# Focused Remedial Investigation Report Tishcon Corporation 125 State Street Westbury, New York

December 1996

Prepared for:

TISHCON CORPORATION 30 New York Avenue Westbury, New York 11590

Prepared by:

CA RICH CONSULTANTS, INC. 404 Glen Cove Avenue Sea Cliff, New York 11579



CERTIFIED GROUND-WATER AND **ENVIRONMENTAL SPECIALISTS** 

December 10, 1996

**NYSDEC** 50 Wolf Road Albany, New York 12233-7010

Attention: Jeffery Trad, P.E.

Focused Remedial Investigation Report Re:

> Tishcon Corporation 125 State Street Westbury, New York

NYSDEC Site No.: 130043C

Dear Mr. Trad:

Attached is a copy of our Remedial Investigation Report for the above referenced site.

If there are any questions regarding this Work Plan, please do not hesitate to call our office.

Sincerely,

CA RICH CONSULTANTS, INC.

Steven J. Marsich

**Environmental Engineer** 

Eric A. Weinstock

Associate

John Soderberg, Esq. CC:

Kamal Chopra

Joe Elbaz

Attachments

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Focused Remedial Investigation Report
Tishcon Corporation
125 State Street
Westbury, New York
NYSDEC Site Number: 130043C

#### 1.0 INTRODUCTION

The following Focused Remedial Investigation Report has been prepared by CA RICH Consultants, Inc. (CA RICH) on behalf of the Tishcon Corporation (Tishcon) in accordance with an Order on Consent, Index Number W1-0757-95-05.

The goal of this Remedial Investigation Report is to identify areas of potential sources of the contaminants of concern based on building construction plans (such as cesspools and storm drains), previous subsurface sample results, company records, employee interviews, engineering knowledge, site inspections, investigations and chemical analyses. For the purposes of this investigation, the contaminants of concern are chlorinated volatile organic compounds (VOCs).

#### 2.0 PHYSICAL SITE CHARACTERISTICS

#### 2.1 Site History

Tishcon leased the space at 125 State Street from 1984 to October 31, 1996. The tenant at this building prior to Tishcon was a manufacturer of aluminum furniture. The Tishcon facility at 125 State Street produced two basic supplement and vitamin products - powders and tablets. The powders were produced in a dry blending process and were shipped off-site to customers for packaging and distribution. The tablets began similarly but the blended powders were compressed into tablets. The finished tablets were boxed and shipped to other locations for distribution.

The preparation of the powders began with the weighing of ingredients according to a master formula. Once all the ingredients were weighted they were placed in a ribbon blender where they were mixed until a uniform blend was obtained. The materials were then discharged directly to plastic lined drums for shipping. All the ingredients used in the powder preparations were purchased from outside vendors. - none were synthesized, extracted, or manufactured on-site.

Tablet production began with weighing and blending of the ingredients described for the powder preparation. Again, all the ingredients were purchased - non were synthesized, extracted or manufactured on-site. The only additional step taken before the batches were prepared is the granulating of purchased powders that were unsuitable for compression into tablets. Granulating was accomplished be wetting the powders with a suitable agent (water, ethyl alcohol-based, food grade shellac, or PPVA) and then drying the material in a steam heated fluid bed dryer. The granulated powders were then weighed and mixed with the other ingredients. After all the ingredients were blended in the ribbon mill, the powder is placed in the feed hopper of the tablet press. The tablets were formed when the dry ingredients were compressed between the moveable and stationary dies of the press. Once the tablets were formed they were shipped or processed further by adding a shellac, sugar, or enteric coating. After the tables were coated some of them receive final color coating. The water based coating was applied by a spray nozzle inside an enclosed heater drying pan. The finished tablets were boxed and transferred to the New York Avenue facility.

During the years 1985 through 1993, the chemicals methylene chloride, 1,1,1-trichloroethane and methanol were also used at this facility in the tablet coating process. They were used in the process of applying coatings to the tablets and the discharged either through vents to the atmosphere as an air discharge or as fugitive emissions. As of 1993, these chemicals were no longer used at the State Street Facility.

As of October 31, 1996, the Tishcon Corporation has terminated their lease and vacated the facility at 125 State Street. The equipment and processes have been moved to other locations outside of the State of New York.

#### 2.2 Physical Layout of Building

The Tishcon Corporation facility at 125 State Street consists of a two-story building built in 1966. The property includes a driveway that is underlain by four storm drains. An illustration of these pools is included as Figure 1. Plans on file at the Town of North Hempstead Building Department indicate that the original construction included on-site cesspool(s) for wastewater disposal. The number and location of the cesspools were not recorded in the file, however, available records indicate the presence of one cesspool located on the east side of the building. According to the Nassau County Department of Public Works (NCDPW), the building was connected to municipal sewers in 1985, shortly after Tishcon occupied the building. The NCDH conducted dye test of the floor drains in the Facility during the summer of 1995 and determined that all of the floor drains tested discharge to the municipal sewer.

Roof drains were not included on any of the reviewed building plans, although a building survey dated June, 1967, states that roof leaders and gutters are connected to drywells. A drum storage area is located in the southwest corner of the property (see Figure 1) for storage of the ethyl alcohol-based shellac. The drums were stored on spill pallets in a masonry shed.

# 2.3 Previous Sampling and Removals at this Site

In the past, equipment used in the process of blending raw materials and forming vitamin tablets was rinsed out in the driveway where the storm drains are located (see Figure 1). Rinse water used during this process subsequently entered storm drain 1. During 1993, the Nassau County Department of Health (NCDH) requested that sediment contaminated with volatile organics & metals be removed from the four storm drains and one sanitary distribution box in the driveway and that the material removed be properly disposed.

During August of 1993, a partial removal of the leaching pool sediments was performed. The removal of contaminated sediments from Pool 3 was completed and the results of the end-point samples were acceptable to NCDH. Soil was also removed from Pool 1, however, the end-point sampled indicate that the compounds chloroform, ethyl benzene, methylene chloride and xylene remained at concentrations above the NCDH action levels. Soil removal from storm drains 2, 4 and distribution box 5 has not been completed as of this date. Copies of the sample results are attached to this plan.

CA RICH was retained by Tishcon in October, 1994 to prepare a storm drain remediation plan for the NCDH and to complete the clean out of these drains in response to the NCDH's letter of March 25, 1994. A copy of the NCDH letter and the NCDH-approved Plan are attached. During February, 1995, CA RICH performed soil borings in storm drains 1, 2, 4 and sanitary distribution box 5 using a Geoprobe™ soil sampling device. An initial soil core was collected at two feet below the bottom of the pool. A soil sample was retrieved and analyzed in the field using a portable organic vapor meter. This procedure was continued until no detections were recorded with the field matter. At least one sample from each boring was placed in a sample from each boring was placed in a sample bottle and analyzed by a NYS-certified laboratory for VOCs using EPA methods 8010/8020 and for the eight RCRA metals. The results of these samples were used to determine the depths and volumes of soil for removal. Waste characterization samples were collected of the storm water and the underlying sediments in the pools. This information is included in our March, 1995 report and attached to this Plan.

During June and July, 1994 a NYSDEC contractor collected soil samples at the 17-19, 27-29 and 47-49 foot depth horizons from several locations on the 125 State Street property. These borings were

designated as SGP-76, 77, 78 and 79 in the NYSDEC report (Ref. 1). The results of these sample analyses are included in this Report as Table 5-20 in Attachment 1.

#### 2.4 Geologic Setting

Tishcon is situated upon the glacial outwash soil deposits of Long Island at an elevation of approximately 130 feet above mean sea level. Based upon field measurements from the NYSDEC, the direction of shallow groundwater flow is to the south-southwest. The elevation of the water table occurring within the underlying upper glacial aquifer is approximately 50 feet below land surface.

The Upper Glacial Formation is underlain by the Magothy Formation, the principal water supply aquifer for most of Nassau County. The Magothy Formation is, in turn, underlain by the Raritan Formation. The Raritan Formation is composed of the upper Raritan Clay, a regional confining layer, followed by the more permeable Lloyd Sand. The Lloyd Sand sits directly upon crystalline bedrock.

#### 2.5 Identification of Potential Source Areas

Based on our review of file at the NCDH, previous sample results collected from this property, company records, employee interviews, engineering knowledge, site inspections and chemical analyses, the following are potential source areas and should be investigated and/or remediated, if necessary.

- storm drains 1, 2 and 4;
- the sanitary distribution box in the driveway, (location 5 on the site Plan); and,
- one former sanitary cesspool located on the east side of the building along State Street.

The former cesspool and distribution system were disconnected in 1985 when the building was connected to the municipal sewer system.

#### 3.0 SITE INVESTIGATIONS

#### 3.1 Soil

To fully define the nature and extent of soil contamination at this Facility, it is necessary to incorporate the results of sampling performed initially by the NCDH in 1993 (Attachment 2), American Consulting in 1993 (Attachment 3) and by CA RICH in 1995 (Attachment 4) along with the data collected as part of this Remedial Investigation.

**NCDH and American Consulting, 1993** - The NCDH had requested that sediments contaminated with volatile organics & metals be removed from four storm drains and that the material removed be properly disposed. During August of 1993, a partial removal of the storm drain sediments was performed by the firm American Consulting under the oversight of NCDH.

Soil was removed from storm drain 1, however, the end-point samples indicate that the compounds chloroform, ethyl benzene, methylene chloride and xylene remained at concentrations above the NCDH action levels. This is documented by laboratory sample number 51319308 performed by Volumetrics Techniques, LTD. and NCDH sample 930692.

Soil was not sampled or removed from storm drain 2 during this removal program.

The removal of contaminated sediments from storm drain 3 was completed and the results of the endpoint samples were acceptable to NCDH as indicated in Attachment 2. This is documented by laboratory sample number 51429308 performed by Volumetrics Techniques, LTD and NCDH sample number 930690.

The bottom of storm drain 4 did not reveal the presence of VOCs are documented by NCDH sample number 930789. NCDH did however, note elevated levels of mercury. No soil was removed from this storm drain during this removal action.

The bottom of distribution box 5 contained methylene chloride at 7300 ppb and 1,1,1 TCA at 1500 ppb based on NCDH sample number 930790. No soil was removed from this storm drain during this removal action.

**CA RICH, 1995** - CA RICH mobilized a Geoprobe sampling device at the State Street facility on February 16, 1995 to determine how much additional soil would have to be removed from storm drains 1, 2, 4 and the distribution box in order to satisfy the NCDH. Borings were placed in drains 1, 2, 4 and the distribution box. Soil samples were then collected at 2 foot intervals and screened with an NHU meter as described in Attachment 4. One soil sample was collected at the bottom of each of these borings to determine the depth to soil with contaminants below cleanup levels. This is summarized below.

Location	Sample number	Depth to bottom of drain or box	Depth of sample below grade
SD-1	SB-PL1	15.5 ft.	30.5 to 32.5 ft.
SD-2	SB-PL2	13.5 ft.	19.5 to 21.5 ft.
SD-4	SB-PL4	15 ft.	19 to 21 ft.
Dist. Box - 5	SB-PL5	NA	2 to 4 ft.

The results of the laboratory samples listed above were all below the cleanup levels and are included in Attachment 4. These results define the maximum lower vertical extent of contamination at this site.

**CA RICH, 1996** - On August 22, 1996, CA RICH began implementing the Field Sampling Plan as described in the Focused Remedial Investigation Work Plan for the State Street facility dated December 20, 1995; addendums dated February 29 and May 13, 1996 (Ref. 2).

On August 23 and August 26, 1996, CA RICH began collection of soil samples at the State Street facility. Sample locations are indicated on Figure 1, and results are summarized on Table 1. Samples were collected with a Geoprobe<sup>®</sup> sampling unit and screened using an HNu Systems Photoionization Device (PID). None of the samples yielded PID readings above 1 part per million (ppm). All samples were sent to Nytest Environmental Inc. (NEI) laboratories of Port Washington, New York, a New York State-certified laboratory.

**Surficial Soil Samples** - Jeffrey E. Trad of NYSDEC along with Steve Marsich of CA RICH selected two locations on the westernmost portion of the subject property where surficial soil samples were to be taken. These locations are indicated on Figure 1 as SS-1 and SS-2. The soil depth at location SS-2 was only 3 inches, before a hard surface (apparently concrete) was reached. As such, no sample was collected at this location. A sample was collected at SS-1 using a properly decontaminated hand auger.

**Subsurface Borings** - As outlined in the Remedial Investigation Work Plan, borings B-1 through B-4 were performed.

Borings B-1 through B-3 were installed between the existing storm drain network located in the driveway of the facility. At boring B-1, samples were collected at below-grade depths of 10-12 feet, 20-22 feet, and 30-32 feet. Refusal was encountered at 37 feet below grade. Three additional attempts to penetrate beyond 37 feet at locations surrounding the initial boring were unsuccessful. At borings B-2 and B-3,

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samples were collected at below grade depths of 10-12 feet, 20-22 feet, 30-32 feet, 40-42 feet, and 50-52 feet.

Boring B-4 was installed adjacent to a former sanitary cesspool that was abandoned in 1985. At boring B-4, samples were collected at depths of 15-17 feet, 20-22 feet, 25-27 feet, and 35-37 feet.

#### 3.2 Groundwater Investigation

**Geoprobe Groundwater Samples** - On August 23 and August 26, 1996, two groundwater samples were collected at the State Street facility using the Geoprobe sampling device. A hollow probe was driven down below the water table to approximately 65 feet below grade. Plastic tubing was then inserted into the probe. Using the tube and check valve assembly, ground water was "pumped" from the 65-foot level and samples collected directly from the tubing. The samples were designated GW1 and GW2, and sample locations are indicated on Figure 1.

**Monitoring Well Samples** - Groundwater samples were collected on August 22, 1996 at two downgradient State Street wells, UN-11 and N11842, as directed by NYSDEC. Three volumes of water were evacuated from each well; a Keck<sup>®</sup> 1-3/4 inch diameter pump was used on UN-11, while well N11842 was hand bailed. Samples were collected using dedicated polyethylene bailers. A NYSDEC representative was provided with a "split" sample from each well. Samples were sent to NEI Laboratories. Results of analysis have been received and are summarized on Table 2.

#### 4.0 NATURE AND EXTENT OF CONTAMINATION

#### 4.1 Soil

Based on the earlier sampling performed by NCDH, American Consulting, and CA RICH, the following statements can be made regarding the nature and extent of soil contamination at the 125 State Street facility.

**Storm Drain 1** - Soil at the bottom of this drain is contaminated with the solvents chloroform, ethyl benzene, methylene chloride, tetrachloroethane and xylene as demonstrated by the American Consulting end-point sample number 51409308 and NCDH sample 930692 collected on August 9, 1996. The bottom of the drain is approximately 15 feet below grade. Based on visual observations during our soil boring program of February, 1995, the soil is discolored down to a depth of 30 feet below grade. The sample from 30 to 32 feet below grade in this drain revealed no detections of solvents. Therefore there is a maximum of 15 feet of contaminated soil below this drain.

**Storm Drain 2** - The bottom of the drain is approximately 13 feet below grade. Based on visual observations during our soil boring program of February, 1995, the soil appeared to be clean down to 19 feet. The sample from 19 to 21 feet below grade in this drain revealed no detections of solvents. Therefore there is a maximum of 6 feet of contaminated soil below this drain.

**Storm Drain 3** - As indicated by both the American Consulting sample number 51429308, NCDH sample number 930690 and the NCDH's letter of March 25, 1994 there were no contaminants detected in this drain above cleanup guidelines.

**Storm Drain 4** - Soil at the bottom of this storm drain contained elevated levels of the metal mercury when tested by the NCDH in 1993. The bottom of this drain is 15 feet below grade. Based on visual observations during our soil boring program of February, 1995, the soil appeared to be clean down to 19 feet. The sample from 19 to 21 feet below grade in this drain revealed no detections of solvents. Therefore there is a maximum of 4 feet of contaminated soil below this drain.

**Distribution Box 5** - The bottom of distribution box 5 contained methylene chloride at 7300 ppb and 1,1,1 TCA at 1500 ppb based on NCDH sample number 930790. The bottom of this box is within a few inches of grade. A soil sample was collected from 2 to 4 feet below grade in the structure during our February 1996 boring program. This sample revealed no detections of solvents. Therefore there is a maximum of 2 feet of contaminated soil below this box.

**Former Sanitary Cesspool** - Boring 4 was installed adjacent to the former cesspool for this building. The samples collected from 15 to 17, 20 to 22, 25 to 27 and 35 to 37 feet below grade revealed no detections of solvents. As such, the former cesspool is no longer a suspected source of contamination.

**Borings 1 through 3** - Borings 1 through 3 were installed in between drains 1, 2, 3, and 4 to determine the lateral extent, if any, of contamination. These samples revealed no detections of solvents. As such, the area between the drains is no longer a suspected source of contamination.

**Surficial Soil in the rear of the building** - One sample designated as SS-1 was collected in the rear of the building. This sample revealed no detections of solvents above the NYSDEC cleanup objectives. As such, the area in the rear of the building is no longer a suspected source of contamination.

## 4.2 Groundwater

Groundwater was sampled from one upgradient and three downgradient points at this site. The results are included on Table 2.

**Upgradient** - Geoprobe sample GW-2 was collected upgradient of the facility to determine the quality of the ambient groundwater entering the property. This sample revealed no detections of solvents with the exception of methylene chloride at 7 ug/l. Methylene chloride is a common laboratory cleaning agent and was also detected in the laboratory method blank.

**Downgradient** - Samples GW-1, N11842 and UN11 were all collected from points downgradient of the 125 State Street facility. These samples contained two classes of chlorinated solvents.

Tetrachloroethene (also known as perchloroethene or PCE) was detected at points GW-1 and UN11 at 66 and 64 ug/l, respectively. Trichloroethene (TCE), dichloroethene (DEC) and vinyl chloride (VC) -- degradation products of PCE -- were also detected at these points at varying levels.

1,1,1-Trichloroethane (TCA) was also detected at points GW-1, N11842 and UN11 at levels of 60 to 61 ug/l. The degradation products 1,1-dichloroethane (DCA) and chloroethane (CE) -- degradation products of TCA -- were also detected at these points at varying levels.

## 5.0 CONCLUSIONS

The sources of suspected contamination and the maximum depths required for excavation of these suspected source areas were determined in our report to NCDH included as Attachment 4. The additional soil sampling performed for this investigation has not identified any additional suspect sources of soil contamination or changed our depth estimates at the previously identified source areas.

Groundwater contamination in the form of PCE and TCA and their degradation products were identified in the three downgradient sampling points. In each case however, the maximum concentration did not exceed 200 ug/l and in most cases were significantly below 100 ug/l.

# 6.0 RECOMMENDATIONS

1. Based on the previously developed information and the additional data collected form the August 1996 investigation, we believe that storm drains 1, 2, 4 and distribution box 5 should be cleaned out as

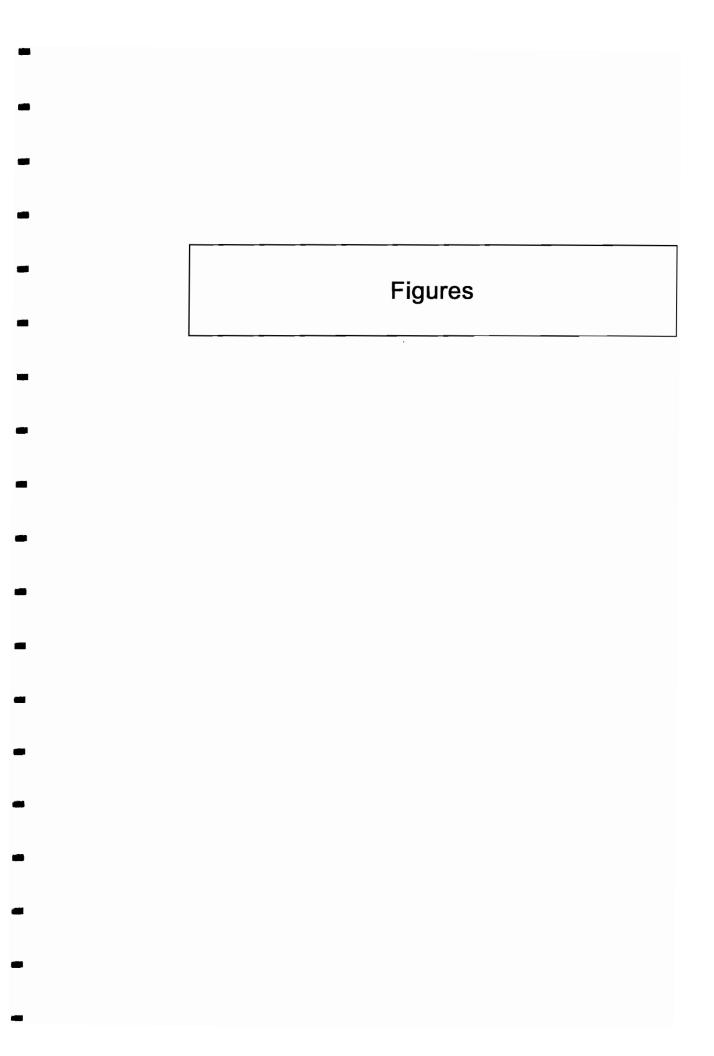
described in the NCDH approved Work Plan.

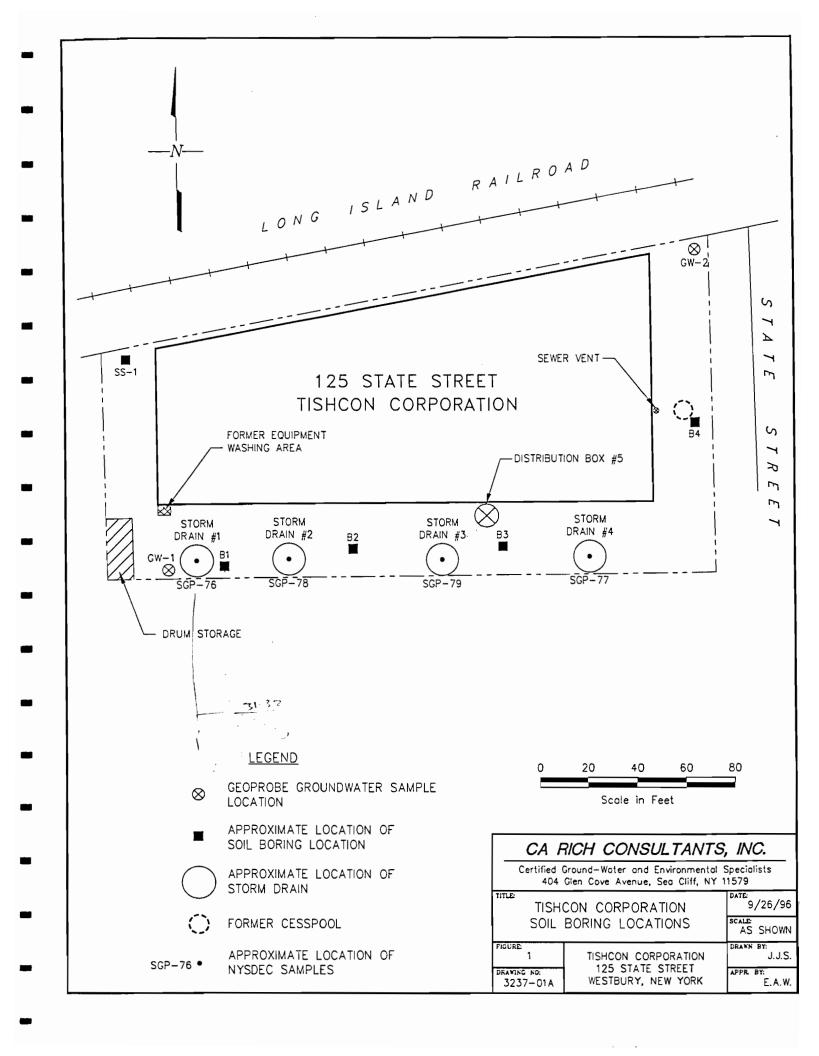
2. The levels of dissolved solvents detected in the groundwater were all less than 200 ug/l and in most cases, less than 100 ug/l. Therefore, we recommend source remove at the four locations mentioned above and two years of semiannual groundwater monitoring at points N11842 and UN11 to determine the effectiveness of this effort in reducing the levels of PCE, TCA and their degradation products in these wells.

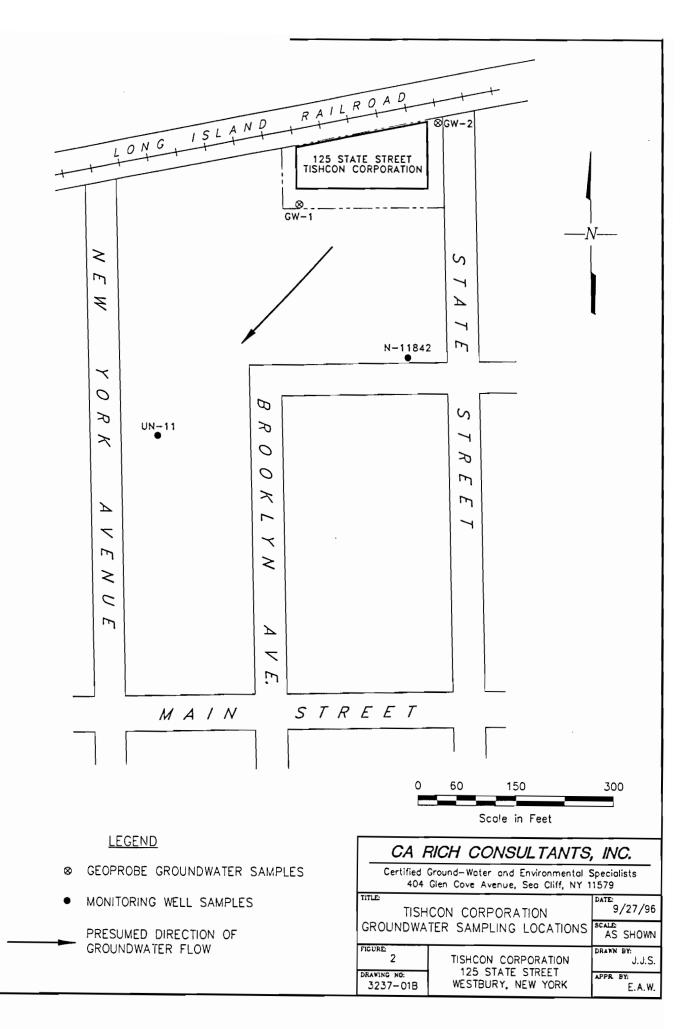
# 7.0 REFERENCES

- 1. NYSDEC, (1995), Site Investigation Report, New Cassel Industrial Area, North Hempstead, Nassau County.
- 2. CA RICH, (1996), Focused Remedial Investigation Work Plan, 125 State Street, Westbury, NY

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Tables	

			Summar After Tishcon,	Summary of Soil Analysis After Data Validation shcon, State Street Facilii	ry of Soil Analysis Data Validation State Street Facility					
Sample ID Depth (bls) Date Sampled	le ID SS-1 (bls)	B1 (10-12) 8/23/96	<b>B-1</b> (20-22) 8/23/96	<b>B-1</b> (30-32) 8/23/96	<b>B-2</b> (10-12) 8/26/96	<b>B-2</b> (20-22) 8/26/96	<b>B-2</b> (30-32) 8/26/96	<b>B-2</b> (40-42) 8/26/96	<b>B-2</b> (50-52) 8/26/96	NYSDEC TAGM * Cleanup Objectives
Volatile Organics (NYSDOH Method 91-1)	1-1)									
		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Chloromethane	11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	2
Bromomethane	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	N
Vinyl chloride	⊃ ; - ;	0 0 1 1	10 10 10	10 U	10 t	10 10 10	0 0 0 1	12 U	3 :	200
Ornoroetrale Methylene chloride	0 1	2 5	2 -	0 0 1	0 = 7	0 1	0 -	0 21	3 =	1,900
Acetone	9 9	10 UJ	10 UJ	10 07	10 (1)	10 U.J	10 UJ	12 UJ	7 7 7	000
Carbon Disulfide	11 0	10 U	10 U	10 U	10 U	10 U	10 O	12 U	11	2,700
1,1-Dichloroethene	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 UJ	400
1,1-Dichloroethane	- 11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	200
1,2- Dichloroethene (total)	11 C	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	300
Chloroform	1 1 1	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	300
1,2-Dichloroethane	) ; ;	0 5	10 C	0 19 19	0 1 2 3	O :	0 C	12 0	3 :	100
z-butarione 1.1.1-Trichloroethane	_ r.	2 5	2 5	2 5	2 5	2 5	0 5	5 5 0 =	3 =	300
Carbon Tetrachloride	110	10 0	10 0	10 U	5 0 0	5 6	10 0	12 O	3 3	009
Bromodichloromethane	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	2
1,2-Dichloropropane	11 O	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	2
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 O	10 O	10 U	12 U	11	2
Trichloroethene	1 ;	10 0	10 0	10 U	10 0	10 0	10 0	12 U	11	200
Dibromochloromethane	-	0 5	10 0	10 0	10 0	10 0	10 0	15 C	3 = ;	2 2
Penzene Benzene	= =	2 5	2 5	2 5	2 5	2 5	2 5	2 5		2 4
trans-1.3-Dichloropropene	1 2	100	2 0	2 5	2 5	2 5	2 5	2 2 2		2
Bromoform		10 U	2 0	10 U	5 0 0	0 0	100	12 U	3 3	2 2
4-Methyl-2-Pentanone	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	1.000
2-Hexanone	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 5	2
Tetrachloroethene	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	1,400
1,1,2,2-Tetrachloroethane	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 U	009
Toluene	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 W	1,500
Chlorobenzene	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	1,700
Ethylbenzene	11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	5,500
Styrene	11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 W	2
Xylene (total)	11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	1,200
Notes: uq/Kg: micrograms per Kilogram							· NYSDEC	Technical a	Adminis	• NYSDEC Technical and Administrative Guidence
U: compound not detected at or above detection limit. J: estimated concentration. NV: no value is reported.	etection limit.	Vumber rep	resents co	ap punodu	Number represents compound detection limit.	يد	Memorand Objectives	Memorandum: Determination of Cleanup Objectives and Cleanup Levels; 1/24/96	ination of ( up Levels;	7/24/96

\* NYSDEC Technical and Administrative Guidence Memorandum: Determination of Cleanup Objectives and Cleanup Levels; 1/24/96

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Summary of Soil Analysis After Data Validation Tishcon, State Street Facility

Ol elomos	D 8-3	e.	ď.	6	R3Dir		4.	4.4	4.4	а. 7-7	Ü	* MOAT CHONN
Depth (bls)	Ξ	(20-22)	(30-32)	(40-42)	(40-42)	(50-52)	(15-17)	(20-22)	(25-27)	(35-37)	3	Cleanup Objectives
Date Sampled	ed 8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	8/26/96	.
Volatile Organics (NYSDOH Method 91-1)												
Units	ts ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Ka	ug/Ka	ug/Kg	ua/Ka	ua/Ka	ua/Ka	ug/Kg
Chloromethane	10 U	10 U	10 U	110	12 U	10	10 U	11 0	10 0	1 0	10 U	N
Bromomethane	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
Vinyl chloride	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11	10 U	200
Chloroethane	10 U	10 U	10 U	11 N	12 U	10	10 U	11 0	10 U	1	10 0	1,900
Methylene chloride	4 W	8 ∩	4 U	9 N	21 U	5 U	4 U	4 UJ	4 UU	6 UJ	2 J	100
Acetone	10 UJ	10 UJ	10 UJ	4 ک	۲ ک	7 J	5 J	11 W	6 Э	15 J	10 U	200
Carbon Disulfide	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	2,700
1,1-Dichloroethene	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	400
1,1-Dichloroethane	10 U		10 U	1	12 U	11 0	10 U	11 0	10 0	1	10 U	200
1,2- Dichloroethene (total)	10 U	10 U	10 U	<b>1</b>	12 U	11	10 U	11 0	10 U	11 0	10 U	300
Chloroform	10 U	10 U	10 U	11 O	12 U	11 0	10 U	11 0	10 U	11 N	10 U	300
1,2-Dichloroethane	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	100
2-Butanone	10 U	10 U	10 U	11 O	12 U	11 0	10 U	11 0	10 U	11 0	10 U	300
1,1,1-Trichloroethane	10 U	10 U	10 U	1	12 U	11	10 U	1	10 U	1	10 U	800
Carbon Tetrachloride	10 U	10 U	10 U	<b>1</b>	12 U	11 0	10 U	11 0	10 U	11 0	10 U	009
Bromodichloromethane	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
1,2-Dichloropropane	10 U	10 U	10 U	11 0	12 U		10 U	11 0	10 U	11 0	10 U	N
cis-1,3-Dichloropropene	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
Trichloroethene	10 U	10 U	10 U	110	12 U	1	10 U	1	10 U	10	10 U	700
Dibromochloromethane	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
1,1,2-Trichloroethane	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
Benzene	10 0	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	09
trans-1,3-Dichloropropene	10 U	10 U	10 U	<b>1</b>	12 U	11 0	10 U	<del>-</del>	10 U	11 0	10 U	Ž
Bromoform	10 U	10 U	10 U	110	12 U	11 0	10 U	11 0	10 0	11 0	10 U	N
4-Methyl-2-Pentanone	10 U	10 U	10 U		12 U	11 0	10 U	<b>11</b> U	10 U	11 0	10 U	1,000
2-Hexanone	10 U	10 U	10 U	110	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
Tetrachloroethene	10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	1,400
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	<b>∓</b>	12 U	11 0	10 O	<del>-</del>	10 U	<b>=</b>	10 U	009
Toluene	10 U	10 U	10 U	<b>-</b>	12 U	11 0	10 U	11 0	10 U	11 0	10 U	1,500
Chlorobenzene	10 U	10 U	10 U	11 N	12 U	11 O	10 U	11 0	10 U	<b>11</b> U	10 U	1,700
Ethylbenzene	10 U	10 U	10 U		12 U	11 0	10 U	11 0	10 U	11 0	10 U	5,500
Styrene	10 0	10 U	10 U	11 0	12 U	11 0	10 U	11 O	10 U	110	10 U	2
Xylene (total)	10 U	10 U	10 U	11 O	12 U	11 0	10 U	11 0	10 U	10	10 U	1,200
Martin												

Notes:

Prepared by CA RICH CONSULTANTS, INC.

ug/Kg: micrograms per Kilogram U: compound not detected at or above detection limit. Number represents compound detection limit. J: estimated concentration. NV: no value is reported.

						TABLE 2					
					Summary Afte Tishcon	mmary of Groundwater Analy After Data Validation Tishcon, State Street Facility	Summary of Groundwater Analysis After Data Validation Tishcon, State Street Facility				
	Sample ID Date Sampled	<b>GW1</b> 8/26/96	<b>GW2</b> 8/26/96	<b>GW2Dup</b> 8/26/96	<b>TB</b> 8/26/96	<b>FB</b> 8/26/96	N11842 8/22/96	UN11 8/22/96	<b>TB821</b> 8/22/96	<b>FB822</b> 8/22/96	NYSDEC TOGS*
Volatile Organics (EPA Method 8240)	ethod 8240)										
Chloromethane	Units	10 L1	10 L	ug/L 10 1	10/L	10 L	10 L	1/6/L	10 LI	10g/L	ug/L
Bromomethane		5 0	5 0	5 0 0	10 U	5 6	5 6	5 5	5 <del>5</del>	5 5 5 0	رم چ
Vinyl chloride	•	3 7	10 0	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8
Chloroethane		12	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5
Metnylene chioride		0 =	0 0 0	10 t	ი ; -	ω ; 	10 0	₽ 1 1	ე : ი ;	η θ <b>,</b>	ω [
Carbon Disulfide		0 0	0 0	0 0	0 0	0 0	0 0	0 1	5 5	2 5	0 > 0 Z
1,1-Dichloroethene		10 U	10 0	10 U	10 U	5 0 0	10 U	5 0 0	5 0 0	10 01	co.
1,1-Dichloroethane		200	10 U	10 U	10 U	10 U	10 U	100	10 U	10 U	S
1,2- Dichloroethene (total)		9.5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2
Chloroform 1.2 Dichlorocthon	_	O =	0 :	O :	0 ; 0 :	10 t	0 ; O :	10 U	<b>□</b> :	0 ; O :	۲ ،
1,z-Dictionediane		0 5	0 5	0 =	0 =	0 5	0 5	0 5	0 =	0 5	ΩŽ
1,1,1-Trichloroethane	_	61	5 5	5 5 0	5 6	5 5	61	0.09	5 5	5 5	<u>}</u> տ
Carbon Tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U	10 01	10 0	10 U	S
Bromodichloromethane	_	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20
1,2-Dichloropropane		10 10 1	0 0 0	10 U	O =	O :	0 0 0	10 C	0 0 1 1	0 0 0	ហេ
Cis-1,3-Dichlopropene		0.01	0 5	) 	0 0 0	0 5	10 U	10 C	0 5	0 5	ഹ
Dibromochloromethane		36 10 U	2 0	5 0	2 0	2 2	4 ot	ر ا ا	5 5	2 2	20
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	0 0 0	10 U	5 0	5 0 0	10 U	ر د
Benzene	_	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.7
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 O	10 U	2
Bromoform	_	⊃ :	0 0 0 1	10 U	J 0 1	10 U	10 U	10 U	10 U	10 U	50
4-Methyl-2-Pentanone		10 0	10 0	10 01	0 0 5	0 Q	0 5	O =	O =	0 5	> °
Tetrachloroethene		99	10 01	200	10 11	100	- c	64	5 5	5 5	
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 C	2 0	0 ot	0 0	5 5 0	5 0 0	o vo
Toluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	S
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2
Ethylbenzene		10 U	10 U	10 U		10 U	10 U	10 U	10 U	10 U	Ω
Styrene		10 0	10 U	10 O	10 O	10 U	0 0 :	10 U	10 0	10 U	ഗ
Aylerie (total)		0 01	0 01	0.01	0.01	0 01	0 01	10 OL	0 01	0.01	ഹ
Notes:											
ug/L: micrograms per liter		:			:		* NYSDEC Te	chnical and Op	perational Guir	* NYSDEC Technical and Operational Guidance Series (1.1.1)	.1.1)
<ul> <li>U.: compound not detected at or above detection limit. Number repres</li> <li>J: number represents estimated concentration (below reportable limits)</li> </ul>	at or above detec nated concentratio	tion limit. N n (below rep	Vumber repres	Number represents compound detection limit. eportable limits)	d detection lir.	nit.	Ambient	Nater Quality	Standards and	Ambient Water Quality Standards and Guidance Values; 10-22-93	ues; 10-22-93
NV: no value is reported								: concentratior	n exceeds NYS	: concentration exceeds NYSDEC TOGS levels	sja
Prepared by CA RICH CONSULTANTS, INC.	CONSULTANTS, IN	Ö						Users/Chris/G	Tables/T	ishcon/State 8	Users/Chris/Gone/Tables/Tishcon/State St.\8240GWA.D.V.
										101100110	

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Location: 125 State Street, Westbury, New York.

