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May 19, 2000

New Jersey Department of Environmental Protection
Bureau of Federal Case Management
CN 028
401 East State Street
Trenton, New Jersey 08625-1454

**RE: Results of Long-Term Groundwater Monitoring Program
Fort Monmouth, Building 750
Fort Monmouth, New Jersey
NJDEP Case #92-05-07-1600**

Dear Mr. Ian R. Curtis

ATC Associates, Inc. (ATC), on behalf of Fort Monmouth, presents in this letter, a summary report describing the results of the long-term monitoring program conducted for the investigation of the former underground storage tank (UST) piping system at Building 750 at Fort Monmouth, New Jersey. Provided below is a brief site history and summary of previous investigations, excerpted from the *Site Investigation Report* dated May 1994, prepared by Weston for the Fort Monmouth, Building 750. The site history and summary of previous investigations is followed by a description of the results of the long-term monitoring program to date.

Site History

Building 750 is located on Alexander Avenue within the Main Post of Fort Monmouth. A site map detailing the tank farm and former piping locations is provided as Figure 1. Building 750 is an active military vehicle repair and maintenance facility constructed in 1986.

On 7 May 1992, excavation of the former piping and dispensers was performed under Substantial Modification permit TMS #S-91-2811. Approximately 150 feet of steel, single walled piping was to be removed and replaced with fiberglass, double walled piping including a piping leak detection system. During excavation activities, elevated volatile organic compounds (VOCs) were detected with the use of an organic vapor analyzer (OVA). As a result, the Directorate of Public Works notified the New Jersey Department of Environmental Protection (NJDEP) Hotline and the facility was assigned NJDEP case #92-05-07-1600. On 11 May 1992, excavation of the impacted soils continued. A total of 1,140 cubic yards of impacted soils were removed from the site. No groundwater was detected in the excavation.

Analytical results of twenty soil samples collected from the piping excavation on 2 June 1992, indicated no concentrations of the analyzed compounds were detected above the NJDEP subsurface cleanup criteria. Four groundwater monitoring wells were installed in 1992 to determine the groundwater impact, if any. The following summarizes the Site Investigation.

Previous Investigations- Site Investigation

Monitoring Well Installation

On 30 October and 3 November 1992, four groundwater monitoring wells (MW-1 through MW-4) were installed in the area of the former piping excavation. The boring logs indicate that the lithology consisted of fill material comprised of slag, cinder, sand, and silt to approximately 2 to 3.5 feet below the ground surface (bgs). The fill material was underlain by brown silty sand with little gravel. The wells were each completed to a depth of 15 feet bgs. Groundwater was encountered at approximately 3 feet bgs across the site.

Soil Sampling

Analytical results of soil samples collected from the well borings, indicates total petroleum hydrocarbon (TPH) concentrations were detected at 177.0 milligrams per kilogram (mg/kg), not detected, 8.20 mg/kg, and 11.0 mg/kg from MW-1, MW-2, MW-3, and MW-4, respectively.

Groundwater Monitoring

The four monitoring wells were monitored on 21 April 1993. The depth to groundwater was found to range from 3.68 feet bgs (MW-3) to 4.25 feet bgs (MW-2). The groundwater flow direction was determined to be in a northeast direction. This groundwater flow direction is consistent with the previous data.

Groundwater Sampling

The four monitoring wells were sampled on 21 April 1993. The groundwater samples were analyzed for volatile organic compound with a library search of fifteen tentatively identified compounds (VO+15), base/neutral compounds with a library search of fifteen tentatively identified compounds (BN+15), and total lead. Initial analytical results indicate that sample MW-4 reported concentrations of benzene and total xylenes, which exceed the NJDEP Groundwater Quality Criteria for Class II-A.

A long-term monitoring program was recommended, including quarterly groundwater sampling of the existing wells.

Offsite Groundwater Usage

A well search was performed according to NJDEP regulations. The file search produced 104 well records within one-half mile of the subject site. A review of the well records indicated there were 90 monitoring wells in the area. The closest downgradient well to the site was identified as an irrigation well located approximately 4,500 feet to the northeast.

Results of the Long-Term Monitoring Program

As part of the long-term monitoring program for Building 750, the four existing monitoring wells (MW-1 through MW-4) were sampled on 8 November 1994, 30 November 1994, 12 February 1997, and 9 April 1997. Prior to sampling, each well was gauged and groundwater elevations were then calculated from depth-to-water measurements. Groundwater elevation data are summarized in Table 1, located in Appendix A of this report. A groundwater elevation contour map showing groundwater flow direction based on the most recent groundwater elevation measurements (April 1997) is provided as Figure 1, located in Appendix A. Groundwater flow direction was determined to be to the northeast. A groundwater sampling summary is provided in Appendix A as Table 2. After gauging each well, the wells were purged and sampled. All sampling procedures were conducted in accordance with the NJDEP Field Sampling Procedures Manual. The samples were analyzed for VO+15 using EPA Method 624 and total lead.

The analytical results from each sampling event were compared to the NJDEP Groundwater Quality Standards (GWQS). Each constituent that exceeded the established GWQS was then compared to its maximum background concentration, as identified in the 1994 *Site Investigation Report* prepared by Weston.

