallons of sludge were removed from the tank and disposed of as hazardous waste. Upon pulling the tank, the tank was observed to be severely corroded. The soils adjacent to the corroded portions of the tank were heavily stained. About 25-cy of soil was removed from the excavation and staged in a 30-cy rolloff. The staged soil was subsequently disposed of as non-hazardous soil on 17 November 1997. The excavation was lined with plastic, backfilled with clean fill, and covered with plastic and plywood.

APPENDIX A

(1)

Date: 9-23-97
Team: John Thornburg
Mike Komoroske (HEC)
Bob Governale
Joe Hedges
Oscar Garcia
Visitor: Mtn Komoroske (NUSDEC)

(2) 9-23-97

0700 JT onsite w/ Ed. Mr Hollister and Hagar-Richter for geophysics waiting for Hazardous Waste Elimination to Arrive.
0950 Mike Komoroske onsite.
1010 J.T. up to plant to wait for Excavator. Bob Governale onsite also waiting for HWE. He contracts as their confined space supervisor.
1105 Bob G. began excavating around tank to remove tree. Decided to wait until tank had been pumped.
Photo 1
1230 HEC arrives onsite. They determined that they don't have enough drums to pump out the tank and contain decon fluids. Bob and JT go into town to call their office.
1345 Bob Governale will go into Newberg to get drums. We will not pump off tank today but will excavate tank to

9-23-97 (9)

The top of the tank. Bill unloads materials off of his truck into HEC, Box truck

1355 Bob G. off site.

1358 Begin excavating top of tank

1414 Photo 2 - Excavating to expose surface of tank

1440 Photo 3 - Some seepage out of tank at effluent area. Placed some soil back on by to try to prevent more seepage overnight.

1445 Joe quits excavating and will build bermed area to hold drums

1530 HEC off site for day. J.T. over to geophysics crew.

(10)

Date: 9-24-97

Team: J. Thornburg
Joe Hedges } HEC
Oscar Garcia
Bob Governale
Mike Homoroske (HEC)

9-24-92 (11)

0700 JT onsite. HEC staging to pull tank
0708 Photo 4 Excavation after sitting over night. no additional seepage
0722 Photo 5 - staging area for drums being set up.
0835 Photo - 6 } set up for pumping
Photo - 7 } and filling drums
0845 PPE consists of:
Tank section - Level C.
tyvek, booties, respirator,
Drum area - tyvek + rain suit.
over tyvek.
Pump handler - Level D.
0849 Pump hose leaks severely.
Trying to seal off leaking areas. Cut off one section and resplice. Duct tape other connections to prevent leaking.
0915 Resume pumping.
0917 Photo 8 - Filling drums.
0920 Photo 9 - " "
Photo 10 - Pumping at tank.
0940 Completed pumping free liquid.
14 Drums. Still ~ 1.5 ft of

9-24-92 (12)

sludge in bottom of tank.
0950 Mike Komoroske onsite.
0955 Mike K. goes over to the Jasienski's to see if they will let us get some water from their tap for decon.
1020 Completed filling two drums with clean water. Will flush pump and try to get pumping again.
1054 Began to uncover tank
1102 Completed removing concrete rings.
Photo - 14
Photos - 11-13 of inside tank.
1125 Left to call office to resolve Hager Richter billing (day rate)
1140 Return to site HEC is bailing sludge out of tank with 5 gal bucket. Have cut hole (enlarged) north end of tank and have blower in south opening.
Photos - 15 - 18 -
1200 HEC breaks for lunch.
1245 Resume my work. Lining one concrete ring with plastic to

9-24-97 (13)

Hold water for decon pipe direct on drums. Will not use water drums to contain sludge.

1310 Photo-19. Effluent pipe.

1320 Return from MW-96. Tank has been removed large rust holes throughout tank.

1445 Will dispose of all materials as hazardous waste using previous sample results. Mike Komoroske agreed that this was a reasonable and conservative approach. This approach will not require additional sampling of the drums.

1510 Cutting open end of tank

1525 Banged on tank to knock loose material. Tank has ~~of~~ too many holes to be able to pressure wash without blasting material everywhere.

1605 Go home - to call Karen W.

9-24-97 (14)

re: soil handling. Steve called Steve (HEC) and arranged the following

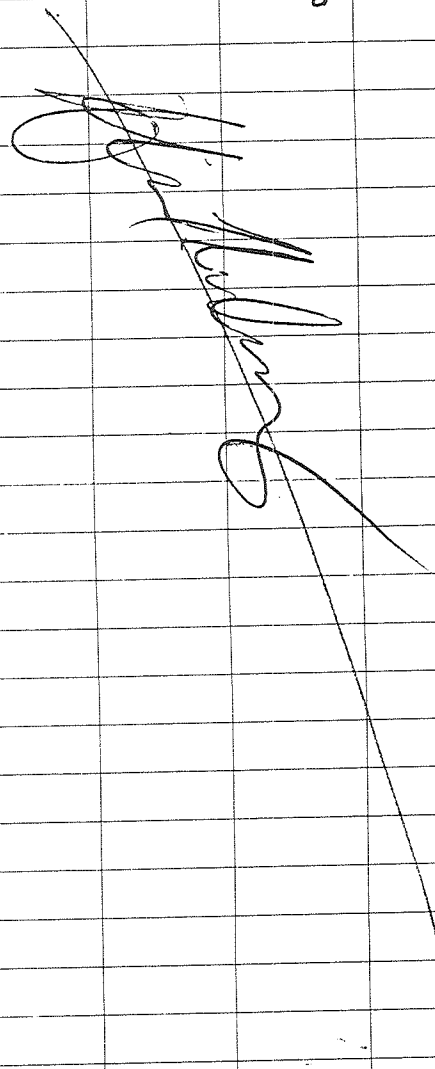
- soil will be stock piled on poly when excavated.
- A composite will be collected from the material placed on the poly.
- drums (sludge) will be removed from the site 9-25-97 using previous sludge data.
- A roll off will be delivered Friday to contain the excavated soil.

1700 Collected EX-01 from SE corner of excavation where the tank rested against the soil. Obvious staining of soil. Sample was retained by HEC for 24 hr turn around analysis. Collected sample from backhoe bucket from ~ 5ft depth.

1730 Off site

(15)

Date: 9-25-97
Team: J. Thornburg
Joe Hedges



9-25-97 (16)

0700 JT onsite, hoping with geophysics until HEC arrives at 1000

1100 Take cover off of Jasinski well MW-13B to check for Artesian flow. Flow is still artesian. Take photos 31, 32, 33 > Water flow as cap removed at MW MW-13B.

1115 Arrive at Mohawk Rod Plant HEC has not arrived yet. The drum transporter is waiting. Asc HIEC also showed him where the drums were so he could move his truck

1120 HEC onsite Joe Hedges only. Sets up to move drums onto tractor/trailer

1200 Began loading first Drum onto truck.
Photo 34 - Drum loading

1205 Photo 35 - Drum Labeling

9-25-97 (17)

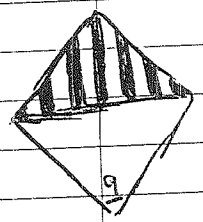
Drums labeled

RQ Hazardous Waste Liquids, N.O.S. (Trichloroethane) (F001, F002)
9, NA3002, PG III, ERG# 171
(Sludge)

Generator Information

Name: Mohonk Rd Industrial Park
Telephone: (914) 735-3300
Address: 186 Mohonk Rd.
City: High Falls State: NY.
Zip: 11743
EPA ID # NYD986950012
EPA Manifest Doc #: 27555
EPA Waste #: F001, F002
Accumulation Start Date: 9-22-97
State Manifest Doc #. NYB8427555

Also with hazard label



9-25-97 (18)

1214 Photo 36 - Waste Hauler Truck
Freehold Cartage Inc.
Freehold NJ.
NJ AA-3921
1325 Completed Manifest.
Generator: NYS DEC
50 Wolf Rd
Albany, NY 12233-7010

State Transporters ID NY-JA-113

4 Drums Sludge
14 Drums Liquid.

Drum Labels were left the same (eg Mohonk Rd) etc. per HEC's Steve Mathews (?) instruction to Joe Hedges.
1405 Waste Hauler exits site.
Signed manifest for NYSDEC
1430 HEC began reconstructing berm to contain contaminated soil.
1455 Began excavating soil from tank excavation

9-25-97 (19)

1510 OVA reading greater than 10 ppm at edge of excavation. Upgraded to Level C.

1600 Collected EX-2W
1605 EX-2N
1610 EX-2E
1615 EX-2B
1620 EX-2S
1625 WP-1

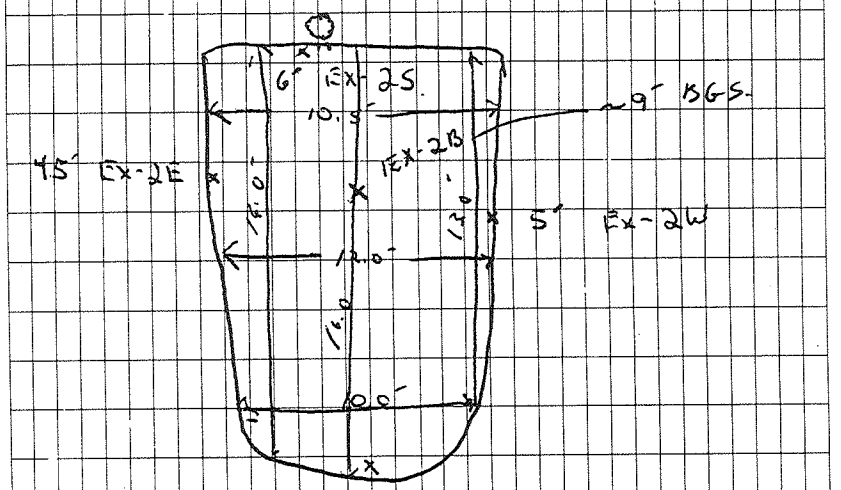
1625 Excavator started crushing tank to load onto trucks. Tank 4.0 x 10.5 Ft.