Boring Number: B-1

Date Drilled: 8-23-96, 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: ~60'

Total Depth: 37 feet

Method Used: Hydraulic Push

Inspector: Steven J. Marsich

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0	_					
5		-		-		
10 —				<del>-</del>		Sample R 1 (10 121)
15 —	10-12	2/1.5	0.0	SAND, medium-coarse, tan.		Sample B-1 (10-12') collected on 8/23/96.
20 —				_		
	20-22	2/1.5	0.0	SAND, medium-coarse, tan.		Sample B-1 (20-22') collected on 8/23/96.
25 —	_			]		
30 —	30-32	2/1.5	0.0	SAND, medium-coarse, tan.		Sample B-1 (30-32') collected on 8/26/96.
35 —	-			-		
40 —						Refusal at 37'
45						
50				1		
55	-			1		
60				-		
65	_			_		
70				_		
75				]		
80 —				<del> </del>		

Location: 125 State Street. Westbury, New York.

Boring Number: B-2

Date Drilled: 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: ~60'

Total Depth: 52 feet

Method Used: Hydraulic Push

Inspector: Steven J. Marsich

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0						
5—				-		
10 —				_		
	10-12	2/1.5	0.0	SAND, coarse, tan.		Sample B-2 (10-12') collected.
15 —	_		_	_		
20 ——			_	<del>-</del>		Sample B-2 (20-22')
25 —	20-22	2/1.5	0.0	SAND, medium-coarse, tan.		collected.
30 —	30-32	2/1.5	0.0	SAND, medium-coarse, tan.		Sample B-2 (30-32') collected.
35 —		-		_		conected.
40 ——						
40	40-41 41-42	2/1.75	0.2	CLAY, sandy, grey SAND, coarse, tan		Sample B-2 (40-42') collected.
45 —				_		
50 —				_		Sample B-2 (50-52')
55 —	50-52	2/1.5	0.0	SAND. medium-fine, tan		collected.
60				_		
65 —				_		
70 —						
70						
75 —				-		
80				<del>-</del>		

Location: 125 State Street, Westbury, New York,

Boring Number: B-3

Date Drilled: 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: ~60'

Total Depth: 52 feet

Method Used: Hydraulic Push

Inspector: <u>Steven J. Marsich</u> Organic Vapor Instruments: <u>HNU PID</u>

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0						
5				-		
10 —						
15	10-12	2/1.5	0.2	SAND, coarse, tan.		Sample B-3 (10-12') collected.
20	20-22	2/1.5	0.0	SAND, medium-coarse, tan.		Sample B-3 (20-22')
25 —				_		collected.
30				_	1	
	30-32	2/1.5	0.3	SAND, medium-coarse, tan.		Sample B-3 (30-32') collected.
35						
40	40-42	2/1.5	0.0	SAND, medium-fine, tan		Sample B-3 (40-42')
45				_		collected.
50				_		
	50-52	2/1.5	0.0	SAND. medium-fine, tan		Sample B-3 (50-52') collected.
55	_	-		_		
60				_		
65 —				_		
70						
75 —				_		
80				_		

Location: 125 State Street, Westbury, New York.

Boring Number: B-3

Date Drilled: 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: <u>~60'</u>

Total Depth: 47 feet

Method Used: Hydraulic Push

Inspector: Steven J. Marsich

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0	_					
5-		<u>-</u>			1	
10 —				-	-	
15						
	15-17	2/1.5	0.0	SAND, coarse, tan.		Sample B-4 (15-17') collected.
20				]		
25 —	25-27	2/1.5	0.0	SAND, coarse, tan.	-	Sample B-4 (25-27')
30 —		2/1.3	0.0		4	collected.
35 —		_			]	
	35-37	2/1.5	0.0	SAND, coarse, tan.		Sample B-4 (35-37') collected.
40				_	1	
45	45-47	2/1.5	0.0	SAND, coarse, tan.	-	Sample B-4 (45-47')
50 —		271.3	0.0	SAND, coarse, tan.	-	collected.
55						
60 —				]		
65 —				-	-	
70 —				-		
75						
80 ——						

Location: 125 State Street, Westbury, New York,

Boring Number: <u>GW-1</u>

Date Drilled: 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: ~60'

Total Depth: 61 feet

Method Used: Hydraulic Push

Inspector: Steven J. Marsich

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0			_	-		
5				_		
10 —						
15 —				_		
20 —						
25 —						
30 —				_		
35—						
35						
40 —						,
45	_			_		
50 —				_		
55				_		
60 —	60-61			Groundwater		Groundwater sample GW1 collected
65				-		GW   collected
70 ——						
75 —				_		
80 —						

Location: 125 State Street, Westbury, New York,

Boring Number: <u>GW-2</u>

Date Drilled: 8-26-96

Drilling Company: Zebra-Geoprobe™

Water Table Depth: ~60'

Total Depth: 61 feet

Method Used: Hydraulic Push

Inspector: Steven J. Marsich

Depth (feet)	Sample Interval Depth (feet)	Advance/ Recovery (feet)	Organic Vapor (PPM)	Sample Description	Strata	Comments
0			_			
5—				_	1	
10 —			_			
15 —				_		
20			_	_		
25 —				_		
30				<del>-</del>		
35 —				_		
1						
40 —	-					
45 —				_		
50						
55 —			_	_		
60 —	60-61			 Groundwater		Groundwater sample
65				Groundwater		Groundwater sample GW-2 collected
1						
70						
75 —				_		
80						

TABLE 5-20 (Page 1 of 2)

# GEOPROBE CHLORINATED HYDROCARBONS DATA SUMMARY (JUNE & JULY 1994) Soil Sample Results New Cassel Industrial Area

PCE	₽!	2 5	2 2	2	2	2	Q i	4. i	2 5	5 5	2 0	2	0.3	2	9	Q.	2	2	2 2	2 2	2 2	5 5	19.0	32.0	2	2	2	2 5	2 5	אמר
ЭЭT	Q :	2 9	2 5	2	9	2	2	오 :	2 9	2 5	2 5	2 2	2	Q	Q.	<u>Q</u>	2	2	2 9	2 5	2 2	2 4	2.	<b>4.</b> (	2	2	2	운 :	2 :	S S
ADG-2,1	2	2 9	<u> </u>	2	2	2	2	2 :	2 2	2 5	2	2 2	용	Q	<u>Q</u>	2	2	Q	2 9	2 5	2 2	2 5	2	2	2	2	2	2 9	2	S
a bhioldas 1991 nod 180	Q.	2 5	2 S	2	임	<u>Q</u>	9	오 :	2 5	<u> </u>	2 5	2 2	2	2	2	Q	2	2	2 5	5 5	2 2	2 9	2	2	2	2	Q.	오 :	2	2
ADT-1,1,1	2	2 9	2 5	2	ջ	2	2	2	2 9	2 2	2 2	Š	2	2	2	2	Q N	2	2 5	2 5	5 5	2 (	3.7	3.4	9.7	2	7:	2 9	Q (	2.6
124-DCE	2	2 9	2 2	2	2	2	2	2	2 9	2 2	2 2	<u> </u>	2	2	2	오	2	2	2 9	5 5	<u> </u>	2 :	2	<u>Q</u>	2	2	2	오 :	2	2
Yod-I'I	S	2	2 2	2	2	2	2	2	2	2 2	2 2	2 2	2	Ξ	8	R	2	2	2 9	2 :	<u> </u>	S (	3.3	5.6	320.0	2	2	2	Q :	2
1,24-DCE	S	2 :	2 5	2 2	2	2	2	2	오 :	2 5	2 2	2 5	운	2	8	Q	Q	2	2	2 :	5 5	2	2	2	2	2	2	오 :	2	2
Methylene chloride	8	<b>2</b> 9	2 5	2	2	2	<b>Q</b>	2	2	2 9	2 2	2 5	2	2	2	ջ	2	2	모 :	2 :	<u> </u>	2	19.0	12.0	1500 E	Q	Q Q	2	2	2
30G-1,1	N O	오 :	2 2	2 2	욷	운	욷	2	2	2 9	<u> </u>	2 5	2	운	운	오	ᄝ	2	오 :	2	2 9	2	2	오	2	문	2	2	2	ջ
Vinyl chlodde	QN	2	2 2	2 2	2	2	2	2	2	2	5 5	2 5	2	2	2	9	오	2	오 :	2	2 9	2	2	2	운	2	2	2	2	2
Sample Point Actual Sample I.D. Depth	10-12	25-27	14-16 25-27	12-24	25-27	12-14	12-14	8-10	12-14	25-27	17-07	12.14	12-14	10-21	20.23	40-42	55-57	. 16-18	24-26	77-77	4042	25-5/	15-17	20-22	17-19	27-29	17-19	27-29	47-49	17-19
Sample Point I.D.	SGP-43	SGP-43	SGP-44	SGP-45	SGP-45	SGP-46	SGP-47	SGP-48	SGP-49	SGP-51	267-32	0.750 77.900 77.900	SGP-59	SGP-60	SGP-66	SGP-66	SGP-66	SGP-67	SGP-67	SGP-68	SGP-68	SGP-68	SGP-71	SGP-71	SGP-76	SGP-76	SGP-77	SGP-77	SGP-78	SGP-79

All data in µg/kg
ND - Not detected.
BOL - Below the quantitation limit.
Dat he: NC-ba1ALIS Sele II 1195 9.57.29 AM

5-1T1

TABLE 5-22 (Page 1 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)
Soil Sample Results
New Cassel Industrial Area

I																													
9-Dichlorobenzene	Q								•		•	Q				•							•			•		•	
9-Dichlorobenzene	Q			•			•	•		•	•	Q Q			•		•	•	•	•					•		•		
ənəznədoroldəiG-т	2	•	•	,	•	•	•	•	•	•	•	Q.	•	•	•	•	•	•	•	•		•	•		•	•	•		
o-Xylene	8	2	2	Q	Q	2	2	Q	4.6	2	2	1.2	11.0	Q	Q	1.3	2	2	2	2	2	2	2	2	5.9	17.0	550 E	220.0	
ənəlұХ-q <sub>г</sub> -т	9	Q	2	2	Q	2	2	Q	0.9	2	Q	2.6	3.3	Q	2	2.2	2	2	2	2	2	2	2	2	11.0	31.0	4400 E	570 E	
Ethylbenzene	9	2	2	Q	Q	Q	Q	Q	2	Q	2	QN.	<u>N</u>	NO.	Q	Q	2	Q	2	Q	2	<u>Q</u>	Q	2	Q	2.4	470.0	44.0	
Chlorobenzene	N ON	2	2	2	2	Q	2	Q	2	2	Q	2	9	2	9	2	: QN	2	2	Q	9	<b>Q</b>	2	2	2	ᄝ	2	2	
ənəulo∓	QN	Q	2	2	2	Q	2	Q	2.4	2	Q	2	Q	Q	2	Q	Q	Q	Q	Q	2	2	Q	2	Q.	3.1	180.0	Bal	
Benzene	QN.	Q	2	S	2	QN	Q.	Q	Q	Q	2	Q N	Q	Q	Q	Q	QN	Q	Q	2	Q.	Q	Q	Q	Q	Q	Q	QN	
Actual Sample Depth	10-12	25-27	14-16	25-27	12-14	25-27	12-14	12-14	8-10	12-14	25-27	25-27	17-19	12-14	12-14	10-21	20-22	40-42	25-57	16-18	24-26	20-22	40-42	25-57	15-17	20-22	17-19	27-29	
Sample Point I.D.	SGP-43	SGP-43	SGP-44	SGP-44	SGP-45	SGP-45	SGP-46	SGP-47	SGP-48	SGP-49	SGP-51	SGP-52	SGP-54	SGP-55	SGP-59	SGP-60	SGP-66	SGP-66	SGP-66	SGP-67	SGP-67	SGP-68	SGP-68	SGP-68	SGP-71	SGP-71	SGP-76	SGP-76	4

All data in µg/kg ND - Not defected, BCL - Below the quantitation limit, Gre No: NcDATAXLS Solv 17193 6-37-29 AM

TABLE 5-22 (Page 2 of 3)

GEOPROBE BTEX DATA SUMMARY (JUNE & JULY 1994)
Soil Sample Results
New Cassel Industrial Area

1																					٠								
ensznsdoroldoi <b>0</b> -o	•	•	•	•	•	•	•	•	•,	•	•	•			•	2	2	2	2	오	2	2	2	2	Q N	2	2	2	
9-Dichlorobenzene			•							•			•		•	2	2	Q :	O Z	2	2	2	Q	2	Bal	<u>Q</u>	Q	₽ `	
ə nəznədo oldəi G-m	•	•	•	•	•	•	,	•	•	•	•		•	•		Q.	2	2	2	2	2	2	2	<u>Q</u>	<u>Q</u>	Q	2	2	
o-Xylene	4.7	1.3	Bal	2.9	1.6	1.	2	<u>Q</u>	2	<u>Q</u>	2	1.7	2	Q Q	2	Q Q	Bal	2	2	Q Q	ВаГ	Bal	Q	Q	2	<b>Q</b>	2	2	
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All data in µg/kg
ND - Not defected.
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Attachment 2



# CERTIFIED MAIL

#### COUNTY OF NASSAU

DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD

March 25, 1994

Mr. Michael J. Padula C/O Tishcon Corp. 30 New York Avenue Westbury, New York 11590

Re: Tishcon Corp.

125 State Street

Westbury New York 11590

Facility Id. #3832

Dear Mr. Padula:

On August 9, 1993 and September 2, 1993 a representative of this Department collected samples and accepted split samples of soil and sludge at the above referenced property. The results of laboratory analysis of these samples indicate significant contamination to the soil and possibly to the groundwater. Copies of these test results along with an area diagram are enclosed for your examination.

The concentrations of the indicated contaminants exceed allowable limits and thereby represent violations of Article XI of the Nassau County Public Health Ordinance (NCPHO) and Articles 17 and 27 of the Environmental Conservation Law (ECL) of the State of New York. These violations are as follows:

- ECL Article 17 Section 17-0505 Discharging industrial wastes without a permit
- ECL Article 27 Section 27-0913 and New York Code of Rules and Regulation (NYCRR) Section 373-1.2 operating a hazardous waste facility without a permit
- NCPHO-Article XI Section 5a Discharging hazardous materials or wastes without a permit

NCPHO-Article XI Section 6a. operating a toxic and hazardous materials storage facility without a permit.

In order to address these problems Tishcon Corp. is required to perform

Mr. Michael J. Padula March 25, 1994 Page Two

the following:

- 1). By April 25th Tishcon Corp. must have submitted a work plan to this Department by a Professional Engineer licensed in the State of New York with experience in investigation and remediation of soil and groundwater contamination. This plan is to include a schedule of proposed work for the identification and removal of contaminated liquids, sludges and soils at 125 State Street, Westbury, New York. The plan must address all contamination on site including those locations on the action list which follows:
  - A) ... [Pool 1: Removal of contaminated sludges and soils temploying field screening and subsequent laboratory analysis of end point samples to determine if the remediation has been completed.
  - B). Pool 2: Sample the sludge after providing this Department with a split sample. The sludge is to be removed if it is contaminated and an end point sample taken for lab analysis.
  - C). Pool 3: No action is required at this time. Contamination is within current guidelines.
  - D): Pool 4: After the sludge is removed you must take an end point sample:
  - E). Pool 5: This unsealed distribution box must have its sludge and contaminated soils removed. Any replacement of this system must be done under a work permit from the Nassau County Department of Public Works.
  - F). The Heating, Ventilating, Air Conditioning system's condensate pipe discharge must be stopped immediately if not already stopped. The discharge was found to contain chlorinated Volatile organic compounds.
    - G). The soil in the back filled sewer line trench within 15 feet of the condensate pipe discharge must be field screened and sampled for laboratory analysis. If feasible the contaminated soil is to be removed. If not feasible other remediation is to be proposed.
- The proposed analysis of the work plan must include chlorinated and aromatic Volatile hydrocarbons, Ketones, Total Petroleum hydrocarbons, and the eight RCRA priority metals by both total digestion and TCLP methods.

Mr. Michael J. Padula March 23, 1994 Page Three

- 2). When the work plantis completed you must send it to this office accompanied by a letter officially accepting the work plan and its implementation.
- After approval of the work plan by this Department, Tishcon
  Corporation for its representative, must notify this Department
  at least (5) business days prior to conducting field work so
  that a Department representative may observe the work and
  accept so lit samples
- 4) Alil toxic and hazardous materials must be removed by a New York State Department of Environmental Conservation (NYSDEC) industrial waste transporter. Disposal is to be done at an NYS DEC or United States Environmental Protection Agency licensed disposal facility.
- Upon completion of field work a report detailing the accomplishments of the field work is to be submitted to this Department. Additionally, the report is to indicate what contamination, if any, is remaining on site and what study and remediation are proposed to deal with it.

The initial work plan may be submitted in letter form rather than a lengthy bound report. This will reduce the time required to prepare the work plan and the time required for review and commentary on the plan by this Department. Be advised that approval of the work plan is required prior to commencement of field work.

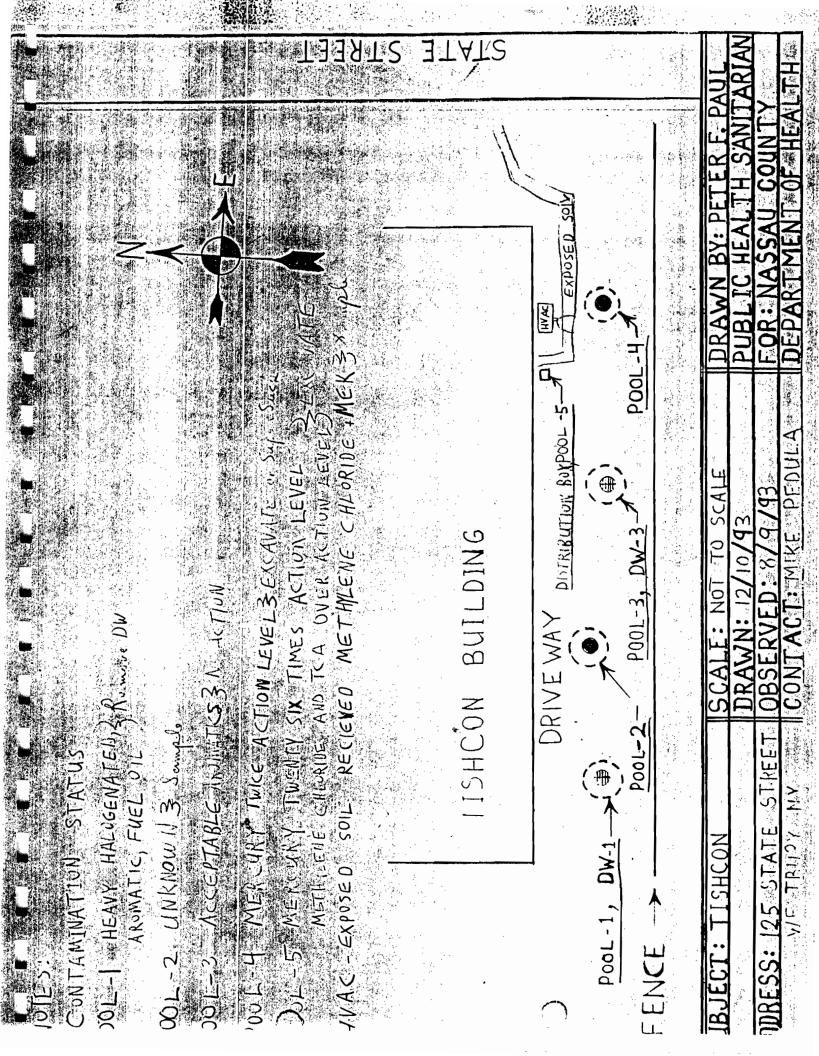
If you have any questions concerning this matter, please contact me or Mr. Peter Paul at 571-3314.

Very truly yours,

Thomas R. Norris

Chief, Office of Source Regulations Bureau of Environmental Management

TRN:jk 3110J Enc.



ABORATORY WORKSHEET  CHEMICAL EXAMINATION FOR TRACE ORG  ONSTITUENTS IN WATER, HAZARDOUS W  OLID WASTES  Center for Laboratories and Research	3   Cnecial	Hereld No. 1930 686  POSO 993-1  No. (Fubile Water, Supply, Only)
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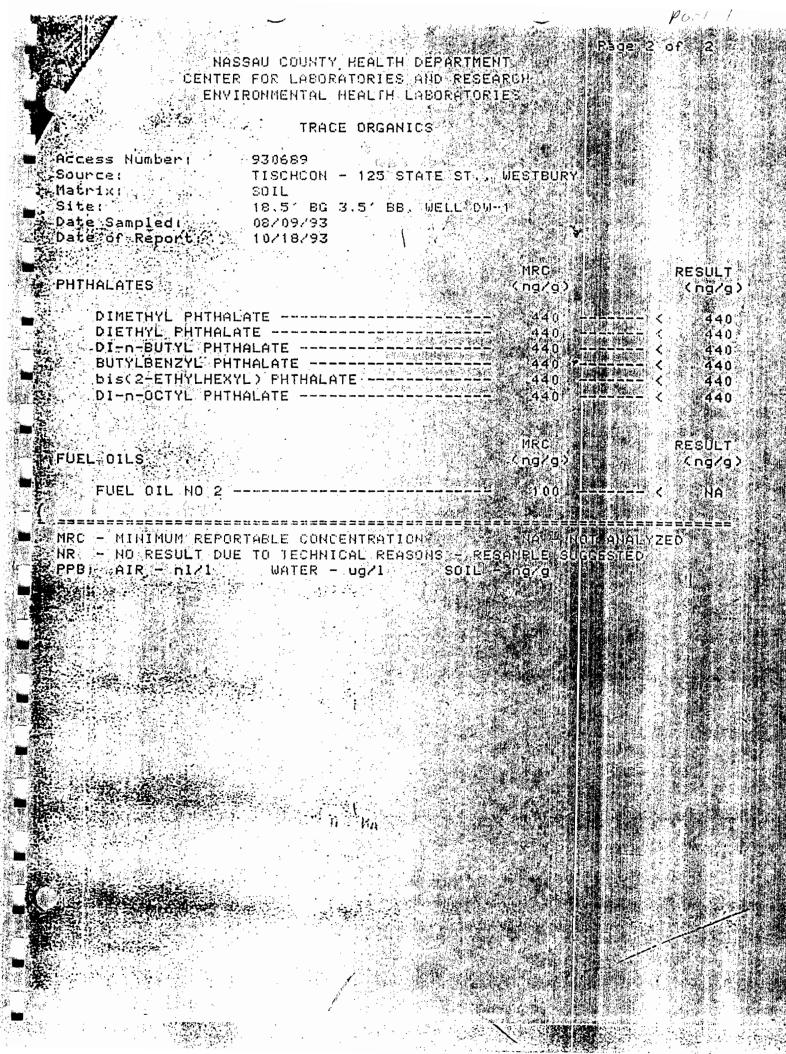
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Date of Report: 10/18/93		
22 POLYCHLORINATED BIPHENYLS	MRC	RESULT
	(ng/g/)	7,7979
PCB-1016	A. 24.45 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	440
PCB-1221	State Control of the State of t	( 440
		===
	440	
PCB-1260	340	< 30440 ×
	· · · · · · · · · · · · · · · · · · ·	
POLYCYCLIC AROMATIC HYDROCARBONS	MRC+ Kong/g\	RESULT N
NAPHTHALENE	40 ====================================	< 40
ACENAPHTHENE	40	在1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1998年,1
CINOREME		. 一
The purpose of the second of t		< 3.40
MANTHRACENE	404 ==	C   An Mar
FLUORANTHENE	40	
PYRENE	40	< 40 40
BENZO(a)ANTHRACENE	Jan Van de de	==- < 3 40 Sign
CHRYSENE	404	==- < ## 40 / <b>18</b>
	4016	〈 #240#2
BENZO( b ) FLUORANTHENE	40 65	< 4014
BENZO(a)RYRENE		40
BENZOCCHI DERVI ENE	40	< 40.04
INDENO(1,2,3-c,d)PYRENE	401 5	< \ \ \ 40 \ .
		=======================================
MRC - MINIMUM REPORTABLE CONCENTRATION	NA - NOT A	NALYZED * * _ *
NR - NO RESULT DUE TO TECHNICAL REASONS - RES		TED
PPB: AIR - n1/1 WATER - ug/1 SOIL	- uaca	
	3.34 (1) (1)	
	SOFT TO THE PERSON WHEN	ALCOHOLD STATE



HASSAU COUNTY HEALTY DEPARTMENT CENTER FOR LABORATORIES AND RESEARCE ENVIRONMENTAL HEALTH LABORATORIES TRACE ORGANICS Access Number: 930689 - 多之餘感 Source TISCHOON - 125 STATE STATE Matrix SOIL Site 18.5' BG 3.5' BB, WELL DW-1 Date Sampled: 08/09/93 Date of Reporti 01/06/94 RESUUT FUEL OILS FUEL OIL NO 2 ----Comment: Some components of fuel ail detected but not enough to verify as fuel oil

NRC - MINIMUM REPORTABLE CONCENTRATION

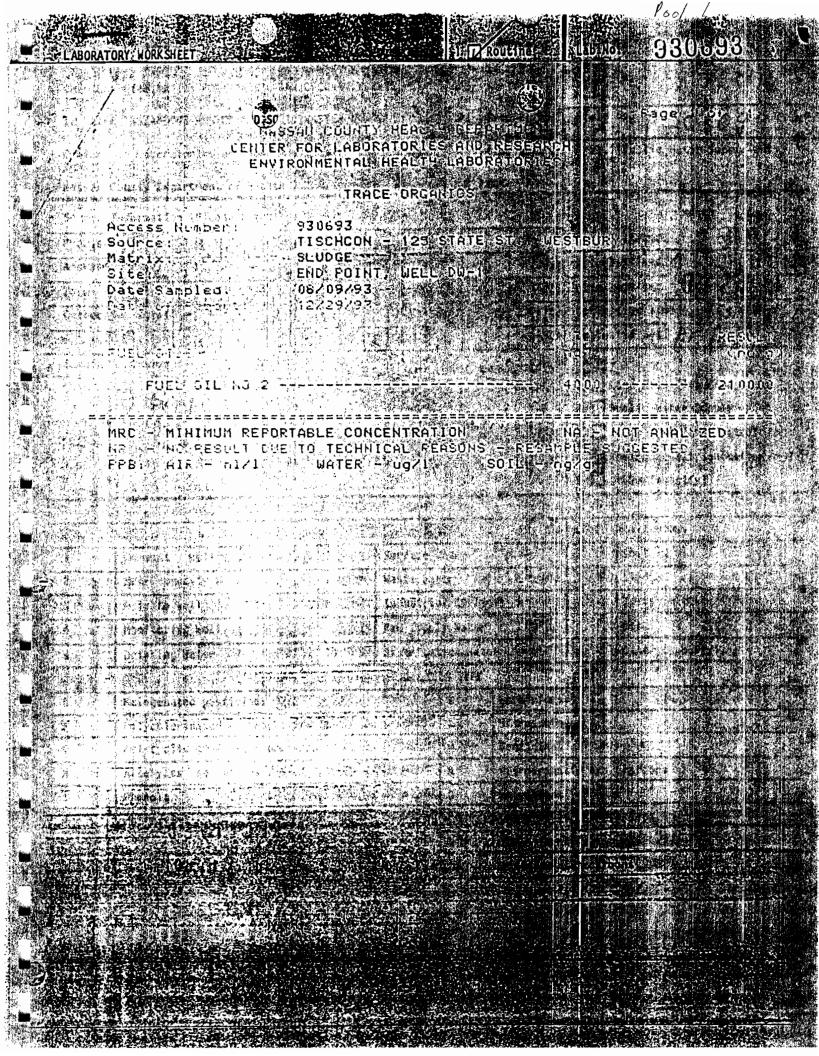
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMBLE SUGGESTED. PPB: AIR - n1/1 WATER - ug/1 SOIL - ng/g

HEST COUNTY SHEALTH DEPARTMENT	
HASS-D COUNTY REAL BOOK RESERVED	
ENVIRONMENTAL HEALTH LABORATORYE	
TRACE ORGANICS	
ACCESS NUMBER: \$30692 to the second s	
SINDECE TISCHCON - 125 STBLE ST	
MATRIX SCUDGE SITE: END POINT, WELL DW-1	
DATE SAMPLED: 08/09/93	
DATE OF REPORT: 09/02/93	
	RESULTI
YOLATILE HALOGENATED	g year and a second
NOCH I I CONTROL OF THE PROPERTY OF THE PROPER	
VINYL CHLORIDE	
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A TAREBURUE IN LEAST	<b>电影地</b> 性企业公司 <b>经</b> 额设定式
METHYLENE CHLORIDE	<b>5</b> 0 € <b>(*</b> 50
1-1-DICHLOPCETHANE	
202-DICHLOROPROPANE	
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	<b>学院</b> 1985年 1985年 1985
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OFFRON TETRACHLORIDE	
14.2-CICHLOROETHANE	图037里25
TRICHLOROETHYLEHE	
1 2-DICHLOROPROPANE	50 ( 50
BROMODICHLOROMETHANE	50 50 50 50 50
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1 3-D1CHLOROPROPENE	501 <u>- L </u>
ter 3-trentoronent	
1 1 2-TRICHLOROETHANE	50
1/3-DICHLOROPROPANE	(50 (±2)
TETRACHLOROETHYLENE	<b>转槽型</b>
DIBROMOCHLOROMETHANE	2508 < 50
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1,1,1,2-TETRACHLDROETHANE	50 ===
1,1,1,2-TETRACHLOROETHANE	50
1,1,2,2-TETRACHLOROETHANE	502 3
1,2-DIBROMO-3-CHLOROPROPANE	500 < 50

# HASSEU COUNTY HEALTA DEFRATMENTA DE TES FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES TRACE DROAMICS

	TRACE	RGANICS			
PLACCESS KUMBÉR: SCUTCE: GMAYRIX:		25 STATE	10 15 15 15 15 15 15 15 15 15 15 15 15 15		
SITE: DATE SAMPLED:	END POINT, W	ELL DM-1			
DATE OF REPORT:	09/02/93;		300 C		RESULT
YOLATILE AROMATICS			ec üg	g/,	(ug/g)
TOLUENE CHECPOBENZENC - ETHYLBENZENE					25 - {
n p-KYLEKE STYRENE	1000				- ( 50 - ( 50 - (4 50
n-srjpylbenzene isofropylbenzen Brogubenzene	E				- ( 50 - ( 50 - 20 - 50
1;2;4;TRIMETHYL 1;2;8=TRIMETHYL 2+CHUOROTOLUENE 4=CHUDROTOLUENE h=BUTYLBENZENE					- 50 - 50 - 50 - 50 - 50
sec-Butylbenzen tert-Butylbenze p-Isopropyltolu bebichlorobenze MBDICHLOROBENZE	HE				100 pp. 100 pp
DECUCHLOROBENZE 1.2.5 TRICHLORO 1.2.5 TRICHLORO 1.2.4 TRICHLORO HEXACHLOROBUTAD NAPHTHALENE -11	BENZENE				50 50 50 50 50 50
COMMENT: KETONE	10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			1 · · · · <u>1 · · · · · · · · · · · · · ·</u>	
MRC JeMINIMUM REPOR NR - NO RESULT DUE PPB: AAIR - n1/1	TABLE CONCENT TO TECHNICAL WATER = 00	RATUON NEEREDNE ZN ∃	104 - 1194 104 - 1194 104 - 1194	SURBESTE	i Mau
		7			

	Post / Landers
LILORATORY WORKSHEET TO THE STATE OF THE STA	шы ж <u>(980</u> 698 🚁 💳
CIN WATER, HAZARDOUS WASTES AND SOLID WASTES TO	Field No. P = 08094913 = 3
Fr. Center, for Laboratories and Research	N Nov (Public Water Supply Only)
Hassau County Department of Health 1988	
Source Information (Please Print)	Honth Day Year
Premises T なられどの気質 単	pre-concered 8 9 82
Address / 2 5 5 5 7 2 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	bar Received A B CH 1988
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e Sampler's connents is ave portion for Purgable analy. Con	It IT I Land Resources Hanayewent
Sample on weet	2 Design to Mater Supply
Appears to be colloidal == May 108 pain Wases	5 Dister Pollution Control.
	4 Environmental Santesson M. 9 M.
	198 Ocher (specify)
SAMPLE TYPE	
△Ž Aqueous	NOTE AND THE PROPERTY OF THE P
Compunity Well Surrace Nater	(2) A (5) loge   March   (4)
Drivate Well 3   Private Well 3   Privat	S Resto Solvent
Private Well	a on the
Drinking Water 10 10 Distribution Water	Usites (Sheet (V)
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Polychlorinated biphenyls programme Line Hillosimi	CONTRACTOR OF THE PROPERTY OF
G Polycyclic aromatic hydrocarbons W Benzicine	The second secon
Al dehydes and Cetones with the Control of the Cont	The state of the second property of the secon
Phenol States Phenol Ph	The second secon
The state of the s	ecity) Pulicilian Manager
Examiner is Comments 2.72 (c)	
DEC 30 1000	



#### NASSAU COUNTY HEALTH DEPARTMENT, CENTER FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES

#### TRACE ORGANICS

Access (tumber)	930693
6 Source ( )	TISCHCON - 125 STATE ST. WESTBURY
MatrixEd	SLUDGE
Cite:	END POINT, WELL DW-1
Data Sampled:	08/09/93
Date of Beport:	10/18/93

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MRC - MENIMUM REPORTABLE CONCENTRATION

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ABORATORY WORKSHEET		
CHEMICAL EXAMINATION FOR TRACE ORG	1 ☑ Routine 2 ☐ Resample	理問題と、特別と
ONSTITUENTS IN WATER HAZARDOUS W	ASTES 3 D Special	The USCOUNT AND A CONTRACT OF THE PARTY OF T
OLID WASTES	4 □ Complaint	File a No.
Center for Laboratories and Research	5 □ Other	P 0 9 0 9 42 4/14 60%
assau County Department of Health		N (No (Public Water Supply Only)
A STATE OF THE PROPERTY OF THE		
urce Information (Please Print)		Month Day Year
Premises Tishcon		
TO PERSON		
LABORATORY REPORT		GBD N # 53910.0812
AND HAZARDOUS WASTES	3 □ Specia	Saccional Saccio
Center for Laboratories and Research	4 □ Complaint 🖅 🔥	Field No.
S. County Department of Health	5 □ Other	<b>医</b> 器制制作性全部机工。2、导致机器点,被他们的基本
Source Information (Please Print)		Month Day Year
memises Tis A C.O.O.		Date Collected 4 4 13
Address 12 5 State St		Date Received
wn Westbury NY		Date Reported SI 1941
Collection Points ID W-1 End	Point	Collecti le /6:30/in3
A PARTY STATE OF THE PARTY OF T		Collected By P.F. Pay
Sampler's Comments		Bureay F1
Total Metals		I Land Resources Management
- and	and the second s	9 (D Other (specify)
TCLP		Sample Type II W
		A 🗀 Water / D 🖸 Waste Solvent
The same of the sa		B □ Sill E □ Olle
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CHEMICALEXA	"我们是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Check Result & Result &
	Check Non-Metals Result  15 Chloride mg/l	29 Chromium hex. mg/l
	16 Cyanide /mg/l	30世 14年 18522
100 CO 10	17 Fluoride img/	31- 19-31- 34-32-33
	18 MBAS mg/l	182 TOTALS MY
The state of the s	(9) pH	337 520ce
5 Chromium, Total mg/l <0.0/	20 Phenois mg/l	S49 IN SOME THAT SHAPE S
77 l/öñ, Total mg/l	21 Solids, Suspended mg//	25   460 m
(B) Lead mg/l 0.12	22   Solids, Total Diss. mg/l	66 69 69 69
9 Manganese mg/l	23 Sulfate mg/l	图73 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图
(10) Mercury mg/l 0.0009	24 Ammonia nitrogen mg/l	38 18 47 A 17 A
11@Nickel mg/l	25 Kjeldahl nitrogen mg/l	135°   186°   135°   13
12) Selenium mg/l \(\sigma \cdot \cd	26 Nitrite nitrogen mg/l	40 Ag (0.3
(12) Kilver Ma/I	27 Nitrate nitrogen mg/l	31     2以