A review of the historical groundwater analytical results indicates that concentrations of benzene have been detected above the NJDEP GWQS in groundwater samples collected from monitoring wells MW-1 and MW-4. Other compounds such as methyl tertiary butyl ether (MTBE), tetrachloroethene, methylene chloride, and total lead have been detected on occasion through this sampling period, however, only benzene has consistently exceeded the NJDEP GWQS. Methylene chloride has been consistently detected, however, methylene chloride is commonly found as a laboratory contaminant and was also observed in quality control blanks. The highest benzene concentration to date has been 13.91 micrograms per liter ($\mu\text{g/L}$) in MW-1 on 10 April 1997. The groundwater analytical data, included in Attachment B, is summarized in Attachment A, Tables 3 through 6. A groundwater quality map for 10 April 1997 is included in Attachment A as Figure 2.

ATC, on behalf of Fort Monmouth, recommends that a determination be made to obtain a conditional No Further Action (NFA) with a Classification Exception Area (CEA). Based on the relatively low concentrations present in the groundwater at the subject site and the lack of potential receptors, ATC believes this site qualifies for a conditional NFA with a CEA. According to the NJDEP document titled "Final Guidance on Designation of

Classification Exception Areas", four criteria are necessary to obtain a conditional NFA with a CEA in UST cases. The criteria are as follows:

- Source and source area are remediated (i.e. no soils contamination above the site-specific impact to groundwater criteria and no product remaining);
- Decreasing groundwater contaminant trends are established based upon site-specific groundwater monitoring and a sound technical decision can be made to predict the duration it will take to meet the GWQS;
- Monitoring of groundwater clearly indicates that contaminants have not and will not migrate beyond given boundaries; and
- No receptors are at risk and public water supply is available.

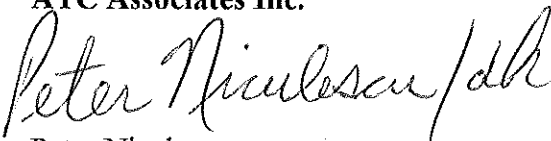
The site may qualify for a conditional NFA with a CEA due to the following:

- The source and impacted soils in the source area have been removed;
- Concentrations of benzene in MW-4 have decreased from the initial concentration of 12 µg/L (04/21/93) to not detected (04/10/97). Concentrations of benzene in MW-1 continue to remain relatively low and fluctuate. Concentrations in downgradient well MW-2 continue to remain not detected;
- CEA boundaries have not been determined, however, ATC believes that contaminants will not migrate beyond given boundaries based on historical data. CEA boundaries need to be determined based on further aquifer characterization, i.e. hydraulic gradient and conductivity;
- No receptors have been identified to date.

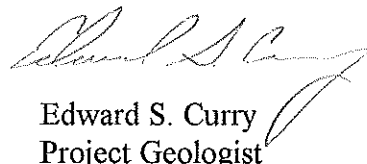
If you have any questions or concerns regarding this summary report, please feel free to contact me at (609) 386-8800.

Sincerely,

ATC Associates Inc.



Peter Niculescu
Senior Project Geologist



Edward S. Curry
Project Geologist

Enclosures: Appendix A – Tables and Figures
Appendix B – Groundwater Analytical Data Reports

cc: Project File

APPENDIX A
TABLES AND FIGURES

TABLE 1
GROUNDWATER ELEVATIONS
Fort Monmouth, Main Post
Site 750

Well ID/ Date	Casing Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Groundwater Elevation (ft)
MW-1				
04/09/97	18.79	4.10	NA	14.69
02/12/97	18.79	4.30	NA	14.49
11/30/94	18.79	5.86	NA	12.93
11/08/94	18.79	6.39	NA	12.40
MW-2				
04/09/97	18.61	3.86	NA	14.75
02/12/97	18.61	4.10	NA	14.51
11/30/94	18.61	NA	NA	NA
11/08/94	18.61	NA	NA	NA
MW-3				
04/09/97	19.04	4.30	NA	14.74
02/12/97	19.04	4.45	NA	14.59
11/30/94	19.04	5.64	NA	13.40
11/08/94	19.04	6.11	NA	12.93
MW-4				
04/09/97	18.98	4.30	NA	14.68
02/12/97	18.98	4.45	NA	14.53
11/30/94	18.98	5.92	NA	13.06
11/08/94	18.98	6.44	NA	12.54

Notes:

NA - Not Applicable

TABLE 2
SAMPLING SUMMARY
Fort Monmouth, Main Post
Site 750

Sample Identification	Laboratory Identification	Sample Date	Sample Time	Sample Matrix	Sample Analyses
750-1	2250909	11/08/94	12:35	Groundwater	VO+15, Pb
750-3	2250910	11/08/94	12:51	Groundwater	VO+15, Pb
750-4	2250911	11/08/94	13:06	Groundwater	VO+15, Pb
108-FB	2250904	NA	NA	Water	VO+15, Pb
2562-TB	2250916	NA	NA	Water	VO+15, Pb
750-1	2263316	11/30/94	9:17	Groundwater	VO+15, Pb
750-3	2263317	11/30/94	9:29	Groundwater	VO+15, Pb
750-4	2263318	11/30/94	9:35	Groundwater	VO+15, Pb
2044-FB	2263325	NA	NA	Water	VO+15, Pb
2044-TB	2263327	NA	NA	Water	VO+15, Pb
Bldg. 750 MW #1	2329.5	02/12/97	15:15	Groundwater	VO+15, Pb
Bldg. 750 MW #2	2329.6	02/12/97	15:05	Groundwater	VO+15, Pb
Bldg. 750 MW #3	2329.3	02/12/97	11:05	Groundwater	VO+15, Pb
Bldg. 750 MW #4	2329.4	02/12/97	11:30	Groundwater	VO+15, Pb
Field Blank	2329.2	02/12/97	10:15	Water	VO+15, Pb
Field Duplicate	2329.7	02/12/97	NA	Water	VO+15, Pb
Trip Blank	2329.1	02/12/97	8:00	Water	VO+15, Pb
B.750/MW-1	2442.06	04/10/97	15:00	Groundwater	VO+15, Pb
B.750/MW-2	2442.05	04/10/97	14:20	Groundwater	VO+15, Pb
B.750/MW-3	2442.03	04/10/97	10:30	Groundwater	VO+15, Pb
B.750/MW-4	2442.04	04/10/97	11:15	Groundwater	VO+15, Pb

Notes:

NA - Not Available

VO+15 - Volatile organic compounds with a library search of fifteen tentatively identified compounds

Pb - Total lead

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - 11/08/94
Fort Monmouth, Main Post
Site 750

Sample Identification Lab Identification	750-1 2250909	750-3 2250910	750-4 2250911	NJDEP GWQS
Total Lead	23.0	24.4	201.0	10

Detected Volatile Organic Compounds	750-1	750-3	750-4	NJDEP GWQS
1,1,1-Trichloroethane	1	ND	ND	30
Methyl Tertiary Butyl Ether	ND	4	110	70
Methylene Chloride	ND	ND	3	3
Benzene	ND	ND	4	1
# of TICs	15	0	13	NA
TIC Concentration (total)	1,951	ND	176	

Notes:

1. All results reported in micrograms per liter ($\mu\text{g/L}$).
 2. All results exceeding NJDEP GWQS are denoted in bold.
- NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
ND- Not detected
NA- Not applicable

TABLE 4
GROUNDWATER ANALYTICAL RESULTS - 11/30/94
Fort Monmouth, Main Post
Site 750

Sample Identification Lab Identification	750-1 2263316	750-3 2263317	750-4 2263318	NJDEP GWQS
Total Lead	3.2	15.0	4.7	10

Detected Volatile Organic Compounds	750-1	750-3	750-4	NJDEP GWQS
Methyl Tertiary Butyl Ether	ND	6	45	70
Benzene	ND	ND	8	1
# of TICs	5	2	15	NA
TIC Concentration (total)	47	14	198	

Notes:

1. All results reported in micrograms per liter ($\mu\text{g/L}$).
 2. All results exceeding NJDEP GWQS are denoted in bold.
- NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
ND- Not detected
NA- Not applicable

TABLE 5
GROUNDWATER ANALYTICAL RESULTS - 02/12/97
Fort Monmouth, Main Post
Site 750

Sample Identification Lab Identification	Bldg. 750 MW#1 2329.5	Bldg. 750 MW #2 2329.6	Bldg. 750 MW #3 2329.3	Bldg. 750 MW #4 2329.4	NJDEP GWQS
Total Lead	1.9	<0.5	<0.5	<0.5	10

Detected Volatile Organic Compounds	Bldg. 750 MW#1	Bldg. 750 MW #2	Bldg. 750 MW #3	Bldg. 750 MW #4	NJDEP GWQS
Methylene Chloride	2.88	2.23	3.21	2.95	3
Benzene	11.71	ND	ND	ND	1
Ethylbenzene	3.31	ND	ND	ND	700
Xylenes (total)	11.67	ND	ND	ND	40
1,1-Dichloroethane	ND	ND	1.95	ND	70
1,1,1-Trichloroethane	ND	ND	10.51	4.34	30
Tetrachloroethene	ND	ND	1.71	ND	1
1,4-Dichlorobenzene	1.17	ND	ND	ND	75

Notes:

1. All results reported in micrograms per liter ($\mu\text{g/L}$).
 2. All results exceeding NJDEP GWQS are denoted in bold.
- NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
ND- Not detected

TABLE 6
GROUNDWATER ANALYTICAL RESULTS - 04/10/97
Fort Monmouth, Main Post
Site 750

Sample Identification Lab Identification	B.750/MW-1 2445.06	B.750/MW-2 2445.05	B.750/MW-3 2445.03	B.750/MW-4 2445.04	NJDEP GWQS
Total Lead	2.3	3.0	2.1	3.1	10.00