1650 Head space on samples in ziplock bags.

2W	15	20	10
2N	20	20	15
2E	40	25	20
2B	550	300	300
2S	900	600	400
WP-1	100	35	60
	no filter	filter	no filter

Excavator boss left loose soil from side walls in bottom of excavation. Since he did not segregate this ~~il~~ additional soil must be removed as loose soil must be also as hazardous.

(20) 9-25-97



Influent pipe 2.3' BGS
Tank bottom ~ 6.5' BGS.

photo	1	
photo	2	
photo	3	
photo	4	
photo	5	EX-2W sample location
photo	6	EX-2N sample location
photo	7	EX-2S sample location
photo	8	EX-2S sample location
Photos	9	EX-2B sample location

9-25-97 (21)

photo 10 > General Excavation
photo 11 > from NE
photo 12 View of Ex. from SE

1720 Excavator loading tank into truck after crushing. Tank is not completely clean since it was not pressure washed.

1735 Blocked off excavation with backhoe and construction flagging. Not blocked by barricade fencing as required.

1755 offsite

Photo 20 Roll off container being filled.

Photo 21 Soil staging area, after soil had been removed with clean berm left.

Photo 22 Sample EX3BN } 9-26-97
Photo 23 Sample EX3BS }

9-26-97 (22)

1600 H&E arrived onsite. KAW and TS onsite re: rain incident earlier in the day.

H&E removing loose soil from excavation and placing in rolloff

1730 Completed placing about 5-cy soil from excavation into rolloff. Prepared to steam clean. Collected samples ⇒ over

1900 pressure washer not working properly. Plus not enough drums. Washed buckets over excavation and allowed water to wash into soil at bottom of excavation.

2000 Lined pit with plastic. Began placing clean fill into excavation 12 yd clean fill

2200 Completed backfilling. Began to cover with plastic and plywood.

2330 Off site to Hyatt Lab.*

* Times approximate. Pitch Black out. No Wristwatch

9-25-77 (23)

1750 EX3BN - (Bottom north) - 9'

1755 EX 3 BS - (Bottom south - 7 1/2'

1810 EX 3 S - (SOUTH WALL) -

Sample #	no filter	filter	no filter
3S	25	25	15
3 BN	100	25	35
3 BS	150	150	150

(24)

APPENDIX B

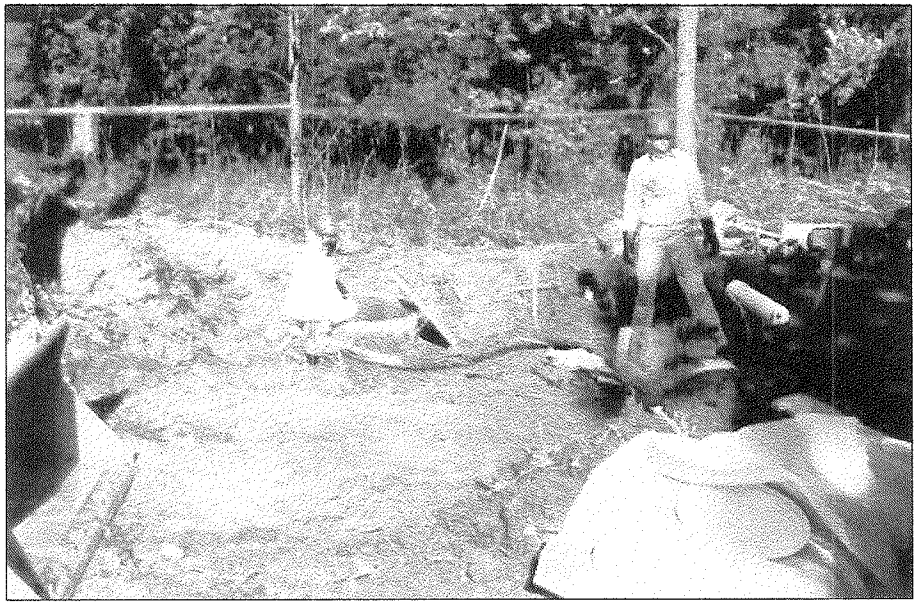


Photo 1. Tank with pump setup. (9-23-97)

Photo 2. Pumping out tank into drums in staging area. (9-24-97)

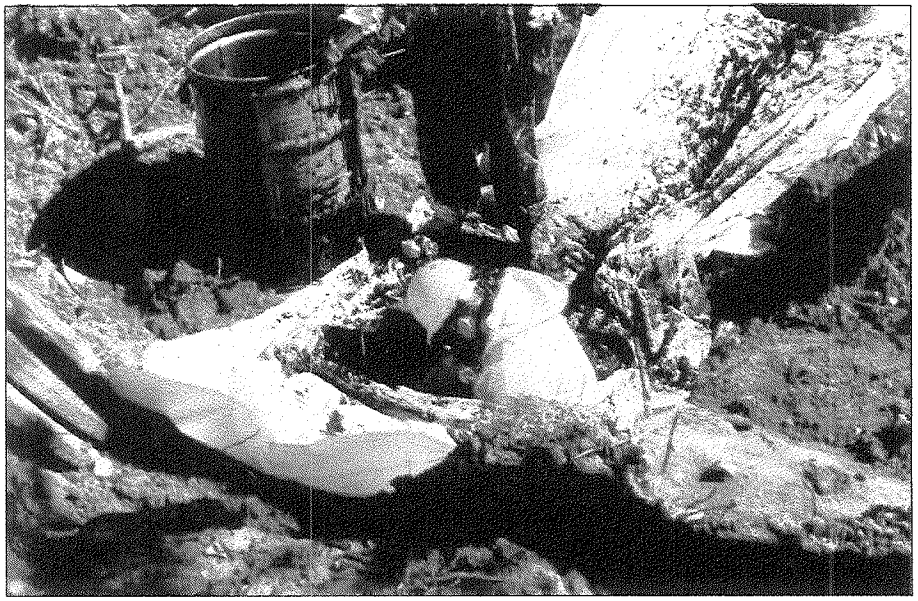


Photo 3. Tank cleaning by Hazardous Elimination Corp. (9-23-97)

Photo 4. Hand removal of sludge. (9-24-97)

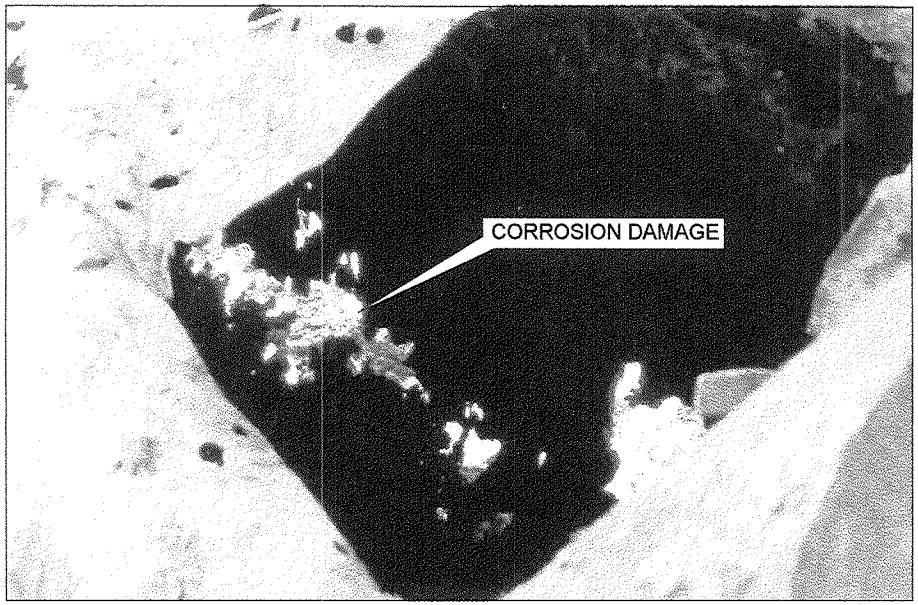


Photo 5. Inside of tank as it is removed showing corrosion damage. (9-24-97)

Photo 6. Removed tank showing severe corrosion damage. (9-24-97)