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· 中央	AL EXAMINATION FOR TRACE	,在一个大块,在一个大小,在这个大型,就是不过一个 <b>在外面对抗的现在分词 的第三人称单数 医二种性性 医二种性性性 医二种性性性性</b> 医二种性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性性	
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The state of	r Laboratories and Research	-5. □ Other	
		Na No (Patific Water Supply Only)	
Nassau C	ounty Department of Health		
urce I	nformation (Please Print)	Months Day Year	ä.
Premises	大特殊機運動以下	Date College C	
dress	125 85 tat	e St. III Date Received	
Town	Westburry		
illectio	n Point E M P 6	well No D. W Collette nume. 1. 16.13 S. H.E.S.	
Sampler	s Comments :	Collected by Fatlows	
		tion for Extraction Bureau Bureau	r.
	Sample on ice	oidal - may be paint wasles 2 Public Water Supply	
	T M H	3. [] Water Pollution Control	
	Expect III Tichly	Chloride in high concentration 4/12 Environmental Santuation management of the one in low concentrations of the other specify)	
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1		SAMPLE TYPE	
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from the second of	Community Well	- IS Surface Water See Waser St. Market See See See See See See See See See S	Gira.
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3 1	Non-Community Well	7 Waste Water 2 Sludge 8 Industrial Effluent 3 Waste Solvent	一年 一日 一日 日本
	Non-Community Well Private Well	7 Waste Water 2 Sludge 8 Industrial Effluent 3 Waste Solvent 9 Raw Supply Water 4 Oil	の神経の情報を表現している。 の神経のでは、 のでは
	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds	7 Waste Water 2 Sludge 8 Industrial Effluent 3 Waste Solvent 9 Raw Supply Water 4 Oii 1	了新心理的构成的一个人,然后,他们就是一个人,他们就是是一个人,我们就是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一
5 5.5	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	D. Marie Ma
5 5.5	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 2 Sludge 8 Industrial Effluent 3 Waste Solvent 9 Raw Supply Water 4 Oii 1	了一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
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5 2 A 3 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	了她们就是我们的话,我们就是这个人,我们就是我们就是我们就是我们的,我们也没有一个人,我们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们
5 2 A 3 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	了她们就是他们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
5 2 A 3 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	了一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
5 2 A 3 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	のは、他のは、他のは、他のは、他のは、他のない。「他のない」とは、他のないない。「他のないないないないないない。」というないないない。「他のないないない」というない。「他のないないない」というない。
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5 2 S	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	不能以感染的感染,可以可以使用,更加的一种,不可以使用的变化,是一种,不可以使用的一种,可以使用的一种,可以使用的一种,可以使用的一种,可以使用的一种,可以使用的一种,可以使用的一种,可以使用的一种
Exam	Non-Community Well Private Well Monitoring Well Drinking Water Purgeable Organic compounds Other (specify) Ketones	7 Waste Water 8 Industrial Effluent 9 Raw Supply Water 10 Distribution Water 5 Other (specify)	不满心意的地方,更加,他们就是一个一个时间,他们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

EMIC N TI	ATORY WORKSHEET  AL EXAMINATION FOR TRACE ORGA  FUENTS IN WATER, HAZARDOUS WA  LID WASTES  Laboratories and Research			1  Routine 2  Resamp 3  Special 4  Compla 5  Other		Field N		30690 2993	2
B E D III	ORATORY REPORT MICAL EXAMINATION OF INDUSTRIA HAZARDOUS WASTES or for Laboratories and Research County Department of Health			1  Rout 2  Ressi 3  Spec 4  Com 5  Othe	ne nole il	Цъ.	No Sopretion of the Control of the C	3910081;	<b>B</b>
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SAVA				12 22		A PROPERTY OF THE RESIDENCE OF THE RESID
LARORATO	RY WORKSHEET	•		1 17 R	outine	Lab No.
***					1.5%	930691
YENICAL	EXAMINATION FOR TRACE ORGANIC	CONSTITUE	NTS	2 L R	esample :	
IN WATER	, HAZARDOUS WASTES AND SOLID W	ASTES		3 🖸 Š	pecial an	Field No. 7 10 8 0 9 9 9 3 2 2
Center f	or Laboratories and Research			4 □ C	omplaint	TH NO MI (Public Mater, Supply Only)
	以 D編輯表稿的 1000 A			191	tner	
	ounty Department of Health		Z WENTER			
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DL 2118 7/89

#### NASSAU COUNTY HEALTH DEPARTMENT CENTER FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES TRACE ORGANICS Access Number: 930691 TISCHCON - 125 STATE ST.; WESTBUR 930691 Sounce: 😥 🦠 Matrix: Matrix END POINT, WELL DW-3 Site: 🐇 Date Sampled: 08/09/93 Date of Report: 10/18/93 RESULT POLYCYCLIC AROMATIC HYDROCARBONS (ng/g) NAPHTHALENE -----FLUORENE -----PHENANTHRENE ANTHRACENE -----FLUORANTHENE ------BENZO(a)ANTHRACENE CHPYSENE BENZO(b)FLUORANTHENE BENZO(k)FLUORANTHENE BENZO(a)FYRENE DIBENZO(a h)ANTHRACENE BENZO(a h)ANTHRACENE BENZO(a)FYRENE BSNZOCaDANTHRACENE -----INDENOGI 2.3-c, d PPRENE----FUEL DIES (ng/ FUEL OIL NO 2

MRC - MINIMUM REPORTABLE CONCENTRATION NO MAIN HOW ANALYZED NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED NE PPB: AIR - n1/1 WATER - ug/1 SOIL - ng/9

"COMPLY"

MASSAU COUNTY HEALTH DEPARTMENT CENTER FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES

#### TRACE ORGANICS

Access Number: .930691

TISCHOON - 125 STATE ST. WESTEUR Source:

Matrix: SOIL

Site END POINT, WELL DW-3

Date Sampled: 08/09/93 Date of Report: . 01/03/94

FUEL DILS

FUEL OIL NO 2

Comment: Some components of fuel oil detected but net enough information to verify as fullio

RESULT <ng293

MRC - MINIMUM REPORTABLE CONCENTRATION IN THE WOOT ANALY
NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED
PPB: AIR T DI/1 WATER - Ug/1 SOIL - ng/g

### HASSAU COUNTY HEALTH DEPARTMENTS CENTER FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES

#### TRACE ORGANICS

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٠,	DATE SAMPLED:	08/09/93					<b>""</b> "
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MRC - MINIMUM REPORTABLE CONCENTRATION NA NOT ANALYZED WR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED PPB: AIR - n1/1 WATER - ug/1 SOIL - ng/g

## NASSAU COUNTY HEALTH DEPARTMENT CENTER FOR LABORATORIES AND RESEARCH ENVIRONMENTAL HEALTH LABORATORIES TRACE ORGANICS

	ACCESS NUMBER: 93069 SOURCE! TISCH	10 ICON - 125 STATE	<b>ži</b> ro, Weshindury	
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	DATE OF REPORT: 08/12	2/93	(多) 解釋 特別 图像 清韵 [	
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Ţ,	h-BUTYLBENZENE			
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		· · · · · · · · · · · · · · · · · · ·		

MRC - MINIMUM REPORTABLE CONCENTRATION

NR - NO RESULT DUE TO TECHNICAL REASONS: RESAMPLE SUGGESTED

PPB: AIR - n1/1 WATER - ug/1 SOIL 09/9

ABORATORY REPORT	<i>)</i> IAL	1 □ Routine 2 □ Resamp		Lab. No. Clin. 39100888	B
AND HAZARDOUS WASTES		3 ☐ Special			
enter for Laboratories and Research  Na. County Department of Health		4 ☐ Compla 5 ☐ Other	int <sub>d</sub> i <sub>na</sub>	Field No	(3-10
ource Information (Please Print)			* ** ***	Month.	Day Year
Premises Tishoun				Date Collected	
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ollection Point Poul Islade C.			Market State	Collected By: 18 Poul	
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v a  + 1 (	- 1-1			Bureau Bureamenta/ 1. Land Resources Managemer  9. Other (specify)	11
				9 🗆 Other (specify)	
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	4.72		Colored Car	C. W.Sludge   F. □ Othe	
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Arsenic mg/l <0.00 S	16	Cyanide mg/i	386 W.24	130 TOTALS M	Ke
(3) Barium mg/l 0,24	17	Fluoride mg/l	的推動	31, As	LOW STANSON LINE
(4) Cadmium mg/l 0.006	18	MBAS mg/l	in a Medit	32 1 3 G	43,3
(5) Chromium, Total mg/l <0,01	. 19	PH INITIAL	6.91	33 CG	3.5
6 Copper mg/l	20	Phenols mg/l	A 70 mi	34- 101 CK	
7 Iron, Total mg/l	21	Solids, Suspended : mg/l	100 A 100 PM	135, 1 P b	/363/8
	22	Solids, Total Diss. mg/l	AT 2/1845	36 Ha	0.46
(8) Lead mg/l (. 2)					
8 Lead mg/l 1.27  Manganese mg/l	23	Sulfate mg/l		2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
9 Manganese mg/l	-	Sulfate mg/l Ammonia nitrogen mg/l		37. 11 Se	(0.5
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SEP 80 1993

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Center 1	or Laboratories and Research		5 □ Ot	ner	Pag go.	495-1
Nassau	County Department of Health				N. No. (Public Wat	er Supply Only)
	Information (Please Print)					Month Day Yes
Premise					Date Collected	9 7 8
Address		e	5 +		Date Received	QE 19
Town	west bury	N	y		Date Reported	CE 174 E
A STATE OF THE STA	on Point P 5-0 1 4	· · · · · · · · · · · · · · · · · · ·	e d, Well No.		Collection Time	12.00 m
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613	Cess pool 5/1	udge	* 2*		3 □ Water Polluti	on Control  I S <del>anitation</del> , 11 6 11 6 5 4
		V			9 D Other (specif	
	State of the state of		The second second			
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2	Non-Community Well	7	Waste Water	<b>沙里 法基本</b>	3, Sludge	
3	Private Well	8	Industrial Effluent	44.		rent and a second
4	Monitoring Well	9	Raw Supply Water	7. 7. 7. 7. 7. 1. 5.49	4 Oil	
5	Drinking Water	10	Distribution Water			cify)
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	Purgeable Organic compounds		*			
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# 455 U LOUNTY HEALTH DEPARTMENT FOR THE COUNTY HEALTH DEPARTMENT HEALTH LABORATORIES AND FEBRUARIES AND FEBRUA

#### TRACE ORGANICS

ACCUSI ATMILITE 930785

TISHCON - 125 STATE STIT WESTBURY
MATTIL SLUDGE
FOOL 4 SEDIMENT
OATT SATILES: 09/02/93

09/13/93

		15-15-15-15-15-15-15-15-15-15-15-15-15-1	MRC		RESULT
MOCATILE HALOGE SATES			('ng/gɔ'		(កូច្នាវិទ្ធិ)
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r.2-010HLOROFROPANE			200		< 2.00
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TETRACHLOROETHYLENE			200	and the same	< 200
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1,2-GIBROMOETHANE			200	SHOWN THE THE	< ₹ 200
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9ROMOFORM	Jak - 1	Mar Soft Free	200		< ∵ 2.00∷
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1.2_3-TRICHLOROPROPANE	. 7	onay proces	200		200
1,2-QIBROMO-3-CHLOROPROP(	HE4E		200		< 200

MRC - MINIMUM REPORTABLE CONCENTRATION

NA - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED

PPE: AIR - ml/l WATER - ug/l SOIL - ng/g

HASSYU COLUTY, PEALTH DEPARTMENTES CLEYER AND L-EOMATORIES AND RESEARCH EMVISONMEN H. HEALTH LABORATORIES

#### TRACE ORGANICS

POLICE BARRERS 930789
TRACIN - 125 STATE ST., WESTBURY
TRACE
POLICE
POLI

 OHTE SAMELED:
 09/02:93

 DATE OF REPORT:
 09/13/93

OL.	STILE ARONATICS			Krieria"			ng/g>
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MRC - MINIMUM REPORTABLE CONCENTRATION NA FIGURANALYZED NR - NO RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED PPS: AIR - AI/I WATER - Ug/1 SOIL - AG/G

CHEMICAL EXAMINATION OF	INDUSTRIAL	1 🖸 Routine 2 🔲 Resamp	· · · · · · · · · · · · · · · · · · ·	Lab. N. Cin. 39,100889
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Nas. County Department of He	ealth	4 □ Compla 5 □ Other	int	Field No. 12 93 536
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	- 1			Sample Type:
				A □ Water D □ Waste Solvent
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lluminummg/l	1.03	Chloride mg/l		29 Chromium hex. mg/!
2 Arsenic mg/l	₹0.005 16	Cyanide mg/l		30 TOTACS MY KA
4	(0.0 <b>5</b> 17	Fluoride mg/l	Park Comp.	Ag <0.5
4) Cadmlum mg/l	0.003 18	MBAS mg/l	0.56	32 As 5 6
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9 Manganese mg/l	23	Sulfate mg/l	MAC COM	3711 3 46 6
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	au County Department of Health						A
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3	Private Well 1 19 19 19 19 19 19 19 19 19 19 19 19 1	8 / Indus	strial Effluent 🎨		3 Waste Solv	ent	
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5	Drinking Water	10 Distr	ibution Water	i kalipi	5 Other (spe	cify)	
	And Carlotte	Α	NALYSIS TYPE		识游别的概念部分		
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#### TRACE ORGANIOS

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1,1,2,2-TETRACHLOROETHANE 1;2,3-TRICHLOROPROPANE-----1,2-DIBROMO-3-CHLOROPROPANE-

193-DICHLORDERGPANE-TETRACHLURGETHYLENE --

BROMOFORM -----

DIBROMOCHLOFOMETHAKE--1/2-DIBROMOETHANE--

MRC - MINIMUM REPORTABLE CONCENTRATION NA - NOT ANALYZED - NO RESULT DUE TO TECHNICAL REASONS - RESAMBLE SUGGESTED AIR - 51/1 WATER - ug/1

# TRACE ORGANICS - 38790 - 194601 - 123 TATE STATE - 19666

ABOU S SEDIMENT

09/02/93 /

10/4 0/93

#### VOLATILE AROMATICS

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Keter Sams NC 140

## NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS CEDAR CREEK SPECIAL PROJECTS LABORATORY ELAP#10842 LABORATORY REPORT OF WATER ANALYSES FOR VOLATILE ORGANICS

SAMPLE LOCATION:	TISHCON	,
TYPE OF SAMPLE:	IW ·	
SAMPLE#:	930753	
DATE SAMPLED:	93/08/09	
TIME SAMPLED:	12:00	
DATE RECEIVED:	93/08/09	
TIME RECEIVED:	14:00	
SAMPLED BY.	TM/TWS	

SHULCED DI: JULIMS			A STATE OF
COMPOUND	CONCENTRATION (uo /1)	DETILIN	11T(00/)
			13 10 17
DICHLORODIFLUOROMETHANE:	*		1.0
CHLOROMETHANE:	***		.1.0.
VINYL CHLORIDE:	***		0.1.
BROMOMETHANE & CHLOROETHANE:	***		0.5
TRICHLOROFLUOROMETHANE:	***		o.i
1,1-DICHLOROETHENE:			0.1
METHYLENE CHLORIDE:	11,022.		0.1
1.2-T-DICHLOROETHENE:	· · · · · · · · · · · · · · · · · · ·		0.1
1,1-DICHLOROETHANE:	815.		0.1
2,2-DICHLOROPROPANE AND cis-			
	* * * * * * * * * * * * * * * * * * * *		0.5
CHLOROFORM:	57.7		O.1
BROMOCHLOROMETHANE:	199		0.5
1,1,1-TRICHLOROETHANE:	1,528.		0.13
1.1-DICHLOROPROPENE:	***		0.1
CARBON TETRACHLORIDE:	* 1		0.1
1,2-DICHLOROETHANE:	*		0.1
TRICHLOROETHYLENE:	115.		0.15
1,2-DICHLOROFROFANE:	86.2		0.1
BROMODICHLOROMETHAME AND DIE	ROMOMETHANE:		學。其學學家
			0.5
cis-1,3-DICHLOROPROPENE:	30.3		0.1
trans-1,3-DICHLOROPROFENE:			0.1
1,1,2-TRICHLOROETHANE:	***		0.1
1,3-DICHLOROPROPANE:	2733	1400	0.1%
TETRACHLOROETHYLENE:	***		0.1
DIBROMOCHLOROMETHANE:	2-4-71	in the state of th	0:5
1,2-DIBROMOETHANE:	56.3		0.5
CHLOROBENZENE:			0.1
1,1,1,2 TETRACHLOROETHANE:	37.8		0.1
BROMOFORM:	3/.8		0.5
<pre>1,1,2,2-TETRACHLORDETHANE: "" 1,2,3-TRICHLORDPROPANE:</pre>			7
BROMOBENZENE:	54.3%		T OF SERVICE
1,2-DIBROMO-3-CHLOROPROPANE:	4.6.7 (1) 10 (1		0.5
THE PERIOD OF CHEDION ROLL	A MATERIAL CONTRACTOR		Salah Sa

COMPOUND	CONCENTRATION(ug/1)	DET.LIMIT(ug/1)
BENZENE: TOLUENE: CHLOROBENZENE: ETHYLBENZENE: M,P-XYLENE: O-XYLENE: STYRENE: ISOPROPYLBENZENE: BROMOBENZENE & N-PROPYLBENZ	4.55 <b>*</b> B.07 D. <b>*</b> 3.2	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
1,3,5-TRIMETHYLBENZENE: 4-CHLOROTOLUENE: tert-BUTYLBENZENE: 1,2,4-TRIMETHYLBENZENE: sec-BUTYLBENZENE: P-ISOPROPYLTOLUENE: 1,3-DICHLOROBENZENE: 1,4-DICHLOROBENZENE:	3.6 12.4 3.6 4.6 1.0 1.6 * 5.2	1:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0 1:0
N-BUTYLBENZENE: 1,2-DICHLOROBENZENE: 1,2,4-TRICHLOROBENZENE: HEXACHLOROBUTADIENE: NAPATHALENE: 1,2,3-TRICHLOROBENZENE:	2.2 1.2 5.3 5.3 3.6 3.6 1.7	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
* = Below detection limit - = Not analyzed	e de la companya de l	

REMARKS:

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A-133 CINEBOR: PROPENE				770
1) 1 FIRE CHLOS SETHANE				An.
1 - 5-04 Crit ROFROPANE				710

TETRACHLORDETHYLENE ----DIBROMOCHEORONETHANE----

COMMENT: METHYL ETHYL KETONE DETECTED BY GC/MS?
COMMENT: APPROXIMATE CONCENTRATION IS 30006/1/ 47

MRS - MINIMUM REPORTABLE CONCENTRATION A NAC NOT ANALYZED NA - 40 RESULT DUE TO TECHNICAL REASONS - RESAMPLE SUGGESTED PRE HIR - n1/1 WATER - ug/1 SOIL - ng/6 1

#### Attachment 3

#### AMERICAN CONSULTING

TEL: (516) 751-5439 - FAX (516) 751-5837

November 1, 1993

Peter Paul Nassau County Health Department 240 Old Country Road Mineola, NY 11501

RE: Tishcon Analysis

Dear Mr. Paul:

As requested, enclosed are copies of the endpoint analysis results from pools one and three, as split sampled with you on 8/9/93. Please send us copies of your results at your earliest convenience.

The disposal of the sludge at the site is being scheduled now. You will be informed of the date and copies of the waste manifests will be sent to your office.

If you have any further questions, please call me.

Very truly yours,

Lisa M. Busch

Enclosures, 7 pages

■Volumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Time Of Login : 10:02:21

Date:

Collected: 08/09/93 Received :08/10/93 Completed: 09/01/93

Reported By:\_\_\_\_

N.Y.S. Lab I.D. #10058

Sample Number 51319308

Sample Taken By

\_\_Client

American Consulting (8/20) TISHCOD

Pool 1 A Endpoint

SOLID

■ Analysis : Total Metals

-	Parameters	Results ppm (Mg/L)	Parameters	Results ppm (Mg/L)
	Cadmium	2.03		
	Chromium, Total	0.41		
	Chromium, Hexavalent	0.06		
	Copper	0.15		
	Iron	25.78		
	Nickel	(0.01		
	Lead	0.09		
	Silver	(0.01		
	Zinc	0.93		
	Arsenic	<0.01		
	Selenium	<0.01		
-	Mercury	0.13		

#### Comments

Metals Analyzed by EPA SW846 Method 3050.

- \* Indicates Compound Concentration Falls Below Instrumentation Detection Limit.
  - \* CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

■Volumetric Techniques, LTD. \_\_\_\_\_\_\_

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Date:

Received: 08/10/93 Completed: 09/13/93

Collected: 08/09/93

Time Of Login: 10:17:31

Reported By:

N.Y.S. Lab I.D . #10058

Sample Taken By

\_\_Client

: American Consulting (8/20) 188(col) Sample Number 51409308

Pool 1 B

SLUDGE

Analysis: Total Metals/Volatile Organics

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Benzene	(4.0	1,1,2-Trichloroethane	(10.0
Bromodichloromethane	(8.0	Trichloroethene	(19.0
Bromomethane	<11.0	Trichlorofluoromethane	<8. <b>0</b>
Carbon Tetrachloride	(21.0	Vinyl Chloride	<17.0
Chlorobenzene	(4.0	Xylene	48,867.30
Chloroethane	(10.0		
Cis-1,2-Dichloroethane	<12.0		
Chloroform	160,280.30		
Chloromethane	(13.0		
Dibromochloromethane	<5.0		
1,2-Dichlorobenzene	(3.0		
1,3-Dichlorobenzene	(12.0		
1,4-Dichlorobenzene	(3.0		
1,1-Dichloroethane	(12.0		
1,2-Dichloroethane	(6.0		
■ Trans-1,2-Dichloroethene	(6.0		
1,2-Dichloropropane	(4.0		
Cis-1,3-Dichloropropene	(20.0		
Trans-1,3-Dichloropropene	(20.0		
Ethyl Benzene	9,275.0		
Methylene Chloride	1,830,577.0		
1,1,2,2-Tetrachloroethane	(4.0		
<ul><li>Tetrachloroethene</li></ul>	457.40		
Toluene	<11.0		
1,1,1-Trichloroethane	(8.0		

<sup>\*</sup> CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

\_Volumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Sample Taken By

\_Client

Time Of Login: 10:12:46

Date:

Collected: 08/09/93 Received: 08/10/93 Completed: Q9/01/93

Reported By:

N.Y.S. Lab I.D. #10058

: American Consulting (8/20) 184665 Sample Number 51409308 Sample

Pool 1 B SLUDGE

■Analysis: Total Metals/Volatile Organics

Parameters •	Results ppm (Mg/L)	Parameters	Results ppm (Mg/L)
Cadmium	3.91		
Chromium, Total	0.35		
Chromium, Hexavalent	0.23		
Copper	0.28		
Iron	38.50		
■Nickel	(0.01		
Lead	0.13		
Silver	0.01		
Zinc	3.89		
Arsenic	<0.01		
Selenium	(0.01		
Mercury	(0.01		

#### Comments

Metals Analyzed by EPA S#846 Method 3050.

- \* Indicates Compound Concentration Falls Below Instrumentation Detection Limit.
  - \* CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

■Volumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Time Of Login: 11:31:18

Date:

Collected: 08/09/93 Received :08/10/93 Completed: 09/13/93

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By

Client

Sample : American Consulting (8/20) 7156(c) Sample Number 51439308

Pool 1 C

SOLID

Analysis: Volatile Organics/T P H

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Benzene	<4.0	1,1,2-Trichloroethane	⟨10.0
Bromodichloromethane	(8.0	Trichloroethene	(19.0
Bromomethane	(11.0	Trichlorofluoromethane	<8. <b>0</b>
Carbon Tetrachloride	<21.0	Vinyl Chloride	(17.0
Chlorobenzene	<4.0	Xylene	63,461.90
Chloroethane	(10.0		
Cis-1,2-Dichloroethane	(12.0		
Chloroform	12,845.10		
Chloromethane	(13.0		
Dibromochloromethane	⟨5.0		
1,2-Dichlorobenzene	(3.0		
1,3-Dichlorobenzene	(12.0		
1,4-Dichlorobenzene	(3.0		
1,1-Dichloroethane	(12.0		
1,2-Dichloroethane	(6.0		
Trans-1,2-Dichloroethene	(6.0		
1,2-Dichloropropane	<4.0		
Cis-1,3-Dichloropropene	(20.0		
Trans-1,3-Dichloropropene			
Ethyl Benzene	12,554.10		
Methylene Chloride	41,972.0		
1,1,2,2-Tetrachloroethane	<4.0 52.20		
Tetrachloroethene	53.20		
Toluene	4,237.20		
1,1,1-Trichloroethane	(8.0		

<sup>\*</sup> CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

#### Volumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Time Of Login: 11:28:50

Date:

Collected:08/09/93 Received:08/10/93

Completed: 09/13/93

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By

\_Client

ample : American Consulting (8/20) [1840]

Sample Number 51439308

Pool i C

SOLID

Analysis: Volatile Organics/T P H

Parameters Results Parameters Results
PPIN PPM

Petroleum Hydrocarbons (10.0

<sup>\*</sup> CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

#### →olumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Time Of Login: 11:26:50

Date:

Collected: 08/09/93 Received: 08/10/93 Completed: 09/13/93

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By

\_lient

: American Consulting (3/20) 115- (cr) Sample Number 51429308

Pool 3 A Endpoint

SOLID

Analysis: Volatile Organics

Parameters -	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Benzene Bromodichloromethane	(4.0 (8.0	1,1,2-Trichloroethane Trichloroethene	(10.0
Bromomethane	(11.0	Trichlorofluoromethane	<19.0 <8.0
Carbon Tetrachloride	(21.0	Vinyl Chloride	(17.0
Chlorobenzene	(4.0	Xylene	204.40
-Chloroethane	(10.0	Aylene	204.40
Cis-1,2-Dichloroethane	(12.0		
Chloroform	(3.0		
_Chloromethane	(13.0		
Dibromochloromethane	⟨5.0		
1,2-Dichlorobenzene	(3.0		
1,3-Dichlorobenzene	(12.0		
■1,4-Dichlorobenzene	(3.0		
1,1-Dichloroethane	<12.0		
1,2-Dichloroethane	(6.0		
Trans-1,2-Dichloroethene	(6.0		
1,2-Dichloropropane	<4.0		
Cis-1,3-Dichloropropene	(20.0		
_ Trans-1,3-Dichloropropene	(20.0		
Ethyl Benzene	29.36		
Methylene Chloride	(3.0		
1,1,2,2-Tetrachloroethane	(4.0		
■ Tetrachloroethene	(14.0		
Toluene	(11.0		
1,1,1-Trichloroethane	(8.0		

<sup>\*</sup> CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

Volumetric Techniques, LTD.

317 Bernice Drive \* Bayport, New York 11705 \* (516) 472-4848

To: American Consulting

P.O. Box #545

East Setauket NY 11733

(516) 751-5439

Time Of Login: 09:58:02

Date:

Collected: 08/09/93 Received: 08/10/93 Completed: 08/19/93

Reported By:\_\_\_

N.Y.S. Lab I.D \$10058

Sample Taken By

**C**lient

\_Sample : American Consulting (8/20) Tread Sample Number 51309308

Pool 3 B Endpoint

SOLID

Analysis: Total Metals

Parameters	Results ppm (Mg/L)	Parameters	Results ppm (Mg/L)
Cadmium	(0.01		
Chromium, Total	0.20		
Chromium, Hexavalent	0.032		
Copper	0.03		
Iron	37.88		
■ Nickel	0.04		
Lead	1.09		
Silver	0.01		
Zinc	1.22		
Arsenic	<0.01		
Selenium	<0.01		
Mercury	0.29		

### Comments

Metals Analyzed by EPA SW846 Method 3050.

- \* Indicates Compound Concentration Falls Below Instrumentation Detection Limit.
  - \* CONSULTING CHEMISTS \* COMPLETE LABORATORY TESTING \* \* Sander R. Sternig \* Director of Laboratories \*

# Attachment 4



# COUNTY OF NASSAU DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD MINEOLA, N.Y. 11501-4250

January 30, 1995

Eric A. Weinstock Project Manager C.A.Rich Consultants, Inc. 404 Glen Cove Avenue Sea Cliff, N.Y. 11579

Re: Tishcon Corp.

125 State Street

Westbury

Work Plan Addendum NCDH Facility No. 3832

Dear Mr. Weinstock:

We have reviewed the above referenced Work Plan Addendum submitted in response to our comments of November 14, 1994 and find the addendum together with the originally submitted Work Plan to be acceptable to this Department.

Please notify this Department at least five working days prior to start of work at the site.

If you have any questions, I can be reached at (516) 571-3642.

Very Truly Yours,

Steven D. Silvers, P.E. Assistant to the Director Bureau of Environmental

Engineering

cc: M. Padula, Tishcon Corp.

T. Norris, NCDH



CERTIFIED GROUND-WATER AND ENVIRONMENTAL SPECIALISTS

November 23, 1994

Nassau County Department of Health 240 Old Country Road Mineola, New York 11501

Attention: Steven Silvers, P.E.

Re: Work Plan Addendum

Leaching Pool Contamination Investigation and Clean-Up

Westbury, New York

Dear Mr. Silvers:

Thank you for your letter of November 14, 1994 and your comments regarding the above-referenced project. As I discussed with you on the telephone earlier this week, we have carefully considered each of your comments and offer this Addendum to the Work Plan.

Comment 1. Soil Borings - A soil boring will be placed in each of the pools requiring remediation. This includes pools 1, 2, 4 and distribution box 5. Soil samples will be collected at 5 foot intervals and screened using a portable organic vapor meter to determine the depth of soil requiring removal. Once the depth of contamination is determined using the screening method, one soil sample from the bottom of each boring will be sent to Nytest Environmental, Inc. for analysis using method 8010/8020.

# Comment 2. Waste Characterization Samples

- a) We have been informed by Tishcon Corp. that pool 2 is an overflow for pool 1. As such we believe that a composite sample is appropriate for this situation and feel that a disposal facility can be selected using this sampling methodology.
- b) Similar to the comment above, all of the water in the pools will be removed by a vacuum truck and mixed in the tank of the truck. As such, we believe that at composite sample is appropriate and that we can obtain approval for disposal of this material using this sampling methodology.
- c) As a follow-up to our telephone conversation, I called Mr. Vincent Alonge of NCDPW. I was informed that the Bay Park waste water treatment facility will accept storm and septic water delivered by vacuum truck. Laboratory results for the 8 RCRA metals and volatile organic compounds using method 601/602 must be sent to NCDPW first. Based on these results, NCDPW will either provide us with a letter stating they will accept the water or they will advise us that we must dispose of this water at a different facility.

Comment 3. Disposal of Drummed Sediments - After our conversation, I called our disposal contractor and reviewed these procedures. We agree that power washing will create unnecessary waste water. As such, we propose to place the drums over the disposal roll-off container and tap them until all of the soil has poured out of the drum. If any soil remains, it will be removed using disposable rags that will also be placed in the roll-off container for disposal.

Comment 4. Clean Out of Pools 2, 4, 5 - The supper sucker will remove as much of the contaminated soil as possible with out creating an unsafe situation in the parking lot. End-point samples will then be collected. Yellow flagging ribbon will then be placed at the bottom of the excavation and the pool will be stabilized with clean fill. If additional remediation work is necessary, we will be able to determine the depth of the supper sucker excavation by uncovering the yellow ribbon.

Comment 5. Report Preparation - A section will be added to the report regarding data analysis and recommendations for additional investigations as suggested in your letter.

Comment 6. Laboratory - Nytest Environmental, Inc. will be the laboratory subcontracted for this investigation.

Comment 7. Calibration - The organic vapor meter will be calibrated within 24-hours of the field program using the vendors calibration gas.

If you have any questions regarding this Work Plan Addendum, please do not hesitate to call our office. We look forward to a letter of approval regarding this Plan and to working with you on this most important project.

Sincerely,

CA RICH CONSULTANTS, INC.

Eric A. Weinstock Project Manager

CC: Michael Padula Thomas Norris

EAW:ma

Attachment (NCDH letter of Nov. 14, 1994)
Epson: C:\Winword\Projects\TISH-res.doc



# COUNTY OF NASSAU

# DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD MINEOLA, N.Y. 11501-4250

November 14, 1994

Mr. Michael Padula Tishcon Corporation 30 New York Avenue P.O.Box 331 Westbury, N.Y. 11590

Re: Work Plan

Leaching Pool Contamination

Investigation and Clean-up

125 State Street

Westbury

NCDH Facility No. 3832

Dear Mr. Padula:

We have reviewed the above referenced Work Plan and have the following comments:

- 1- Pg. 2, Task 1- Soil Borings- Please indicate where and at what depth the soil samples are to be taken. Are the samples to be taken when the portable organic vapor meter does not detect any organics or prior to that reading?
- 2- Pg. 2, Task 2- Waste Characterization
  - a- Sediment samples from the bottom of pools 1 and 2 should be separate samples and not composites as called for in the Plan.
  - b- Water samples from the three pools should be separate samples and a composite sample as stated.
    - c- Has the local treatment plant been contacted to see whether the water can be discharged to

# the sanitary sewer system ?

- 3- Pg. 2, Task 4- Disposal of Drummed Sediments..-Power washing of the 55 gallon drums should be performed in such a manner that no dust or contaminated water is released into the air or to the ground. The procedure should be clarified.
- 4- Pg. 3- Task 5- Clean out of pools 2,4,5...- The plan calls for the immediate backfilling of these pools prior to the receipt of the laboratory results for the end point samples. Thought should be given to additional excavation that might have to be done if these samples show further contamination.
- 5- Pg. 3- Task 7- Report Preparation- A section should be added to the report to analyze the remediation efforts and sample results to determine whether additional investigation or work is required at the site.
- 6- What laboratory is going to be utilized for sample analysis? Is the laboratory certified by NYSDOH for this type of analysis?
- 7- What procedures for the calibration of the portable organic vapor meter are to be followed?

If you have any questions concerning the above comments, I can be reached at (516) 571-3642.

Very Truly Yours,

Steven D. Silvers, P.E. Assistant to the Director

Bureau of Environmental Engineering

cc: Eric Weinstock, C.A. Rich Consultants

tshcnwp

# WORK PLAN

Leaching Pool Contamination Investigation and Clean-Up Westbury, New York

October 1994

Prepared for:

TISHCON CORP. 30 New York Avenue Westbury, N.Y. 11590

Prepared by:

CA Rich Consultants, Inc. 404 Glen Cove Avenue Sea Cliff, N.Y. 11579



CERTIFIED GROUND-WATER AND ENVIRONMENTAL SPECIALISTS
October 27, 1994

Nassau County Department of Health 240 Old Country Road Mineola, New York 11501

Attention: Thomas Norris

Re: Work Plan

Leaching Pool Contamination Investigation and Clean-Up

Westbury, New York

Dear Mr. Norris:

The following Work Plan addresses the investigation and remediation of leaching pools at Tishcon's Westbury facility.

# Understanding of the Current Situation

The TISHCON Corporation facility at 125 State Street has a driveway that is underlain by four leaching pools. An illustration of these pools is included as Figure 1. The Nassau County Department of Health (NCDH) has requested that sediments contaminated with volatile organics & metals be removed from these pools and that the material removed be properly disposed.

During August of 1993, a partial removal of the leaching pool sediments was performed. The removal of contaminated sediments from pool 3 was completed and the results of the end-point samples were acceptable to NCDH. Soil was also removed from pool 1, however, the end-point samples indicate that the compounds chloroform, ethyl benzene, methylene chloride and xylene remained at concentrations above the NCDH action levels. Soil removal from pools 2 and 4 has not been completed.

In a letter dated March 25th, the NCDH requested that Tishcon address the identification and removal of contaminated liquids, sludges and soils from this site. We propose to achieve this through the performance of the following activities:

- sampling and analysis drummed sediments removed from the pools and stored on-site;
- borings to delineate the volume of contaminated sediments remaining in the pools;
- select the most cost-effective facility for proper disposal of the excavated material;
- removal of leaching pool liquids and sediments, as required;
- proper disposal of the removed water and soil; and,
- preparation of a report.

# Scope of Work

# Task 1 - Soil Borings

One (1) soil boring will be performed in leaching pools 1, 2, 4 and distribution box 5 using a Geoprobe (TM) soil sampling device. An initial soil core will be collected at 2 feet below the bottom pool. The soil sample will be retrieved and analyzed in the field using a potable organic vapor meter. This procedure will be continued until no detections are recorded with the field meter. At least one sample from each boring will be placed in a sample bottle and analyzed by a NYS-certified laboratory for VOCs using EPA methods 8010/8020 and for the eight RCRA metals. The results of these samples will be used to determine the depths and volumes of soil for removal.

# Task 2 - Waste Characterization Sampling and Analysis

One (1) composite sample of the water in the 3 pools will be collected and analyzed for VOCs and RCRA metals. This information will be used to determine if the water can be disposed of at the local wastewater treatment plant.

In addition, three samples of the sediments from the bottom of the pools will also be collected.

- One sample will be collected by compositing soil from pools 1 and 2 as these sediments are believed to be similar in nature:
- A second sample will be collected from pool 4; and,
- A third composite sample of the drummed sediments currently staged on the property will also be collected.

These samples will be analyzed for TCLP metals, TCLP VOCs, TCLP SVOCs, pH, flash point and reactivity. Using these results, the most cost-effective, permitted disposal facility will be selected for disposal of these sediments.

### Task 3 - Progress Letter/Report

The results of the borings and the laboratory analysis will be summarized in a letter/report to NCDH. This letter/report will present tables of the results of the laboratory analysis along with the NYSDEC clean up guidance values. The depth of soil that will have to be removed from each pool and the anticipated disposal facilities will also be included.