Detected Volatile Organic Compounds	B.750/MW-1	B.750/MW-2	B.750/MW-3	B.750/MW-4	NJDEP GWQS
Methylene Chloride	3.48	3.41	3.39	2.95	3
Benzene	13.91	ND	ND	ND	1
Ethylbenzene	5.36	ND	ND	ND	700
Xylenes (total)	13.93	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	6.31	7.31	30
# of TICs	15	1	1	2	NA
TIC Concentrations (total)	434	3	6	40	

Notes:

1. All results reported in micrograms per liter ($\mu\text{g/L}$).
 2. All results exceeding NJDEP GWQS are denoted in bold.
- NJDEP- New Jersey Department of Environmental Protection
GWQS- Groundwater Quality Standard
TIC- Tentatively identified compound
ND- Not detected
NA- Not applicable

X X

MW-2
14.75

14.69
MW-1

UST Field
15K Diesel UST
8K Gasoline UST

MW-3
14.74

Building
750

Fuel
Dispensing
Island

Fuel
Dispensing
Island

Legend:



Monitoring Well

MW-4
14.68



Groundwater Flow Direction



FIGURE 1 GROUNDWATER CONTOUR MAP (04/09/97)

Site Address:

U.S. Army Fort Monmouth, Main Post
Building 750
Fort Monmouth, New Jersey

Client: U.S Army Fort Monmouth, NJ
Directorate of Public Works

ATC Project Number: 68.02711.0001

ATC
Associates, Inc.

Three Terri Lane, Burlington, New Jersey 08016

Scale: 1" = 50'

APPENDIX B

ANALYTICAL DATA REPORTS

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (908)532-6224 FAX: (908)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT

FOR

Directorate of Public Works

Fort Monmouth, NJ 07703

PROJECT : DERA Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 745, 707, 750

LABORATORY ID #	MONITOR WELL #	NJDEP WELL ID #	SAMPLE DATE
2442.03	B.745/MW-1	2931782	04/09/97
2443.01	B.707/MW-1	2931780	04/09/97
2443.02	B.707/MW-2	2931781	04/09/97
2445.03	B.750/MW-3	2928994	04/10/97
2445.04	B.750/MW-4	2928995	04/10/97
2445.05	B.750/MW-2	2928993	04/10/97
2445.06	B.750/MW-1	2928992	04/10/97

NJDEP Laboratory Certification # 13461

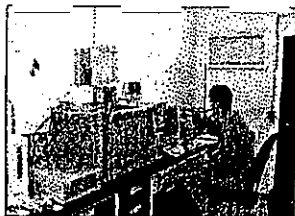
Report Date: 15 October, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: <u>Chuck Appleby</u>		Project No:		Analysis Parameters								Comments:	
Phone #:		Location: <u>Bldg #750</u>											
() DERA () MOMA () Other:													
Samplers Name / Company: <u>Ray Pogwist</u>				Sample #									Remarks / Preservation Method
Lab Sample I.D.	Sample Location	Date	Time	Type	bottles	624 + 15	TAL PB						
2445.01	Trip Blank	4/10/97	0800	AQ	2	X ²							
.02	Field Blank		1000		3	X ²	X ¹					(624-HCl, TAL-HNO ₃) All Samples kept ≤ 4°C	
.03	Bldg 750 MW3		1030		3	X ²	X ¹					# 2928994	
.04	Bldg 750 MW4		1115		3	X ²	X ¹					# 2928995	
.05	Bldg 750 MW2		1420		3	X ²	X ¹					# 29-28993	
.06	Bldg 750 MW1		1500		3	X ²	X ¹					# 29-28992	
.07	Field Dup				3	X ²	X ¹						
Relinquished by (signature): <u>[Signature]</u> Date/Time: <u>4/10/97 1545</u> Received by (signature): <u>[Signature]</u> Date/Time: <u>4-10-97</u>													
Relinquished by (signature): Date/Time: Received by (signature): Date/Time:													
Report Type: () Full, () Reduced, (X) Standard, () Screen / non-certified						Remarks:							
Turnaround time: (X) Standard 4 wks, () Rush _____ Days, () ASAP Verbal _____ Hrs.													

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 750

MW# 3

NJDEP ID# 2928994

NJDEP CERT# 13461

SAMPLING CONTRATOR TVS

SAMPLER RAY POGWIST

DATE 4/10/97

WEATHER SUNNY WINDY 40'S

ELEVATION OF CASING SURVEY MARK

DTW 4.30

DEPTH OF WELL 13.85

HEIGHT OF WATER 9.55

9.55 X 0.65 X 3 = 18.62

GAL OF H2O TO BE EVACUATED 18.62 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 9:15

pH 5.50 TEMP 48.1 DEG F

DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 521 us/cm

PURGE END TIME 10:20

pH 6.20 TEMP 50.3 DEG F

DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 561 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.30 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon @ bailer

TOTAL VOLUME PURGED: 18.7 GAL

pH 6.25 TEMP 50.1 DEG F

DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 575 us/cm

COMMENTS: _____

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 750
MW# 4
NJDEP ID# 2928995
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/10/97 WEATHER SUNNY WINDY 40'S