Photo 7. Tank opening after removal to complete cleaning. (9-24-97)

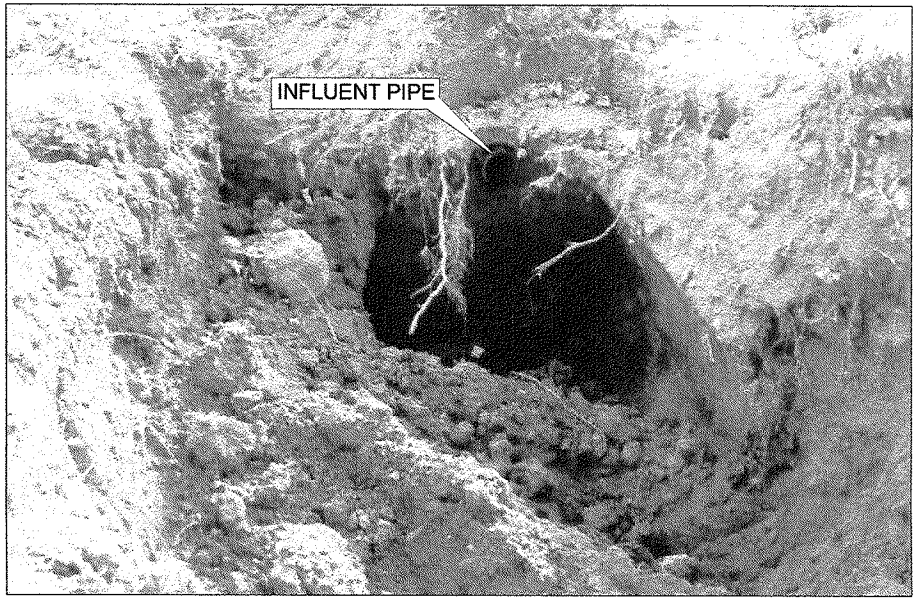


Photo 8. Impression left by tank upon removal with influent pipe at top. (9-24-97)

APPENDIX C

Client: HEC	Client ID: LMS-Mohonk Rd, Industrial Park (Ex-01 (Bottom of Excavation))
Date received: 9/29/97	Laboratory ID: 9717811
Date extracted: 9/29/97	Matrix: Soil
Date analyzed: 9/29/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	67-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Venuti
Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX (516) 454-8027

Client: HEC	Client ID: LMS-Mohonk Rd, Industrial Park (Ex-01 (Bottom of Excavation))
Date received: 9/29/97	Laboratory ID: 9717811
Date extracted: 9/29/97	Matrix: Soil
Date analyzed: 9/29/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	107
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 North Wall)
Date received: 9/26/97	Laboratory ID: 9717779
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	8
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 North Wall)
Date received: 9/26/97	Laboratory ID: 9717779
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Venuto

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
66 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 South Wall)
Date received: 9/26/97	Laboratory ID: 9717780
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	6
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 South Wall)
Date received: 9/26/97	Laboratory ID: 9717780
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	67-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Verrill

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 East Wall)
Date received: 9/26/97	Laboratory ID: 9717781
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 East Wall)
Date received: 9/26/97	Laboratory ID: 9717781
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	6
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	67-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Verrillo

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 West Wall)
Date received: 9/26/97	Laboratory ID: 9717782
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	24
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	18
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Wa-1 Soil Composite)
Date received: 9/26/97	Laboratory ID: 9717784
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<6
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	408
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Venditti

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Wa-1 Soil Composite)
Date received: 9/26/97	Laboratory ID: 9717784
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	1,103
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	117
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 Bottom Wall)
Date received: 9/26/97	Laboratory ID: 9717783
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Venditti

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 Bottom Wall)
Date received: 9/26/97	Laboratory ID: 9717783
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	35
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: H.E.C.	Client ID: Mohonk Industrial Plant (Ex-2 West Wall)
Date received: 9/26/97	Laboratory ID: 9717782
Date extracted: 9/26/97	Matrix: Soil
Date analyzed: 9/26/97	Contractor: 11418

EPA METHOD 8260

Parameter	CAS No.	Results ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
VINYL CHLORIDE	75-01-4	<5
ACETONE	62-64-1	<5
CARBON DISULFIDE	75-15-0	<5
2-BUTANONE	78-93-3	<5
VINYL ACETATE	108-05-4	<5
2-HEXANONE	591-78-6	<5
XYLENES (TOTAL)	1330-20-7	<15

Michael Venditti

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES
56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3BN

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343037

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343037V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 10 Date Analyzed: 10/02/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	15	
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	25	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	26	
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	10	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	5	J
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	37	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3BN

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343037

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343037V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 10 Date Analyzed: 10/02/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
76-13-1	Freon TF	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX3BN

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343037

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343037V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 10 Date Analyzed: 10/02/97

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

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

Number TICs found: 16

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN TERPENE	12.64	6	J
2.		UNKNOWN ALKANE	13.26	21	J
3.		UNKNOWN ALKANE	13.57	6	J
4.		UNKNOWN	13.74	27	J
5.		UNKNOWN	14.28	16	J
6.		UNKNOWN ALKANE	14.43	34	J
7.		UNKNOWN C4-ALKYLBENZENE W/AL	14.62	8	JZ
8.		UNKNOWN C4-ALKYLBENZENE	14.69	6	J
9.		UNKNOWN	14.82	15	J
10.		UNKNOWN	14.99	13	J
11.		UNKNOWN	15.14	14	J
12.		UNKNOWN ALKANE	15.39	52	J
13.		UNKNOWN C4-ALKYLBENZENE	15.47	15	J
14.		UNKNOWN ALKANE	15.53	25	J
15.		UNKNOWN	15.61	9	J
16.		UNKNOWN C4-ALKYLBENZENE	15.80	6	J
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3BS

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343038

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343038V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 18 Date Analyzed: 10/02/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	130	
75-09-2	Methylene Chloride	15	
67-64-1	Acetone	40	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	80	
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	8	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	10	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3BS

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343038

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343038V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 18 Date Analyzed: 10/02/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
76-13-1	Freon TF	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX3BS

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343038

Sample wt/vol: 5.0 (g/mL) G Lab File ID: O343038V

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 18 Date Analyzed: 10/02/97

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

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	9.09	8	J
2.		UNKNOWN ALKANE	13.36	13	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3S

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343039

Sample wt/vol: 2.0 (g/mL) G Lab File ID: O343039DV

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 19 Date Analyzed: 10/03/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	31	U
74-83-9	Bromomethane	31	U
75-01-4	Vinyl Chloride	31	U
75-00-3	Chloroethane	75	
75-09-2	Methylene Chloride	31	U
67-64-1	Acetone	64	B
75-15-0	Carbon Disulfide	31	U
75-35-4	1,1-Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	15	J
540-59-0	1,2-Dichloroethene (total)	31	U
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	4	J
56-23-5	Carbon Tetrachloride	31	U
75-27-4	Bromodichloromethane	31	U
78-87-5	1,2-Dichloropropane	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-01-6	Trichloroethene	31	U
124-48-1	Dibromochloromethane	31	U
79-00-5	1,1,2-Trichloroethane	31	U
71-43-2	Benzene	31	U
10061-02-6	trans-1,3-Dichloropropene	31	U
75-25-2	Bromoform	31	U
108-10-1	4-Methyl-2-Pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
108-88-3	Toluene	9	J
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	23	J
100-42-5	Styrene	31	U
1330-20-7	Xylene (total)	120	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EX3S

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343039

Sample wt/vol: 2.0 (g/mL) G Lab File ID: O343039DV

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 19 Date Analyzed: 10/03/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
76-13-1	Freon TF	31	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EX3S

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66709

Matrix: (soil/water) SOIL Lab Sample ID: 343039

Sample wt/vol: 2.0 (g/mL) G Lab File ID: O343039DV

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. 19 Date Analyzed: 10/03/97

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

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

Number TICs found: 19

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	926-57-8	1,3-DICHLORO-2-BUTENE	9.08	18	NJ
2.		UNKNOWN	12.67	19	J
3.		UNKNOWN	13.00	27	J
4.		UNKNOWN	13.24	130	J
5.		UNKNOWN ALKANE	13.55	340	J
6.		UNKNOWN C3-ALKYLBENZENE	13.64	100	J
7.		UNKNOWN ALKANOL	13.73	53	J
8.		UNKNOWN	13.78	58	J
9.		UNKNOWN ALKYLCYCLOHEXANE	13.88	130	J
10.		UNKNOWN ALKANE	14.42	720	J
11.		UNKNOWN ALKYLCYCLOHEXANE	14.52	300	J
12.		UNKNOWN	14.61	610	J
13.		UNKNOWN ALKANE	14.73	230	J
14.		UNKNOWN	14.87	280	J
15.		UNKNOWN	14.98	830	J
16.		UNKNOWN	15.13	550	J
17.		UNKNOWN ALKANE	15.39	1200	J
18.		UNKNOWN ALKANE	15.52	940	J
19.		UNKNOWN	15.62	740	J
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

000042

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343793

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343793V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 14 Date Analyzed: 10/08/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	8	JB
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	8	J
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	28	
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343793