# Task 4 - Disposal of drummed sediments previously excavated and stored on-site

Numerous 55-gallon drums of sediments excavated in 1993 are currently stored on the property. Based on the results of the waste characterization analysis, a permitted disposal facility will be selected and arrangements for disposal of the drummed sediments will be confirmed.

Using either 20 cubic yard roll-off containers or 30 cubic yard dump trailers, the drummed sediments will be emptied and consolidated for transport to an approved facility. The empty drums will be power washed, crushed and disposed of as scrap metal. Completion of this phase of work will provide for additional space on the property needed to stage equipment for the following work items.

# Task 5 - Clean out of Pools 2, 4, 5 and the backfilled sewer line, (as required)

The bottom of pools 2, 4, 5 (as required based on the sample analysis) and the backfill around the sewer pipe will be excavated. As indicated in the NCDH's March 25, 1994 letter, no action is required at pool 3 at this time. A super sucker will be mobilized to the site to clean out the pools. Soil removed from the pools will be placed directly into either 20 cubic yard roll-off containers or 30 cubic yard dump trailers. Samples of the excavation bottom will be screened on-site during the excavation process using a portable organic vapor meter. One end-point sample will be collected from the bottom of each excavation and analyzed for volatile organics and eight RCRA metals as per the County's request. The pools will be backfilled with clean fill upon completion of the excavation and the excavated material will be transported to a permitted disposal facility with appropriate manifests.

It is necessary to complete Task 5 before beginning Task 6, the removal of leaching pool 1. Leaching pools 1, 2, and 3 are located in the driveway of the facility between pool 1 and State Street. We will need to stage either 20 cubic yard roll-off containers or 30 cubic yard dump trailers over these pools before proceeding with the removal of pool 1.

# Task 6 - Removal of Leaching Pool 1

Previous efforts to clean out pool 1 indicate that soils in the bottom of this pool are chemically cemented and that the depth of contamination probably exceeds the capacity of a super sucker. To clean out this pool we propose to remove or "pull" the existing concrete rings and excavate the underlying soils. The selection of equipment will be based on the results of the soil borings. Generally, if the contamination is less than approximately 22 feet below grade, a track-mounted excavator can be used to perform this task. If the contamination extents to a depth of up to approximately 35 feet below grade, a crane will have to be utilized. This may require the use of 10 foot diameter concrete rings to shore the excavation during the removal process. Should the contamination extend below 35 feet below grade, complete removal is not cost-effective or feasible. Some combination of excavation coupled with an in-situ treatment technique such as a vapor extraction system (VES) should be considered.

Similar to the description outlined in task 4, one (1) end-point sample will be collected from the bottom of each excavation and analyzed for volatile organics and eight RCRA metals as per the County's request. The pools will be backfilled with clean fill upon completion of the excavation and the excavated material will be transported to a permitted disposal facility with appropriate manifests.

# Task 7 - Report Preparation

Once the sampling is completed and the results are received from the laboratory, a report will be prepared. The report will include the following:

- A description of the work performed;
- The results of the soil boring samples;
- The results of the waste characterization samples:
- A record of the volumes of wastes removed and the disposal facilities; and,
- Copies of the waste disposal manifests.

# **Project Schedule**

We propose to perform the scope of work described in this Work Plan following the schedule outlined below.

Work Task	Time Frame
Task 1 - Soil Borings and Task 2 - Waste Characterization Sampling & Analysis	4 weeks
Task 3 - Progress Letter/Report	2 weeks
Task 4 - Disposal of drummed sediments previously excavated and stored on-site	2 weeks
Task 5 - Clean out of Pools 2, 4, 5 and the backfilled sewer line, (as required)	4 weeks
Task 6 - Removal of Leaching Pool 1	4 weeks
Task 7 - Report Preparation	4 weeks
Å	

As indicated above, a period of 5 months is envisioned for the performance of this work. However, to allow for circumstances beyond our control, such as inclement Winter weather and required Agency reviews, we suggest that a period of at least 6 months be set aside for this project.

If you have any questions regarding this Work Plan, please do not hesitate to call our office. We look forward to working with you on this most important project.

Sincerely,

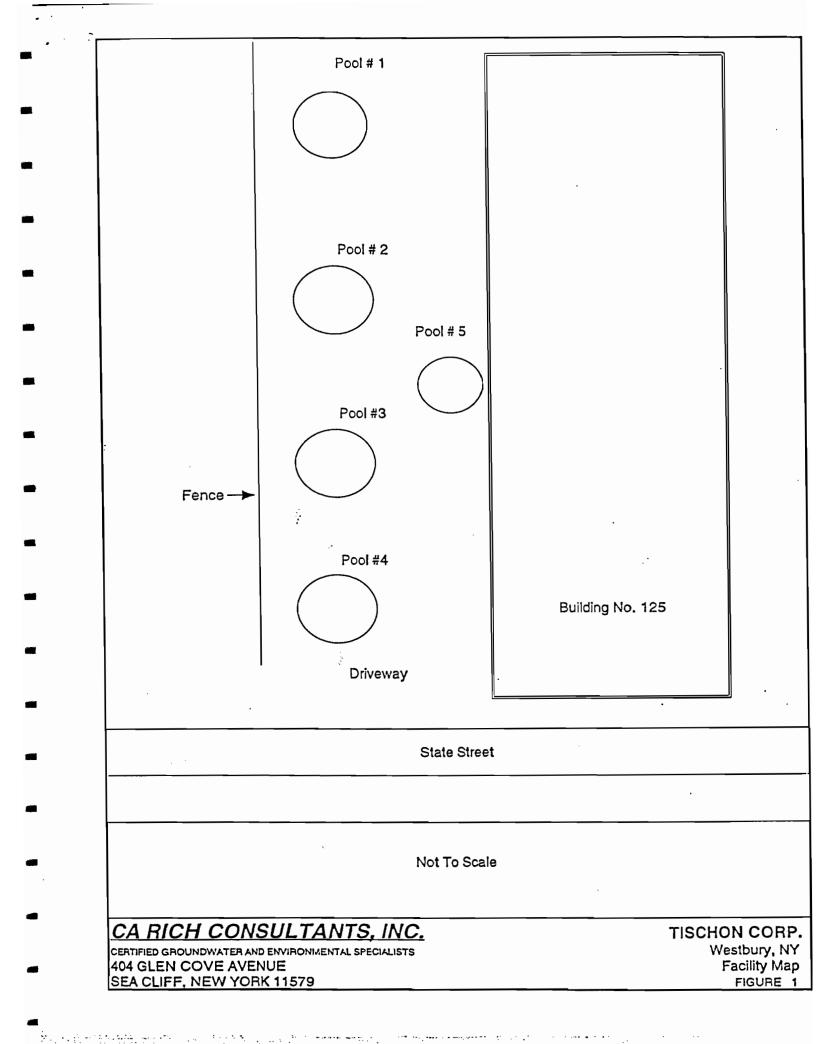
CA RICH CONSULTANTS, INC.

Eric A. Weinstock Project Manager

CC: Michael Padula

EAW:mg Attachments

Epson: C:\Winword\Projects\TISH-WP.doc





CERTIFIED GROUND-WATER AND ENVIRONMENTAL SPECIALISTS

· March 22, 1995

County of Nassau Department of Health 240 Old Country Road Mineola, New York 11501-4250

Attn: Mr. Thomas Norris

Re: Tishcon Corporation

125 State Street

Westbury, New York 11590

Facility Id. #3832

Dear Mr. Norris:

This letter/report summarizes the "Soil Borings" and "Waste Characterization Sampling and Analysis" activities performed at the above location on February 16, 1995. These activities were conducted in accordance with Task 1 and 2 of our October 1994 Work Plan, entitled "Leaching Pool Contamination, Investigation and Clean-up". Only Pools 1, 2, 4 and Distribution Box 5 were investigated. Pool 3 was previously remediated and was not included as a part of this investigation.

# Field Procedures

Each pool was accessed by lifting the grate at the top of the 8 foot diameter concrete ring. Depth measurements were taken to the bottom of the pool as well as water level elevations (Table 1). Also, one (1) composite sample of the water in the pools was collected and analyzed for VOCs and RCRA metals (Table 2).

An initial sediment sample was collected from the bottom of each pool. The samples collected from pools 1 and 2 were composited into one sample because the pools are connected and therefore these sediments are believed to be similar in nature. A composite sample from two 55-gallon drums was also collected as a representative drum sample. The samples were submitted to a New York State certified laboratory and analyzed for TCLP metals, TCLP VOCs, TCLP SVOCs, pH, ignitability, and reactivity (see Table 3 for results).

Subsequently, a soil boring was advanced into leaching pools 1, 2, 4, and distribution box 5 using a Geoprobe<sup>TM</sup> soil boring system and a two-inch diameter core barrel sampling device. An initial sample was collected between 0-2 feet below the bottom of the each pool and screened with a portable organic vapor meter. This procedure was to be continued every two feet until no detections were recorded, whereas an endpoint soil sample was to be collected. However, since detections were not consistently measured, borings were advanced until non-odorous, clean soil was visually observed. Samples were then collected and submitted to the laboratory and analyzed for VOCs using EPA methods 8010/8020 and for RCRA metals (see Table 4 for results). These samples represent the clean endpoint depth of each pool and have been used to determine the depths and volumes of contaminated soils to be removed.

All samples were transported in chilled coolers accompanied with chain-of-custody documentation and trip blanks to NYTEST Environmental, Inc. (Port Washington, NY) for analysis.

والمراب والمراب والمراب والمستحم مستوالا والمستحدث والمراب والمراب والمراب والمراب والمراب والمراب والمرابع

# Analytical Results and Quantity Estimates

Table 1 presents the boring information and estimated quantities of aqueous and non-aqueous materials to be removed and disposed. Pool 1 is 15.5 feet from grade to bottom. Water is present at 11 feet below grade, resulting in 4.5 feet of standing water (1700 gallons). A "clean" endpoint sample (SB-PL1) was collected from 30-32 feet below grade, resulting in a 14.5 feet of contaminated sediment to be removed (27 cubic yards). (SB-PL1 was collected from outside the dimensions of the ring due to bending of the probe rods from lack of side support. The boring was advanced just outside the side wall of the ring. Visually impacted sediment was observed to just above 30 feet).

Pool 2 is 13.5 feet grade to bottom with 6.5 feet of water. Endpoint sample SB-PL2 was collected at 6-8 feet below the bottom of the pool at a depth of 19.5-21.5 feet below grade. This amounts to 2450 gallons of water and 11 cubic yards of contaminated sediment to be removed.

Pool 4 is 15 feet grade to bottom with 10 feet of water. Endpoint sample SB-PL4 was collected at 4-6 feet below the bottom of the pool at a depth of 19-21 feet below grade. This amounts to 3760 gallons of water and 7.5 cubic yards of contaminated sediment.

Distribution Box #5 contained approximately 2 feet of contaminated sediment. Endpoint sample SB-PL5 was collected at 2-4 feet. Approximately 2 cubic yards of contaminated sediment is present.

In all, 47.5 cubic yards of contaminated sediment and 7910 gallons of water are to be removed from the leaching pools. Additionally, seventy-one (71) 55-gallon drums are presently stored on-site and will be disposed of as a listed waste.

Based on the laboratory results, the Belleville Michigan Disposal Facility has agreed to accept the contents of the drums and the contaminated sediments as a listed hazardous material. The Bay Park Water Treatment Facility has agreed to accept the water.

# Schedule

The next work item scheduled for this project will be the proper disposal of the existing 55-gallon drums of sediment presently stored at ground level on the site. We will provide you with a date for the drum removal at least five (5) days in advance. Following the drum removal, a schedule for removal of the pool sediments will be developed.

If you have any questions, please do not hesitate to call the undersigned at 516-674-3889.

Sincerely,

CA RICH CONSULTANTS, INC.

George A. Tyers
Project Hydrogeologis

Carry 1

Eric A. Weinstock

Associate Hydrogeologist

cc: M. Padula, Tishcon Corp. GAT, EAW:gt Attachments

TABLE 1 Summary of Borings Tishcon Corporation Westbury, New York

Pool ID	Pool 1	Pool 2	Pool 4	Dist. Box 5	Totals
Initial depth from top of concrete ring to bottom of pool	15.5 ft.	13.5 ft.	15 ft.	N/A	N/A
depth of water in pool	4.5 ft.	6.5 ft.	10 ft.	N/A	N/A
depth interval of endpoint sample (from bottom of pool)	15-17 ft.	6-8 ft.	4-6 ft.	2-4 ft.	N/A
feet of contaminated soil to be removed	14.5	6 ft.	4 ft.	2 ft.	N/A
quantity of soil to be removed	27 yd³	11 yd³	7.5 yd³	2 yd³	47.5 yd³
quantity of water	1700 gal.	2450 gal.	3760 gal.	None	7910 gal.
Depth Interval*	Organic Vapor	Organic Vapor	Organic Vapor	Organic Vapor	
0-2	ND	<1 ppm	ND	4 ppm	
2-4	ND	N/A	ND	ND↔	
4-6	N/A	ND	ND**		
6-8	N/A	ND**			
8-10	ND .				
14.5-16.5	ND**				

ND - None Decleted

N/A • Not Available

Depth in feet below pool bottom

Sample sent to laboratory for analysis

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS Composite Water Sample - Pools 1, 2 and 4 Tishcon Corporation Westbury, New York

Sample ID	SW-124	NYSDEC
Location	Pools 1,2&4	Groundwater Standard
Date	2/16/95	
Matrix	Water	
VOLATILES (ug/l)		
Chloromethane	1.0U	5
Bromomethane	1.0U	
Vinyl Chloride	1.0U	5 2 5 5 5 5 5 7
Chloroethane	1.0U	5
Methylene Chloride	6.8	5
1,1-Dichloroethene	1.0U	, 5
1,1-Dichloroethane	4.2	5
1,2-Dichloroethene (trans)	1.0U	5
Chloroform	1.0U	7
1,2-Dichloroethane	1.0U	5
1,1,1-Trichloroethane Carbon Tetrachloride	0.7J	5
Bromodichloromethane	1.0U	5
1,2-Dichloropropane	1.0U	50
cis-1,3-Dichloropropene	1.00	5
Trichloroethene	1.0U	5
Dibromochloromethane	1.0U 1.0U	5
1,1,2-Trichloroethane	1.00	50 5
Benzene	1.00	0.7
trans-1,3-Dichloropropene	1.00	5
Tetrachloroethene	1.00	
1,1,2,2-Tetrachloroethane	7 1.0U	5
Toluene	1.0U	. 5
Chlorobenzene	1.0U	. 5
Ethylbenzene	1.0U	5
Xylene(totat)	1.0U	5
Dichlorodiflouromethane	1.0U	5 5 5 5 5 5 5
Trichloroflouromethane	1.0U	
1,2-Dichlorobenzene	1.0U	4.7
1,3-Dichlorobenzene	1.0U	5
1,4-Dichlorobenzene	1.0U	5
Bromoform	į 1.0U	50
INORGANICS (ug/l)		
Arsenic	5.0 <b>U</b>	25
Barium	71.0B	1000
Cadmium	2.0U	10
Chromium	5.00	50
Lead	13.9	25
Mercury	· 0.20U	2
Selenium	5.0U	10
Codes: U - This analyte was r	6.0U	50

Codes: U - This analyte was not detected in the sample or below blank/method limit. The number is the minimum detected limits for the sample.

J - Indicates an estimated volume.

B - Sample value greater than instrument Detection Limit, but less than reporting limit.

TABLE 3 - SUMMARY OF ANALYTICAL RESULTS Waste Characterization Samples Tishcon Corporation Westbury, New York

Sample ID	WCPL-12	WCPL-4	DRUM1	Hazardous
Location	Pools 182	Pool 4	55-gal, drum	Wasie
Depth	0-2 ft.	0-2 H.	N/A	Regulatory
Date	2/15/95	2/16/95	2/16/95	Levels
pH	7.17	7.39	7.25	
Corresivity, inch/yr.	0.01 <b>U</b>	0.01U	0.01U	
Cyanide, Reactive, ppm	1 <b>U</b>	10	1 <b>U</b>	
Ignitability, degrees F	212E	212E	212E	
Sulfide, Reactive, ppm	1U	1U	1U	
VOLATILES (mg/l)				
Vinyl Chloride	0.05 <b>U</b>	0.05U	0.05 <b>U</b>	0.2
1,1-Dichloroethene	0.05U	0.05U	0.05U	0.7
Chloroform	0.05U	0.05U	0.05U	6.0
1,2-Dichloroethane	0.05U	0.05U	0.05U	0.5
2-Butanone	0.05U	0.05U	0.16	200
Carbon Tetrachloride	0.05U	0.05U	0.05 <b>U</b>	0.5
Trichloroethene	0.05U	0.05U	0.02J	0.5
Benzene	0.05U	0.05U	0.05U	0.5
Tetrachloroethene	0.05U	0.05U	0.01J	0.7
Chlorobenzene	0.05U	0.05U	0.05U	100.0
SEMI-VOLATILES (mg/l)				
2-Methylphenol	0.04U	0.04U	0.401	
3+4-methylphenol	0.03J	U80.0	0.40U	200
2,4-Dinitrotoluene	0.04U	0.04U	2.30D 0.40U	200
Hexachlorobenzene	0.04U	0.04U	0.40U	0.13
Hexachlorobutadiene	0.04U	0.04U	0.40U	0.13
Hexachloroethane	0.04U	0.04U	0.40U	0.5 3.0
Nitrobenzene	0.04U	0.04U	0.40U	
Pentachlorophenol	0.20U	0.20U	2.000	2.0
Pyridine	0.04U	0.04U	0.40U	100.0 5.0
2,4,5-Trichlorophenol	0.04U	0.04U	0.40U	400.0
2,4,6-Trichlorophenol	0.04U	0.04U	0.40U	2.0
1,4-Dichlorobenzene	0.04U	0.04U	0.40U	7.5
INORGANICS (mg/l)				
Arsenic	0.182600	0.046000U	0.193210	5.0
Barium	0.406220	0.376860	0.239820	100.0
Cadmium	0.002000U	0.002000U ·	0.002000U	1.0
Chromium	0.016010	0.014660	0.014710	5.0
Lead	0.030000U	0.517720	0.030000U	5.0
Mercury Selenium	0.000430 0.076000U	0.000200U	0.000255	0.2
Silver	0.0060000	0.076000U 0.005000U	0.076000U	1.0
Codes: U - This analyte was not dete	ded in the commit	0.0050000	U0000000	5.0

Codes: U - This analyte was not detected in the sample or below blank/method limit. The number is the minimum detected limits for the sample.

J - Indicates an estimated volume.

E - Above method limit.

TABLE 4 - SUMMARY OF ANALYTICAL RESULTS Soil Boring Endpoint Samples Tishcon Corporation Westbury, New York

Sample ID	SB-PL1	SB-PL2	SB-PL4	SB-PL5	NYSDEC
Location	Pool 1	Pool 2	Pool 4	Pool 5	Soil Clean-up
Date	2/16/95	2/15/95	2/16/95	2115195	Objectives
Matrix VOLATILES (ug/l)	Soil	FoR	Soil	Fo2	(mg/l)
Chioromethane	1.0U	1.1U	1.1U	4.011	
Bromomethane	1.0U	1.1U	1.1U	1.2U 1.2U	
Vinyl Chloride	1.0U	1.1U	1.1U	1.2U 1.2U	0.2
Chloroethane	1.00	1.1U	1.10	1.2U	1.9
Methylene Chloride	1.0U	1.1U	1.10	1.2U	0.1
1,1-Dichloroethene	1.0U	1.10	1.10	1.20	0.1
1,1-Dichloroethane	1.0U	1.10	1.10	1.2U	0.4
1,2-Dichloroethene (trans)	1.0U	1.1U	1.1U	1.2U	0.3
Chloroform	1.0U	1.1U	1.1U	1.2U	0.3
1,2-Dichloroethane	1.0U	1.1U	1.1U	1.2U	0.1
1,1,1-Trichloroethane	1.0U	1.1U	1.1U	1.2U	0.8
Carbon Tetrachloride	1.0U	1.1U	1.1U	1.2U	0.6
Bromodichloromethane	1.0U	1.1U	1.1U	1.2U	
1,2-Dichloropropane	1.0U	1.1U	1.1U	1.2U	
cis-1,3-Dichloropropene	1.0U	1.1U	1.1U	1.2U	
Trichloroethene	1.0U	1.1U	1.1U	1.2U	0.7
Dibromochloromethane	1.0U	1.1U	1.1U	1.2U	N/A
1,1,2-Trichloroethane	1.0U	· 1.1U	1.1U	1.2U	
Benzene	1.0U	1.1U	1.1U	1.2U	0.06
trans-1,3-Dichloropropene	1.0U	1.1U	1.1U	1.2U	1
Tetrachloroethene	1.0U	1.1U	1.1U	1.2U	1.4
1,1,2,2-Tetrachloroethane	1.0U	1.1U	1.1U	1.2U	0.6
Toluene	1.00	1.1U	1.1U	1.2U	1.5
Chlorobenzene	1.00	1.1U	1.10	1.2U	1.7
Ethylbenzene Xylene(total)	1.0U	1.10	1.1U	1.2U	5.5
Dichlorodiflouromethane	1.0U 1.0U	1.10	1.1U	1.2U	1.2
Trichloroflouromethane	1.0U	1.10	1.1U	1.2U	
1,2-Dichlorobenzene	1.0U 1.0U	1.1U 1.1U	1.1U 1.1U	1.2U	7.0
1,3-Dichlorobenzene	1.0U	1.1U 1.1U	1.1U	1.2U 1.2U	7.9 1.6
1,4-Dichlorobenzene	1.00	1.1U	1.1U	1.2U 1.2U	8.5
Bromoform	1.00	1.1U	1.1U	1.2U 1.2U	6.5
	1.30	10	1.10	1.20	
INORGANICS (ug/l)					
Arsenic	1.3	0.48U	0.603	1.3	7.5 or SB
Barium	3.2B	2.6B	4.5B	7.5B	300 or SB
Cadmium	0.20 <b>U</b>	0.21U	0.19U	0.22U	1 or SB
Chromium	4.9	2.6	3.1	5.2	10 or SB
Lead	3.0U	3.2U	2.8U	3.3U	SB
Mercury	0.10U	0.11U	0.11U	0.12 <b>U</b>	0.1
Selenium	0.50U	0.48U	0.57U	0.55 <b>U</b>	2 or SB
Codes: U - This analyse was r	0.60U	0.63U	' 0.55U_	0.65 <b>U</b>	SB

Codes: U - This analyle was not detected in the sample or below blank/method limit. The number

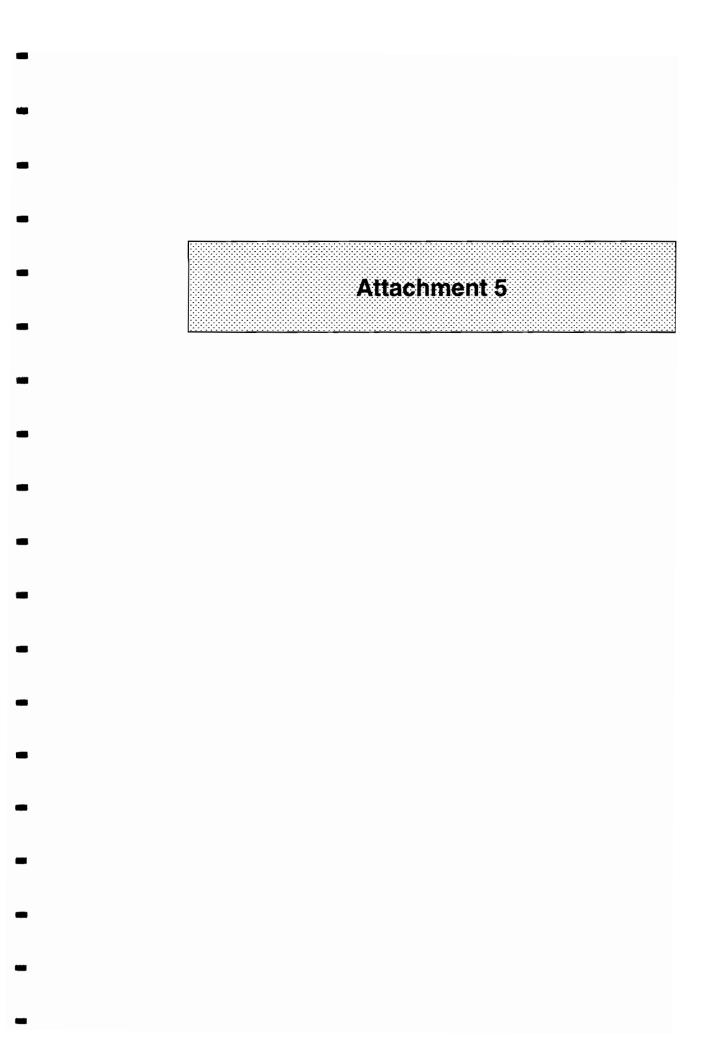
is the minimum detected limits for the sample.

J - Indicates an estimated volume. E - Above method limit.

B - Sample value greater than Instrument Detection Limit, but less than reporting limit.

SB - Site Background

N/A - Not Available





CERTIFIED GROUND-WATER AND ENVIRONMENTAL SPECIALISTS

# QUALITY ASSURANCE and DATA USABILITY REPORT SOIL and GROUNDWATER SAMPLES

Tishcon Corporation 125 State Street, Westbury, New York

# 1.0 INTRODUCTION

This Quality Assurance and Data Usability Report reviews field and laboratory data obtained during the collection of soil and groundwater samples in August 1996 at the Tishcon Corporation site located at 125 State Street, Westbury, New York. This report presents a summary of the results of performance and system audits, an assessment of data accuracy, precision and completeness, and the analytical data validation report. This report incorporates the Data Quality Objectives (DQO's) outlined in the Quality Assurance Project Plan (QAPjP) prepared for the Tishcon Corporation site approved by NYSDEC and dated December 1995.

All soil samples collected were analyzed for Volatile Organic Compounds (VOCs-NYSDOH Method 91-1) and all groundwater samples collected were analyzed for Volatile Organic Compounds (EPA Method 8240). In addition, chemical analysis of field and trip blanks, matrix spike/matrix spike duplicates and sample duplicates was conducted as required by the QAPjP. All chemical analyses were conducted by Nytest Environmental Laboratories, Inc. (NEI) of Port Washington, New York.

# 2.0 QUALITY ASSURANCE REVIEW

The following sections summarize the results of performance and system audits, an assessment of data accuracy, precision and completeness, and the analytical data validation report. After consideration of the following items, this quality assurance review has determined that all of the data generated is valid and usable.

# 2.1 Performance and System Audits

Performance and system audits were completed in the field and at the laboratory during the conductance of the Remedial Investigation Work Plan. Field audits were conducted by the Project Manager and/or the Quality Assurance Officer or their designee to ensure that DQO's were adhered to during all data collection activities.

The field audits were conducted to verify that procedures conducted in the field were completed in accordance with established protocols presented in the Remedial Investigation Work Plan and to identify any deficiencies that would potentially impact data quality. The completed field audits did not identify deficiencies that could potentially impact data quality. Copies of applicable Field Quality Control Check forms are included in Attachment A. Laboratory audits were performed internally by NEI in accordance with NYSDEC ASP (December 1991) deliverables. Any deficiencies were identified either in the NEI's case narrative or through the data validation procedure are discussed further in Section 2.3

### 2.2 Data Assessment

Field and analytical data generated during the Remediation Work Plan field activities was evaluated with respect to precision, accuracy and completeness.

# 2.2.1 Precision

- Field Field precision was controlled through the use of properly calibrated meters and duplicate field measurements. Review of daily log book entries and field quality control checks did not indicate evidence of field performance that would compromise the usability of field measurement results.
- Laboratory Measurement of precision was assessed through the collection of field duplicated samples. Duplicate sampling was conducted on B-3 (soil) and GW2 (groundwater). Data precision can be calculated using the following relative percent difference (RPD) equation:

$$RPD = (A-B)$$
 x 100  $(A+B)/2$ 

where:

A = analytical result of one of the duplicated measurements.

B = analytical result of the second measurement.

Based on the results of data validation, the following was observed:

 Good precision was observed for detected VOCs in the soil and groundwater field duplicate pairs.

# 2.2.2 Accuracy

- **Field** Field accuracy was controlled through the use of properly calibrated meters and adherence to established protocols. Review of daily log book entries and field quality control checks did not indicate evidence of field performance that would compromise the usability of field measurement results.
- Laboratory Laboratory accuracy was assessed through the use of matrix spike (MS) and matrix spike duplicate (MSD) samples associated with B-2 (20-22) and GW2Dup. Accuracy is calculated as a percent recovery as follows:

Accuracy = 
$$\frac{A-X}{B} \times 100$$

where: A

A = Value measured in spiked sample.

X = Value measured in original sample.

B = True value of the amount added to sample.

Based on the results of data validation, the following was observed:

 Percent recoveries for VOC spike compounds fell within QC limits in the MS/MSD samples.

# 2.2.3 Completeness

• Field/Laboratory- Field/laboratory completeness was measured by comparing the number of samples collected and analyzed to the proposed number indicated in Table 1 of the QAPjP and is calculated by the following equation:

Completeness = Number of samples collected/analyzed x 100
Proposed Number of samples

The number of soil samples collected and analyzed was equal to the number of proposed samples resulting in a 100% completion of the soil sampling program.

The number of groundwater samples collected and analyzed was equal to the number of proposed samples resulting in a 100% completion of the groundwater sampling program.

# 2.3 Data Validation

The data validation review was conducted by Premier Environmental Services according to the guidelines in the USEPA Contract Laboratory Program National Functional Guidelines, February 1994 and the NY DEC Analytical Services Protocol, December 1991, ASP Method 91-1. A copy of the data validation report is included in Attachment B and summarized below.

Based on the review and interpretation of quality control results, the data reviewer offered data qualifiers. The data qualifications allow the data end-user to best understand the usability of the analysis results. Tables 1 and 2 present the analytical data after validation.

# 2.3.1 Organic Data

With respect to data usability, the principal areas identified by the data reviewer was limited to blank contamination and calibration issues. Deficiencies identified by the data reviewer were related to the detection of methylene chloride and acetone, which have been qualified due to their occurrence in trip and field blanks at similar concentrations detected in actual samples. Therefore the low level detections of methylene chloride and acetone in samples is considered to be a result laboratory introduced contamination.

# 3.0 DATA USABILITY

Overall, the field and laboratory data generated during this aspect of the Remedial Investigative Work completed at the Tishcon Corporation site is considered acceptable for use. Review of log book entries, equipment calibration/maintenance records, results of the field quality control checks, and the data validation process did <u>not</u> indicate reasons which suggest that the data obtained is unreliable and should be rejected.

Furthermore, no data was rejected during the rigorous validation process completed by Premier Environmental Services. Some of the data have been qualified to account for interpretation of the quality control results. However, the qualified data does not impact the usability of the analytical results. Therefore, CA RICH believes that the use of the analytical data is acceptable after consideration and understanding of the data qualifiers.

				Summa After Tishcon,	Summary of Soil Analysis After Data Validation shcon, State Street Facilif	ry of Soil Analysis Data Validation State Street Facility					
	Sample ID Depth (bls)	<b>SS-1</b> 8/23/96	<b>B1</b> (10-12) 8/23/96	<b>B-1</b> (20-22) 8/23/96	<b>B-1</b> (30-32) 8/23/96	<b>B-2</b> (10-12) 8/26/96	<b>B-2</b> (20-22) 8/26/96	<b>B-2</b> (30-32) 8/26/96	<b>B-2</b> (40-42) 8/26/96	<b>B-2</b> (50-52) 8/26/96	NYSDEC TAGM * Cleanup Objectives
Volatile Organics (NYSDOH Method 91	Method 91-1)										
	Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Chloromethane		1 :	10 0	10 0	10 U	10 U	10 U	10 U	12 U	11 02	Ž
Bromomethane Vipyl chloride		⊃ ; = ;	0 5	) 10 10 10	으 :	10 10 10	0 0 0 1 1	10 C	12 0	= : 3 :	2
Viiiyi Ciiolide Chloroethane		> <b>=</b>	2 5	2 5	0 5	0 5	0 5	0 5	Q. ;	3 :	200
Methylene chloride		- <b>1</b>	10 0	0 0	0 0 4 U.U 4	0 0 4	0 0 0	0 0 1	0 21	00 1	1,900
Acetone	_	10 7	10 UJ	10 UJ	10 UU	10 UJ	10 UJ	10 UJ	12 UJ	; ; ; ; ;	200
Carbon Disulfide		11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U	1 3	2,700
1,1-Dichloroethene		11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	400
1,1-Dichloroethane		1	10 U	10 U	10 U	10 U	10 U	10 U	12 U	<b>11</b>	200
1,2- Dichloroethene (total)		1	10 0	10 U	10 U	10 U	10 U	10 U	12 U	1	300
Chlorotorm 1.2 Dicklosoothese		⊃ : = ;	10 5	10 -	10 0	10 U	10 U	10 0	12 U		300
r,z-Dichioroethane 2-Butanone	_	> = <del>=</del>	2 5	0 =	0 5	0 0 0	⊃ = 0	0 0 7	120	3 3	100
1,1,1-Trichloroethane		5 S	5 0	5 5	2 0	2 0	2 2	2 0	7 1	3 =	008
Carbon Tetrachloride		11 0	10 U	10 U	10 0	10 U	10 U	10 U	12 U	3 3	009
Bromodichloromethane		11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11	N
1,2-Dichloropropane		<u>=</u>	10 U	10 U	10 U	10 U	10 U	10 U	12 U	<b>11</b> U	Ž
cis-1,3-Dichloropropene	-	⊃ ;	0 5	10 -	10 0	O €	∩ ;	10 U	12 U	<b>:</b> :	2
Dibromochloromethano		- ;	0 0	0 5	0 0	0 01	0 01	001	12.0	3 :	700
1.1.2-Trichloroethane		- = =	2 5	2 5	5 5	0 =	0 5	0 =	12 C	3 =	2 2
Benzene		: =	0 0	5 5	5 5	5 5	2 0	2 5	5 5		2 6
trans-1,3-Dichloropropene	-	11 0	10 U	10 U	10 U	10 U	10 U	10 0	12 U		2 8
Bromoform		11 N	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 UJ	N
4-Methyl-2-Pentanone		11 0	10 U	10 U	10 U	10 U	10 U	10 U	12 U	11 00	1,000
Z-Hexanone		)  - 	0 0 1	10 :	10	10 U	1 0 1	10 U	12 U		N
l etrachloroethene			0 F	10 0	⊃ : ≎ ;	⊃ :	그 0 :	10 t	15 U	1 5	1,400
1,1,2,2-1ettacillotoetilane Tolijene		) = = ;	2 5		0 0	0 5	0 0 0	0 5	12 0	3 5	600
Chlorobenzene			2 5	2 5	2 4	o =	2 ;	0 :	0 2 7	3 :	1,500
Ethylbenzene			2 0	2 5	2 5	2 5	2 5	2 5	120	3 =	00/,1
Styrene	_		100	100	10 01	10 01	100	2 0	1 2 1	3 = =	22,5
Xylene (total)		11 U	10 U	10 U	10 U	10 U	10 U	10 U	12 U		1,200
Notes: ug/Kg: micrograms per Kilogram	HE HE							* NYSDEC	Technical a	nd Adminis	* NYSDEC Technical and Administrative Guidence
U: compound not detected at or above detection limit. Number represents compound detection limit.  J: estimated concentration.  NV: no value is renorted.	or above detectio	n limit. N	lumber rep	resents co	р риподш	etection lim	it	Memorand Objectives	Memorandum: Determination of Cleanup Objectives and Cleanup Levels; 1/24/96	ination of u	Cleanup 1/24/96
יייי בעריייי בערייייי											

					After Data Tishcon, State	-	Soll Analysis Validation Street Facility						
	Sample ID Depth (bls) Date Sampled	<b>B-3</b> (10-12) 8/26/96	<b>B-3</b> (20-22) 8/26/96	<b>B-3</b> (30-32)	<b>B-3</b> (40-42)	<b>B3Dup</b> (40-42)	<b>B-3</b> (50-52)	<b>B-4</b> (15-17)	<b>B-4</b> (20-22)	<b>B-4</b> (25-27)	<b>B-4</b> (35-37)	<b>FBS</b>	NYSDEC TAGM * Cleanup Objectives
Volatile Organics (NYSDOH Method 91-1)	Method 91-1)	N/Kg	10/Kg	2 X/C	10/Kg	ν/Kα	0//01	5 X/5	0 X/011	0/K2	ν/κα	, K	0X/011
Chloromethane	2	10 U	10 U	10 OF	11 0	12 U	11 C	10 1	1 -	10 1	11 0	10 1	N N
Bromomethane		10 U	10 0	10 U	1 0	12 O	1 0	10 0	110	10 0	1 0	10 0	2
Vinyl chloride		10 U	10 U	10 U	11 0	12 U	1 :	10 U	1 0	10 U	11 0	10 U	200
Chloroethane		10 U	10 U	10 U	11 U	12 U	11 U	10 U	11 U	10 U	11 N	10 U	1,900
Methylene chloride		4 W	8 0	4 U	5 U	21 U	5 U	4 UJ	4 UJ	4 UJ	6 UJ	2 J	100
Acetone		10 UJ	10 UJ	10 UJ	4 ک	۲ ک	۲ ک	ე ვ	11 00	P 9	15 J	10 U	200
Carbon Disulfide		10 U	10 N	10 O	11 0	12 U	11 0	10 O	11 0	10 U	11 0	10 U	2,700
1,1-Dichloroethene		10 U	우 : :	0 0 1	T :	12 U	T :	10 E	Ţ:	10 0	T :	우 :	400
1,1-Dichloroethane		10 C	O 0:	10 0	⊃ : <del>=</del> :	15 0	)  -  -	O :	⊃ : = :	다 우	)  -  -	Q :	200
1,2- Dichloroethene (total)		10 0	10 C	10 0	<b>∵</b> :	12 U		10 0		10 U		10 0	300
Cilloratorm 1 3-Dichloroothana		0 5	0 0	0 0	) [ ;	12.0		0 0 0		0 0	) : : :	0 0 0	300
1,z-Dicinologuiane 2,Rutanone		2 5	2 5	2 5	) = = ;	0 2 5	> = = <b>;</b>	2 5	> = = ;	2 5	> = = <b>;</b>	2 5	000
1.1.1-Trichloroethane		2 0	2 0	2 2	= =	12 0	= =	2 5	= =	2 5	= <del>=</del>	2 5	008
Carbon Tetrachloride		10 U	10 U	10 U	11 0	12 U	1 0	10 U		10 U	1 0	10 0	009
Bromodichloromethane		10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
1,2-Dichloropropane		10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	N
cis-1,3-Dichloropropene		10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	Ž
Trichloroethene		10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	700
Dibromochloromethane		10 U	10 U	10 U	11 0	12 U	11 0	10 U	11 0	10 U	11 0	10 U	2
1,1,2-Trichloroethane		10 0	10 U	10 U		12 U		10 N		10 U		10 U	2
Benzene		10 U	10 U	10 U		12 U	1	10 0		10 U		10 U	09
trans-1,3-Dichloropropene		0 S	구 우 :	10 :		15 U		10 :		10 C		그 : 우 :	2
Bromotorm		10 0	10 0	10 0	- -	15 N	=	10 0		10 0		10 0	2
4-Methyl-2-Pentanone		10 0	0 0	10 0		12 0	<b>=</b> :	10 :		10 0		10 0	1,000
Z-Hexanone		10 0	0 0	10 0	) 	12 U	_ : _ :	10 0		10 0		10 :	≥ .
letrachloroethene		10 0	10 O	10 O	11 0	12 N	11 0	10 U		10 U		10 C	1,400
1,1,2,2-Tetrachloroethane		10 U	10 C	10 C	_ _	12 U	11 0	10 0		10 U	11 0	10 U	009
Toluene		10 U	10 U	10 U	11 0		11 0	10 U	11 0	10 U	11 0	10 U	1,500
Chlorobenzene		10 U	10 U	10 U	11 N	12 U	11 0	10 U		10 U	11 0	10 U	1,700
Ethylbenzene		10 U	10 U	10 U	11 0		11 0	10 U		10 U	11 0	10 U	5,500
Styrene				10 U	11 U	12 U	110	10 U	10	10 U	11 0	10 U	N
Xylene (total)		10 U	10 U	10 U	11 0	12 U	<b>11</b> U	10 U	11 0	10 U	<b>11</b> 0	10 U	1,200
Notes:													:
ugkkg: micrograms per Kilogram U: compound not defected at or above detection limit. Number represents compound detection limit	m or above detectiv	A timit								NYSDEC	Technicai a	па Аатіп.	NYSDEC Technical and Administrative Guidence
	מתחתם תכופהיי		imper repr	moo suusse	nound dete	oction limit				Memorand	Memorandum: Determination of Cleanup	ination of	Cleanin

Page 2 of 2

Notes: ug/Kg: mi U: compo

J: estimated concentration.
NV: no value is reported.