ELEVATION OF CASING SURVEY MARK

DTW 4.30

DEPTH OF WELL 14.25

HEIGHT OF WATER 9.95

9.95 X 0.65 X 3 = 19.40

GAL OF H2O TO BE EVACUATED 19.40 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 9:25

pH 6.30 TEMP 49.5 DEG F

DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY 501 us/cm

PURGE END TIME 11:10

pH 7.11 TEMP 52.0 DEG F

DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 6.25 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.30 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer

TOTAL VOLUME PURGED: 19.5 GAL

pH 7.25 TEMP 52.1 DEG F

DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 630 us/cm

COMMENTS: _____

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 750
MW# 2
NJDEP ID# 2928993
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/10/97 WEATHER SUNNY WINDY 40'S

ELEVATION OF CASING SURVEY MARK

DTW 3.86

DEPTH OF WELL 13.75

HEIGHT OF WATER 9.89

9.89 X 0.65 X 3 = 19.29

GAL OF H2O TO BE EVACUATED 19.29 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 13:10

pH 8.20 TEMP 52.8 DEG F

DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 106 us/cm

PURGE END TIME 14:15

pH 7.51 TEMP 54.8 DEG F

DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 60 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.59 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon @ bailer

TOTAL VOLUME PURGED: 19.3 GAL

pH 7.47 TEMP 55.1 DEG F

DISSOLVED O2 2.4 PPM SPECIFIC CONDUCTIVITY 57 us/cm

COMMENTS: _____

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 750
MW# 1
NJDEP ID# 2928992
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/10/97 WEATHER SUNNY WINDY 40'S

ELEVATION OF CASING SURVEY MARK

DTW 4.10

DEPTH OF WELL 13.45

HEIGHT OF WATER 9.35

9.35 X 0.65 X 3 = 18.23

GAL OF H2O TO BE EVACUATED 18.23 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 13:20

pH 7.65 TEMP 55.1 DEG F

DISSOLVED O2 3.0 PPM SPECIFIC CONDUCTIVITY 230 us/cm

PURGE END TIME 14:55

pH 7.02 TEMP 55.5 DEG F

DISSOLVED O2 2.5 PPM SPECIFIC CONDUCTIVITY 225 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 4.70 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon @ bailer

TOTAL VOLUME PURGED: 18.23 GAL

pH 6.97 TEMP 55.8 DEG F

DISSOLVED O2 2.3 PPM SPECIFIC CONDUCTIVITY 2.22 us/cm

COMMENTS: _____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00580.d**
 Operator **Paul Skelton**
 Date Acquired **04/21/97 17:23**

Sample Name **2442.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	45842	4.83 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00581.d**
 Operator **Paul Skelton**
 Date Acquired **04/21/97 18:10**

Sample Name **2442.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	140304	16.70 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00586.d**
 Operator **Paul Skelton**
 Date Acquired **04/21/97 22:08**

Sample Name **2445.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	31870	3.88 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name v00587.d
 Operator Paul Skelton
 Date Acquired 04/21/97 22:56

Sample Name 2445.02
 Field ID Field Blank
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.50	33116	3.95 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name v00588.d
 Operator Paul Skelton
 Date Acquired 04/21/97 23:43

Sample Name 2445.03
 Field ID Bldg 750 MW3
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.50	28563	3.39 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane	19.53	38046	6.31 ug/L	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00589.d**
 Operator **Paul Skelton**
 Date Acquired **04/22/97 12:31**

Sample Name **2445.04**
 Field ID **Bldg 750 MW4**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	28146	3.36 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane	19.53	43759	7.31 ug/L	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00590.d**
 Operator **Paul Skelton**
 Date Acquired **04/22/97 01:19**

Sample Name **2445.05**
 Field ID **Bldg 750 MW2**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.50	28197	3.41 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00591.d**
 Operator **Paul Skelton**
 Date Acquired **04/22/97 02:07**

Sample Name **2445.06**
 Field ID **Bldg 750 MW1**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	27725	3.48 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene	20.71	157935	13.91 ug/L	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene	29.43	25998	5.36 ug/L	1.14 ug/L	700
1330-20-7	m+p-Xylenes	29.61	25392	10.90 ug/L	2.53 ug/L	na
1330-20-7	o-Xylene	30.73	17347	3.03 ug/L	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **V00592.D**
 Operator **Paul Skelton**
 Date Acquired **04/22/97 02:55**

Sample Name **2445.07**
 Field ID **Field Duplicate**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	30024	3.44 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

Lab Name: FMETL Project _____

NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2445.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00586.D

Level: (low/med) LOW Date Received: 04/10/97

% Moisture: not dec. _____ Date Analyzed: 04/21/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project _____
NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 2445.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00587.D
Level: (low/med) LOW Date Received: 04/10/97
% Moisture: not dec. _____ Date Analyzed: 04/21/97
GC Column: RTX-502 ID: 0.25 (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 NO.	COMPOUND	RT	EST. CONC.	Q
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW3

Lab Name: FMETL Project _____
NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 2445.03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00588.D
Level: (low/med) LOW Date Received: 04/10/97
% Moisture: not dec. _____ Date Analyzed: 04/21/97
GC Column: RTX-502 ID: 0.25 (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/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000471-29-4	Guanidine, methyl-	14.12	6	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW4