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343793V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 14 Date Analyzed: 10/08/97

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

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

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	13.76	7	J
2.		UNKNOWN	14.28	56	J
3.		UNKNOWN	14.78	25	J
4.		UNKNOWN ALKANE	14.90	14	J
5.		UNKNOWN SILOXANE DERIVATIVE	15.18	9	J
6.		UNKNOWN	15.30	6	J
7.		UNKNOWN ALKANE	15.62	7	J
8.		UNKNOWN ALKANE	15.85	18	J
9.		UNKNOWN ALKANE	15.99	10	J
10.		UNKNOWN	16.07	6	J
11.		UNKNOWN	16.47	10	J
12.		UNKNOWN	16.64	73	J
13.		UNKNOWN ALKANE	16.80	12	J
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343795

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343795V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 20 Date Analyzed: 10/08/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	2	J
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	8	J
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	29	
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	1	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343795

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343795V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 20 Date Analyzed: 10/08/97

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

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

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	13.75	27	J
2.		UNKNOWN ALKANE	14.06	10	J
3.		UNKNOWN	14.27	21	J
4.		UNKNOWN ALKYLCYCLOHEXANE	14.39	7	J
5.		UNKNOWN	14.47	7	J
6.		UNKNOWN	14.78	10	J
7.		UNKNOWN ALKANE	14.89	52	J
8.		UNKNOWN	15.09	11	J
9.		UNKNOWN	15.16	8	J
10.		UNKNOWN	15.28	13	J
11.		UNKNOWN	15.44	17	J
12.		UNKNOWN	15.58	14	J
13.		UNKNOWN ALKANE	15.85	55	J
14.		UNKNOWN	15.98	22	J
15.		UNKNOWN	16.08	10	J
16.		UNKNOWN	16.46	10	J
17.		UNKNOWN ALKANE	16.55	6	J
18.		UNKNOWN	16.63	99	J
19.		UNKNOWN ALKANE	16.79	29	J
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343797

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343797I2V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 16 Date Analyzed: 10/10/97

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	2	J
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	14	
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) SOIL Lab Sample ID: 343797

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N343797I2V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. 16 Date Analyzed: 10/10/97

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

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

Number TICs found: 5

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	7.37	10	NJ
2.		UNKNOWN	14.27	17	J
3.		UNKNOWN	14.77	9	J
4.		UNKNOWN ALKANOL	15.39	9	J
5.		UNKNOWN	16.64	14	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343794V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
67-64-1	Acrolein	25	U
76-13-1	Freon TF	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	16	J
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	5.0	U
107-05-1	Allyl Chloride	10	U
75-09-2	Methylene Chloride	6.7	
107-13-1	Acrylonitrile	10	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1634-04-4	Methyl-t-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
126-99-8	Chloroprene	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	25	U
107-12-0	Propionitrile	10	U
126-98-7	Methacrylonitrile	5.0	U
74-97-5	Bromochloromethane	5.0	U
109-99-9	Tetrahydrofuran	250	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
78-83-1	Isobutyl Alcohol	250	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343794V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.5	
78-87-5	1,2-Dichloropropane	5.0	U
80-62-6	Methyl Methacrylate	5.0	U
74-95-3	Dibromomethane	5.0	U
123-91-1	1,4-Dioxane	250	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	1.3	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1476-11-5	cis-1,4-Dichloro-2-butene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	5.6	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343794V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343794

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343794V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343796

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343796V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
67-64-1	Acrolein	25	U
76-13-1	Freon TF	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	25	U
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	5.0	U
107-05-1	Allyl Chloride	10	U
75-09-2	Methylene Chloride	5.0	U
107-13-1	Acrylonitrile	10	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1634-04-4	Methyl-t-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	J
108-05-4	Vinyl Acetate	10	U
126-99-8	Chloroprene	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	25	U
107-12-0	Propionitrile	10	U
126-98-7	Methacrylonitrile	5.0	U
74-97-5	Bromochloromethane	5.0	U
109-99-9	Tetrahydrofuran	250	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
78-83-1	Isobutyl Alcohol	250	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343796

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343796V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
80-62-6	Methyl Methacrylate	5.0	U
74-95-3	Dibromomethane	5.0	U
123-91-1	1,4-Dioxane	250	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1476-11-5	cis-1,4-Dichloro-2-butene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	1.5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343796

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343796V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1A

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343796

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343796V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343798

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343798V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
67-64-1	Acrolein	25	U
76-13-1	Freon TF	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	25	U
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	5.0	U
107-05-1	Allyl Chloride	10	U
75-09-2	Methylene Chloride	2.3	J
107-13-1	Acrylonitrile	10	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1634-04-4	Methyl-t-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	10	U
126-99-8	Chloroprene	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	25	U
107-12-0	Propionitrile	10	U
126-98-7	Methacrylonitrile	5.0	U
74-97-5	Bromochloromethane	5.0	U
109-99-9	Tetrahydrofuran	250	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
78-83-1	Isobutyl Alcohol	250	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343798

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343798V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
80-62-6	Methyl Methacrylate	5.0	U
74-95-3	Dibromomethane	5.0	U
123-91-1	1,4-Dioxane	250	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1476-11-5	cis-1,4-Dichloro-2-butene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	13	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343798

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343798V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66864

Matrix: (soil/water) WATER Lab Sample ID: 343798

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V343798V

Level: (low/med) LOW Date Received: 10/07/97

% Moisture: not dec. _____ Date Analyzed: 10/09/97

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRR01B

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 95212_____

Lab Code: INCHVT Case No.: 95212_ SAS No.: _____ SDG No.: 66904_

Matrix (soil/water): WATER Lab Sample ID: 344329

Level (low/med): LOW__ Date Received: 10/11/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	20.8			P
7440-39-3	Barium	499			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	8.4	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.7	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	15.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	10.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	56.8			P
7440-22-4	Silver	7.6	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

RESULTS_REPORTED_ARE_A_TCLP_EXTRACT._____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MRR01C

Lab Name: ITS_ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66904

Matrix (soil/water): WATER Lab Sample ID: 344331

Level (low/med): LOW Date Received: 10/11/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	30.3			P
7440-39-3	Barium	511			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	10.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.6	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	18.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	10.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	53.4			P
7440-22-4	Silver	6.2	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESULTS_REPORTED_ARE_A_TCLP_EXTRACT.

ITS Intertek Testing Services
Environmental Laboratories

55 South Park Drive
Colchester, VT 05446

Analytical Report

Lawler, Matusky and
Skelly Engineers
One Blue Hill Plaza
Pearl River, NY 10965

Attention : Maria Heincz

Date : 10/24/97
ETR Number : 66941
Project No.: 95212
No. Samples: 5
Arrived : 10/11/97
P.O. Number: *

Case:95212 SDG:66904 Mohank RI/FS

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
344328	MRRO1B:10/10/97 @1200(Soil)	
IN670	TPH, Solid by 418.1	100 f
IN623	Solids, Percent	84.4 c
344330	MRRO1C:10/10/97 @1208(Soil)	
IN670	TPH, Solid by 418.1	65.6 f
IN623	Solids, Percent	87.8 c

Comments/Notes

f = mg/Kg dry weight
c = %W/W as received

< Last Page > Submitted By : Aquatec Inc.

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MRRO1B

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66904

Matrix: (soil/water) SOIL Lab Sample ID: 344328

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 10/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/97

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/23/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	20	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	20	U
53469-21-9	Aroclor-1242	20	U
12672-29-6	Aroclor-1248	20	U
11097-69-1	Aroclor-1254	20	U
11096-82-5	Aroclor-1260	20	U

FORM 1
OTHER ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MRRO1C

Lab Name: ITS ENVIRONMENTAL Contract: 95212

Lab Code: INCHVT Case No.: 95212 SAS No.: SDG No.: 66904

Matrix: (soil/water) SOIL Lab Sample ID: 344330

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 12 decanted: (Y/N) N Date Received: 10/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/97

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/23/97

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	19	U
11104-28-2	Aroclor-1221	19	U
11141-16-5	Aroclor-1232	19	U
53469-21-9	Aroclor-1242	19	U
12672-29-6	Aroclor-1248	19	U
11097-69-1	Aroclor-1254	19	U
11096-82-5	Aroclor-1260	19	U

Client: Hazardous Elimination Corp.	Client ID:Mohawk Rd. Ind. Park Soil in roll off from excavation
Date received: 11/7/97	Laboratory ID: 9718674
Date extracted: 11/7, 11/10, 11/11/97	Matrix: Soil
Date analyzed: 11/7, 11/10, 11/11/97	Contractor: 11418

ANALYTICAL REPORT

PARAMETER	METHOD	RESULTS
TOX	SW846/9020	108 mg/kg
Flash Point	EPA SW846/1010	>140°F
pH	EPA SW846/9040	6.95
Reactivity as	EPA SW846/7.3.3.2 EPA SW846/7.3.4.2*	cn: <0.1mg/kg s: <0.1 mg/kg
% Moisture/ % Solids	SM182540B	8.47% moisture 91.53 % solids

*Chapter 7, section 7.3.3.2 & chapter 7, section 7.3.4.2.