					TABLE 2					
				Summary o After Tishcon,	ary of Groundwater Analy After Data Validation ncon, State Street Facility	Summary of Groundwater Analysis After Data Validation Tishcon, State Street Facility				
Sample ID  Date Sampled	<b>GW1</b> 8/26/96	<b>GW2</b> 8/26/96	GW2Dup 8/26/96	TB 8/26/96	<b>FB</b> 8/26/96	N11842 8/22/96	UN11 8/22/96	<b>TB82</b> 1 8/22/96	<b>FB822</b> 8/22/96	NYSDEC TOGS*
Volatile Organics (EPA Method 8240)										
Units	7/6n	√g/L	√gn	√Sn	7/6n	√g/L	ng/L	ng/L	Ng/L	J/6n
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	Ž
Bromomethane Vinal phonia	우 c 그 -	0 ; O :	0 0 1	10 U	10 U	10 U	10 U	10 U	10 U	2
Chloroethane		10 0	10 0	10 U	10 U	10 U	10 U	10 U	J 0 1	2
Methylene chloride	101	0 0 0	0 0	10 U	10 U	0 0 = 0 = 0	0 0 =	0 0 -	으 -	ro n
Acetone	5 5 5 0	5 0	2 0	10 U	100	5 5	2 2	9.0	200	ט גר
Carbon Disulfide	10 U	10 U	10 U	10 U	0 0 0	10 U	5 0 0	0 01	5 6	2
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	S
1,1-Dichloroethane	200	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U	2
1,2- Dichloroethene (total)	92	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2
1 2-Dichloroethana	0 5	0 0	100	10 U	10 0	10 U	10 C	10 U	O :	7
2-Butanone	0 0	0 0 0	2 5	0 =	2 5	0 5	0 =	0 5	0 5	ς <u>γ</u>
1,1,1-Trichloroethane	61	10 C	0 0	0 01	2 0	5 19	0 0	2 5	5 5	<u>}</u> ‹‹
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 C	10 U	10 U	10 C	) ) )	ດທ
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	S
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22
Dibromochloromethane	36	0 0 0	10 0	0 0 =	0 5	4	ე წ	0 0 1 1	0 0 0	ω ü
1,1,2-Trichloroethane	5 5	2 5	2 5	5 5	0 =	5 5	0 =	0 5	0 5	20
Benzene	5 0	0 0	2 0	0 0	0 0	5 5	2 0	5 5	2 5	0 0
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U	10 U	5 Q	10 U	5 P	
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	ž
Z-Hexanone Tetrachloroothene	10 UJ	10 UJ	10 10 10 10	10 UJ	10 U.	10 U	10 U	10 U	10 U	20
1.1.2.2-Tetrachloroethane	100	2 5	2 5	2 5	0 5	2 5	40 6	0 0 0	0 5	ın ı
Toluene	10 U	0 0	5 5	10 U	0 0	0 0	0 0	5 5	5 5	ח עמ
Chlorobenzene	10 U	10 U	10 U	10 U	10 O	10 U	5 0 0	0 0 0	0 0 0	ດທ
Ethylbenzene	10 U	10 U	10 U	10 U	10 O	10 U	10 U	10 U	) O	o O
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	S
Notes:										
ug/L: micrograms per liter						* NYSDEC Te	chnical and O	perational Guid	* NYSDEC Technical and Operational Guidance Series (1.1.1)	1.1)
U: compound not detected at or above detection limit. Number represents compound detection limit.	ction limit. N	umber represe	nts compound	d detection lin	nit.	Ambient V	Vater Quality	Standards and	Ambient Water Quality Standards and Guidance Values; 10-22-93	ies; 10-22-93
Inditional represents estimated concentration (below reportable limits)      INV: no value is reported	л (вегом гер	опаріе іітіts)					: concentratior	n exceeds NYS,	: concentration exceeds NYSDEC TOGS levels	SI6
Prepared by CA RICH CONSULTANTS, INC.	VC.						Jsers\Chris\Gone\T	Users\Chris\Gone\Tables\Tishcon\State St.\8240GWA.D.V	St./8240GWA.D.V.	

# 4.0 CERTIFICATION

I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, that the information submitted in this Report is true, accurate and complete.

Respectfully Submitted,

CA RICH CONSULTANTS, INC.

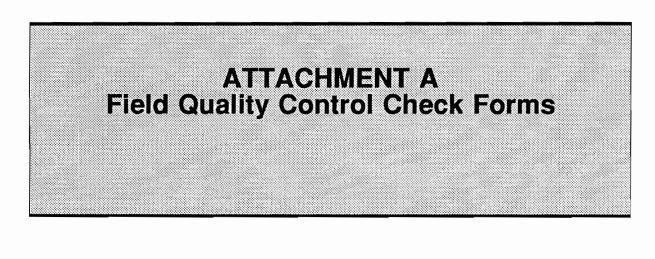
Steven Sobstyl

**Quality Assurance Officer** 

Eric A. Weinstock, CPG

Project Manager

Users:Steve/Projects/Active/Tishcon-Q.A./Tishcon@QA Rpt.State St.



# CA RICH CONSULTANTS, INC. Field Quality Control Checks

Date:	4/23/94	By:	Steven	Mossoh.	
	<del></del>	<i>,</i> —			_

Check List

Were the following performed (Yes or No)

Field Measurements - To verify the quality of data collected using field instrumentation, at least one duplicate measurement will be obtained per day and reported for all field analytical measurements.

Equipment Calibration - Meters should be calibrated within 24hours prior to use.

Equipment Decon - Sampling equipment should be deconed as stated in the Sampling & Analysis Plan

Yes Yes Yes

Sample Containers - Certified-clean sample containers in accordance with Exhibit I of the NYSDEC ASP (Dec. 1991) will be supplied by the NEI.

Field Duplicates - Field duplicates will be collected to check reproducibility of the sampling methods. Field duplicates will be prepared as discussed in the FSP. In general, field duplicates will be analyzed at a five percent frequency (every 20 samples). Table 1 provides an estimated number of field duplicates for each applicable parameter and matrix.

Field Rinse Blanks - Field rinse blanks are used to monitor the cleanliness of the sampling equipment and the effectiveness of the cleaning procedures. Laboratory-demonstrated, analyte-free water shall be passed through or over the sampling equipment being used on that particular day. The water shall be collected in the laboratorycleaned containers at a frequency of one per sampling day and analyzed for the same parameters as the field samples. provides an estimated number of rinse blanks collected during the field work.

Trip Blanks - Trip blanks will be used to assess whether site samples have been exposed to non-site-related volatile constituents during storage and transport. Trip blanks will be analyzed at a frequency of once per day, and will be analyzed for volatile organic constituents. A trip blank will consist of a container filled with analytefree water (supplied by the laboratory) which remains unopened with field samples throughout the sampling event. Trip blanks will only be analyzed for volatile organic constituents. Table 1 provides an estimated number of trip blanks collected for each matrix and parameter during the field activities.

# CA RICH CONSULTANTS, INC. Field Quality Control Checks

Date:	1/22/96	<b>D</b> O	steve Marich	
Date	01.	Бу		_

Check List

Were the following performed (Yes or No)

• Field Measurements - To verify the quality of data collected using field instrumentation, at least one duplicate measurement will be obtained per day and reported for all field analytical measurements.

Ky

 Equipment Calibration - Meters should be calibrated within 24hours prior to use. Yes

• Equipment Decon - Sampling equipment should be deconed as stated in the Sampling & Analysis Plan

X23

 Sample Containers - Certified-clean sample containers in accordance with Exhibit I of the NYSDEC ASP (Dec. 1991) will be supplied by the NEI. Yes

 Field Duplicates - Field duplicates will be collected to check reproducibility of the sampling methods. Field duplicates will be prepared as discussed in the FSP. In general, field duplicates will be analyzed at a five percent frequency (every 20 samples). Table 1 provides an estimated number of field duplicates for each applicable parameter and matrix.



• Field Rinse Blanks - Field rinse blanks are used to monitor the cleanliness of the sampling equipment and the effectiveness of the cleaning procedures. Laboratory-demonstrated, analyte-free water shall be passed through or over the sampling equipment being used on that particular day. The water shall be collected in the laboratory-cleaned containers at a frequency of one per sampling day and analyzed for the same parameters as the field samples. Table 1 provides an estimated number of rinse blanks collected during the field work.

Yes

• Trip Blanks - Trip blanks will be used to assess whether site samples have been exposed to non-site-related volatile constituents during storage and transport. Trip blanks will be analyzed at a frequency of once per day, and will be analyzed for volatile organic constituents. A trip blank will consist of a container filled with analyte-free water (supplied by the laboratory) which remains unopened with field samples throughout the sampling event. Trip blanks will only be analyzed for volatile organic constituents. Table 1 provides an estimated number of trip blanks collected for each matrix and parameter during the field activities.

X15

# CA RICH CONSULTANTS, INC. Field Quality Control Checks

Dat	te: <u> </u>	Ву:	The	Messivent 3
Ch	eck List		Were the	following performed (Yes or No)
•	Field Measurements - To verify the quality of da field instrumentation, at least one duplicate mea obtained per day and reported for all field analytical	asuremer	nt will be	Vis
•	Equipment Calibration - Meters should be call hours prior to use.	ibrated v	vithin 24-	Yis
•	Equipment Decon - Sampling equipment should stated in the Sampling & Analysis Plan	d be de	coned as	Y.43.
•	Sample Containers - Certified-clean sample accordance with Exhibit I of the NYSDEC ASP (I supplied by the NEI.			103
•	Field Duplicates - Field duplicates will be coreproducibility of the sampling methods. Field prepared as discussed in the FSP. In general, field analyzed at a five percent frequency (every 20 s provides an estimated number of field duplicates for parameter and matrix.	duplicate d duplicat amples).	s will be es will be Table 1	Y15
•	Field Rinse Blanks - Field rinse blanks are us cleanliness of the sampling equipment and the electronic cleaning procedures. Laboratory-demonstrated, shall be passed through or over the sampling equipment on that particular day. The water shall be collected cleaned containers at a frequency of one per sanalyzed for the same parameters as the field saprovides an estimated number of rinse blanks of field work.	ffectivener analyte-f ipment b in the lass ampling	ess of the ree water eing used aboratory- day and Table 1	Tes
•	Trip Blanks - Trip blanks will be used to as samples have been exposed to non-site-related v during storage and transport. Trip blanks will frequency of once per day, and will be analyzed constituents. A trip blank will consist of a container free water (supplied by the laboratory) which remarked samples throughout the sampling event. Trip analyzed for volatile organic constituents. Take estimated number of trip blanks collected for parameter during the field activities.	olatile co be analy for volati r filled wit ains unop blanks wole 1 pro	enstituents and a le organic hanalyte- ened with will only be ovides an	T23

Data	ATTACH a Valida	IMENT tion Re	B port	

# Premier Environmental Services.

To:

Eric A. Weinstock

From:

Janet Josher

Date:

November 26, 1996

Subject:

Tishcon Data Validation - State Street Site

Attached is the final report for the data validation of the TISHCON site at State Street. Included in this report is a narrative discussing blank results, surrogate recoveries, matrix spike recoveries, field duplicates, instrument performance, holding times, and any qualifiers assigned to the results provided by NEI. The data validation was performed according to the requirements of the NYASP and the USEPA National Functional Guidelines for Organic Data Review.

If there are any questions regarding this report, please contact me at (908) 247-5727.

Sincerely,

Janet Josher

DATA VALIDATION FOR: TISHCON

SITE: STATE STREET

CASE NO. TISH 1,3,4

CONTRACT LAB: NEI

REVIEWER: JANET JOSHER

DATE REVIEW COMPLETED: SEPTEMBER 21,1996

MATRIX: WATER/SOIL

The data validation was performed according to the guidelines in the USEPA Contract Laboratory Program National Functional Guidelines, February 1994 and the NY DEC Analytical Services Protocol, 12/91, ASP Method 91-1. All data are considered valid and acceptable except those analytes which have been qualified as detailed in this report.

Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results were generated within the requirements for CLP analysis.

This data assessment is for 11 water samples and 19 soil samples as listed below.

**FBS** 

# CLIENT ID:

TISH 1:	TISH 3:	TISH 4:
TB8/21	GW-1	SS-1
NC-24	GW-2	B11012
UN11	GW-2DUP	B12022
N111842	FBW	B21012
FB8/22	TB	B22022
,	<del></del>	B23032
		B24042
		B25052
		B31012
		B32022
		B33032
		B34042
		B35052
		B13032
		B41517
		B42022
		B42527
		B43537
		B3D

# DATA ASSESSMENT

# HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Volatile organics are required to be analyzed within 10 days of collection if properly preserved and stored at 4°C, or 7 days otherwise.

### VOA:

TISH 1: The sample temperature was measured at 5°C by the laboratory upon receipt, however, samples were analyzed within 7 days, hence, no qualifications were required.

TISH 3: The samples were analyzed within holding times.

TISH 4: The samples were analyzed within holding times.

#### 2. BLANK CONTAMINATION:

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Positive results of less than five times the method detection limit that are found in the samples for compounds that are also found in the method, field, and trip blanks are negated with the qualification "U". The following analytes in the samples shown were qualified "U" for these reasons:

### A) Method blank contamination

#### VOA:

TISH 1: Low levels of Methylene Chloride were detected in the method blank associated with samples N11842, NC-24, NC-24DL, and UN11, and were subsequently detected in the samples, therefore, Methylene Chloride was negated.

Low levels of Acetone were detected in the method blank and in samples NC-24 and UN11, therefore, Acetone was negated in these samples.

TISH 3: Low levels of Methylene Chloride were detected in the method blank associated with samples GW-1, GW-2, and GW-2DUP, therefore, all positive results for Methylene Chloride were negated.

TISH 4: Low levels of Methylene Chloride were detected in the method blanks associated with these samples and was also detected in all samples. Methylene Chloride was negated in all samples except the field blank.

- B) Field or rinse blank contamination
- TISH 1,3,4: Low levels of Methylene Chloride were detected in the field blank. Since all samples with Methylene Chloride contamination were previously qualified for method blank contamination, no further action was required.
- C) Trip blank contamination
- TISH 1,3,4: Methylene Chloride was detected in the trip blank associated with these samples. Since all samples were qualified for Methylene Chloride contamination in the method blanks, no further action was taken.

### 3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB).

If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

VOA: The tuning criteria were met for all samples.

### 4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

### A) RESPONSE FACTOR

The response factor measures the instruments's response to specific chemical compounds. The response factor for the VOA Target Compound List (TCL) must meet the criteria established. A value outide that criteria indicates a serious detection and quantitation problem (poor sensitivity).

VOA: The response factor criteria was met.

#### 5.CALIBRATION:

A) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD and %D must meet the limits outlined in NY DEC Method 91-1.

The following analytes in the samples shown were qualified for %RSD and %D.

INITIAL CALIBRATION (IC):

- TISH 1: %RSD exceeded QC limits for Methylene Chloride for the initial calibration, therefore positive results for Methylene Chloride in the field blank and trip blank were qualified "J".
- TISH 3: %RSD exceeded QC limits for Methylene Chloride for the initial calibration, therefore positive results for Methylene Chloride in the field blank and trip blank were qualified "J".
- TISH 4: %RSD exceeded QC limits for Methylene Chloride for the initial calibration, therefore positive results for Methylene Chloride in the field blank were qualified "J".

Calibration continued.....

CONTINUING CALIBRATION (CC):

- TISH 1: %D exceeded QC limits for 2-Hexanone. Associated results in sample NC-24DL were qualified "J".
- TISH 3: %D exceeded QC limits for 2-Hexanone. Associated results in samples FB, TB, GW-1, GW-2, and GW-2DUP were qualified "J".
- TISH 4: %D exceeded QC limits for Methylene Chloride, therefore, associated results in samples B13032, B21012, B22022, B23032, B33032, B24042, B25052, B25052RE, B31012, B32022, B34042, B35052, B3D, B41517, B42022, B42527, and B43537 were qualified "J".
- %D exceeded QC limits for Acetone, therefore, associated results in samples B11012, B12022, B13032, B21012, B22022, B23032, B33032, B24042, B25052, B25052RE, B31012, B32022, B34042, B35052,B3D, B41517, B42022, B42527, and B43537 were qualified "J".

### 6.SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

- TISH 1: %Recoveries for all surrogates met QC requirements.
- TISH 3: %Recoveries for all surrogates met QC requirements.
- TISH 4: %Recovery for Toluene-d8 was low for sample B25052, therefore, all results were qualified "J". The sample was reanalyzed and all surrogate recoveries were acceptable. Both sets of data are included.

### 7. INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50%to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +30 seconds from the associated continuing calibration standard.

The following analytes in the samples shown were qualified because of internal standard performance.

### VOA:

TISH 1: Internal standard area counts met QC requirements.

TISH 3: Internal standard area counts met QC requirements.

TISH 4: Area counts for 1,4-Difluorobenzene were low for sample B25052RE. All associated results were qualified "J".

### 8.COMPOUND IDENTIFICATION:

### A) VOLATILE AND SEMI-VOLATILE FRACTIONS

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within + 0.06 RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with that in the standard compound. For tentatively identified compounds (TIC), the ion spectra must match accurately. The following analytes in the samples shown here were qualified for compound identification:

VOA: TICs were qualified "JN" for presumptive evidence of their presence. TICs which were found in method blanks were compared to the TICs in associated samples and in cases where their concentrations were less than 5 times the concentration found in their associated method blanks, were rejected and qualified "R".

### 9. MATRIX SPIKE/SPIKE DUPLICATE ANALYSIS:

The MS/SD data are generated to determine the precision and accuracy of the analytical method. This data may be used in conjunction with other QC criteria for additional qualification of data. In addition, a blank spike is analyzed to determine any interferences inherent to the laboratory performing the analysis.

- TISH 1: %Recoveries for the blank spike met QC requirements. Results for the batch MS/MSD analyzed with these samples met QC requirements.
- TISH 3: Recoveries for the blank spike and GW-2DUP MS/MSD met QC requirements. No compounds were detected for field duplicate analyses of samples GW-2 and GW-2DUP.
- TISH 4: %Recoveries for the blank spike and B22022MS/MSD met QC requirements. Acetone was detected in field duplicate samples B3D and B34042 at levels below the Contract Required Detection Limits.

10. OTHER QC DATA OUT OF SPECIFICATION:

N/A

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

- TISH 1: Low level Methylene Chloride contamination was noted in the trip, field, and method blanks and was negated from the associated samples. Several samples were qualified for initial and continuing calibration exceedence. No other qualifications were placed on these results.
- TISH 3: Low level Methylene Chloride contamination was noted in the trip, field, and method blanks and was negated from the associated samples. Several samples were qualified for initial and continuing calibration exceedence. No other qualifications were placed on these results.
- TISH 3: Low level Methylene Chloride contamination was noted in the field and method blanks and was negated from the associated samples. Several samples were qualified due to initial and continuing calibration exceedence. One sample was qualified for low surrogate recovery. Area counts for one internal standard were low in one sample. The associated compounds were qualified "J".
- Overall the data is usable along with the above made data validation qualifications.

Attachment 6

C.A. Rich Consultants ■04 Glen Cove Avenue Sea Cliff, NY 11579

₹ttn

: Eric Weinstock

Ref: Tishcon State Street

P.O. #: Pending

Nytest Environmental, Inc., is pleased to submit our Project Number 9622208 for Login Number 28748, SDG Number TISH1, on your samples received 08/23/96.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Lori Beyer,

Laboratory Director

Nytest Environmental, Inc.

Encl: Summary Data Package

Shipped Via: Driver 1 bound, 1 unbound

NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled. Information contained herein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

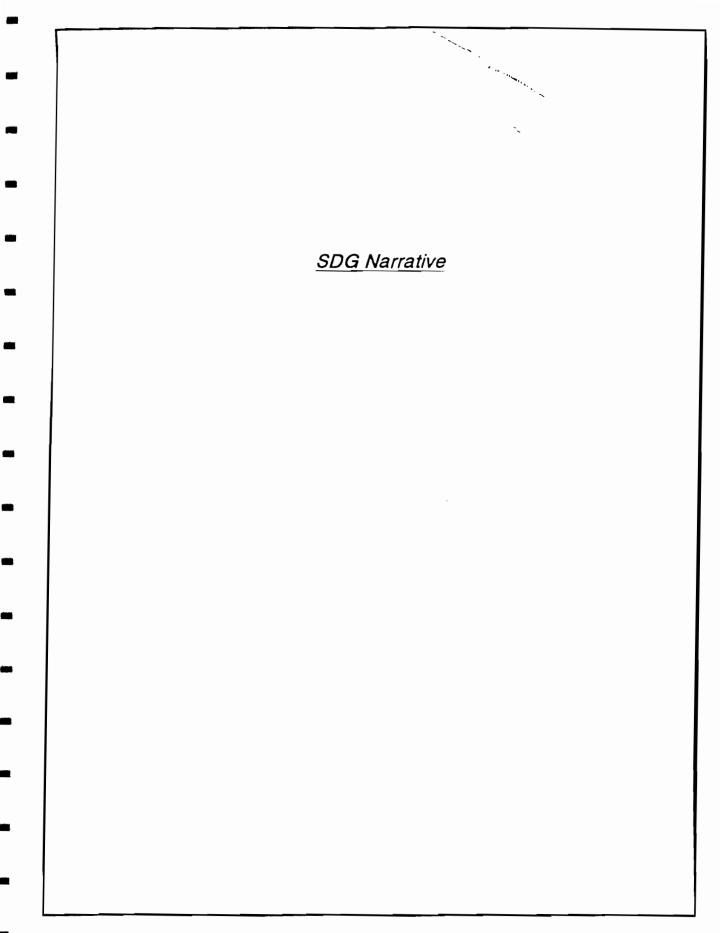
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### NYTEST ENVIRONMENTAL Inc.

SDG: TISH1

LABORATORY	SAMPLE	TYPE OF
NUMBER	IDENTIFICATION	SAMPLE
2874801	TB821	Water
2874802	NC-24	Water
2874803	UN11	Water
2874804	N11842	Water
2874805	FB822	Water



# NARRATIVE DISCUSSION VOLATILES - 28748

### SDG NO. TISH1

### INTRODUCTION

This narrative covers the analysis of five (5) aqueous samples in accordance with protocols based on NYSDEC ASP(12/91).

### HOLDING TIMES

The analytical holding time for this analysis was met.

### CALIBRATIONS

- All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.
- All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

### m METHOD BLANKS

The method blanks associated with these samples met method requirements.

### SURROGATES

All surrogate recoveries met QC criteria.

### MATRIX SPIKE BLANKS

Batched QC is being supplied. The applicable Form 3 is included.

### MATRIX SPIKES

Matrix Spikes were not designated to be performed on any of the samples covered by this report. Batched QC is being supplied.

Note that non site specific QC may demonstrate differing matrix affects than samples contained in this login. The applicable Form 3 is, therefore, being supplied. Applicable raw data is available upon request.

### INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

### SAMPLE COMMENTS

Analysis of sample NC-24 yielded target analyte concentrations which exceeded the highest calibration standard. These compounds have been qualified "E". Reanalysis was performed at a dilution. Both sets of data are included. The concentrations of these compounds should be taken from the diluted analysis.

No other analytical problems were encountered.

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or her designee, as verified by the following signature.

Lori Beyer

Laboratory Director

VOLATILE ORGANICS ANALYSIS DATA SHEET

FB822

Contract: 9622208 Lab Name: NYTEST ENV INC

Lab Sample ID: 2874805 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2102.D

Date Received: 08/23/96 Level: (low/med) LOW

Date Analyzed: 08/27/96 % Moisture: not dec. \_\_\_\_

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

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

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND (ug/L of ug	/kg/ 0G/11	Q
71-87-3	Chloromethane	10	U
	Bromomethane	10	ט
	Vinyl Chloride	10	ט
	Chloroethane	10	ט
	Methylene Chloride	8	JB
67-64-1		10	ש
	Carbon Disulfide	10	ט
75-35-4	1,1-Dichloroethene	10	ש
75-34-3	1,1-Dichloroethane	10	ש
540-59-0	1,2-Dichloroethene (total)_	10	וט
67-66-3	Chloroform	10	ט
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	ט
71-55-6	1,1,1-Trichloroethane	10	וט
	Carbon Tetrachloride	10	U
	Bromodichloromethane	10	עו
	1,2-Dichloropropane	10	ט
	cis-1,3-Dichloropropene	10	וט
	Trichloroethene	10	U
	Dibromochloromethane	10	ט
	1,1,2-Trichloroethane	10	U
71-43-2		10	U
	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
	Tetrachloroethene	10	U
	1,1,2,2-Tetrachloroethane	10	ע
108-88-3		10	U
	Chlorobenzene	10	U
	Ethylbenzene	10	U
100-42-5		10	U
	Xylene (total)	10	ע
			_

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: NYTEST ENV INC Contract: 9622208

FB822	

Lab Code: NYTEST Case No.: 28748 SAS No.:

SDG No.: TISH1

Matrix: (soil/water) WATER

Lab Sample ID: 2874805

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2102.D

Level: (low/med) LOW

Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_\_

Data Analyzed: 08/27/96

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

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_(uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Matrix: (soil/water) WATER Lab Sample ID: 2874804

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2105.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_ Date Analyzed: 08/27/96

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

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

74-87-3Chloromethane         10         U           74-83-9Bromomethane         10         U           75-01-4
•

000012

1.4

Number TICs found: 0

### VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

NC-24

	Lab Name: NYTEST ENV INC	Contract: 9622208	
-	Lab Code: NYTEST Case No.: 28748	SAS No.: SDG	No.: TISH1
	Matrix: (soil/water) WATER	Lab Sample ID:	: 2874802
	Sample wt/vol: 5.0 (g/mL) ML	Lab File ID:	P2103.D
-	Level: (low/med) LOW	Date Received:	: 08/23/96
	% Moisture: not dec.	Data Analyzed:	: 08/27/96
	GC Column:CAP ID: 0.53 (mm)	Dilution Facto	or: 1.0
	Soil Extract Volume:(uL)	Soil Aliquot V	/olume:(uL)

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

CAS NUMBER COMPOUND NAME RTEST. CONC. Q 4.\_\_ 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

NC-24DL

Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO. COMPOUND

Matrix: (soil/water) WATER Lab Sample ID: 2874802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2156.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 500.0

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

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

74-87-3-----Chloromethane 5000 U 74-83-9-----Bromomethane 5000 U

74-	87-3Chloromethane	5000	ן ט
	83-9Bromomethane	5000	ן ט
	01-4Vinyl Chloride	5000	ן ט
	00-3Chloroethane	5000	ט
	09-2Methylene Chloride	2500	JBD
	64-1Acetone	5000	ט
	15-0Carbon Disulfide	5000	ا ت ا
75_	35-41,1-Dichloroethene	1500	JD
	34-31,1-Dichloroethane	7500	D
[ /3-	-59-01,2-Dichloroethene (total)	5000	ا ت
67	66-3Chloroform	5000	ان ا
	-06-21,2-Dichloroethane	5000	ال
	93-32-Butanone	5000	الَّا
	55-61,1,1-Trichloroethane	74000	
		5000	ן ט
	23-5Carbon Tetrachloride	5000	ال
,	27-4Bromodichloromethane	5000	اق
	87-51,2-Dichloropropane	5000	ال
	61-01-5cis-1,3-Dichloropropene		ال
	01-6Trichloroethene	5000	· ·
	-48-1Dibromochloromethane	5000	Ŭ
	00-51,1,2-Trichloroethane	5000	ָ ט
	43-2Benzene	5000	
	61-02-6trans-1,3-Dichloropropene	5000	ָ ט
	25-2Bromoform	5000	· · ·
	-10-14-Methyl-2-Pentanone	5000	Ŭ
	-78-62-Hexanone	5000	ן עַ
	-18-4Tetrachloroethene	5000	U
	34-51,1,2,2-Tetrachloroethane	5000	U
	-88-3Toluene	5000	U
	-90-7Chlorobenzene	5000	U
	-41-4Ethylbenzene	540	JD
	-42-5Styrene	5000	U
133	0-20-7Xylene (total)	1900	JD

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: NYTEST ENV INC Contract: 9622208

NC-24DL	

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Matrix: (soil/water) WATER Lab Sample ID: 2874802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2156.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_\_ Data Analyzed: 08/29/96

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	1 -
1				
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TB821

Lab Name: NYTEST ENV INC Contract: 9622208	
--	--

Matrix: (soil/water) WATER Lab Sample ID: 2874801

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2101.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/96

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

CAS NO. COMPOUND

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

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

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	ŭ
75-01-4Vinyl Chloride	10	ا ت
75-00-3Chloroethane	10	ا ت
75-09-2Methylene Chloride	9	JB
67-64-1Acetone	10	ן ט
75-15-0Carbon Disulfide	10	ן ט
75-35-41,1-Dichloroethene	10	ا ت
75-34-31,1-Dichloroethane	10	ال
540-59-01,2-Dichloroethene (total)	10	ן ט
67-66-3Chloroform	10	ן ט
107-06-21,2-Dichloroethane	10	ן ט
78-93-32-Butanone	10	Ū
71-55-61,1,1-Trichloroethane	10	Ū
56-23-5Carbon Tetrachloride	10	Ū
75-27-4Bromodichloromethane	10	Ū
78-87-51,2-Dichloropropane	10	ע
10061-01-5cis-1,3-Dichloropropene	10	ַ ט
79-01-6Trichloroethene	10	Ū
124-48-1Dibromochloromethane	10	ש
79-00-51,1,2-Trichloroethane	10	Ū
71-43-2Benzene	10	ש
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	υl
591-78-62-Hexanone	10	[ע
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	ŭ
1330-20-7Xylene (total)	10	ע

Number TICs found: 0

### VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

TB821

	Lab Name: NYTEST ENV INC	Contract	: 9622 <u>2</u> 08		_
	Lab Code: NYTEST Case No.: 2874	8 SAS No.	: SDG	No.: TISH1	
-	Matrix: (soil/water) WATER		Lab Sample ID:	2874801	
	Sample wt/vol: 5.0 (g/mL)	ML	Lab File ID:	P2101.D	
	Level: (low/med) LOW		Date Received:	08/23/96	
	% Moisture: not dec		Data Analyzed:	08/27/96	
	GC Column: CAP ID: 0.53 (mm	1)	Dilution Facto	or: 1.0	
_	Soil Extract Volume:(uL)		Soil Aliquot V	olume:(uL	,)

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

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CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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27.				
28.		-		
30				

### VOLATILE ORGANICS ANALYSIS DATA SHEET

UN11

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Matrix: (soil/water) WATER Lab Sample ID: 2874803

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2104.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_ Date Analyzed: 08/27/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 10 74-87-3------Chloromethane U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride U 10 10 75-00-3-----Chloroethane U 75-09-2-----Methylene Chloride 7 JΒ 67-64-1-----Acetone 17 В 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 540-59-0----1,2-Dichloroethene (total) Ū 10 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 60 Ū 56-23-5-----Carbon Tetrachloride 10 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 3 J 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane\_\_\_ 10 U 71-43-2-----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 64 79-34-5----1,1,2,2-Tetrachloroethane Ū 10 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (total) 10 U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

UN11
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				(
Lab Name: NYTEST E	NV INC	Contract:	9622208	

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Matrix: (soil/water) WATER Lab Sample ID: 2874803

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2104.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. \_\_\_\_\_ Data Analyzed: 08/27/96

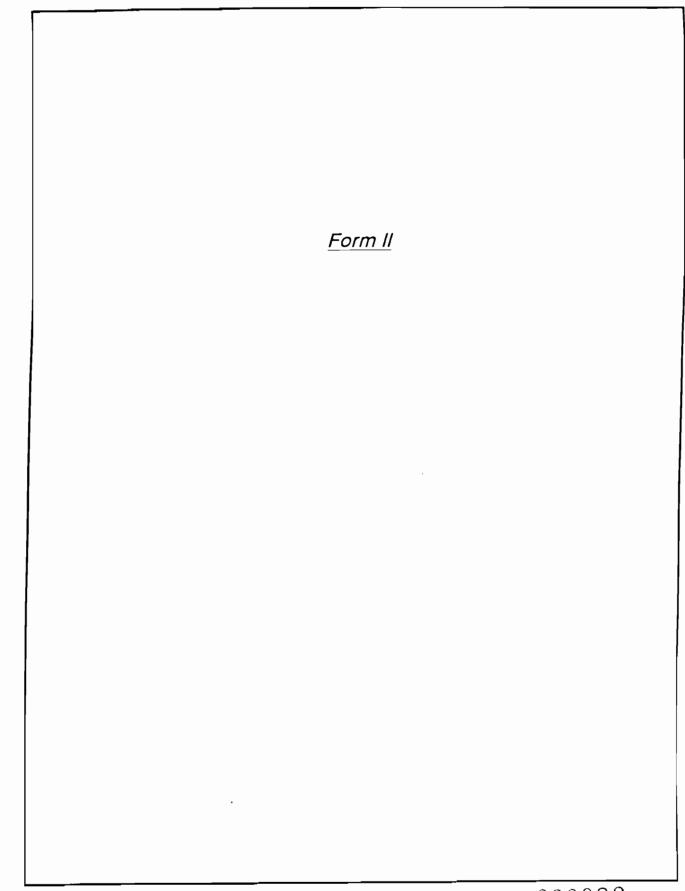
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

	<del></del>	1		]
CAS NUMBER	COMPOUND NAME	1	EST. CONC.	ı
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18. 19.		<u> </u>		
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23.	<del>-</del>			
24.				
20.				
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28				
30	<del>-</del>			