Lab Name: FMETL Project _____
NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 2445.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00589.D
Level: (low/med) LOW Date Received: 04/10/97
% Moisture: not dec. _____ Date Analyzed: 04/22/97
GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000000-00-0	Acetyl hydroxyamino	13.94	2	JN
2. 001634-04-4	Propane, 2-methoxy-2-methyl-	14.12	38	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project _____

NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2445.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00590.D

Level: (low/med) LOW Date Received: 04/10/97

% Moisture: not dec. _____ Date Analyzed: 04/22/97

GC Column: RTX-502 ID: 0.25 (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: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 004744-10-9	Propane, 1,1-dimethoxy-	13.95	3	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project _____

NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2445.06

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00591.D

Level: (low/med) LOW Date Received: 04/10/97

% Moisture: not dec. _____ Date Analyzed: 04/22/97

GC Column: RTX-502 ID: 0.25 (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: 15

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000096-37-7	Cyclopentane, methyl-	17.36	26	JN
2. 000123-75-1	Pyrrolidine	23.43	7	JN
3. 000098-82-8	Benzene, (1-methylethyl)-	32.87	10	JN
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.98	20	JN
5. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.98	41	JN
6. 000620-14-4	Benzene, 1-ethyl-3-methyl-	35.21	7	JN
7. 000105-05-5	Benzene, 1,4-diethyl-	35.55	19	JN
8. 000135-98-8	Benzene, (1-methylpropyl)-	35.69	11	JN
9. 000538-93-2	Benzene, (2-methylpropyl)-	35.77	33	JN
10. 000000-00-0	Lyratyl acetate	36.14	9	JN
11. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	36.47	23	JN
12. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	36.76	40	JN
13. 000767-58-8	Indan, 1-methyl-	37.38	63	JN
14. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	37.75	87	JN
15. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	37.95	38	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project _____

NJDEP # 13461 Case No.: 2445 Location B.750 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2445.07

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00592.D

Level: (low/med) LOW Date Received: 04/10/97

% Moisture: not dec. _____ Date Analyzed: 04/22/97

GC Column: RTX-502 ID: 0.25 (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: 9

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	13.93	30	JN
2. 075332-26-2	Furo[2,3-b]pyridine, 2-methyl-	26.85	2	JN
3. 000091-20-3	Naphthalene	31.05	29	JN
4. 017059-48-2	1H-Indene, 2,3-dihydro-1,6-dimet	33.67	2	JN
5. 001685-82-1	1H-Indene, 2,3-dihydro-4,6-dimet	34.88	6	JN
6. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6	35.35	14	JN
7. 003637-01-2	Ethanone, 1-(3,4-dimethylphenyl)	35.45	6	JN
8. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6	37.44	2	JN
9. 000090-12-0	Naphthalene, 1-methyl-	38.11	47	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2445.02-.07
Sample Received: 4/10/97
Analysis Start: 4/22/97
Analysis Completed: 4/22/97

Site: Ft. Monmouth
Building 750

Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	MDL (ug/L)
2445.02	Field Blank	1.8	0.5
2445.03	Bldg. 750 MW #3	2.1	0.5
2445.04	Bldg. 750 MW #4	3.1	0.5
2445.05	Bldg. 750 MW #2	3.0	0.5
2445.06	Bldg. 750 MW #1	2.3	0.5
2445.07	Field Duplicate	3.3	0.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable



Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Page 1 of 1

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**U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET**

IJO#95-0091

BLDG.#: 750 MW#: 1 NJDEP WELL ID # 29-28792

LABORATORY: _____ NJDEP CERT # _____

SAMPLING CONTRACTOR: LTUS

SAMPLERS NAMES: Ray Pogwisch

DATE: 2/18/97

WEATHER CONDITIONS: overcast 30's

ELEVATION OF CASING SURVEY MARK: _____ FT

TOTAL DEPTH FROM TOP OF SURVEYORS MARK: _____ FT

DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT

LENGTH OF SCREENED SECTION: _____ FT

DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 4.30 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING: _____ FT

PID/Hnu READING IMMEDIATELY AFTER CAP REMOVAL: 0 PPM

DEPTH OF WELL: 13.45 FT HEIGHT OF WATER: 9.15 FT

GAL OF H2O TO BE EVACUATED (EST) 17.85 GAL

(9.15 X 0.65 X 3 = 17.84)

PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) peristaltic pump

PURGE RATE (0.5 GPM): 0.2 GPM 90

PURGE START TIME: 1330

pH: 8.60 s.u.

TEMP: 50.1 Deg.C

Dissolved Oxygen: 3.5 PPM Specific Conductivity: 288 us/cm

PURGE END TIME: 1510

pH: 8.31 s.u.

TEMP: 51.2 Deg.C

Dissolved Oxygen: 3.2 PPM Specific Conductivity: 308 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 5.50 FT

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSPM 1992) TEFLON (R) BAILER

TOTAL VOLUME PURGED: 17.85 GAL

pH: 8.21 s.u.