Michael Verrillo

Laboratory Director

AMERICAN ANALYTICAL LABORATORIES

56 TOLEDO STREET • FARMINGDALE, NEW YORK 11735 • (516) 454-6100 • FAX: (516) 454-8027

APPENDIX D

48-14-1 (4/96)–7a

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

Please print or type. Do not Stapled.

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No.: N Y D 9 8 6 9 5 0 0 1 2 — Manifest Document No.: 2 7 5 5 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
NYS DEPT OF ENV CONS
50 WOLF RD
ALBANY NY 12233-7010
Mohonk Road Industrial Park
186 Mohonk Road T.O.
High Falls, NY

4. Generator's Phone (914) 735-8300 (518) 457 2395

A. State Manifest Document No.: NY B 842755 5

B. Generator's ID: mohonk RD Industrial Park 186 Mohonk RD

5. Transporter 1 (Company Name): Freehold Cartage, Inc.

6. US EPA ID Number: N J D 0 5 4 1 2 6 1 6 4

C. State Transporter's ID: NY-JA-113

D. Transporter's Phone (908) 462-1001

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
North East Chemical Corporation
3301 Monroe Avenue
Cleveland, OH 44113

10. US EPA ID Number: O H D 9 8 0 6 8 1 5 7 1

G. State Facility's ID

H. Facility's Phone: (216) 961-8618

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X 04	D M	220	G	EPA F001,F002 STATE
b. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X 14	D M	770	G	EPA F001,F002 STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above

a 1,1,1 TCA 1,3,0 — c

b 1,1,1 TCA 1,3,0 — d

K. Handling Codes for Wastes Listed Above

a B — c

b B — d

15. Special Handling Instructions and Additional Information: Emergency Contact: Steve Matthews 516-752-2898

11a) NEC (Sludge)
11b) NEC (Liquid)

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: John DeCarlo — Signature: [signature] — Mo. 07 Day 25 Year 97

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name: THOMAS G OCKENFUSS — Signature: Thomas G Ockenfuss — Mo. 09 Day 25 Year 97

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name — Signature — Mo. Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Mo. Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (518) 457-7362.

NY B047 CC C

48-14-1 (4/96)-Fa

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

Please print or type. Do not Staple.

P.O. Box 12820, Albany, New York 12212

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD986950012 — Manifest Document No. 27555
2. Page 1 of 1 — Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
Mohonk Road Industrial Park
186 Mohonk Road
High Falls, NY

A. State Manifest Document No. NY B 842755 5

4. Generator's Phone (914) 735-8300

B. Generator's ID

5. Transporter 1 (Company Name): Freehold Cartage, Inc.
6. US EPA ID Number: NJD054126164
C. State Transporter's ID: NY-JA-113
D. Transporter's Phone (908) 462-1001

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
North East Chemical Corporation
3301 Monroe Avenue
Cleveland, OH 44113
10. US EPA ID Number: OHD980681571
G. State Facility's ID
H. Facility's Phone: 216) 961-8618

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X 04	D M	0220	G	EPA F001,F002 STATE
b. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X 14	D M	0770	G	EPA F001,F002 STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above
a 1,1,1 TCA 130
b 1,1,1 TCA 130
c
d

K. Handling Codes for Wastes Listed Above
a B
b B
c
d

15. Special Handling Instructions and Additional Information Emergency Contact: Steve Matthews 516-752-2898
11a) NEC (Sludge)
11b) NEC (Liquid)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: [illegible] — Signature: [signature] — Mo. 07 Day 17 Year 97

TRANSPORTER
17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: THOMAS G OCKENFUSS — Signature: [signature] — Mo. 09 Day 25 Year 97
18. Transporter 2 (Acknowledgement or Receipt of Materials)
Printed/Typed Name — Signature — Mo. Day Year

FACILITY
19. Discrepancy Indication Space
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Mo. Day Year

In case of emergency or spill immediately call the National Response Center (800) 424-8802

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

11a

OMNI • NORTH EAST CHEMICAL CORPORATION
GENERATOR'S NOTIFICATION of LAND DISPOSAL RESTRICTION

One-time notification required for each waste stream unless waste or generating process changes.

Generator: Mohonk Road Industrial Park EPA Id #: NYD986950012

EPA Waste Codes: F001,F002 Manifest#: NYB8427555 NEC#: _____

COMPLETE EITHER SECTION A OR SECTION B OR SECTION C - Attach analytical data if available.

☒ **A. This waste is restricted from land disposal; see treatment standards in 40 CFR 268.40. (Complete sections 1, 2, 3, and 4; no Certification or generator signature is required.)**

1. **TREATABILITY GROUP: Check one:** ☒ **Nonwastewater** ☐ **Wastewater (<1% TOC, <1% Solids)**
2. **SUBCATEGORIES: Check if appropriate:**

   D001 nonwastewaters: ☐ **High TOC Subcategory (>10%)** ☐ **Low TOC Subcategory (<10%)**

   D008 nonwastewaters: Check here only for Lead Acid Battery subcategory: ☐

   D009 nonwastewaters: ☐ **≥ 260 mg/kg Mercury w/organics** ☐ **≥ 260 mg/kg Mercury w/out organics** ☐ **< 260 mg/kg Mercury**
3. **UNDERLYING HAZARDOUS CONSTITUENTS: For D001 Ignitable (TOC < 10%), D001 Oxidizers, D002 Corrosives, and D012-D043 (only) wastes, not managed in CWA or CWA-equivalent facilities, check one:**

   ☐ **Universal Treatment Standard Addendum attached, showing underlying hazardous constituents.**

   ☐ **No underlying hazardous constituents present.**
4. **F001 - F005 SPENT SOLVENT WASTES: Check all applicable constituents:**

☐ Acetone	☐ o-Cresol	☐ Ethyl acetate	☐ Methyl ethyl ketone	☒ 1,1,1-Trichloroethane
☐ Benzene	☐ m-Cresol	☐ Ethyl benzene	☐ Methyl isobutylketone	☐ 1,1,2-Trichloroethane
☐ n-Butanol	☐ p-Cresol	☐ Ethyl ether	☐ Nitrobenzene	☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ Carbon disulfide	☐ Cresols (mixed)/ Cresylic Acid	☐ Isobutanol	☐ Pyridine	☐ Trichloroethylene
☐ Carbon Tetrachloride	☐ Cyclohexanone	☐ Methanol	☐ Tetrachloroethylene	☐ Trichloromono-fluoromethane
☐ Chlorobenzene	☐ o-Dichlorobenzene	☐ Methylene chloride	☐ Toluene	☐ mixed Xylenes

F003 and/or F005 with one or more of the following spent solvents as the only F001-5 constituents:

☐ Carbon disulfide	☐ Cyclohexanone	☐ 2-Ethoxyethanol	☐ Methanol	☐ 2-Nitropropane

☐ **B. NON-RESTRICTED WASTES: This waste meets all treatment standards as generated and is NOT prohibited from land disposal. Sign certification: "I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40CFR part 269 subpart D. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."**

GENERATOR SIGNATURE: for NYS DEC Date: 9-25-97

☐ **C. LAB PACKS: For lab packs containing hazardous wastes and for which the generator wishes to use the alternative lab pack treatment standards in 40 CFR 268.42(c), sign certification: "I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."**

LAB PACK GENERATOR SIGNATURE: _____ Date: _____

North East Chemical - Universal Treatment Standard Addendum - 40 CFR 268.48

Generator: Mohonk Road Indust. Park **Manifest Doc. No.:** 27555 **Line:** 11a

Is this a (check one): ☐ Wastewater, or ☒ Nonwastewater?

Check each Underlying Hazardous Constituent present: ☐ **No Underlying Hazardous Constituents are present, or:**