### 2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

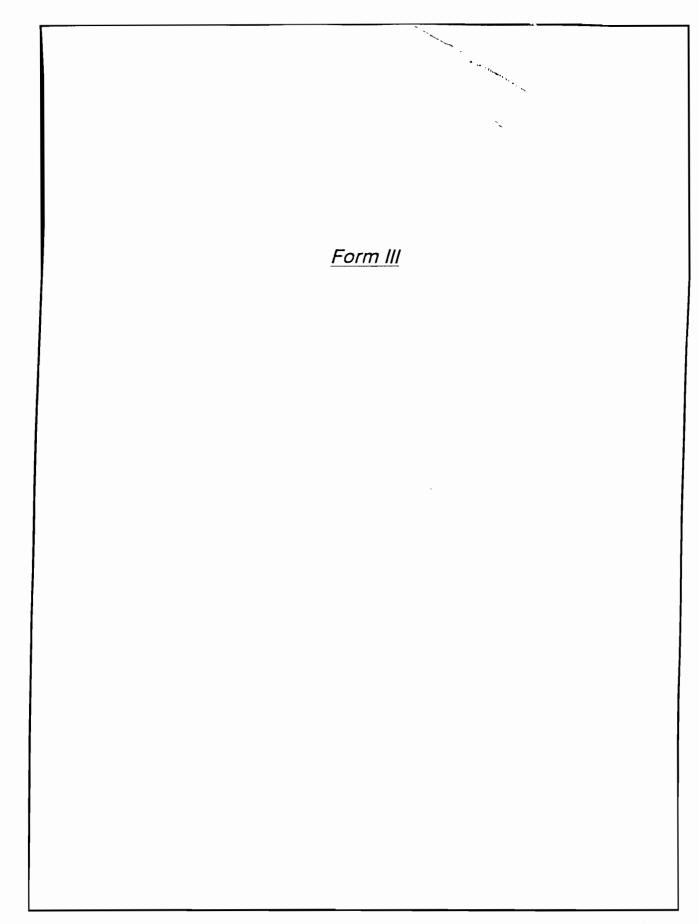
Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

SAMPLE NO.							
01 VBLKP31		NYSDEC	SMC1	SMC2	SMC3	OTHER	TOT
01 VBLKP31		SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
02       TB821       101       102       94       0         03       FB822       100       102       95       0         04       NC-24       101       102       92       0         05       UN11       101       101       94       0         06       N11842       100       101       92       0         07       VBLKP34       96       103       93       0         08       NC-24DL       99       102       93       0         09       10       11       12       13       14       15       16       17       18       19       12 <t< td=""><td></td><td>========</td><td>=====</td><td>======</td><td>,</td><td>=====</td><td>===</td></t<>		========	=====	======	,	=====	===
02       TB821       101       102       94       0         03       FB822       100       102       95       0         04       NC-24       101       102       92       0         05       UN11       101       101       94       0         06       N11842       100       101       92       0         07       VBLKP34       96       103       93       0         08       NC-24DL       99       102       93       0         09       10       11       12       13       14       15       16       17       18       19       12 <t< td=""><td>01</td><td>VBLKP31</td><td>101</td><td>99</td><td>91</td><td></td><td>1 0</td></t<>	01	VBLKP31	101	99	91		1 0
03 FB822						i — —	0
04 NC-24			1	l			
05 UN11 101 101 94 00 06 N11842 100 101 92 00 07 VBLKP34 96 103 93 00 08 NC-24DL 99 102 93 00 10			J				
06 N11842							
07 VBLKP34 96 103 93 0 0 08 NC-24DL 99 102 93 0 10							
08 NC-24DL 99 102 93 0 0 10						l	
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SMC1 (TOL) = Toluene-d8 (88-110) SMC2 (BFB) = Bromofluorobenzene (86-115) SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out



### 3 A VOLATILE WATER MATRIX SPIKE BLANK

Lab Name: NYTEST ENV., INC

Contract: 9622208

Lab Code: NYTEST

Login No.: 28800

Matrix Spike Sample No.: MSB

File No.: P2160

	SPIKE	I BLANK	l MSB	I MSB	i qc
i .	•				
1	ADDED	CONCENTRATION	CONCENTRATION	1 %	LIMITS
COMPOUND	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
	******	==========		=======	=   =======
1,1-Dichloroethene	50	0.0	46.0	92 0	K  61 - 145
Trichloroethene	50	0.0	47.0	94 0	K  71 - 120
Benzene	50	0.0	46.0	92 0	K  76 - 127
Toluene	50	0.0	46.0	92 0	K  76 - 125
Chlorobenzene	50	0.0	47.0	94 0	K  75 - 130

#Column to be used to flag recovery values with an asterix

\*Values outside of QC limits

Spike Recovery: 0 of 5 outside QC limits

### ЗА WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix Spike - NYSDEC Sample No.: GW2DUP

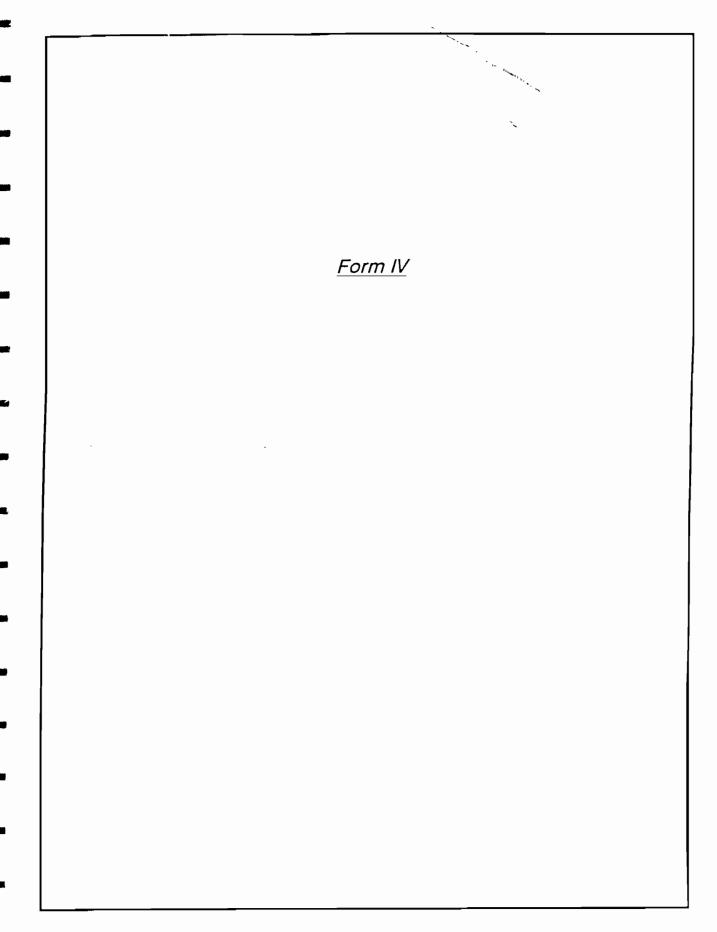
	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	ે	LIMITS
COMPOUND	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
=======================================	=======	==========	==========	=====	=====
1,1-Dichloroethene	50	0	48	96	61-145
Trichloroethene	50	0	50	100	71-120
Benzene	50	0	48	96	76-127
Toluene	50	0	48	96	76-125
Chlorobenzene	50	0	49	98	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC L: RPD	IMITS REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50 50	50 51 50 49 49	100 102 100 98 98	4 2 4 2 0	14 14 11 13 13	 61-145 71-120 76-127 76-125 75-130

- # Column to be used to flag recovery and RPD values with an asterisk
  - \* Values outside of QC limits

RPD: 0 out of 5 outside limits Spike Recovery: 0 out of 10 outside limits

COMMENTS:			



VBLKP31

Lab Name: NYTEST ENV INC Contract: 9622208

Lab File ID: P2098.D

Lab Sample ID: VBLKP31

Date Analyzed: 08/27/96

Time Analyzed: 1427

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HPP

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	TB821	2874801	P2101.D	1555
02	FB822	2874805	P2102.D	1624
03	NC-24	2874802	P2103.D	1653
04	UN11	2874803	P2104.D	1732
05	N11842	2874804	P2105.D	1802
06				
07 08				
09	-			
10				
11				
12				
13				
14				
15 16				
17	*			
18				
19				
20				
21				
22 23				
24				
25				
26				
27				
28				
29				
30				

CO.	MMF:	VTS:

VBLKP31

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) WATER Lab Sample ID: VBLKP31

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2098.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. Date Analyzed: 08/27/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	10 10 10 10 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10	מממממממממממממממממממממממ
79-00-51,1,2-Trichloroethane 71-43-2Benzene 10061-02-6trans-1,3-Dichloropropene 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 591-78-62-Hexanone	10 10 10 10 10	ט ט ט ט

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

VBLKP31

Lab Name: NYTES	T ENV INC	Contract:	9622208
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Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Matrix: (soil/water) WATER Lab Sample ID: VBLKP31

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2098.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. Data Analyzed: 08/27/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME		EST. CONC.	
1	=======================================	======	=====================================	====
2.				
٥				ļ
5				
0.				
7	<del>.</del>			
9.				
10.				
11.				
10.				
14.				
16.				
17.				
19.				
20.	<del>-</del>			
22.				
43.				
24				
26. l				
27				
47.				
30				

VBLKP34

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.:

SDG No.: TISH1

Lab File ID: P2151.D

Lab Sample ID: VBLKP34

Date Analyzed: 08/29/96

Time Analyzed: 1108

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HPP

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=========	==========	============	========
01	NC-24DL	2874802	P2156.D	1431
02				
03				
04				
05				
06				
05 06 07				
80				
08 09				
10				
11 12 13				
12				
13				
14				
15				
16				
17				
18				
19 20 21				
20				
21				
22				
23				
24				
22 23 24 25 26				
26				
27				
28				
29				
30				

COMMENTS:				

VBLKP34

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) WATER Lab Sample ID: VBLKP34

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2151.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	Gl 1	10	ט
74-87-3		10	ן ט
74-83-9		10	ן ט
75-01-4			Ü
75-00-3		10	J
	-Methylene Chloride	5	
67-64-1		10	ָ ע
	-Carbon Disulfide	10	U
	-1,1-Dichloroethene	10	U
	-1,1-Dichloroethane	10	U
540-59-0	-1,2-Dichloroethene (total)	10	U
67-66-3		10	ן ט
107-06-2	-1,2-Dichloroethane	10	ן די
78-93-3		10	ן די
	-1,1,1-Trichloroethane	10	ן די
	-Carbon Tetrachloride	10	ן די
	-Bromodichloromethane	10	U
	-1,2-Dichloropropane	10	U
	-cis-1,3-Dichloropropene	10	U
	-Trichloroethene	10	U
	-Dibromochloromethane	10	U
	-1,1,2-Trichloroethane	10	U
71-43-2		10	U
10061-02-6	-trans-1,3-Dichloropropene	10	ַ ט
75-25-2	-Bromoform	10	ן ד
108-10-1	-4-Methyl-2-Pentanone	10	U
591-78-6		10	U
	-Tetrachloroethene	10	U
	-1,1,2,2-Tetrachloroethane	10	U
108-88-3		10	U
108-90-7		10	U
100-41-4		10	U
100-42-5	<u> </u>	10	U
	-Xylene (total)	10	U
1330-20 /	M/2010 (00042/		

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: 9622208

VBLKP34	

Lab Name:	NYTEST	ENV	INC	
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Matrix: (soil/water) WATER

Lab Sample ID: VBLKP34

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2151.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec.

Data Analyzed: 08/29/96

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

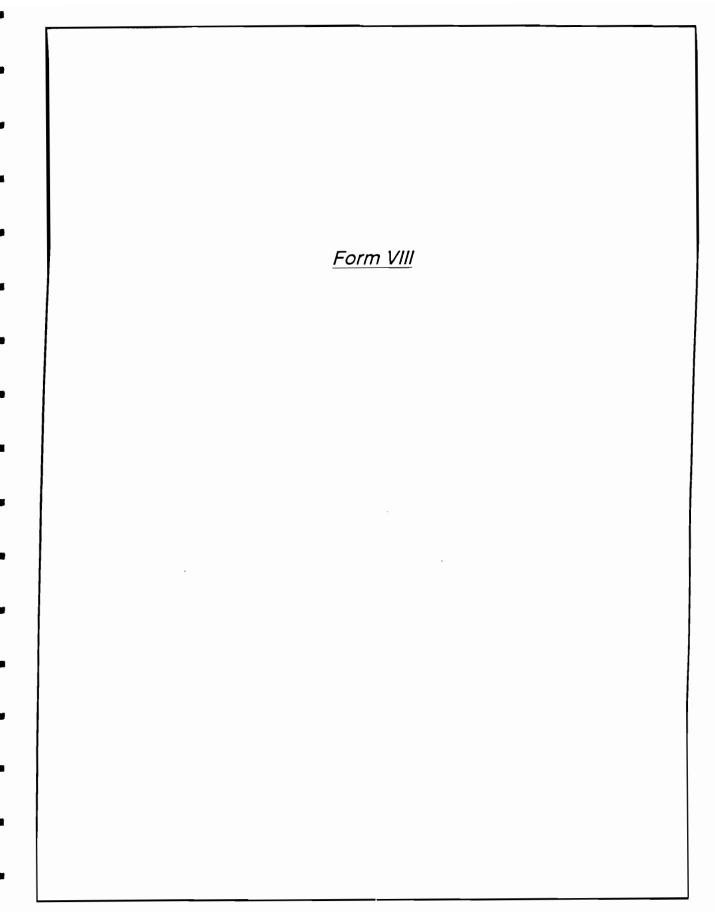
Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1				
3. 4. 5.				
7.				
8. 9. 10.				
12.				
15.				
16. 17. 18.				
20				
22				
26.				
28				
30				



## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NYTEST ENV INC

Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.:

SDG No.: TISH1

Lab File ID (Standard): P2097.D

Date Analyzed: 08/27/96

Instrument ID: HPP

Time Analyzed: 1352

GC Column: CAP ID: 0.53 (mm)

Heated Purge: (Y/N) N

		IS1 (BCM)		IS2(DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
			=======	============	=======		======
	12 HOUR STD	230490	7.58	1064997	9.01	814213	14.87
	UPPER LIMIT	460980	8.08	2129994	9.51	1628426	15.37
	LOWER LIMIT	115245	7.08	532498	8.51	407106	14.37
	=========	========	======	=======	======	=======	=====
	NYSDEC						
	SAMPLE NO.						
	=========	========	======	========	======	=======	=====
01	VBLKP31	221438	7.58	1109685	9.02	857119	14.86
02	TB821	239064	7.58	1125181	9.01	869187	14.86
03	FB822	243044	7.57	1140531	9.01	882474	14.87
	NC-24	237193	7.59	1054616	9.03	816201	14.88
	UN11	226031	7.56	1065404	9.01	818059	14.87
	N11842	231188	7.57	1081840	9.01	834480	14.86
07							
08							
09							
10 11							
12		<del></del>					
13							
14		<del></del>					
15							
16							
17							
18							
19							
20						<del></del> ,	
21							
22							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28748 SAS No.: SDG No.: TISH1

Lab File ID (Standard): P2150.D Date Analyzed: 08/29/96

Instrument ID: HPP Time Analyzed: 1027

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

				T ( )		f:	
		IS1 (BCM)		IS2(DFB)		IS3 (CBZ)	1 :
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	==========	========	======		======	========	======
	12 HOUR STD	189457	7.59	862521	9.02	628597	14.87
	UPPER LIMIT	378914	8.09	1725042	9.52	1257194	15.37
	LOWER LIMIT	94728	7.09	431260	8.52	314298	14.37
	LOWER DIMIT	34/20	_			314298	14.3/
	========	=======	======	========		=======	=====
	NYSDEC						}
	SAMPLE NO.						]
	=========	========	======	========	======	========	[======]
01	VBLKP34	198879	7.58	917667	9.01	722180	14.86
02	NC-24DL	200324	7.57	908503	9.01	670067	14.86
03			, ,	300303	7.01	0,000,	14.00
04		<del></del>					
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11							
12							
13						<del></del>	
14			<del></del> [				!
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12							
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17							
18							
19							
20							
21							
22					<del></del>	<del></del>	

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

000036

page 01 of 01

-Se	pte	mb	er	9.	1	9	9	6

C.A. Rich Consultants 104 Glen Cove Avenue Sea Cliff, NY 11579

Attn : Eric Weinstock
Ref : Tishcon State Street

P.O. #: Pending

Nytest Environmental, Inc., is pleased to submit our Project Number 9622208 for Login Number 28800, SDG Number TISH3, on your samples received 08/27/96.

Ne certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Lori Beyer,

\_aboratory Director

Nytest Environmental, Inc.

**≖**Encl: Summary Data Package

Shipped Via: Driver 1 bound, 1 unbound

NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled. Information contained therein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

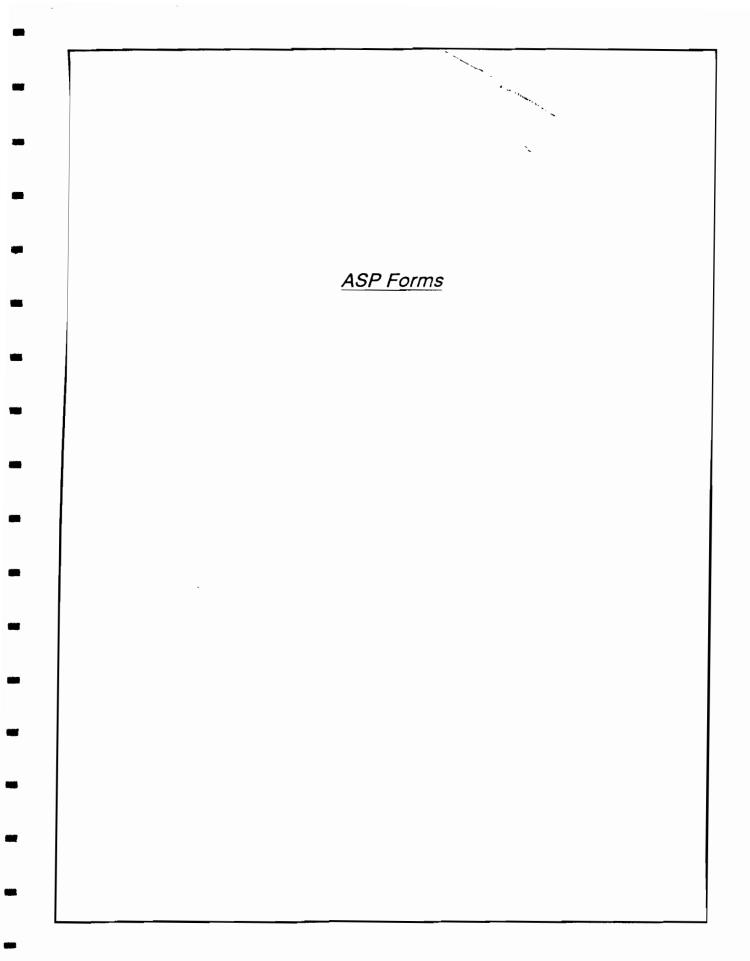
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### NYTEST ENVIRONMENTAL Inc.

SDG: TISH3
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LABORATORY NUMBER	SAMPLE IDENTIFICATION	SAMPLE
2880001	GW1	Water
2880002	GW2	Water
2880003	GW2DUP	Water
2880004	FBW	Water
2880005	TB	Water



# nytest environmental...

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

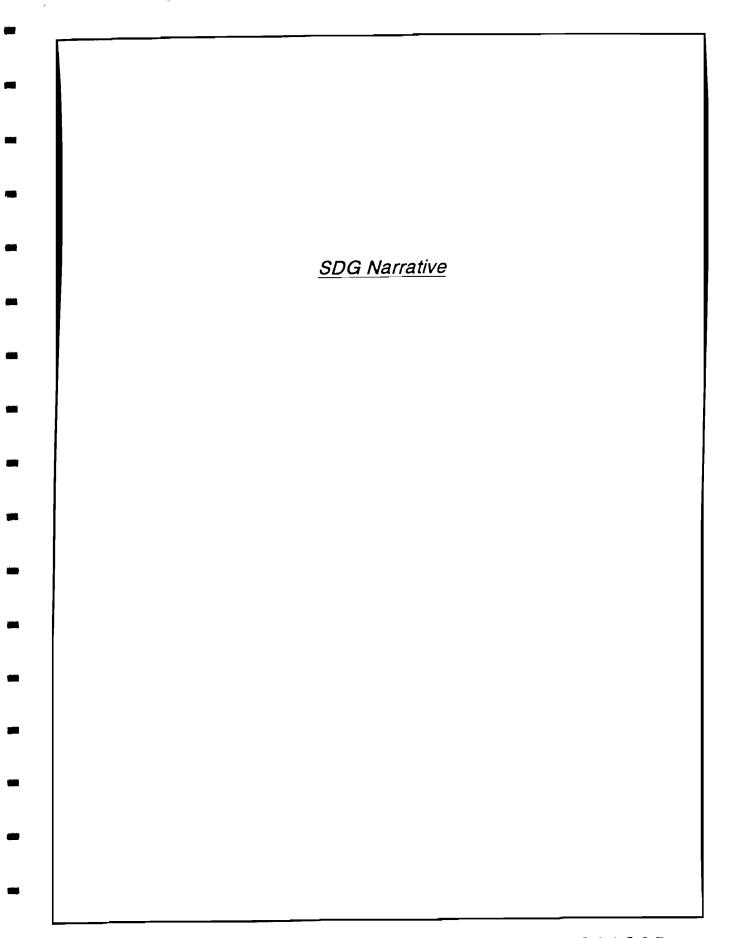
Customer	Laboratory		,	Analytical	requirements	<u> </u>	
Sample	Sample Code	VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	PEST PCB Method	METALS	OTHER
GWI	2880001	~					
GWI GWZ	(02						
Justuf	03						
FBW	04						
<b>-</b> T3	× 05	V					
-							
	_						
	_					,	-
			,				
•						1	-

# nytest environmental...

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
-2880001	WATER	08-26-96	08-27-96	NA	08-29-96
-2880001 -2880002					
2880003					
#88000Y					
2880005		V	V	V	
-					
			-		
		-			
		_			
-				-	
_		-			
	_			-	



#### NARRATIVE DISCUSSION VOLATILES - 28800

SDG NO. TISH3

#### INTRODUCTION

This narrative covers the analysis of five (5) aqueous samples in accordance with protocols based on NYSDEC ASP (12/91).

#### HOLDING TIMES

The analytical holding time for this analysis was met.

#### CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

#### METHOD BLANKS

The method blank associated with these samples met method requirements.

#### **SURROGATES**

All surrogate recoveries met QC criteria.

#### MATRIX SPIKE BLANKS

The recoveries for the matrix spike blank were within QC limits.

#### MATRIX SPIKES

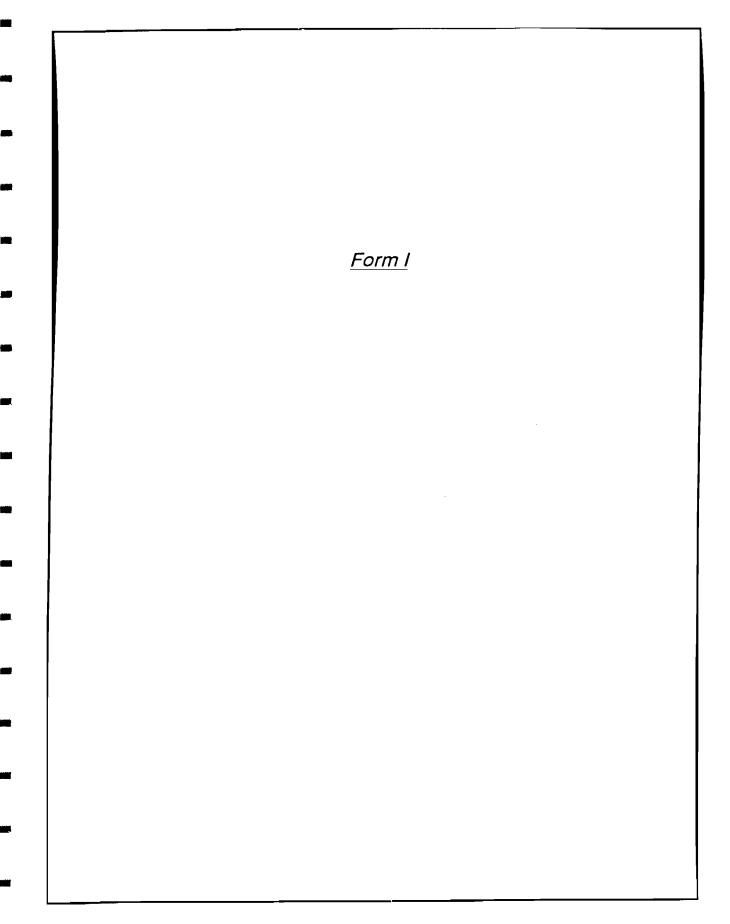
Sample GW2DUP was utilized in the MS/MSD series. All spike recoveries and RPD values fell within the advisory QC limits.

#### INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

#### SAMPLE COMMENTS

No analytical problems were encountered.



FBLab Name: NYTEST ENV INC Contract: 9622208

Lab Sample ID: 2880004 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2162.D

Date Received: 08/27/96 Level: (low/med) LOW

Date Analyzed: 08/29/96 % Moisture: not dec. \_\_\_\_\_

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

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

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3Chloromethane	10	U
	10	Ü
74-83-9Bromomethane	10	Ü
75-01-4Vinyl Chloride	10	ש
75-00-3Chloroethane	8	- 1
75-09-2Methylene Chloride	·	JB   U
67-64-1Acetone	10	- 1
75-15-0Carbon Disulfide	10	Ŭ
75-35-41,1-Dichloroethene	10	ַ
75-34-31,1-Dichloroethane	10	[ע
540-59-01,2-Dichloroethene (total)	10	ַ ע
67-66-3Chloroform	10	ַ ט
107-06-21,2-Dichloroethane	10	Ŭ
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	Ŭ
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	ן ט
78-87-51,2-Dichloropropane	10	υ
10061-01-5cis-1,3-Dichloropropene	10	Ŭ
79-01-6Trichloroethene	10	Ŭ
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	IJ
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	Ū
100-42-5Styrene	10	U
1330-20-7Xylene (total)	10	U

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FB Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Lab Sample ID: 2880004 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2162.D

Date Received: 08/27/96 Level: (low/med) LOW

% Moisture: not dec. \_\_\_\_\_ Data Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 2.				
4.				
6.				
7. 8. 9.				
11.				
13.				
14. 15. 16.				
10.				
19. 20. 21.				
23.				
25.				
26. 27. 28.				
29				

GW1

Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO. COMPOUND

Matrix: (soil/water) WATER Lab Sample ID: 2880001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2163.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

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

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

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

			I
74-87-3	Chloromethane	10	ט (
74-83-9	Bromomethane	10	บ
75-01-4	Vinyl Chloride	3	J
75-00-3	Chloroethane	12	
75-09-2	Methylene Chloride	8	JB
67-64-1		10	ט
75-15-0	Carbon Disulfide	10	ט
75-35-4	1,1-Dichloroethene	10	ט
75-34-3	1,1-Dichloroethane	200	
540-59-0	1,2-Dichloroethene (total)	92	
67-66-3	Chloroform	10	<u>י</u>
107-06-2	1,2-Dichloroethane	10	ן ט
78-93-3	2-Butanone	10	ט
71-55-6	1,1,1-Trichloroethane	61	
	Carbon Tetrachloride	10	ט
75-27-4	Bromodichloromethane	10	ט
78-87-5	1,2-Dichloropropane	10	ט
10061-01-5	cis-1,3-Dichloropropene	10	ט
	Trichloroethene	36	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	ט
71-43-2		10	ט
	trans-1,3-Dichloropropene	10	ט
	Bromoform	10	U
	4-Methyl-2-Pentanone	10	ט
	2-Hexanone	10	U
	Tetrachloroethene	66	
	1,1,2,2-Tetrachloroethane	10	U
108-88-3		10	U
	Chlorobenzene	10	U
	Ethylbenzene	10	U
100-42-5		10	Ü
1330-20-7	Xylene (total)	10	ט

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

GW1

Lab Name: NYTEST ENV I	INC Coi	ntract: 9622208
------------------------	---------	-----------------

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Matrix: (soil/water) WATER Lab Sample ID: 2880001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2163.D

Date Received: 08/27/96 Level: (low/med) LOW

Data Analyzed: 08/29/96 % Moisture: not dec. \_\_\_\_\_

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1				
3				
5				
7				
9				
11.				
12.				
15.				
16				
19.				
21.				
23.				
25.				
26				
29.				
30				

GW2

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) WATER Lab Sample ID: 2880002

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2164.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
	Bromomethane	10	U
	Vinyl Chloride	10	U
	Chloroethane	10	U
	Methylene Chloride	7	JB
67-64-1		10	U
	Carbon Disulfide	10	U
. •	1,1-Dichloroethene	10	U
	1,1-Dichloroethane	10	U
	1,2-Dichloroethene (total)_	10	U
	Chloroform	10	ע
	1,2-Dichloroethane	10	ע
	2-Butanone	10	ש
	1,1,1-Trichloroethane	10	ש
	Carbon Tetrachloride	10	ַ ט
	Bromodichloromethane	10	U
	1,2-Dichloropropane	10	ן ט
	cis-1,3-Dichloropropene	10	U
	Trichloroethene	10	ט
	Dibromochloromethane	10	ש
	1,1,2-Trichloroethane	10	U
71-43-2		10	ט
	trans-1,3-Dichloropropene	10	U
	Bromoform	10	ט
	4-Methyl-2-Pentanone	10	U
	2-Hexanone	10	ַ ט
	Tetrachloroethene	10	ט
79-34-5	1,1,2,2-Tetrachloroethane	10	ַ
108-88-3		10	U
	Chlorobenzene	10	U
	Ethylbenzene	10	IJ
100-42-5		10	ט
	Xylene (total)	10	IJ

TENTATIVELY IDENTIFIED COMPOUNDS GW2 Lab Name: NYTEST ENV INC Contract: 9622208

Lab Sample ID: 2880002 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2164.D

Date Received: 08/27/96 Level: (low/med) LOW

Data Analyzed: 08/29/96 % Moisture: not dec. \_\_\_\_

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	_
	=======================================	======	=======================================	=====
1				
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J •		<del></del>		
4. 5.				
6				
7				
0.				
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12.				
1 13.				
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1 13.				
1 10.			<del>- ,</del>	
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18				
19.				<del></del>
21.				<del></del>
22.				
43.				
24.				
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28.				
30				
				I

GW2DUP

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Sample ID: 2880003 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2165.D

Date Received: 08/27/96 Level: (low/med) LOW

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

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

CAS NO. COMPOUND

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

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

74-87-3Chloromethane	10	t
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	ן נ
75-00-3Chloroethane	10	ן ט
75-09-2Methylene Chloride	7	∣ JB
67-64-1Acetone	10	ט
75-15-0Carbon Disulfide	10	ט ו
75-35-41,1-Dichloroethene	10	lυ
75-34-31,1-Dichloroethane	10	lυ
540-59-01,2-Dichloroethene (total)	10	ĺΰ
67-66-3Chloroform	10	lυ
107-06-21,2-Dichloroethane	10	ŭ
78-93-32-Butanone	10	ľ
71-55-61,1,1-Trichloroethane	10	
56-23-5Carbon Tetrachloride	10	τ
75-27-4Bromodichloromethane	10	τ
78-87-51,2-Dichloropropane	10	Ţ
10061-01-5cis-1,3-Dichloropropene	10	ַ
79-01-6Trichloroethene	10	ן נ
124-48-1Dibromochloromethane	10	Ţ
79-00-51,1,2-Trichloroethane	10	Ţ
71-43-2Benzene	10	ַ
10061-02-6trans-1,3-Dichloropropene	10	Ţ
75-25-2Bromoform	10	Ţ
108-10-14-Methyl-2-Pentanone	10	Ţ
591-78-62-Hexanone	10	Ţ
127-18-4Tetrachloroethene	10	Ü
79-34-51,1,2,2-Tetrachloroethane	10	Ţ
108-88-3Toluene	10	Ţ
108-90-7Chlorobenzene	10	ť
100-41-4Ethylbenzene	10	Ü
100-42-5Styrene	10	ד
1330-20-7Xylene (total)	10	υ
•		

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

			GNZDOL
Lab Name: NYTEST ENV	INC Cor	ntract: 9622208	

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Matrix: (soil/water) WATER Lab Sample ID: 2880003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2165.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. Data Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
3.				
<b>T</b> .				
5				
8.				
9. 10.				
<u>                                    </u>				
13.				
14.				
15. 16.				
18.				
19.				
Z   .				
23.				
25.				
1 26.				
28.				
29	-			

TB

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) WATER Lab Sample ID: 2880005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2161.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS IVO.	COMPOUND (ag/11 of ag	/ Ng/ 00/ L	×
74-87-3	Chloromethane	10	ט
	Bromomethane	10	Ū
	Vinyl Chloride	10	Ū
	Chloroethane	10	Ū
	Methylene Chloride	9	JВ
67-64-1		10	ט
	Carbon Disulfide	10	<u>ט</u>
	1,1-Dichloroethene	10	Ü
75-34-3	1,1-Dichloroethane	10	บั
540-59-0	1,2-Dichloroethene (total)	10	บ
	Chloroform	10	บ
	1,2-Dichloroethane	10	<u>ט</u>
	2-Butanone	10	<u>ט</u>
	1,1,1-Trichloroethane	10	<u>ט</u>
	Carbon Tetrachloride	10	<u>ט</u>
	Bromodichloromethane	10	Ū
	1,2-Dichloropropane	10	Ū
	cis-1,3-Dichloropropene	10	Ū
	Trichloroethene	10	<u>"</u>
	Dibromochloromethane	10	וֹט
79-00-5	1,1,2-Trichloroethane	10	<u>"</u>
71-43-2	Benzene	10	<u></u> ע
	trans-1,3-Dichloropropene	10	ับ
75-25-2	Bromoform	10	ש
	4-Methyl-2-Pentanone	10	ש
	2-Hexanone	10	ש
127-18-4	Tetrachloroethene	10	ש
	1,1,2,2-Tetrachloroethane	10	ש
108-88-3	Toluene —	10	ש
108-90-7	Chlorobenzene	10	ש
100-41-4	Ethylbenzene	10	ש
100-42-5	Styrene	10	ַ
1330-20-7	·Xylene (total)	10	ש

	TENTATIVELY	IDENTIFIED COMPOUNDS		
			TB	
EST	ENV INC	Contract: 9622208		

Lab Name:	NYTEST	ENV	INC	Contract:	9622208	

Matrix: (soil/water) WATER Lab Sample ID: 2880005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2161.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. \_\_\_\_\_ Data Analyzed: 08/29/96

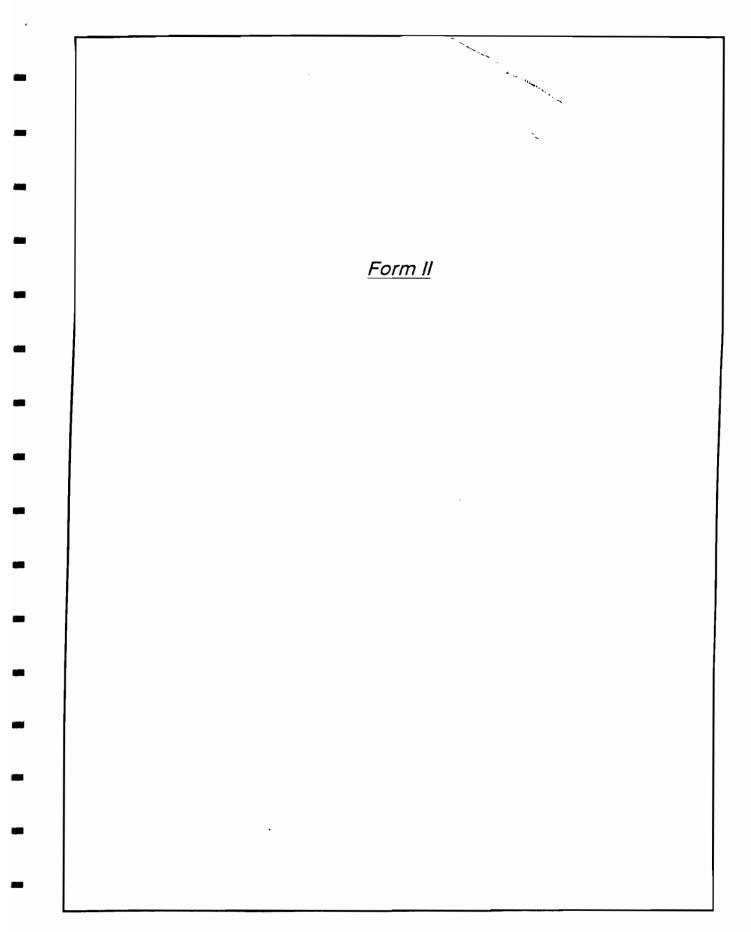
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	1
1				
4.				
6				
8.				
9				
13.				
15.				
16. 17. 18.				
20.				
22.				
24				
27.				
29.				
30				



## 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9622208

SAMPLE NO. (TOL) # (BFB) # (DCE) # OUT		NYSDEC	SMC1	SMC2	SMC3	OTHER	TOT
01 VBLKP34 96 103 93 0 02 MSB 98 102 90 0 03 TB 97 101 91 0 04 FB 98 103 93 0 05 GW1 98 103 93 0 06 GW2 98 103 92 0 07 GW2DUP 98 103 92 0 08 GW2DUPMS 98 102 92 0 09 GW2DUPMSD 98 101 93 0 10 11							
02 MSB		=========	======	======	======	=====	===
03 TB	01	VBLKP34	96	103	93		0
04 FB 98 103 91 0 0 05 GW1 98 103 93 0 0 0 06 GW2 98 103 92 0 0 0 08 GW2DUPMS 98 102 92 0 0 0 0 09 GW2DUPMSD 98 101 93 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	MSB	98	102	90		0
05 GW1 98 103 93 0 0 06 GW2 98 103 92 0 07 GW2DUP 98 103 92 0 08 GW2DUPMS 98 102 92 0 09 GW2DUPMSD 98 101 93 0 10	03	TB	97	101	91		0
06	04	FB	98.	103	91		0
07 GW2DUP 98 103 92 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05	GW1	98	103	93		0
08 GW2DUPMS 98 102 92 0 0 10 11 12 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	06	GW2	98	103	92		0
09 GW2DUPMSD 98 101 93 0 0 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 22 22 22 22 22 22 22	07	GW2DUP	98	103	92		0
10	80	GW2DUPMS	98	102	92		0
11	09	GW2DUPMSD	98	101	93		0
12	10						
13	11						
14	12						
15	13						
16	14						
17							
18							
19							
20							
21							
22 23 24 25 26 27 28 29							
23 24 25 26 27 28 29	21						
24	22						
25 26 27 28 29							
26 27 28 29			I				I
27 28 29							l
28							
29							
							<u> </u>
30							
	30						