TEMP: 51.9 Deg.C

Dissolved Oxygen: 3.0 PPM Specific Conductivity: 305 us/cm

COMMENTS: Husky ball elev - 7.24'

**U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET**

IJO#95-0091

BLDG.#: 750 MW#: 3 NJDEP WELL ID # 2928994

LABORATORY: _____ NJDEP CERT # _____

SAMPLING CONTRACTOR: TUS

SAMPLERS NAMES: Rmy Pogwist

DATE: 2/12/97

WEATHER CONDITIONS: overcast 30's

ELEVATION OF CASING SURVEY MARK: _____ FT
TOTAL DEPTH FROM TOP OF SURVEYORS MARK: _____ FT
DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT
LENGTH OF SCREENED SECTION: _____ FT
DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 4.45 FT
ELEVATION OF GW PRIOR TO PURGING: _____ FT
THICKNESS OF LNAPL PRIOR TO PURGING: _____ FT

PID/IRU READING IMMEDIATELY AFTER CAP REMOVAL: 0 PPM

DEPTH OF WELL: 13.85 FT HEIGHT OF WATER: 9.4 FT

GAL OF H2O TO BE EVACUATED (EST) 18.33 GAL 91.65

$(9.4 \times 0.65 \times 3 = 18.33)$ 61.1

PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) peristaltic pump

PURGE RATE (0.5 GPM): 0.2 GPM

PURGE START TIME: 945

pH: 9.35 s.u.

TEMP: 47.2 Deg. ^{0F}

Dissolved Oxygen: 3.2 PPM Specific Conductivity: 528 us/cm

PURGE END TIME: 1120

pH: 8.75 s.u.

TEMP: 49.0 Deg. C

Dissolved Oxygen: 3.0 PPM Specific Conductivity: 601 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 4.45 FT

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSQM 1992) TEFLON (R) SAILER

TOTAL VOLUME PURGED: 18.4 GAL

pH: 8.70 s.u.

TEMP: 48.1 Deg. C

Dissolved Oxygen: 2.9 PPM Specific Conductivity: 610 us/cm

COMMENTS: _____

**U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET**

IJO#95-0091

BLDG.#: 750 MW#: 2 NJDEPE WELL ID # 29-28993

LABORATORY: _____ NJDEP CERT # _____

SAMPLING CONTRACTOR: TUS

SAMPLERS NAMES: Ray Pognist

DATE: 2/12/97

WEATHER CONDITIONS: overcast 30's

ELEVATION OF CASING SURVEY MARK: _____ FT

TOTAL DEPTH FROM TOP OF SURVEYORS MARK: _____ FT

DEPTH FROM SURVEYORS MARK TO SCREEN: 2 FT

LENGTH OF SCREENED SECTION: _____ FT

DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 4.10 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING: _____ FT

PID/Hnu READING IMMEDIATELY AFTER CAP REMOVAL: 0 PPM

DEPTH OF WELL: 13.75 FT HEIGHT OF WATER: 9.65 FT

GAL OF H2O TO BE EVACUATED (EST) 18.81 GAL
 $(9.65 \times 0.65 \times 3 = 18.81)$

PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) peristaltic pump

PURGE RATE (0.5 GPM): 0.3 GPM

PURGE START TIME: 1320

pH: 9.08 s.u.

TEMP: 49.2 Deg.C

Dissolved Oxygen: 3.5 PPM Specific Conductivity: 82 us/cm

PURGE END TIME: 1500

pH: 8.71 s.u.

TEMP: 50.1 Deg.C

Dissolved Oxygen: 3.2 PPM Specific Conductivity: 130 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 6.80 FT

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSPM 1992) TEFLON (R) BAILER

TOTAL VOLUME PURGED: 18.9 GAL

pH: 8.78 s.u.

TEMP: 50.3 Deg.C

Dissolved Oxygen: 2.8 PPM Specific Conductivity: 142 us/cm

COMMENTS: _____

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

IJO#95-0091

BLDG.#: 750 MW#: 4 NJDEP WELL ID # 29 28 995

LABORATORY: _____ NJDEP CERT # _____

SAMPLING CONTRACTOR: TVS

SAMPLERS NAMES: Roy Pogwiser

DATE: 2/2/97

WEATHER CONDITIONS: overcast 30's

ELEVATION OF CASING SURVEY MARK: _____ FT
TOTAL DEPTH FROM TOP OF SURVEYORS MARK: _____ FT
DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT
LENGTH OF SCREENED SECTION: _____ FT
DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 4.45 FT
ELEVATION OF GW PRIOR TO PURGING: _____ FT
THICKNESS OF LNAPL PRIOR TO PURGING: _____ FT

PID/IRU READING IMMEDIATELY AFTER CAP REMOVAL: 0 PPM
DEPTH OF WELL: 14.25 FT HEIGHT OF WATER: 9.80 FT
GAL OF H2O TO BE EVACUATED (EST) 14.11 GAL
 $(9.8 \times 0.65 \times 3 = 19.11)$ ²³

PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) peristaltic pump
PURGE RATE (0.5 GPM): 0.3 GPM

PURGE START TIME: 955
pH: 8.75 s.u. TEMP: 46.9 Deg.C
Dissolved Oxygen: 3.9 PPM Specific Conductivity: 779 us/cm