- ☐ Acenaphthylene
- ☐ Acenaphthene
- ☐ Acetone
- ☐ Acetonitrile
- ☐ Acetophenone
- ☐ 2-Acetylaminofluorene
- ☐ Acrolein
- ☐ Acrylamide
- ☐ Acrylonitrile
- ☐ Aldrin
- ☐ 4-Aminobiphenyl
- ☐ Aniline
- ☐ Anthracene
- ☐ Aramite
- ☐ α-BHC
- ☐ β-BHC
- ☐ δ-BHC
- ☐ γ-BHC
- ☐ Benzene
- ☐ Benz(a)anthracene
- ☐ Benzal chloride
- ☐ Benzo(b)fluoranthene
- ☐ Benzo(k)fluoranthene
- ☐ Benzo(g,h,i)perylene
- ☐ Benzo(a)pyrene
- ☐ Bromodichloromethane
- ☐ Methyl bromide (Bromomethane)
- ☐ 4-Bromophenyl phenyl ether
- ☐ n-Butyl alcohol
- ☐ Butyl benzyl phthalate
- ☐ 2-sec-Butyl-4,6-dinitrophenol (dinoseb)
- ☐ Carbon disulfide
- ☐ Carbon tetrachloride
- ☐ Chlordane (α & γ isomers)
- ☐ p-Chloroaniline
- ☐ Chlorobenzene
- ☐ Chlorobenzilate
- ☐ 2-Chloro-1,3-butadiene
- ☐ Chlorodibromomethane
- ☐ Chloroethane
- ☐ bis(2-Chloroethoxy)methane
- ☐ bis(2-Chloroethyl)ether
- ☐ Chloroform
- ☐ bis(2-Chloroisopropyl)ether
- ☐ p-Chloro-m-cresol
- ☐ 2-Chloroethyl vinyl ether
- ☐ Chloromethane (Methyl chloride)
- ☐ 2-Chloronaphthalene
- ☐ 2-Chlorophenol
- ☐ 3-Chloropropylene
- ☐ Chrysene
- ☐ o-Cresol
- ☐ m-Cresol
- ☐ p-Cresol
- ☐ Cyclohexanone
- ☐ 1,2-Dibromo-3-chloropropane
- ☐ Ethylene dibromide (1,2-Dibromoethane)
- ☐ Dibromomethane
- ☐ 2,4-D (2,4-Dichlorophenoxyacetic acid)
- ☐ o,p'-DDD
- ☐ p,p'-DDD
- ☐ o,p'-DDE
- ☐ p,p'-DDE
- ☐ o,p'-DDT
- ☐ p,p'-DDT
- ☐ Dibenzo(a,h)anthracene
- ☐ Dibenzo(a,e)pyrene
- ☐ m-Dichlorobenzene
- ☐ o-Dichlorobenzene
- ☐ p-Dichlorobenzene
- ☐ Dichlorodifluoromethane
- ☐ 1,1-Dichloroethane
- ☐ 1,2-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ trans-1,2-Dichloroethylene
- ☐ 2,4-Dichlorophenol
- ☐ 2,6-Dichlorophenol
- ☐ 1,2-Dichloropropane
- ☐ cis-1,3-Dichloropropylene
- ☐ trans-1,3-Dichloropropylene
- ☐ Dieldrin
- ☐ Diethyl phthalate
- ☐ 2,4-Dimethyl phenol
- ☐ Dimethyl phthalate
- ☐ Di-n-butyl phthalate
- ☐ 1,4-Dinitrobenzene
- ☐ 4,6-Dinitro-o-cresol
- ☐ 2,4-Dinitrophenol
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene
- ☐ Di-n-octyl phthalate
- ☐ p-Dimethylaminoazobenzene
- ☐ Di-n-propylnitrosamine
- ☐ 1,4-Dioxane
- ☐ Diphenylamine
- ☐ Diphenylnitrosamine
- ☐ 1,2-Diphenylhydrazine
- ☐ Disulfoton
- ☐ Endosulfan I
- ☐ Endosulfan II
- ☐ Endosulfan sulfate
- ☐ Endrin
- ☐ Endrin aldehyde
- ☐ Ethyl acetate
- ☐ Ethyl cyanide (propanenitrile)
- ☐ Ethyl benzene
- ☐ Ethyl ether
- ☐ bis(2-Ethylhexyl) phthalate
- ☐ Ethyl methacrylate
- ☐ Ethylene oxide
- ☐ Ethylene oxide
- ☐ Famphure
- ☐ Fluoranthene
- ☐ Fluorene
- ☐ Heptachlor
- ☐ Heptachlor epoxide
- ☐ Hexachlorobenzene
- ☐ Hexachlorobutadiene
- ☐ Hexachlorocyclopentadiene
- ☐ Hexachlorodiebenzo-p-dioxins
- ☐ Hexachlorodibenzofurans
- ☐ Hexachloroethane
- ☐ Hexachloropropylene
- ☐ Indeno (1,2,3-c,d) pyrene
- ☐ Iodomethane
- ☐ Isobutyl alcohol
- ☐ Isodrin
- ☐ Isosafrole
- ☐ Kepone
- ☐ Methacrylonitrile
- ☐ Methanol
- ☐ Methapyrilene
- ☐ Methoxychlor
- ☐ 3-Methylcholanthrene
- ☐ 4,4'-Methylene bis(2-chloroaniline)
- ☐ Methylene chloride
- ☐ Methyl ethyl ketone
- ☐ Methyl isobutyl ketone
- ☐ Methyl methacrylate
- ☐ Methyl methansulfate
- ☐ Methyl parathion
- ☐ Naphthalene
- ☐ 2-Naphthylamine
- ☐ o-Nitroaniline
- ☐ p-Nitroaniline
- ☐ Nitrobenzene
- ☐ 5-Nitro-o-toluidine
- ☐ o-Nitrophenol
- ☐ p-Nitrophenol
- ☐ N-Nitrosodiethylamine
- ☐ N-Nitrosodimethylamine
- ☐ N-Nitroso-di-n-butylamine
- ☐ N-Nitrosomethylethylamine
- ☐ N-Nitrosomorpholine
- ☐ N-Nitrosopiperidine
- ☐ N-Nitrosopyrrolidine
- ☐ Parathion
- ☐ Total PCBs (all isomers)
- ☐ Pentachlorobenzene
- ☐ Pentachlorodibenzo-p-dioxins
- ☐ Pentachlorodibenzofurans
- ☐ Pentachloroethane
- ☐ Pentachloronitrobenzene
- ☐ Pentachlorophenol
- ☐ Phenacetin
- ☐ Phenanthrene
- ☐ Phenol
- ☐ Phorate
- ☐ Phthalic acid
- ☐ Phthalic anhydride
- ☐ Pronamide
- ☐ Pyrene
- ☐ Pyridine
- ☐ Safrole
- ☐ Silvex (2,4,5-TP)
- ☐ 2,4,5-T (Trichlorophenoxyacetic acid)
- ☐ 1,2,4,5-Tetrachlorobenzene
- ☐ Tetrachlorodibenzo-p-dioxins
- ☐ Tetrachlorodibenzofurans
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ Tetrachloroethylene
- ☐ 2,3,4,6-Tetrachlorophenol
- ☐ Toluene
- ☐ Toxaphene
- ☐ Tribromomethane (Bromoform)
- ☐ 1,2,4-Trichlorobenzene
- ☒ 1,1,1-Trichloroethane
- ☐ 1,1,2-Trichloroethane
- ☐ Trichloroethylene
- ☐ Trichloromonofluoromethane
- ☐ 2,4,5-Trichlorophenol
- ☐ 2,4,6-Trichlorophenol
- ☐ 1,2,3-Trichloropropane
- ☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
- ☐ tris-(2,3-Dibromopropyl)phosphate
- ☐ Vinyl chloride
- ☐ Xylenes (mixed isomers)
- ☐ Antimony
- ☐ Arsenic
- ☐ Barium
- ☐ Beryllium
- ☐ Cadmium
- ☐ Chromium (total)
- ☐ Cyanides (total)
- ☐ Cyanides (amenable)
- ☐ Fluoride
- ☐ Lead
- ☐ Mercury - nonwastewater from retort
- ☐ Mercury - all others
- ☐ Nickel
- ☐ Selenium
- ☐ Silver
- ☐ Sulfide
- ☐ Thallium
- ☐ Vanadium
- ☐ Zinc

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please print or type. Do not Staple.

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA No. NYD985950012 Manifest Document No. 27555

2. Page 1 of 1

Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
Mohonk Road Industrial Park
185 Mohonk Road
High Falls, NY

A. State Manifest Document No. NY B 842755 5

4. Generator's Phone (914) 735-8300

B. Generator's ID -Same

5. Transporter 1 (Company Name) Freehold Cartage, Inc.

6. US EPA ID Number NJD054126164

C. State Transporter's ID

D. Transporter's Phone (908) 462-1001

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
North East Chemical Corporation
3301 Monroe Avenue
Cleveland, OH 44113

10. US EPA ID Number ORD980691571

G. State Facility's ID

H. Facility's Phone (216) 961-8616

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X	DM	001220	G	EPA F001,F002 STATE
b. RQ, Hazardous Waste Liquids, N.O.S., (1,1,1 Trichloroethane)(F001,F002) 9, NA3082, PG III ERG# 171	X	DM	000220	G	EPA F001,F002 STATE
c.					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials Listed Above

a. 1,1,1 TCA 130

b. 1,1,1 TCA 130

K. Handling Codes for Wastes Listed Above

a. B b. B c. d.

15. Special Handling Instructions and Additional Information
Emergency Contact: Steve Matthews 315-752-2898
11a) NEC (Sludge)
11b) NEC (Liquid)

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
		10		

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name	Signature	Mo.	Day	Year
Thomas E. Donnelly		04	10	97

18. Transporter 2 (Acknowledgement or Receipt of Materials)

Printed/Typed Name	Signature	Mo.	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Mo.	Day	Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 8–Generator–retained by generator

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.Y. Dept. of Environmental Conservation (518) 457-7362.

NYB842755 5

(116)

OMNI • NORTH EAST CHEMICAL CORPORATION
GENERATOR'S NOTIFICATION of LAND DISPOSAL RESTRICTION

One-time notification required for each waste stream unless waste or generating process changes.