SMC1 (TOL) = Toluene-d8 (88-110) SMC2 (BFB) = Bromofluorobenzene (86-115) SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out

	Form III	
1		
1		

#### 3 A VOLATILE WATER MATRIX SPIKE BLANK

Lab Name: NYTEST ENV., INC

Contract: 9622208

Lab Code: NYTEST

Login No.: 28800

Matrix Spike Sample No.: MSB

File No.: P2160

1	SPIKE	BLANK	MSB	MSB		QC	Ī
1	ADDED	CONCENTRATION	CONCENTRATION	%	ļ	LIMITS	I
COMPOUND	(ug/L)	(ug/L)	(ug/L)	REC #	#	REC.	١
=======================================	========	==========		======	==	=======	١
1,1-Dichloroethene	50	0.0	46.0	92 0	)K	61 - 145	I
Trichloroethene	50	0.0	47.0	94 0	)K	71 - 120	I
Benzene	50	0.0	46.0	92 0	κ	76 - 127	١
Toluene	50	0.0	46.0	92 0	κĮ	76 - 125	l
Chlorobenzene	50	0.0	47.0	94 0	κį	75 - 130	ĺ
	I				ĺ		ĺ

#Column to be used to flag recovery values with an asterix

\*Values outside of QC limits

Spike Recovery: 0 of 5 outside QC limits

#### 3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Matrix Spike - NYSDEC Sample No.: GW2DUP

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
=======================================	=======	=========	==========	=====	=====
1,1-Dichloroethene	50	0	48	96	61-145
Trichloroethene	50	0	50	100	71-120
Benzene	50	0	48	96	76-127
Toluene	50	0	48	96	76-125
Chlorobenzene	50	0	49	98	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD#		IMITS REC.
=======================================	=======	=========	=====	======	=====	=====
1,1-Dichloroethene	50	50	100	4	14	61-145
Trichloroethene	50	51	102	2	14	71-120
Benzene	50	50	100	4	11	76-127
Toluene	50	49	98	2	13	76-125
Chlorobenzene	50	49	98	0	13	75-130

#	Column	to	be	used	to	flag	recovery	and	RPD	values	with	an	asteri	sk
***			$\sim$	uscu		1 1 a a	TECOAETA	anu	KFD	varues	WILLI	an	apreti	$-\infty$

\* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:	 						
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•	Form IV
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#### 4A VOLATILE METHOD BLANK SUMMARY

VBLKP34

Lab Name: NYTEST ENV INC

Contract: 9622208

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Lab File ID: P2151.D

Lab Sample ID: VBLKP34

Date Analyzed: 08/29/96

Time Analyzed: 1108

GC Column:CAP ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: HPP

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	========	=========	==========	========
01	MSB	MSB	P2160.D	1644
02	TB	2880005	P2161.D	1713
03	FB	2880004	P2162.D	1743
04 05	GW1 GW2	2880001 2880002	P2163.D P2164.D	1812 1841
06	GW2DUP	2880002	P2164.D P2165.D	1910
07	GW2DUPMS	2880003	P2166.D	1939
08	GW2DUPMSD	2880003	P2167.D	2008
09				
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15 16				
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24 25				
26				
27				
28				
29				
30				

COMMENTS:

Lab Name: NYTEST ENV INC Contract: 9622208 VBLKP34

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Matrix: (soil/water) WATER Lab Sample ID: VBLKP34

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2151.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. \_\_\_\_ Date Analyzed: 08/29/96

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

CAS NO. COMPOUND

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

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

74-87-3	Chloromethane	10	ט
74-83-9	Bromomethane	10	Ū
75-01-4	Vinyl Chloride	10	Ü
75-00-3	Chloroethane	10	Ŭ
	Methylene Chloride	5	J
67-64-1	Acetone	10	Ü
	Carbon Disulfide	10	Ü
	1,1-Dichloroethene	10	Ü
	1,1-Dichloroethane	10	บั
	1,2-Dichloroethene (total)	10	บั
	Chloroform	10	ŭ
	1,2-Dichloroethane	10	Ü
78-93-3	2-Butanone	10	ŭ
	1,1,1-Trichloroethane	10	ŭ
	Carbon Tetrachloride		ŭ
75 27 4	Bromodichloromethane	10	
	1,2-Dichloropropane	10	ָּט
10061 01 5	1,2-Dichloropropane	10	ט
10061-01-5	cis-1,3-Dichloropropene	10	ט
	Trichloroethene	10	ט
	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	Ū
71-43-2		10	U
10061-02-6	trans-1,3-Dichloropropene	10	ū
	Bromoform	10	ū
	4-Methyl-2-Pentanone	10	Ū
	2-Hexanone	10	U
	Tetrachloroethene	10	ַ
100 00 0	1,1,2,2-Tetrachloroethane	10	ַ
108-88-3		10	[ט
	Chlorobenzene	10	וַיַ
	Ethylbenzene	10	וַטַ
100-42-5	styrene	10	ט
1330-20-7	Xylene (total)	10	וט

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

VBLKP34

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Lab Sample ID: VBLKP34 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2151.D

Level: (low/med) LOW Date Received: 00/00/00

Data Analyzed: 08/29/96 % Moisture: not dec. \_\_\_\_\_

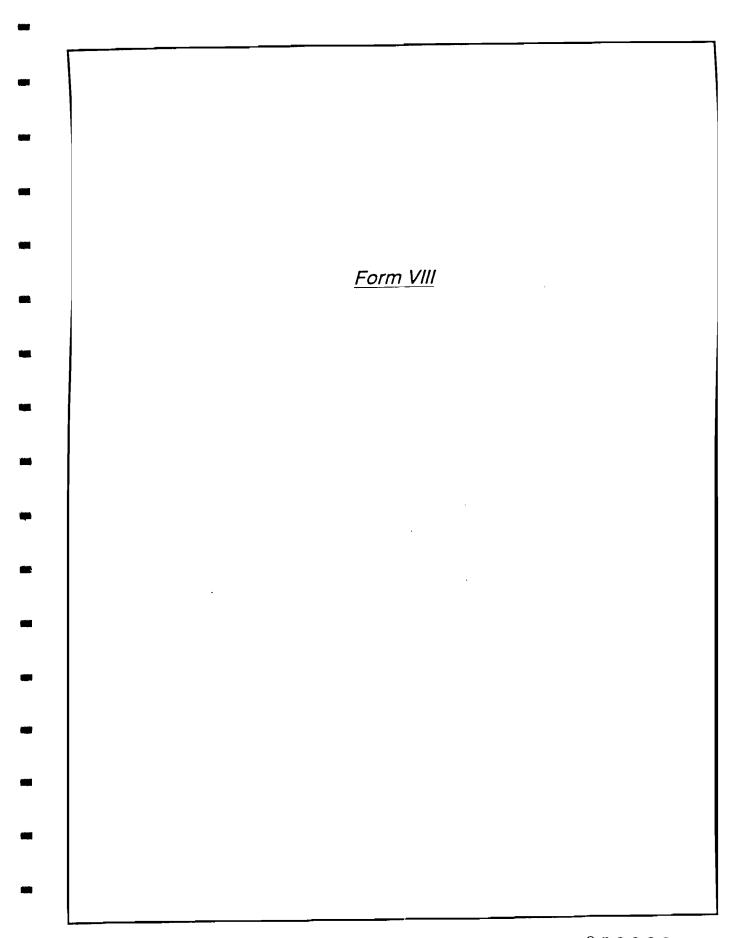
GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
==========	=======================================	======		=====
1				
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±0.		·		
11.				
13.				
14		-		
15.			<del></del>	
16.				
<b>1</b> /.				
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### VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28800 SAS No.: SDG No.: TISH3

Lab File ID (Standard): P2150.D Date Analyzed: 08/29/96

Instrument ID: HPP Time Analyzed: 1027

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

	ı <del> — — — — — — — — — — — — — — — — — — —</del>	TC1 (DCM)	1	TCO (DED)		TC2 (M)7)	
		IS1 (BCM)	D	IS2 (DFB)	, nm	IS3 (CBZ)	D
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	=========	========	======	========	======	========	======
	12 HOUR STD	189457	7.59	862521	9.02	628597	14.87
	UPPER LIMIT	378914	8.09	1725042	9.52	1257194	15.37
	LOWER LIMIT	94728	7.09	431260	8.52	314298	14.37
	=========	========	======	========	======	========	======
	NYSDEC						
	SAMPLE NO.						
	=========	========	======	========	======	========	======
01	VBLKP34	198879	7.58	917667	9.01	722180	14.86
02	MSB	188124	7.57	864304	9.02	647099	14.87
03	TB	190310	7.59	863984	9.02	658104	14.87
04	FB	197305	7.58	920775	9.02	705803	14.87
05	GW1	197237	7.57	930954	9.02	712019	14.87
06	GW2	194209	7.58	904086	9.02	687364	14.88
07	GW2DUP	202938	7.58	958346	9.02	737870	14.87
08	GW2DUPMS	187118	7.58	862422	9.02	659055	14.87
09	GW2DUPMSD	184148	7.58	845828	9.02	643528	14.87
10	GWZDOFFIDD	104140	7.50	043020	9.02	043320	14.07
11							
12							
13							
14					<del></del>		
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

\* Values outside of QC limits.

000020

<sup>#</sup> Column used to flag values outside QC limits with an asterisk.

## September 5, 1996

C.A. Rich Consultants

404 Glen Cove Avenue
Sea Cliff, NY 11579

Attn : Eric Weinstock

Ref: Tishcon State Street

P.O. #: Pending

Nytest Environmental, Inc., is pleased to submit our Project Number 9622208 for Login Number 28758, 28801, SDG Number TISH4, on your samples received 08/23/96, 08/27/96.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Lori Beyer,

Laboratory Director

Nytest Environmental, Inc.

Encl: Summary Data Package

Shipped Via:

1 bound 1 unbound Driver

NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled. Information contained herein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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### NYTEST ENVIRONMENTAL Inc.

SDG: TISH4

LABORATORY	SAMPLE	TYPE OF
NUMBER	IDENTIFICATION	SAMPLE
2875801 2875802	SS-1 B11012 B12022	Soil Soil

## NYTEST ENVIRONMENTAL Inc.

SDG: TISH4

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2880101 2880102 2880103 2880104 2880105 2880106 2880107 2880108 2880109 2880110 2880111 2880112 2880113 2880114 2880115 2880116 2880117 2880118	B21012 B22022 B23032 B24042 B25052 B22022MS B22022MSD B31012 B32022 B33032 B34042 B35052 B13032 B41517 B42022 B42527 B43537	Soil Soil Soil Soil Soil Soil Soil Soil
2880119	FBS	

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#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer		- h +	Analytical requirements								
Sample Code		aboratory Sample Code	VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	PEST PCB Method	METALS	OTHER			
58-1	28	375801	<b>~</b>								
311012		02		_							
- B12022		03					1				
321012	289	60101	v								
B22022		02	<u>_</u>								
<del>-</del> 7623032		03	V								
B24042		04	~								
B25052		05	~								
-B220224S		06	V								
BZZOZZIESD		07	~								
B31012		08	_		į						
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333032		10	V	'							
<b>B</b> 34042		11	<b>∠</b>					140			
<u>B35052</u>		12	L								
B13032		13	<u></u>		! ! 	1	:				
-341517		14	_		:	1		and the second second second			
342022		15	_		:						
B42527		16	<u> </u>	· 							
-B43537		( )					<u> </u>				
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# nytest environmental...

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

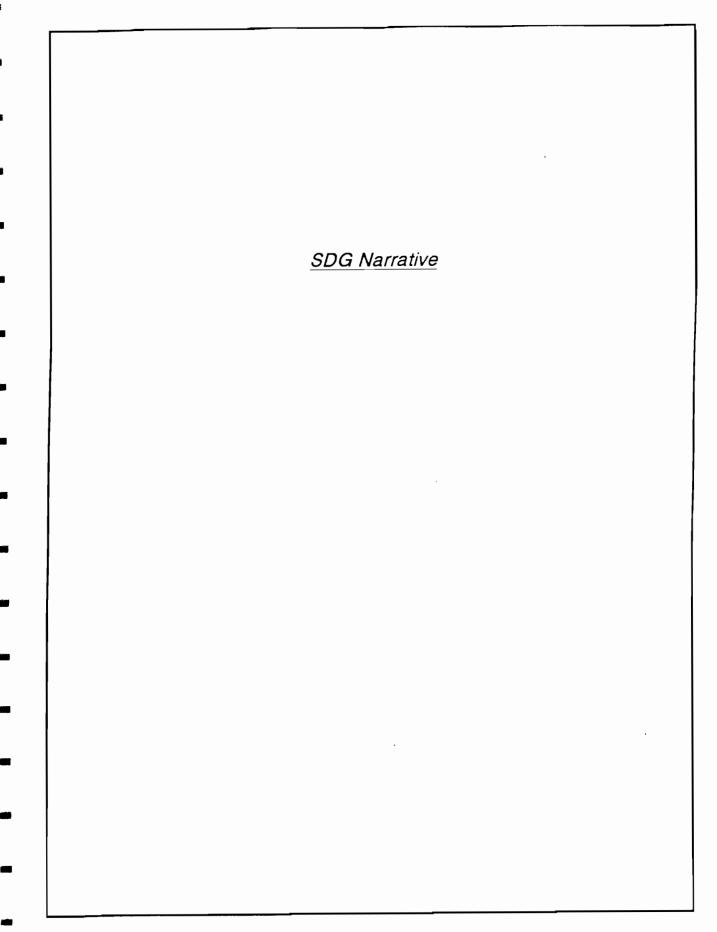
Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
2875801	Soil	08-23-96	68-23-46	NA	08-29-96
<b>\$87580</b> 2					
:875803			V		
2880/01		08-26-96	08-27-96		09-0396
£80102					
2880/03					
7880104					
¥880105					
7880/06					
2880107					
£880/08					
5880109					
1880/10					
<b>=</b> 8801/1					
2880112					
2880113					
=880114					
3880115					
2880115 2880116	/		, /	,	
±880/17					
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## nytest environmental...

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
2880118	Soil	08-26-96		NA	09-03-96
-2880119	WATER	08-26-46	08-27-96	V	09-03-96
•	_				
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#### NARRATIVE DISCUSSION VOLATILES - 28758, 28801

#### SDG NO. TISH4

#### INTRODUCTION

This narrative covers the analysis of one (1) aqueous sample and nineteen (19) soil samples in accordance with protocols based on NYSDEC ASP (12/91).

#### HOLDING TIMES

The analytical holding time for this analysis was met.

#### CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

#### method blanks

The method blanks associated with these samples met method requirements.

#### SURROGATES (SYSTEM MONITORING COMPOUNDS)

Samples met surrogate QC criteria, with the exception of B25052. Reanalysis was performed yielding all surrogate recoveries within QC limits. Both sets of data are included.

#### MATRIX SPIKE BLANKS

The recoveries for the matrix spike blank were within QC limits.

#### MATRIX SPIKES

Sample B22022 was utilized in the MS/MSD series. All spike recoveries and RPD values fell within the advisory QC limits.

#### \_\_ INTERNAL STANDARDS

Area responses and retention times fell within an acceptable range, with the exception of the reanalysis of sample B25052. No further action required.

#### SAMPLE COMMENTS

The TICs identified as "Unknown Siloxane" are most probably due to column degradation and not sample constituency.

No other analytical problems were encountered.

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or her designee, as verified by the following signature.

Lori Beyer, Laboratory Director

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Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL

Lab Sample ID: 2875802

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9869.D

Level: (low/med) LOW

Date Received: 08/23/96

% Moisture: not dec. 4

Date Analyzed: 08/29/96

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

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	10	JB
67-64-1Acetone	10	J
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U
540-59-01,2-Dichloroethene (total)	10	U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4 Tetrachloroethene	10	Ū
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	U
1330-20-7Xylene (total)	10	U

■ Lab Name: NYTEST ENV INC Contract: 9622208

B11012	

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2875802

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9869.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 4 Data Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1.	UNKNOWN	14.479	7	_==== J
2.	UNKNOWN	21.201	33	
3.	UNKNOWN	23.594	8	J
4		1		
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B12022

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab Sample ID: 2875803 Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9870.D

Date Received: 08/23/96 Level: (low/med) LOW

Date Analyzed: 08/29/96 % Moisture: not dec. 3

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

Lab Name: NYTEST ENV INC Contract: 9622208

B12022

Lab	Code:	NYTEST	Case No.:	28758	SAS No.:	SDG No.: TISH
-----	-------	--------	-----------	-------	----------	---------------

Matrix: (soil/water) SOIL Lab Sample ID: 2875803

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9870.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 3 Data Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME		EST. CONC.	
1.	UNKNOWN	21.192	1	1
3				
4 5 6				
7				
9				
11.				
14				
15 16.				
18.				
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21				
23.				
25. 26.				
27. 28. 29.				
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NYSDEC SAMPLE NO.

B13032

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880113

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1784.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Date Analyzed: 09/03/96

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

COMPOUND

CAS NO.

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

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

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3------Chloroethane 10 U 75-09-2-----Methylene Chloride 4 JΒ 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U U 75-35-4----1,1-Dichloroethene 10 10 U 75-34-3-----1,1-Dichloroethane 540-59-0-----1,2-Dichloroethene (total) 10 U 10 U 67-66-3-----Chloroform U 107-06-2----1,2-Dichloroethane 10 U 10 78-93-3-----2-Butanone 71-55-6-----1,1,1-Trichloroethane U 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 10 78-87-5-----1,2-Dichloropropane\_ U 10 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 124-48-1-----Dibromochloromethane 10 U U 79-00-5-----1,1,2-Trichloroethane 10 U 71-43-2-----Benzene 10 10061-02-6----trans-1,3-Dichloropropene 10 U U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene U 10 U 100-41-4-----Ethylbenzene 10 100-42-5-----Styrene\_ U 10 1330-20-7-----Xylene (total) 10 U

Lab Name: NYTEST ENV INC Contract: 9622208

B13032

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880113

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1784.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND	NAME:	RT	EST. CONC.	
			=======	=========	
1.	UNKNOWN SILOXANE		12.444	27	J
2.	UNKNOWN SILOXANE		17.299	430	J
3.	UNKNOWN SILOXANE		21.409	66	J
4.	ONICH SILOARIE		21.405		"
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B22012

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2880101

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1775.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 4 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane	10	Ü
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	4	JB
67-64-1Acetone	10	U
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U
540-59-01,2-Dichloroethene (total)	10	U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	Ŭ
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	Ŭ
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	Ŭ
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	Ŭ
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	U
1330-20-7Xylene (total)	10	U

Lab Name: NYTEST ENV INC Contract: 9622208 B22012

Lab Code: NYTEST Case No.: 28758 SAS No.: SD	G No.:	TISH4
--	--------	-------

Matrix: (soil/water) SOIL Lab Sample ID: 2880101

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1775.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 4 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	_
1				
2				
4 5				
6.				
7. 8				
10				
11				
13				
15.				
16				
18.				
20				
21.				
23.				
25.	·			
27				
29.				
30				

B22022

■ Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO.

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1772.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 5 Date Analyzed: 09/03/96

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

COMPOUND

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

CONCENTRATION UNITS:

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

10 74-87-3------Chloromethane Ū 74-83-9-----Bromomethane 10 Ū 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 Ū 75-09-2-----Methylene Chloride 2 JB 67-64-1-----Acetone 10 Ū 75-15-0-----Carbon Disulfide 10 Ū 75-35-4-----1,1-Dichloroethene\_ U 10 75-34-3-----1,1-Dichloroethane 10 Ū 540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform U 10 107-06-2----1,2-Dichloroethane 10 Ū 78-93-3----2-Butanone 10 Ū 71-55-6-----1,1,1-Trichloroethane Ū 10 56-23-5-----Carbon Tetrachloride\_ Ū 10 10 U 75-27-4----Bromodichloromethane 78-87-5-----1,2-Dichloropropane 10 Ū 10 U 10061-01-5----cis-1,3-Dichloropropene 79-01-6-----Trichloroethene 10 Ū 124-48-1-----Dibromochloromethane 10 Ū 79-00-5-----1,1,2-Trichloroethane 10 U U 71-43-2----Benzene 10 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 Ū 108-10-1-----4-Methyl-2-Pentanone 10 Ū 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene U 10 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene U 10 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene\_\_\_\_\_ 10 U 100-42-5-----Styrene\_ 10 Ū 1330-20-7-----Xylene (total) Ū 10

Lab Name: NYTEST ENV INC Contract: 9622208

B22022

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1772.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 5 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	Q
1			
2.			 
J			 
4			 
0.			
7			
0.			 
9			
TT.			 
12.			 
14.			
15.			
10.			 
17.			
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B23032

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2880103

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1776.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane	10	ט
74-83-9Bromomethane	10	ט
75-01-4Vinyl Chloride	10	ט
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	4	JB
67-64-1Acetone	10	Ü
75-15-0Carbon Disulfide	10	Ū
75-35-41,1-Dichloroethene	10	Ū
75-34-31,1-Dichloroethane	10	Ū
540-59-01,2-Dichloroethene (total)	10	Ü
67-66-3Chloroform	10	Ü
107-06-21,2-Dichloroethane	10	Ü
78-93-32-Butanone	10	บี
71-55-61,1,1-Trichloroethane	10	Ŭ
	10	ש
56-23-5Carbon Tetrachloride 75-27-4Bromodichloromethane	10	Ü
	10	ט
78-87-51,2-Dichloropropane	10	Ū
10061-01-5cis-1,3-Dichloropropene	10	-
79-01-6Trichloroethene		Ŭ
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	Ŭ
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	Ŭ
108-90-7Chlorobenzene	10	Ū
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	Ü
1330-20-7Xylene (total)	10	ָּט

Lab Name: NYTEST ENV INC Contract: 9622208

B23032

SDG No.: TISH4 Lab Code: NYTEST Case No.: 28758 SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: 2880103

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1776.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	1 ~
1				
4.				
6.				
8.				
9. 10.				
12.				
15.				
16 17.				
18. 19. 20.				
21				
24.				
25. 26. 27.				
28				
30				

B24042

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab Sample ID: 2880104

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: M1777.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 14

Date Analyzed: 09/03/96

CAS NO. COMPOUND

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

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	12	ט
	Bromomethane	12	ט ו
	Vinyl Chloride	12	U
	Chloroethane	12	ט
	Methylene Chloride	5	JB
67-64-1		12	U
	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	ט
75-34-3	1,1-Dichloroethane	12	ט
	1,2-Dichloroethene (total)	12	ט
	Chloroform	12	U
	1,2-Dichloroethane	12	ט
	2-Butanone	12	ט
71-55-6	1,1,1-Trichloroethane	12	ט
	Carbon Tetrachloride	12	ט
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	ט
	Dibromochloromethane	12	ט
	1,1,2-Trichloroethane	12	ט
71-43-2		12	U U
10061-02-6	trans-1,3-Dichloropropene	12	ט
75-25-2		12	ט
108-10-1	4-Methyl-2-Pentanone	12	ט
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		12	U
	Chlorobenzene	12	ט
	Ethylbenzene	12	U
100-42-5		12	U
1330-20-7	Xylene (total)	12	ี บ

B24042

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880104

Sample wt/vol: 5.0 (g/mL) GLab File ID: M1777.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 14 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	1	EST. CONC.	
1		======	=========	=====
1	<del></del>			
3				
4.				
5		l		
6				
7				
J •				
1 11.				
12.				
14.				
15.				
16.				
17				
18.				
20.				
41.				
22.				
23.	<del></del>			
45.				
26.				
27.				
28.				
30.	-			
· ·				

B25052

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2880105

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1778.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 8 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	11	ט
74-83-9	Bromomethane	11	U
	Vinyl Chloride	11	ט
	Chloroethane	11	ט (
	Methylene Chloride	5	JB
67-64-1		11	U U
	Carbon Disulfide	11	l u
	1,1-Dichloroethene	11	υ
	1,1-Dichloroethane	11	U U
	1,2-Dichloroethene (total)	11	l บ
	Chloroform	11	l บ
	1,2-Dichloroethane	11	ט
	2-Butanone	11	Ū
	1,1,1-Trichloroethane	11	Ū
	Carbon Tetrachloride	11	l ΰ
	Bromodichloromethane	11	l ŭ
	1,2-Dichloropropane	11	Ŭ
	cis-1,3-Dichloropropene	11	l ŭ
	Trichloroethene	11	l ŭ
	Dibromochloromethane	11	ไ บั
	·1,1,2-Trichloroethane	11	ט ו
71-43-2		11	ไ บ็
	trans-1,3-Dichloropropene	11	ไ บั
75-25-2		11	ไ บั
	4-Methyl-2-Pentanone	11	l ŭ
	2-Hexanone	11	l ΰ
	Tetrachloroethene	11	ľ
	1,1,2,2-Tetrachloroethane	11	Ιŭ
108-88-3		11	ไ บั
	Chlorobenzene	11	ไ บ็
	Ethylbenzene	11	ט ו
100-41-4		11	ט ו
		11	l ü
1330-20-/	Xylene (total)		
			l

B25052

						-	
	Lab Name:	NYTEST	ENV	INC	Contract:	9622208	
_						1.	
						14.	

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880105

Sample wt/vol: 5.0 (g/mL) GLab File ID: M1778.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 8 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1. 2.	UNKNOWN	20.796	17	J
4				
6				
10				
13. 14.				
15. 16. 17.				
18. 19. 20.				
21. 22. 23.				
24. 25. 26.				
27. 28. 29.				
30				

B25052RE

0

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.:

Sample wt/vol:

CAS NO.

SDG No.: TISH4

Lab File ID: M1780.D

Matrix: (soil/water) SOIL Lab Sample ID: 2880105

1

5.0 (g/mL) G

COMPOUND

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 8 Date Analyzed: 09/03/96

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

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

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

U 74-87-3-----Chloromethane 11 74-83-9-----Bromomethane 11 U U 75-01-4------Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 75-09-2-----Methylene Chloride 3 JB 11 U 67-64-1------Acetone 75-15-0------Carbon Disulfide 11 U 75-35-4-----1,1-Dichloroethene 11 U U 75-34-3-----1,1-Dichloroethane\_ 11 11 U 540-59-0-----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform U 107-06-2----1,2-Dichloroethane 11 11 U 78-93-3-----2-Butanone U 71-55-6-----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride\_ 11 75-27-4-----Bromodichloromethane 11 U 78-87-5-----1,2-Dichloropropane 11 U 11 U 10061-01-5----cis-1,3-Dichloropropene 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 U 79-00-5-----1,1,2-Trichloroethane 11 U 71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene\_ 11 U 11 U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 11 U 591-78-6----2-Hexanone 127-18-4-----Tetrachloroethene U 11 U 79-34-5-----1,1,2,2-Tetrachloroethane\_ 11 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 11 U 100-41-4-----Ethylbenzene 11 11 U 100-42-5-----Styrene 1330-20-7-----Xylene (total) U 11

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880105

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1780.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 8 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.		
3.         4.         5.         6.         7.         8.         9.         10.         11.         12.         13.         14.         15.         16.         17.         18.		
6.		
9. 10. 11. 12. 13. 14. 15. 16. 17. 18.		
10. 11. 12. 13. 14. 15. 16. 17. 18.		
13. 14. 15. 16. 17. 18.		
16. 17. 18.		
18.		
10		
19. 20. 21.		
23.		
24. 25. 26.		
26. 27. 28.		
29. 30.		

B31012 Contract: 9622208

CONCENTRATION UNITS:

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880108

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1779.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 2 Date Analyzed: 09/03/96

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

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

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

Contract: 9622208 Lab Name: NYTEST ENV INC

B31012

Lab Code: NYTEST Case	No.:	28758	SAS	No
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Matrix: (soil/water) SOIL Lab Sample ID: 2880108

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: M1779.D

Level: (low/med) LOW

Date Received: 08/27/96

SDG No.: TISH4

% Moisture: not dec. 2

Data Analyzed: 09/03/96

Soil Aliquot Volume: \_\_\_\_(uL)

GC Column:CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	_
1		=======	=======================================	=====
2.				
3	<del></del>	-		
5				
6. 7.				
0.				
9.				
10.				
⊥ <b>∠</b> .				
13.				
101				
16.				
18.				
19				
21.				
22.				
24				
20.	-			
27.				
29				
30				

B32022

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2880109

Maclix. (Soll) water, boll

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1790.D Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 4 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane	10	บ
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	8	JB
67-64-1Acetone	10	U
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U
540-59-01,2-Dichloroethene (total)	10	U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	Ŭ
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	Ŭ
100-42-5Styrene	10	U
1330-20-7Xylene (total)	10	U

Contract: 9622208 Lab Name: NYTEST ENV INC

B32022

Lab Code: NYTEST Case No.: 28758 SAS No.:

SDG No.: TISH4

Matrix: (soil/water) SOIL

Lab Sample ID: 2880109

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: M1790.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 4

Data Analyzed: 09/03/96

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1.				
2				
5				
6. 7.				
8				
10.				
12.				
13.				
15				
17				
19.				
21				
24.				
26.				
28.				
29				

Q

### VOLATILE ORGANICS ANALYSIS DATA SHEET

B32032

Lab Name: NYTEST ENV INC Contract: 9622208

COMPOUND

CAS NO.

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880110

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1781.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 2 Date Analyzed: 09/03/96

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

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

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

10 U 74-87-3-----Chloromethane U 10 74-83-9-----Bromomethane U 10 75-01-4------Vinyl Chloride U 10 75-00-3-----Chloroethane 75-09-2-----Methylene Chloride 4 JΒ 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U U 75-35-4-----1,1-Dichloroethene 10 U 75-34-3-----1,1-Dichloroethane 10 10 U 540-59-0-----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform U 10 107-06-2----1,2-Dichloroethane U 10 78-93-3----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane\_\_\_ U 56-23-5-----Carbon Tetrachloride 10 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 IJ Ū 10 10061-01-5----cis-1,3-Dichloropropene 79-01-6-----Trichloroethene Ū 10 124-48-1-----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane 10 U 10 U 71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene U 10 U 75-25-2-----Bromoform 10 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene U 10 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene 1330-20-7-----Xylene (total) 10

Contract: 9622208 Lab Name: NYTEST ENV INC

B32032	

Lab Code: NYTEST Case No.: 28758 SAS No.:

SDG No.: TISH4

Matrix: (soil/water) SOIL

Lab Sample ID: 2880110

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: M1781.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 2

Data Analyzed: 09/03/96

GC Column:CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
3. 4. 5.				
6.				
9.				
10. 11. 12.				
14				
16				
19.				
21. 22. 23.				-
25.				
26. 27. 28.				
29				

B34042

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880111

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1782.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 7 Date Analyzed: 09/03/96

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

COMPOUND

CAS NO.

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

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

U 74-87-3-----Chloromethane 11 74-83-9-----Bromomethane U 11 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 U 75-09-2----Methylene Chloride 5 JΒ 67-64-1-----Acetone 4 J 75-15-0-----Carbon Disulfide U 11 75-35-4-----1,1-Dichloroethene 11 U 11 U 75-34-3-----1,1-Dichloroethane U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 107-06-2----1, 2-Dichloroethane 11 U 11 U 78-93-3-----2-Butanone 71-55-6-----1,1,1-Trichloroethane U 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4----Bromodichloromethane 11 78-87-5-----1,2-Dichloropropane U 11 10061-01-5----cis-1,3-Dichloropropene U 11 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane U 11 79-00-5-----1,1,2-Trichloroethane\_ U 11 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 U 591-78-6----2-Hexanone 11 U 127-18-4-----Tetrachloroethene 11 U 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3----Toluene 11 U 108-90-7-----Chlorobenzene 11 100-41-4-----Ethylbenzene 11 U 100-42-5-----Styrene\_ 11 U 1330-20-7-----Xylene (total) 11

Lab Name: NYTEST ENV INC Contract: 9622208 B34042

Lab Code: NYTEST	Case No.: 28758	SAS No.:	SDG No.: TISH4
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Matrix: (soil/water) SOIL Lab Sample ID: 2880111

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1782.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 7 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
1				
4.				
5. 6. 7.				
9				
12.				
13. 14. 15.				
17				
19				
22.				
23.				
26. 27. 28.				
29				

B35052

Contract: 9622208 Lab Name: NYTEST ENV INC

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Sample wt/vol: 5.0 (g/mL) G

Matrix: (soil/water) SOIL Lab Sample ID: 2880112

Lab File ID: M1783.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 11

Date Analyzed: 09/03/96

GC Column:CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane	11	ט
75-01-4Vinyl Chloride	11	U
75-00-3Chloroethane	11	ט
75-09-2Methylene Chloride	5	JB
67-64-1Acetone	7	J
75-15-0Carbon Disulfide	11	U
75-35-41,1-Dichloroethene	11	U
75-34-31,1-Dichloroethane	11	U
540-59-01,2-Dichloroethene (total)	11	U
67-66-3Chloroform	11	U
107-06-21,2-Dichloroethane	11	ן ט
78-93-32-Butanone	11	ן ט
71-55-61,1,1-Trichloroethane	11	ן די
56-23-5Carbon Tetrachloride	11	ן די
75-27-4Bromodichloromethane	11	ן די
78-87-51,2-Dichloropropane	11	ן ט
10061-01-5cis-1,3-Dichloropropene	11	ן די
79-01-6Trichloroethene	11	ן די
124-48-1Dibromochloromethane	11	ן די
79-00-51,1,2-Trichloroethane	11	ן ט
71-43-2Benzene	11	ן די
10061-02-6trans-1,3-Dichloropropene	11	ן די
75-25-2Bromoform	11	ן ט
108-10-14-Methyl-2-Pentanone	11	ן ט
591-78-62-Hexanone	11	ע
127-18-4Tetrachloroethene	11	ן ט
79-34-51,1,2,2-Tetrachloroethane	11	ע
108-88-3Toluene	11	Ŭ
108-90-7Chlorobenzene	11	ַ
100-41-4Ethylbenzene	11	ַ ט
100-42-5Styrene	11	ַ ט
1330-20-7Xylene (total)	11	ַ ט

B35052 Contract: 9622208

Lab Name: NYTEST ENV INC

SDG No.: TISH4 Lab Code: NYTEST Case No.: 28758 SAS No.:

Lab Sample ID: 2880112 Matrix: (soil/water) SOIL

Lab File ID: M1783.D Sample wt/vol: 5.0 (g/mL) G

Date Received: 08/27/96 Level: (low/med) LOW

% Moisture: not dec. 11 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT		
1.	UNKNOWN SILOXANE	17.307	7	]====
2				
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l 11.				
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14. 15.				
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l 1/				
1 18.				
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23.				
24.				
20.				
21.				
28				
29. 30.				

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2880118

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1789.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 18 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	12	ָּט
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
	Chloroethane	12	U
	Methylene Chloride	21	В
67-64-1		7	J
	Carbon Disulfide	12	U
	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
	1,2-Dichloroethene (total)	12	U
67-66-3		12	U
	1,2-Dichloroethane	12	U
78-93-3		12	U
	1,1,1-Trichloroethane	12	Ū
	Carbon Tetrachloride	12	Ū
	Bromodichloromethane	12	Ū
	1,2-Dichloropropane	12	U
	cis-1,3-Dichloropropene	12	U
	Trichloroethene	12	U
	Dibromochloromethane	12	U
	1,1,2-Trichloroethane	12	U
71-43-2		12	Ū
	trans-1,3-Dichloropropene	12	U
75-25-2		12	U
	4-Methyl-2-Pentanone	12	U
591-78-6		12	ָ ט
	Tetrachloroethene	12	U
	1,1,2,2-Tetrachloroethane	12	U
108-88-3		12	U
	Chlorobenzene	12	ט (
	Ethylbenzene	12	U
100-42-5		12	ט
	Xylene (total)	12	U
	•		

B<sub>3</sub>D Contract: 9622208 Lab Name: NYTEST ENV INC

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880118

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1789.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 18 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
3				
5				
7.				
9.				
11.				
13.				
14				
16.				
19.				
21.				
23.				
25.				
27.				
29.				
30.				

NYSDEC SAMPLE NO.

0

EST ENV INC Contract: 9622208

Lab Name: NYTEST ENV INC Contract: 9622208

COMPOUND

CAS NO.

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880114

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1785.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Date Analyzed: 09/03/96

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

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

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

74-87-3------Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride JB 5 67-64-1-----Acetone J 10 U 75-15-0-----Carbon Disulfide 75-35-4-----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform 10 U 107-06-2----1, 2-Dichloroethane U 10 10 U 78-93-3-----2-Butanone 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride\_ 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1-----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4-----Tetrachloroethene U 10 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene U 10 U 100-41-4-----Ethylbenzene 10 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (total) 10

ST ENV INC Contract: 9622208

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

■ Matrix: (soil/water) SOIL Lab Sample ID: 2880114

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1785.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 3 Data Analyzed: 09/03/96

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

Number TICs found: 0

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

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

CAS NUMBER	COMPOUND NAME		EST. CONC.	
		=======		====
2				
3.				
4.				
5				
0.				
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o				
9 _				
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11				
12.				
14				
5				
16				
7				
18.				
<i>2</i> 0.				
<b>4 ⊥ •</b>				
.2.				
24.				
56.———		<del></del>		
26.				
88				
29.				
30.				