Generator: Mohonk Road Industrial Park **EPA Id #:** NYD986950012

EPA Waste Codes: F001,F002 **Manifest#:** NYB8427555 **NEC#:** _____

COMPLETE EITHER SECTION A OR SECTION B OR SECTION C - Attach analytical data if available.

☒ **A. This waste is restricted from land disposal; see treatment standards in 40 CFR 268.40. (Complete sections 1, 2, 3, and 4; no Certification or generator signature is required.)**

1. **TREATABILITY GROUP: Check one:** ☒ **Nonwastewater** ☐ **Wastewater (<1% TOC, <1% Solids)**
2. **SUBCATEGORIES: Check if appropriate:**

   D001 nonwastewaters: ☐ **High TOC Subcategory (>10%)** ☐ **Low TOC Subcategory (<10%)**

   D008 nonwastewaters: Check here only for Lead Acid Battery subcategory: ☐

   D009 nonwastewaters: ☐ **≥ 260 mg/kg Mercury w/organics** ☐ **≥ 260 mg/kg Mercury w/out organics** ☐ **< 260 mg/kg Mercury**
3. **UNDERLYING HAZARDOUS CONSTITUENTS: For D001 Ignitable (TOC < 10%), D001 Oxidizers, D002 Corrosives, and D012-D043 (only) wastes, not managed in CWA or CWA-equivalent facilities, check one:**

   ☐ **Universal Treatment Standard Addendum attached, showing underlying hazardous constituents.**

   ☐ **No underlying hazardous constituents present.**
4. **F001 - F005 SPENT SOLVENT WASTES: Check all applicable constituents:**

☐ Acetone	☐ o-Cresol	☐ Ethyl acetate	☐ Methyl ethyl ketone	☒ 1,1,1-Trichloroethane
☐ Benzene	☐ m-Cresol	☐ Ethyl benzene	☐ Methyl isobutylketone	☐ 1,1,2-Trichloroethane
☐ n-Butanol	☐ p-Cresol	☐ Ethyl ether	☐ Nitrobenzene	☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ Carbon disulfide	☐ Cresols (mixed)/ Cresylic Acid	☐ Isobutanol	☐ Pyridine	☐ Trichloroethylene
☐ Carbon Tetrachloride	☐ Cyclohexanone	☐ Methanol	☐ Tetrachloroethylene	☐ Trichloromono-fluoromethane
☐ Chlorobenzene	☐ o-Dichlorobenzene	☐ Methylene chloride	☐ Toluene	☐ mixed Xylenes

F003 and/or F005 with one or more of the following spent solvents as the only F001-5 constituents:

☐ Carbon disulfide	☐ Cyclohexanone	☐ 2-Ethoxyethanol	☐ Methanol	☐ 2-Nitropropane

☐ **B. NON-RESTRICTED WASTES: This waste meets all treatment standards as generated and is NOT prohibited from land disposal. Sign certification: "I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40CFR part 269 subpart D. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."**

GENERATOR SIGNATURE: for NYSDEC **Date:** 9-25-97

☐ **C. LAB PACKS: For lab packs containing hazardous wastes and for which the generator wishes to use the alternative lab pack treatment standards in 40 CFR 268.42(c), sign certification: "I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."**

LAB PACK GENERATOR SIGNATURE: _____ **Date:** _____

North East Chemical - Universal Treatment Standard Addendum - 40 CFR 268.48

Generator: Mohonk Road Indust. Park Manifest Doc. No.: 27555 Line: 11b

Is this a (check one): ☐ Wastewater, or ☒ Nonwastewater?

Check each Underlying Hazardous Constituent present: ☐ **No Underlying Hazardous Constituents are present, or:**

- ☐ Acenaphthylene
- ☐ Acenaphthene
- ☐ Acetone
- ☐ Acetonitrile
- ☐ Acetophenone
- ☐ 2-Acetylaminofluorene
- ☐ Acrolein
- ☐ Acrylamide
- ☐ Acrylonitrile
- ☐ Aldrin
- ☐ 4-Aminobiphenyl
- ☐ Aniline
- ☐ Anthracene
- ☐ Aramite
- ☐ α-BHC
- ☐ β-BHC
- ☐ δ-BHC
- ☐ γ-BHC
- ☐ Benzene
- ☐ Benz(a)anthracene
- ☐ Benzal chloride
- ☐ Benzo(b)fluoranthene
- ☐ Benzo(k)fluoranthene
- ☐ Benzo(g,h,i)perylene
- ☐ Benzo(a)pyrene
- ☐ Bromodichloromethane
- ☐ Methyl bromide (Bromomethane)
- ☐ 4-Bromophenyl phenyl ether
- ☐ n-Butyl alcohol
- ☐ Butyl benzyl phthalate
- ☐ 2-sec-Butyl-4,6-dinitrophenol (dinoseb)
- ☐ Carbon disulfide
- ☐ Carbon tetrachloride
- ☐ Chlordane (α & γ isomers)
- ☐ p-Chloroaniline
- ☐ Chlorobenzene
- ☐ Chlorobenzilate
- ☐ 2-Chloro-1,3-butadiene
- ☐ Chlorodibromomethane
- ☐ Chloroethane
- ☐ bis(2-Chloroethoxy)methane
- ☐ bis(2-Chloroethyl)ether
- ☐ Chloroform
- ☐ bis(2-Chloroisopropyl)ether
- ☐ p-Chloro-m-cresol
- ☐ 2-Chloroethyl vinyl ether
- ☐ Chloromethane (Methyl chloride)
- ☐ 2-Chloronaphthalene
- ☐ 2-Chlorophenol
- ☐ 3-Chloropropylene
- ☐ Chrysene
- ☐ o-Cresol
- ☐ m-Cresol
- ☐ p-Cresol
- ☐ Cyclohexanone
- ☐ 1,2-Dibromo-3-chloropropane
- ☐ Ethylene dibromide (1,2-Dibromoethane)
- ☐ Dibromomethane
- ☐ 2,4-D (2,4-Dichlorophenoxyacetic acid)
- ☐ o,p'-DDD
- ☐ p,p'-DDD
- ☐ o,p'-DDE
- ☐ p,p'-DDE
- ☐ o,p'-DDT
- ☐ p,p'-DDT
- ☐ Dibenzo(a,h)anthracene
- ☐ Dibenzo(a,e)pyrene
- ☐ m-Dichlorobenzene
- ☐ o-Dichlorobenzene
- ☐ p-Dichlorobenzene
- ☐ Dichlorodifluoromethane
- ☐ 1,1-Dichloroethane
- ☐ 1,2-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ trans-1,2-Dichloroethylene
- ☐ 2,4-Dichlorophenol
- ☐ 2,6-Dichlorophenol
- ☐ 1,2-Dichloropropane
- ☐ cis-1,3-Dichloropropylene
- ☐ trans-1,3-Dichloropropylene
- ☐ Dieldrin
- ☐ Diethyl phthalate
- ☐ 2,4-Dimethyl phenol
- ☐ Dimethyl phthalate
- ☐ Di-n-butyl phthalate
- ☐ 1,4-Dinitrobenzene
- ☐ 4,6-Dinitro-o-cresol
- ☐ 2,4-Dinitrophenol
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene
- ☐ Di-n-octyl phthalate
- ☐ p-Dimethylaminoazobenzene
- ☐ Di-n-propylnitrosamine
- ☐ 1,4-Dioxane
- ☐ Diphenylamine
- ☐ Diphenylnitrosamine
- ☐ 1,2-Diphenylhydrazine
- ☐ Disulfoton
- ☐ Endosulfan I
- ☐ Endosulfan II
- ☐ Endosulfan sulfate
- ☐ Endrin
- ☐ Endrin aldehyde
- ☐ Ethyl acetate
- ☐ Ethyl cyanide (propanenitrile)
- ☐ Ethyl benzene
- ☐ Ethyl ether
- ☐ bis(2-Ethylhexyl) phthalate
- ☐ Ethyl methacrylate
- ☐ Ethylene oxide
- ☐ Ethylene oxide
- ☐ Famphur
- ☐ Fluoranthene
- ☐ Fluorene
- ☐ Heptachlor
- ☐ Heptachlor epoxide
- ☐ Hexachlorobenzene
- ☐ Hexachlorobutadiene
- ☐ Hexachlorocyclopentadiene
- ☐ Hexachlorodiebenzo-p-dioxins
- ☐ Hexachlorodibenzofurans
- ☐ Hexachloroethane
- ☐ Hexachloropropylene
- ☐ Indeno (1,2,3-c,d) pyrene
- ☐ Iodomethane
- ☐ Isobutyl alcohol
- ☐ Isodrin
- ☐ Isosafrole
- ☐ Kepone
- ☐ Methacrylonitrile
- ☐ Methanol
- ☐ Methapyrilene
- ☐ Methoxychlor
- ☐ 3-Methylcholanthrene
- ☐ 4,4'-Methylene bis(2-chloroaniline)
- ☐ Methylene chloride
- ☐ Methyl ethyl ketone
- ☐ Methyl isobutyl ketone
- ☐ Methyl methacrylate
- ☐ Methyl methansulfate
- ☐ Methyl parathion
- ☐ Naphthalene
- ☐ 2-Naphthylamine
- ☐ o-Nitroaniline
- ☐ p-Nitroaniline
- ☐ Nitrobenzene
- ☐ 5-Nitro-o-toluidine
- ☐ o-Nitrophenol
- ☐ p-Nitrophenol
- ☐ N-Nitrosodiethylamine
- ☐ N-Nitrosodimethylamine
- ☐ N-Nitroso-di-n-butylamine
- ☐ N-Nitrosomethylethylamine
- ☐ N-Nitrosomorpholine
- ☐ N-Nitrosopiperidine
- ☐ N-Nitrosopyrrolidine
- ☐ Parathion
- ☐ Total PCBs (all isomers)
- ☐ Pentachlorobenzene
- ☐ Pentachlorodibenzo-p-dioxins
- ☐ Pentachlorodibenzofurans
- ☐ Pentachloroethane
- ☐ Pentachloronitrobenzene
- ☐ Pentachlorophenol
- ☐ Phenacetin
- ☐ Phenanthrene
- ☐ Phenol
- ☐ Phorate
- ☐ Phthalic acid
- ☐ Phthalic anhydride
- ☐ Pronamide
- ☐ Pyrene
- ☐ Pyridine
- ☐ Safrole
- ☐ Silvex (2,4,5-TP)
- ☐ 2,4,5-T (Trichlorophenoxyacetic acid)
- ☐ 1,2,4,5-Tetrachlorobenzene
- ☐ Tetrachlorodibenzo-p-dioxins
- ☐ Tetrachlorodibenzofurans
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ Tetrachloroethylene
- ☐ 2,3,4,6-Tetrachlorophenol
- ☐ Toluene
- ☐ Toxaphene
- ☐ Tribromomethane (Bromoform)
- ☐ 1,2,4-Trichlorobenzene
- ☒ 1,1,1-Trichloroethane
- ☐ 1,1,2-Trichloroethane
- ☐ Trichloroethylene
- ☐ Trichloromonofluoromethane
- ☐ 2,4,5-Trichlorophenol
- ☐ 2,4,6-Trichlorophenol
- ☐ 1,2,3-Trichloropropane
- ☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
- ☐ tris-(2,3-Dibromopropyl)phosphate
- ☐ Vinyl chloride
- ☐ Xylenes (mixed isomers)
- ☐ Antimony
- ☐ Arsenic
- ☐ Barium
- ☐ Beryllium
- ☐ Cadmium
- ☐ Chromium (total)
- ☐ Cyanides (total)
- ☐ Cyanides (amenable)
- ☐ Fluoride
- ☐ Lead
- ☐ Mercury - nonwastewater from retort
- ☐ Mercury - all others
- ☐ Nickel
- ☐ Selenium
- ☐ Silver
- ☐ Sulfide
- ☐ Thallium
- ☐ Vanadium
- ☐ Zinc

FREEHOLD CARTAGE, INC.

P.O. BOX 5010
FREEHOLD, NJ 07728-5010
PHONE: (908) 462-1001
FAX: (908) 308-0924

175 BARTOW MUN. AIRPORT
BARTOW, FL 33830
PHONE: (941) 533-4599
FAX: (941) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 18512
PHONE: (717) 342-7232
FAX: (717) 342-7367

350 PIGEON POINT RD.
NEW CASTLE, DE 19720
PHONE: (302) 658-2005
FAX: (302) 658-6229

MANIFEST

FCI EPA ID NO.:
NJD054126164

H 17259

GENERATOR NAME/ADDRESS	PHONE (AREA CODE)	GENERATOR EPA ID NO.
NYS DEPT OF ENV CONS 50 WOLF R ALBANY NY	TRACTOR: 12 TRAILER: 348	NYD986956012
		APPOINTMENT TIME :

FCI REP. LOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT GENERATOR (MILITARY TIME ONLY)
TOM O	HAND			11:00 ARRIVAL TIME / : DEPARTURE TIME

COMMENTS OR DELAYS AT GENERATOR	EQUIPMENT USED

BROKER:

PO. NO#:

STATE MANIFEST NO.: NYB 8[illegible]7555

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
	1					18	DM				
	2	SEP MANIFEST									
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transported named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	GENERATOR'S SIGNATURE	DATE LOADED
John Thornburg	X [signature] I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	09/25/97 MO. DAY YR.

TSDF NAME/ADDRESS	PHONE (AREA CODE)	TSDF EPA ID NO.
	TRACTOR / TRAILER	APPOINTMENT TIME :

FCI REP. UNLOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT TSDF (MILITARY TIME ONLY)
				: ARRIVAL TIME / : DEPARTURE TIME

COMMENTS OR DELAYS AT TSDF	EQUIPMENT USED

PLEASE PRINT NAME/TITLE	TSDF SIGNATURE	DATE UNLOADED
	X	/ / MO. DAY YR.

AR H-0257 PC 944	ME ME-HWT-47 ME-WOT-47	MO H-1490	NOVA SCOTIA, CANADA NSC 000 147	QUEBEC, CANADA QC-6ML-047
CT CT-HW-307	MD HWH-167 96-OP-1765	ND WH-429	OH 333-HW	RI RI-535
DE DE-HW-203 DE-SW-203	MA MA-294	NH TNH-0047	OK 3358	TX 40705
IL SWH-1540	MN 61572	NJ S-2265 15939	ONTARIO, CANADA A 840943	WI 11602
		NY JA-113	PA PA-AH-0067	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

H 17259

Manifest No.: 111797

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: NYD986950012 New York State DEC

Company Name: (Print or Type) Mohonk Road Industrial Park

Pick-up Address: 186 (No.) Mohonk Road (Street) High Falls (City) NY (State)

Telephone Number: 914-735-8300 Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: 20 Cubic Yards: Other: (Specify)

Waste Type: Soil contaminated with petroleum Hydrocarbons

Special Handling Instructions, if any: Send Manifest to: NYSDEC; 50 Wolf Road; Albany, NY 12233-7010

PROFILE / WASTE STREAM I.D. NUMBER: 97IRT9711010LO

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/17/97 Signature: for NYSDEC Tom O Wright (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: Freehold Cartage, Inc. NJD054126164 (if applicable)

COMPANY NAME: Freehold Cartage, Inc.

ADDRESS: Route 33 East

Pick-up Date: 11/17/97 Truck No.: 524-339 Vehicle Lic. No.: T20 798

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Tom Cwrnyn

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

(Signature of authorized agent and title)

GENERATOR

FREEHOLD CARTAGE, INC.

P.O. BOX 5010
FREEHOLD, NJ 07728-5010
PHONE: (908) 462-1001
FAX: (908) 308-0924

175 BARTOW MUN. AIRPORT
BARTOW, FL 33830
PHONE: (941) 533-4599
FAX: (941) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 18512
PHONE: (717) 342-7232
FAX: (717) 342-7367

350 PIGEON POINT RD.
NEW CASTLE, DE 19720
PHONE: (302) 658-2005
FAX: (302) 658-6229

MANIFEST

FCI EPA ID NO.: NJD054126164

I 30863

GENERATOR NAME/ADDRESS	PHONE (AREA CODE)	GENERATOR EPA ID NO.
NYSDOT 50 Wolf Rd. Albany NY 12233-7915	(518) 457-3575	NY 0 9 8 6 9 5 0 2 1 6
	TRACTOR: 524 / TRAILER: 23	APPOINTMENT TIME: :

FCI REP. LOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT GENERATOR (MILITARY TIME ONLY)
Dom Cipriani			9550	ARRIVAL TIME: 07:45 / DEPARTURE TIME: 17:00

COMMENTS OR DELAYS AT GENERATOR: Non Hazard

EQUIPMENT USED:

BROKER:

PO#: WO#:

STATE MANIFEST NO.:

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
	1	Non Hazardous						30 yd			
	2										
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transported named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	GENERATOR'S SIGNATURE	DATE LOADED
	X _____ I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	11 / 17 / 99 (MO. DAY YR.)

TSDF NAME/ADDRESS	PHONE (AREA CODE)	TSDF EPA ID NO.
	TRACTOR / TRAILER	APPOINTMENT TIME: :

FCI REP. UNLOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED	TIME AT TSDF (MILITARY TIME ONLY)
				ARRIVAL TIME: : / DEPARTURE TIME: :

COMMENTS OR DELAYS AT TSDF:

EQUIPMENT USED:

PLEASE PRINT NAME/TITLE	TSDF SIGNATURE	DATE UNLOADED
	X _____	/ / (MO. DAY YR.)

AR H-0257 PC 944	ME ME-HWT-47 ME-WOT-47	MO H-1490	NOVA SCOTIA, CANADA NSC 000 147	QUEBEC, CANADA QC-6ML-047
CT CT-HW-307	MD HWH-167 96-OP-1765	ND WH-429	OH 333-HW	RI RI-535
DE DE-HW-203 DE-SW-203	MA MA-294	NH TNH-0047	OK 3358	TX 40705
IL SWH-1540	MN 61572	NJ S-2265 15939	ONTARIO, CANADA A 840943	WI 11602
		NY JA-113	PA PA-AH-0067	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

I 30863