B42022

Lab Name: NYTEST EN INC

Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.:

SDG No.: TISH4

Matrix: (soil/water) SOIL

Lab Sample ID: 2880115

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: M1786.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 6

Date Analyzed: 09/03/96

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Soil Aliquot Volume: \_\_\_\_(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

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

74-83-9			1	
75-01-4	74-87-3	Chloromethane	11	U
75-00-3	74-83-9	Bromomethane	11	U
75-00-3	75-01-4	Vinyl Chloride	11	U
75-09-2Methylene Chloride			11	U
67-64-1	75-09-2	Methylene Chloride	4	JB
75-15-0			11	U
75-35-41,1-Dichloroethene			11	U
75-34-31,1-Dichloroethane       11         540-59-01,2-Dichloroethene (total)       11         67-66-3			11	U
540-59-01, 2-Dichloroethene (total)       11         67-66-3Chloroform       11         107-06-21, 2-Dichloroethane       11         78-93-32-Butanone       11         71-55-61, 1, 1-Trichloroethane       11         56-23-5Carbon Tetrachloride       11         75-27-4Bromodichloromethane       11         78-87-51, 2-Dichloropropane       11         10061-01-5cis-1, 3-Dichloropropene       11         79-01-6Trichloroethane       11         124-48-1Dibromochloromethane       11         79-00-51, 1, 2-Trichloroethane       11         10061-02-6trans-1, 3-Dichloropropene       11         10061-02-6trans-1, 3-Dichloropropene       11         108-10-14-Methyl-2-Pentanone       11         109-78-6			11	U
67-66-3			11	U
107-06-21, 2-Dichloroethane       11         78-93-32-Butanone       11         71-55-61, 1, 1-Trichloroethane       11         56-23-5Carbon Tetrachloride       11         75-27-4Bromodichloromethane       11         78-87-51, 2-Dichloropropane       11         10061-01-5cis-1, 3-Dichloropropene       11         79-01-6Trichloroethene       11         124-48-1Dibromochloromethane       11         79-00-51, 1, 2-Trichloroethane       11         10061-02-6trans-1, 3-Dichloropropene       11         75-25-2Bromoform       11         108-10-14-Methyl-2-Pentanone       11         109-18-4Tetrachloroethene       11         109-34-5Toluene       11         108-88-3Chlorobenzene       11         100-41-4			11	ט
78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       11       U         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         1061-02-6trans-1,3-Dichloropropene       11       U         108-10-14-Methyl-2-Pentanone       11       U         108-10-14-Methyl-2-Pentanone       11       U         107-18-4Tetrachloroethene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4			11	U
71-55-61,1,1-Trichloroethane       11         56-23-5Carbon Tetrachloride       11         75-27-4Bromodichloromethane       11         78-87-51,2-Dichloropropane       11         10061-01-5cis-1,3-Dichloropropene       11         79-01-6Trichloroethene       11         124-48-1Dibromochloromethane       11         79-00-51,1,2-Trichloroethane       11         71-43-2Benzene       11         10061-02-6trans-1,3-Dichloropropene       11         75-25-2Bromoform       11         108-10-14-Methyl-2-Pentanone       11         591-78-62-Hexanone       11         127-18-4Tetrachloroethene       11         79-34-5Toluene       11         108-88-3Toluene       11         108-90-7Chlorobenzene       11         100-41-4			11	U
56-23-5Carbon Tetrachloride       11         75-27-4Bromodichloromethane       11         78-87-51,2-Dichloropropane       11         10061-01-5cis-1,3-Dichloropropene       11         79-01-6Trichloroethene       11         124-48-1Dibromochloromethane       11         79-00-51,1,2-Trichloroethane       11         71-43-2Benzene       11         10061-02-6trans-1,3-Dichloropropene       11         75-25-2Bromoform       11         108-10-14-Methyl-2-Pentanone       11         591-78-62-Hexanone       11         127-18-4Tetrachloroethene       11         79-34-5Toluene       11         108-88-3Toluene       11         108-90-7Chlorobenzene       11         100-41-4			11	U
75-27-4			11	U
78-87-51,2-Dichloropropane       11       10         10061-01-5cis-1,3-Dichloropropene       11       11         79-01-6Trichloroethene       11       11         124-48-1Dibromochloromethane       11       11         79-00-51,1,2-Trichloroethane       11       11         71-43-2Benzene       11       11         10061-02-6trans-1,3-Dichloropropene       11       11         75-25-2Bromoform       11       11         108-10-14-Methyl-2-Pentanone       11       11         591-78-62-Hexanone       11       11         127-18-4Tetrachloroethene       11       11         79-34-5Toluene       11       11         108-88-3Chlorobenzene       11       11         100-41-4Styrene       11       11			11	U
10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U			11	U
79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U			11	U
124-48-1			11	U
79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U			11	U
71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U			11	U
10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U			11	U
75-25-2			11	U
591-78-62-Hexanone     11     U       127-18-4Tetrachloroethene     11     U       79-34-5Toluene     11     U       108-88-3Toluene     11     U       108-90-7Chlorobenzene     11     U       100-41-4Ethylbenzene     11     U       100-42-5Styrene     11     U			11	U
591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U	108-10-1	4-Methyl-2-Pentanone	11	U
79-34-5			11	U
108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U				U
108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U	79-34-5	1,1,2,2-Tetrachloroethane	11	U
100-41-4Ethylbenzene 11 U			11	U
100-42-5Styrene11 U	108-90-7	Chlorobenzene	11	U
100-42-3 Beyrene	100-41-4	Ethylbenzene	11	ַ
	100-42-5	Styrene	11	U
			11	U

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL
Lab Sample ID: 2880115

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1786.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 6 Data Analyzed: 09/03/96

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

Number TICs found: 9

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

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

CAS NUMBER COMPOUND NAME RT 0 EST. CONC. 3.\_\_\_\_ 10. 13. \_\_\_\_ 14.\_\_\_\_ 15.\_\_\_\_ 16.\_\_\_\_ 18. 19. 20. 21. 22. 23. 24. 25.\_\_\_\_ 29.

B42527

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Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Tab Cample ID. 2000116

Matrix: (soil/water) SOIL Lab Sample ID: 2880116

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1787.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec 4 Date Analyzed: 09/03/96

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

COMPOUND

CAS NO.

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

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

10 U 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4------Vinyl Chloride 10 U 75-00-3-----Chloroethane JB 75-09-2-----Methylene Chloride 4 6 J 67-64-1-----Acetone U 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 10 U 10 75-34-3-----1,1-Dichloroethane\_ U 540-59-0-----1,2-Dichloroethene (total) 10 U 10 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3-----2-Butanone 10 U 71-55-6-----1,1,1-Trichloroethane U 10 56-23-5----- Carbon Tetrachloride U 10 75-27-4-----Bromodichloromethane U 10 78-87-5-----1,2-Dichloropropane\_ U 10 10061-01-5----cis-1,3-Dichloropropene\_ 10 U 79-01-6-----Trichloroethene U 124-48-1-----Dibromochloromethane 10 U 10 79-00-5-----1,1,2-Trichloroethane U 10 71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene U 10 U 10 75-25-2-----Bromoform U 10 108-10-1-----4-Methyl-2-Pentanone U 10 591-78-6-----2-Hexanone 10 U 127-18-4-----Tetrachloroethene U 79-34-5----1,1,2,2-Tetrachloroethane 10 10 IJ 108-88-3-----Toluene U 10 108-90-7-----Chlorobenzene U 10 100-41-4-----Ethylbenzene U 10 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (total)\_

Lab Name: NYTEST ENV INC Contract: 9622208 B42527

Lab Code: NYTEST Case No.: 28758 SAS No.: SD	No.:	TISH
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Matrix: (soil/water) SOIL Lab Sample ID: 2880116

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1787.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 4 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1:				
4.				
5				
9				
10.				
14.				
15. 16. 17.				
19.				
21				
24.				
26. 27.				
28. 29. 30.				

B43537

0

Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO. COMPOUND

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2880117

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1788.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. 13 Date Analyzed: 09/03/96

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

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

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

U 11 74-87-3-----Chloromethane U 11 74-83-9-----Bromomethane U 11 75-01-4-----Vinyl Chloride\_\_\_\_\_ U 11 75-00-3-----Chloroethane JΒ 75-09-2-----Methylene Chloride 15 67-64-1-----Acetone Ū 75-15-0------Carbon Disulfide 11 U 11 75-35-4-----1,1-Dichloroethene 11 U 75-34-3-----1,1-Dichloroethane\_ U 540-59-0----1,2-Dichloroethene (total) 11 U 11 67-66-3-----Chloroform U 11 107-06-2-----1,2-Dichloroethane U 11 78-93-3----2-Butanone U 71-55-6-----1,1,1-Trichloroethane 11 U 11 56-23-5-----Carbon Tetrachloride U 11 75-27-4-----Bromodichloromethane U 11 78-87-5-----1,2-Dichloropropane\_\_\_\_ U 11 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1-----Dibromochloromethane U 11 79-00-5-----1,1,2-Trichloroethane U 11 71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene 11 U U 11 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone U 11 127-18-4----Tetrachloroethene U 79-34-5----1,1,2,2-Tetrachloroethane\_ 11 108-88-3-----Toluene 11 11 U 108-90-7-----Chlorobenzene U 100-41-4-----Ethylbenzene\_\_\_\_ 11 U 11 100-42-5-----Styrene 1330-20-7-----Xylene (total) 11

B43537 Contract: 9622208

Lab Name: NYTEST ENV INC

Lab Code: NYTEST Case No.: 28758 SAS No.:

SDG No.: TISH4

Matrix: (soil/water) SOIL

Lab Sample ID: 2880117

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: M1788.D

Level: (low/med) LOW

Date Received: 08/27/96

% Moisture: not dec. 13

Data Analyzed: 09/03/96

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_(uL)

Number TICs found: 0

Soil Aliquot Volume: \_\_\_\_(uL)

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

CAS NUMBER	COMPOUND NAME		EST. CONC.	
1				_====
2				
3	·····			<del></del>
5				
6				
8.				
9				
11.				
14.		_		
13				
15. 16.		_		
17.				
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22.				
24,		_		
25. 26.				
21.		_		
28.				
30				
		_		

FBS

Contract: 9622208 Lab Name: NYTEST ENV INC

Lab Sample ID: 2880119

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2189.D Level: (low/med) LOW Date Received: 08/27/96

Date Analyzed: 09/03/96 % Moisture: not dec. \_\_\_\_

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L CAS NO. COMPOUND

74-87-3	10 10 10 10 10 10 10 10 10 10 10 10 10 1	מממממממממממממממ
540-59-01,2-Dichloroethene (total)_ 67-66-3Chloroform	_ 10	U
78-93-32-Butanone 71-55-61,1,1-Trichloroethane	10 10	U U
75-27-4Bromodichloromethane	_ 10	Ū
10061-01-5cis-1,3-Dichloropropene	_ 10	Ū
79-00-5Benzene 71-43-2Benzene 10061-02-6trans-1,3-Dichloropropene	10 10 10	U U U
75-25-2Bromoform  108-10-14-Methyl-2-Pentanone  591-78-62-Hexanone		ט ט ט
127-18-4Tetrachloroethene	10	Ū U
108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene	10 10	U U
100-42-5Styrene	10	ָ ט 

		.1	LENTA	LIAELA	IDENTIFIED	COMPOÓNT	)S		
						-	`	FES	
Lab	Name:	NYTEST	ENV	INC	Co	ontract:	9622208		

				,	*
_				4-	
				· 1 <sub>1</sub> .	
				***.	
	* -1- O1- \PMPOM	0 11- 00750	0 2 0 NI-	'S CDC N- DICK	
	Lab Code: NYTEST	Case No · 28/58	SAS NO .	SDG No.: TISH4	
	Day coac. Millor	Cabc 110 20730	C1 10	520 NO.: 110H1	

Matrix: (soil/water) WATER Lab Sample ID: 2880119

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2189.D

Level: (low/med) LOW Date Received: 08/27/96

% Moisture: not dec. \_\_\_\_\_ Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2				
5				
7.				
9.———				
11.				
13.				
14.				
16.				
18				
20.				
22.				
24				
26. 27.				
20.				
29. 30.				

SS-1 ontract: 9622208

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: 2875801

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9868.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec 9 Date Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3			
75-01-4	74-87-3Chloromethane	11	
75-00-3	74-83-9Bromomethane	11	U
75-00-3	75-01-4Vinvl Chloride	11	U
75-09-2		11	U
67-64-1		14	В
75-15-0		10	J
75-35-4			
75-34-31,1-Dichloroethane       11       U         540-59-01,2-Dichloroethene (total)       11       U         67-66-3Chloroform       11       U         107-06-21,2-Dichloroethane       11       U         78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       5       J         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethane       11       U         79-04-8			
540-59-01,2-Dichloroethene (total)       11       U         67-66-3Chloroform       11       U         107-06-21,2-Dichloroethane       11       U         78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       5       J         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloromethane       11       U         79-01-6Trichloroethene       11       U         12-48-1Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-1			
67-66-3			
107-06-21, 2-Dichloroethane       11       U         78-93-32-Butanone       11       U         71-55-61, 1, 1-Trichloroethane       5         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51, 2-Dichloropropane       11       U         10061-01-5cis-1, 3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51, 1, 2-Trichloroethane       11       U         71-43-2Benzene       11       U         1061-02-6trans-1, 3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       5       J         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
71-55-61,1,1-Trichloroethane       5         56-23-5Carbon Tetrachloride       11         75-27-4Bromodichloromethane       11         78-87-51,2-Dichloropropane       11         10061-01-5cis-1,3-Dichloropropene       11         79-01-6Trichloroethene       11         124-48-1Dibromochloromethane       11         79-00-51,1,2-Trichloroethane       11         1061-02-6trans-1,3-Dichloropropene       11         108-10-14-Methyl-2-Pentanone       11         108-10-14-Methyl-2-Pentanone       11         127-18-4Tetrachloroethene       11         108-88-3Toluene       11         108-90-7Chlorobenzene       11         100-41-4Ethylbenzene       11			
56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
75-27-4			
78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Chlorobenzene       11       U         108-90-7Ethylbenzene       11       U			
79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U			
108-90-7Chlorobenzene 11 U 100-41-4Ethylbenzene 11 U	· · ·		
100-41-4Ethylbenzene 11 U			
100 11 1			
100 10 F Observation 1 11 II			
100-42-5	100-42-5Styrene	11	U
1330-20-7Xylene (total)	1330-20-7Xylene (total)	11	ן ט

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: 2875801

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9868.D

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 9 Data Analyzed: 08/29/96

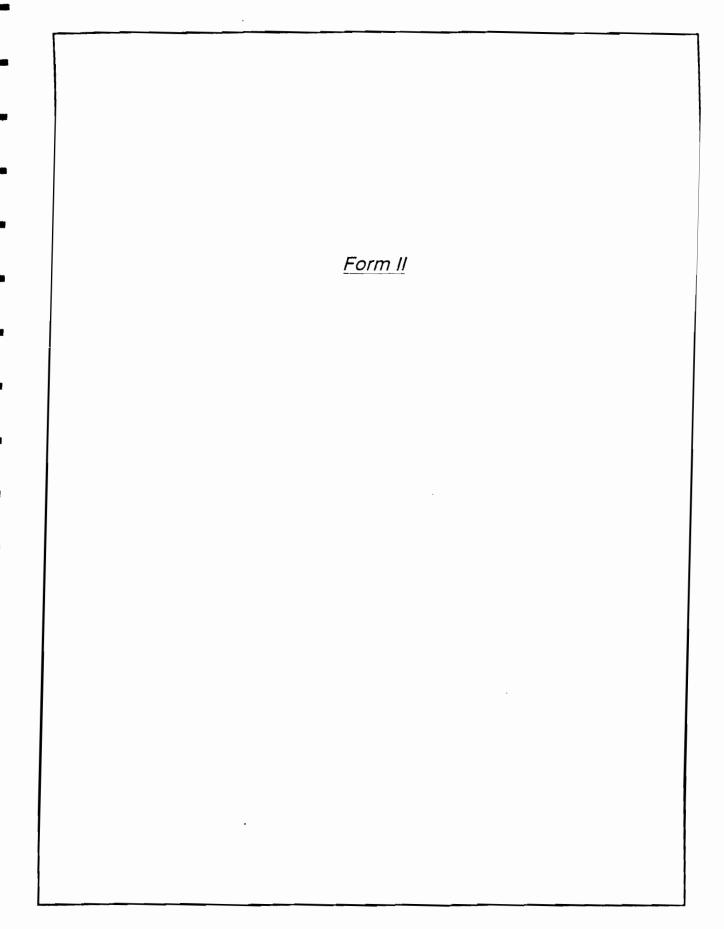
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 0

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

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

COMPOUND NAME RT EST. CONC. 0 CAS NUMBER \_\_\_\_\_\_| 3.\_\_\_\_ 10.\_\_\_\_ 13. 15.\_\_\_ 16.\_\_\_\_ 17. 19. 20. 21. 22. 23. 24. 25.\_\_\_\_ 26. \_\_\_\_\_ 28. \_\_\_\_ 29. 30.



## WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

	NYSDEC	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
	=======================================	=====	=====	======	=====	===
01	VELKP38	101	98	90		0
02	FBS	103	103	102		Ö
03	1100	1 103	1 103	102		"
						\—-
04		l——				
05						
06						
07		\				l
08						
09						
10						
11						
12						
13						<b> </b>
14						
15			<del>-</del>			
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18						
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20 21						
21						
22						
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25						
26						
27						
28						
29						
30	-					

SMC1 (TOL) = Toluene-d8 (88-110) SMC2 (BFB) = Bromofluorobenzene (86-115) SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out

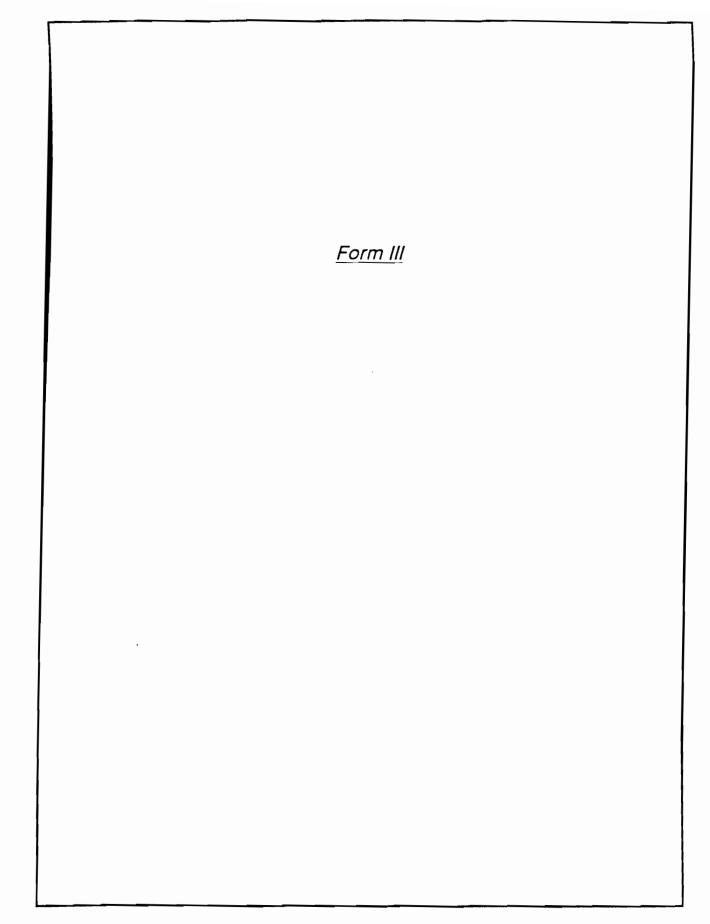
■ Lab Name: NYTEST ENV INC Contract: 9622208

Level: (low/med) LOW

		0)407	CMCO	SMC3	OTHER	TOT
	NYSDEC	SMC1	SMC2		OTHER	OUT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		
	=========	=====	=====	======	=====	===
01	VBLKN12	99	103	95		0
02	SS-1	103	102	98		0
03	B11012	101	103	96	<b></b>	0
04	B12022	100	102	94		0
05	VBLKM70	99	100	94		0
06	MSB	100	100	96		0
07	B22022	99	101	97		0
08	B22022MS	100	100	97	_ <del>_</del>	0
09	B22022MSD	101	103	93		0
10	B22012	100	101	97		0
11	B23032	99	101	99		0
12	B24042	101	102	98		0
13	B25052	59*	100	92		1
14	B31012	100	101	99		0
15	B25052RE	97	104	92		0
16	B32032	99	103	102		0
17	B34042	100	101	102		0
18	B35052	99	101	100		0
19	B13032	98	103	98		0
20	B41517	92	103	102		0
21	B42022	100	101	99		0
22	B42527	99	102	100		0
23	B43537	85	106	102		0
24	B3D	99	102	100		0
25	B32022	99	102	99		0
26						
27						
28						
29						
30						

SMC1 (TOL) = Toluene-d8 (84-138) SMC2 (BFB) = Bromofluorobenzene (59-113) SMC3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out



# 3 A VOLATILE SOIL MATRIX SPIKE BLANK

Lab Name: NYTEST ENV., INC Contract: 9622208

Lab Code: NYTEST SDG No.: TISH4

Matrix Spike Sample No.: M1771 Level: Low

I	SPIKE	BLANK	MSB	MSB	QC
I	ADDED	CONCENTRATION	CONCENTRATION	*	LIMITS
COMPOUND	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC	REC.
_======================================	======	=========			
1,1-Dichloroethene	50	0.0	48.0	96 OK	61 - 145
Trichloroethene	50	0.0	48.0	96 OK	71 - 120
Benzene	50	0.0	52.0	104 OK	76 - 127
Toluene	50	0.0	50.0	100 OK	76 - 125
Chlorobenzene	50	0.0	49.0	98 OK	75 - 130
					i

#Column to be used to flag recovery values with an asterix

\*Values outside of QC limits

Spike Recovery: 0 of 5 outside QC limits

## SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

■ Matrix Spike - NYSDEC Sample No.: B22022 Level(low/med) LOW

COMPOUND	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC #	REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	53 53 53 53 53 53	0 0 0 0	54 52 55 54 54 54	102 98 104 102 102	59-172 62-137 66-142 59-139 60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC L: RPD	IMITS   REC.
=======================================	========	==========	======	=====	=====	=====
1,1-Dichloroethene	53	53	100	2	22	59-172
Trichloroethene	53	49	92	6	24	62-137
Benzene	53	46	87	18	21	66-142
Toluene	53	49	92	10	21	59-139
Chlorobenzene	53	48	90	12	21	60-133

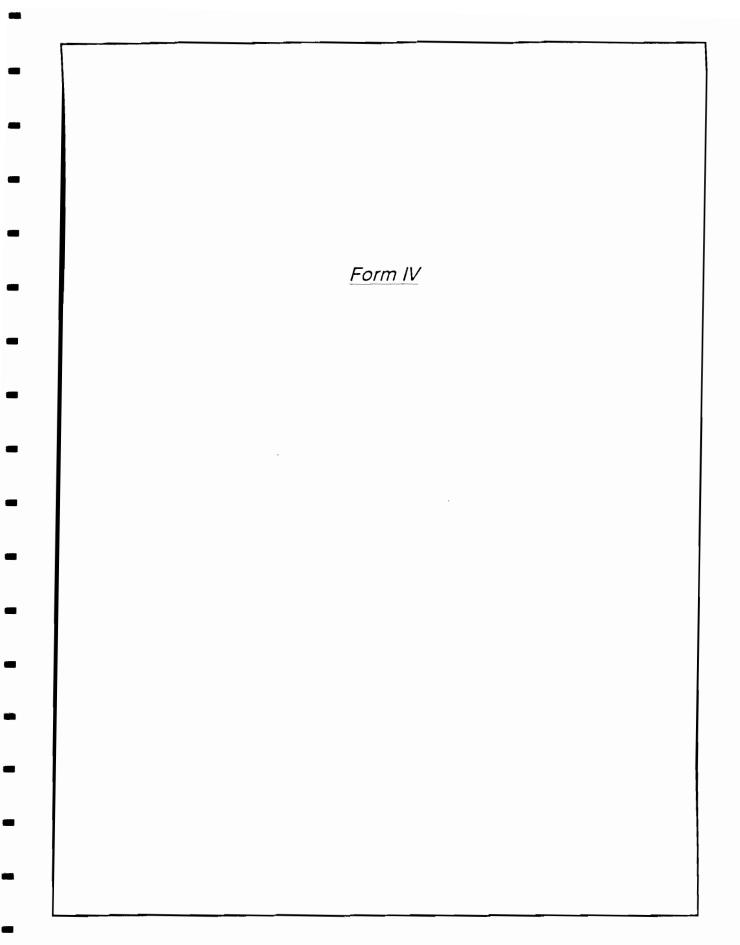
# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:	



## VOLATILE METHOD BLANK SUMMARY

NYSDEC SAMPLE NO.

VBLKM70

Lab Name: NYTEST ENV INC

Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab File ID: M1770.D

Lab Sample ID: VBLKM70

Date Analyzed: 09/03/96

Time Analyzed: 1017

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: HPM

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=========	===========	=======================================	========
01	MSB	MSB	M1771.D	1050
02		2880102	M1772.D	1120
	B22022MS	2880106	M1773.D	1149
	B22022MSD	2880107	M1774.D	1219
05		2880101	M1775.D	1248
06		2880103	M1776.D	1317
07		2880104	M1777.D	1345
	B25052	2880105	M1778.D	1415
	B31012	2880108	M1779.D	1450
	B25052RE	2880105	M1780.D	1520
	B32032	2880110	M1781.D	1548
	B34042	2880111	M1782.D	1619
	B35052	2880112	M1783.D	1649
	B13032	2880113	M1784.D	1719
	B41517	2880114	M1785.D	1749
	B42022	2880115	M1786.D	1819
	B42527	2880116	M1787.D	1849
	B43537	2880117	M1788.D	1919
	B3D	2880118	M1789.D	1949
	B32022	2880109	M1790.D	2018
21				
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26				
27 28				
29				
30				
30				

	COMMENTS:
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VBLKM70

Lab Name: NYTEST ENV INC Contract: 9622208

Matrix: (soil/water) SOIL Lab Sample ID: VBLKM70

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1770.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Date Analyzed: 09/03/96

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

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

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	1	J
67-64-1Acetone	10	U
75-15-0Carbon Disulfide	10	Ū
75-35-41,1-Dichloroethene	10	Ū
75-34-31,1-Dichloroethane	10	Ü
540-59-01,2-Dichloroethene (total)	10	Ū
67-66-3Chloroform	10	Ŭ
107-06-21,2-Dichloroethane	10	Ŭ
78-93-32-Butanone	10	Ŭ
71-55-61,1,1-Trichloroethane	10	Ü
56-23-5Carbon Tetrachloride	10	Ü
75-27-4Bromodichloromethane	10	Ü
78-87-51,2-Dichloropropane	10	Ū
10061-01-5cis-1,3-Dichloropropene	10	Ū
79-01-6Trichloroethene	10	Ū
124-48-1Dibromochloromethane	10	Ū
79-00-51,1,2-Trichloroethane	10	Ū
71-43-2Benzene	10	Ū
10061-02-6trans-1,3-Dichloropropene	10	Ū
75-25-2Bromoform	10	Ū
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	U
100-42-5Styrene	10	U
1330-20-7Xylene (total)	10	U

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: VBLKM70

Sample wt/vol: 5.0 (g/mL) G Lab File ID: M1770.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Data Analyzed: 09/03/96

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

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

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
4.				
5. 6. 7.				
8. 9. 10.				
11. 12. 13.				
13. 14. 15.				
1 10.				
17. 18. 19.				
22.				
24.				
26. 27. 28.				
29.				

VBLKN12

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab File ID: N9853.D

Lab Sample ID: VBLKN12

Date Analyzed: 08/29/96

Time Analyzed: 0948

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: HPN

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB .	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	SS-1	2875801	N9868.D	1756
	B11012	2875802	N9869.D	1827
03	B12022	2875803	N9870.D	1858
04				
05 06				
07				
08				
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11 12				
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	COMMENTS:			
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FORM IV VOA

NYSDEC ASP 12/91

VBLKN12

Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO. COMPOUND

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab Sample ID: VBLKN12 Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9853.D

Level: (low/med) LOW Date Received: 00/00/00

Date Analyzed: 08/29/96 % Moisture: not dec. 0

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

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

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

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	1
75-01-4Vinyl Chloride	10	_
75-00-3Chloroethane	10	1 1
	4	J
75-09-2Methylene Chloride	10	
67-64-1Acetone	10	1
75-15-0Carbon Disulfide		
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	Ü
540-59-01,2-Dichloroethene (total)	10	U U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	ן ט
124-48-1Dibromochloromethane	10	ן ט
79-00-51,1,2-Trichloroethane	10	ן ט
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	ן ט
75-25-2Bromoform	10	ן ט
108-10-14-Methyl-2-Pentanone	10	ן ט
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	ן ט
79-34-51,1,2,2-Tetrachloroethane	10	ן ט
108-88-3Toluene	10	Ū
108-90-7Chlorobenzene	10	Ū
100-41-4Ethylbenzene	10	Ŭ
100-42-5Styrene	10	ان
1330-20-7Xylene (total)	10	บไ
1000 20	10	

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### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

VBLKN12 Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) SOIL Lab Sample ID: VBLKN12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N9853.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 Data Analyzed: 08/29/96

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

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG CAS NUMBER RT COMPOUND NAME EST. CONC. 

VBLKP38

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.:

SDG No.: TISH4

Lab File ID: P2187.D

Lab Sample ID: VBLKP38

Date Analyzed: 09/03/96

Time Analyzed: 0943

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HPP

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	NYSDEC	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01 02	FBS	2880119	P2189.D	1042
03 04				
05 06				
06 07				
08				
09				
10				
11 12				
13				-
14 15				
15 16				
17				
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21				
22				
23				
18 19 20 21 22 23 24 25 26 27				
26				
28				
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30				

	COMMENTS	5:				
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FORM IV VOA

NYSDEC ASP 12/91

VBLKP38

Q

Lab Name: NYTEST ENV INC Contract: 9622208

CAS NO.

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Matrix: (soil/water) WATER Lab Sample ID: VBLKP38

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2187.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. Date Analyzed: 09/03/96

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

COMPOUND

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

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

10 U 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4------Vinyl Chloride 10 U 75-00-3-----Chloroethane U 75-09-2-----Methylene Chloride 10 10 U 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene\_ 10 U 75-34-3-----1,1-Dichloroethane\_ 540-59-0-----1,2-Dichloroethene (total) 10 U 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane 10 U 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 U 78-87-5-----1,2-Dichloropropane\_ U 10 10061-01-5----cis-1,3-Dichloropropene U 10 79-01-6-----Trichloroethene Ū 10 124-48-1-----Dibromochloromethane U 10 79-00-5----1,1,2-Trichloroethane\_ 10 U 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 108-10-1-----4-Methyl-2-Pentanone 10 U U 10 591-78-6----2-Hexanone U 127-18-4-----Tetrachloroethene 10 79-34-5-----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5----Styrene 1330-20-7-----Xylene (total) 10 U

VBLKP38

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab Sample ID: VBLKP38 Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P2187.D

Date Received: 00/00/00 Level: (low/med) LOW

Data Analyzed: 09/03/96 % Moisture: not dec. \_\_\_\_\_

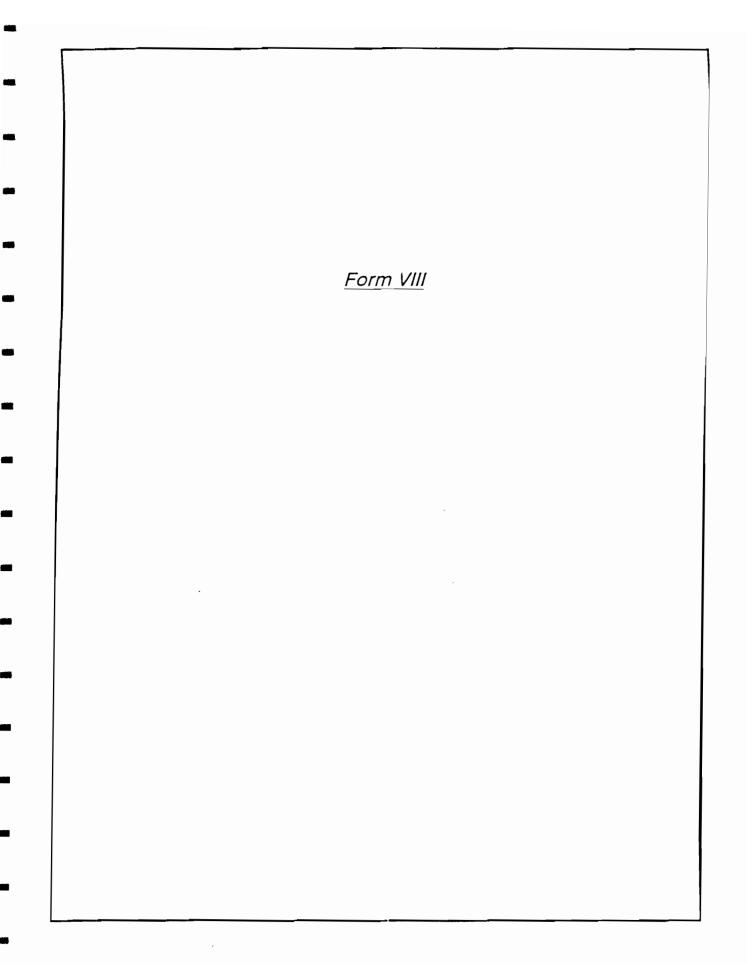
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.				
2. 3. 4.				
5				
7				
10.				
12.				
13. 14. 15.				
17.				
19.				
21.				
22. 23. 24.				
26.				
28.				
29 30				



#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab File ID (Standard): M1769.D Date Analyzed: 09/03/96

Instrument ID: HPM Time Analyzed: 0934

GC Column:CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 (BCM)		IS2(DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
		=========	======	========	======	========	======
	12 HOUR STD	149590	8.75	721108	10.14	591548	16.14
	UPPER LIMIT	299180	9.25	1442216	10.64	1183096	16.64
	LOWER LIMIT	74795	8.25	360554	9.64	295774	15.64
	=========	========	======	========	======	========	======
	NYSDEC						
	SAMPLE NO.						
	=========	=======	======	=======	======	=======	======
01	VBLKM70	157808	8.77	802418	10.17	676416	16.15
02	MSB	154563	8.74	718074	10.15	582524	16.14
03	B22022	118750	8.75	575859	10.15	484897	16.14
04	B22022MS	114354	8.76	553418	10.15	451467	16.14
05	B22022MSD	124598	8.74	588571	10.13	527667	16.13
06	B22012	143129	8.76	692252	10.15	571874	16.13
07	B23032	142816	8.75	707689	10.15	590635	16.14
08	B24042	146041	8.75	728603	10.15	595099	16.14
09	B25052	129480	8.85	472906	10.22	556008	16.05
10	B31012	162681	8.74	793797	10.14	655982	16.13
11	B25052RE	129717	8.85	258088*	10.11	575917	16.11
12	B32032	151566	8.75	725806	10.15	620470	16.13
13	B34042	130252	8.75	644456	10.15	533437	16.13
14	B35052	138586	8.75	648861	10.15	541549	16.14
15	B13032	143796	8.75	695744	10.15	569731	16.14
16	B41517	134097	8.76	616139	10.15	528928	16.14
17	B42022	163381	8.76	788705	10.16	656437	16.14
18	B42527	136927	8.76	659407	10.15	556134	16.14
19	B43537	95011	8.76	418313	10.15	363436	16.14
20	B3D	118805	8.76	574650	10.16	486140	16.14
21	B32022	152888	8.76	730032	10.15	606359	16.15
22							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab File ID (Standard): P2186.D Date Analyzed: 09/03/96

Instrument ID: HPP Time Analyzed: 0901

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		TO1 /DOM		TOO (DDD)		T02 (cmg)	
		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	"
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	=========	========		========	======	========	======
	12 HOUR STD	217304	7.59	1017890	9.03	782283	14.87
	UPPER LIMIT	434608	8.09	2035780	9.53	1564566	15.37
	LOWER LIMIT	⊥08652	7.09	508945	8.53	391142	14.37
	NYSDEC SAMPLE NO.	========	=====	========	======	=======	======
	=======================================	========	=======	========	======	=========	======
01	VBLKP38	203692	7.57	1060706	9.00	808995	14.85
02	FBS	204007	7.57	978607	9.01	751109	14.86
03							
04							!
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

■ Lab Name: NYTEST ENV INC Contract: 9622208

Lab Code: NYTEST Case No.: 28758 SAS No.: SDG No.: TISH4

Lab File ID (Standard): N9852.D Date Analyzed: 08/29/96

Instrument ID: HPN Time Analyzed: 0912

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 (BCM)		IS2 (DFB)	1	IS3 (CBZ)	<del></del>
			, D.M. 11		D		
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	10 HOLD OWN		======	========	======	=========	======
	12 HOUR STD	248721	9.03	1403912	10.43	1112103	16.46
	UPPER LIMIT	497442	9.53	2807824	10.93	2224206	16.96
	LOWER LIMIT	124360	8.53	701956	9.93	556052	15.96
	========	========	======	========	======	========	======
	NYSDEC						
	SAMPLE NO.						
	========	=======	=======	=======	======	========	======
01	VBLKN12	230828	9.03	1278419	10.44	1012677	16.47
02	SS-1	165918	9.02	932578	10.45	702058	16.48
03	B11012	142877	9.04	790142	10.44	626651	16.48
04	B12022	237336	9.04	1375619	10.45	1109587	16.49
05							
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21							
22		-					
22							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT RT LOWER LIMIT - 0.50 minutes of internal standard RT

<sup>#</sup> Column used to flag values outside QC limits with an asterisk.

<sup>\*</sup> Values outside of QC limits.

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