PURGE END TIME: 1100
pH: 8.65 s.u. TEMP: 47.3 Deg.C
Dissolved Oxygen: 3.2 PPM Specific Conductivity: 698 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 4.45 FT
SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSMP 1992) TEFLON (R) BAILER
TOTAL VOLUME PURGED: 14.11 GAL
pH: 8.61 s.u. TEMP: 47.5 Deg.C
Dissolved Oxygen: 3.1 PPM Specific Conductivity: 691 us/cm

COMMENTS: _____

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2329.2-.7
Sample Received: 2/12/97
Analysis Start: 2/21/97
Analysis Completed: 2/21/97

Site: Ft. Monmouth
Building 750

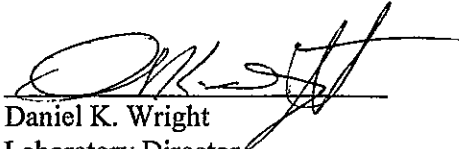
Matrix: Aqueous

Method of Analysis: Std. Methods 18th, Method 3113B
Method of Digestion: NA

TEST PARAMETER: LEAD

Laboratory ID#	Sample Location Identification	Result (ug/L)	MDL (ug/L)
2329.2	Field Blank	<0.5	0.5
2329.3	Bldg. 750 MW #3	<0.5	0.5
2329.4	Bldg. 750 MW #4	<0.5	0.5
2329.5	Bldg. 750 MW #1	1.9	0.5
2329.6	Bldg. 750 MW #2	<0.5	0.5
2329.7	Field Duplicate	<0.5	0.5

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable


Daniel K. Wright
Laboratory Director

FMETL - GC/MS Volatile Data

Sample Name **Daily Blank**

Date Acquired

02/26/97 14:59

Misc Info

Operator

Paul Skelton

Data File Name **v00152.d**

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.46	1.50	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.1
Misc Info Trip Blank 02/12/97
Data File Name V00153.D

Date Acquired 02/26/97 16:03
Operator Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.45	2.22	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.2
Misc Info Field Blank 02/12/97
Data File Name v00154.d

Date Acquired
Operator

02/26/97 16:52
Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.46	2.49	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.3
Misc Info Bldg 750 MW # 3
Data File Name v00155.d

Date Acquired
Operator

02/26/97 17:41
Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.45	3.21	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	15.96	1.95	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	19.49	10.51	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	27.29	1.71	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.4
Misc Info Bldg 750 MW # 4
Data File Name v00156.d

Date Acquired 02/26/97 18:32
Operator Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.45	2.95	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	19.50	4.34	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.5
Misc Info Bldg 750 MW # 2
Data File Name v00157.d

Date Acquired 02/26/97 19:22
Operator Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.44	2.23	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	0.00	0.00	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	0.00	0.00	ug/L	1.14
1330207	m+p-Xylenes	0.00	0.00	ug/L	2.53
1330207	o-Xylene	0.00	0.00	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	0.00	0.00	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.6
Misc Info Bldg 750 MW # 1
Data File Name v00158.d

Date Acquired
Operator

02/26/97 20:12
Paul Skelton

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.46	2.88	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	20.68	11.71	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	0.00	0.00	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	29.43	3.31	ug/L	1.14
1330207	m+p-Xylenes	29.62	8.48	ug/L	2.53
1330207	o-Xylene	30.73	3.19	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	0.00	0.00	ug/L	2.51
106467	1,4-Dichlorobenzene	35.35	1.17	ug/L	3.08
95501	1,2-Dichlorobenzene	0.00	0.00	ug/L	2.75

FMETL - GC/MS Volatile Data

Sample Name 2329.7

Date Acquired

02/26/97 21:01

Misc Info Field Duplicate

Operator

Paul Skelton

Data File Name v00159.d

<u>CAS #</u>	<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>MDL</u>
	Dichlorodifluoromethane	0.00	0.00	ug/L	3.63
74873	Chloromethane	0.00	0.00	ug/L	0.79
75014	Vinyl Chloride	0.00	0.00	ug/L	2.61
74839	Bromomethane	0.00	0.00	ug/L	1.45
75003	Chloroethane	0.00	0.00	ug/L	2.20
75694	Trichlorofluoromethane	0.00	0.00	ug/L	1.31
75354	1,1-Dichloroethene	0.00	0.00	ug/L	0.74
67641	Acetone	0.00	0.00	ug/L	1.57
75150	Carbon Disulfide	0.00	0.00	ug/L	0.54
540590	Methylene Chloride	13.46	3.33	ug/L	1.66
75092	trans-1,2-Dichloroethene	0.00	0.00	ug/L	0.50
75353	1,1-Dichloroethane	0.00	0.00	ug/L	0.83
108054	Vinyl Acetate	0.00	0.00	ug/L	2.07
78933	2-Butanone	0.00	0.00	ug/L	2.06
	cis-1,2-Dichloroethene	0.00	0.00	ug/L	0.65
67663	Chloroform	0.00	0.00	ug/L	0.43
75555	1,1,1-Trichloroethane	0.00	0.00	ug/L	0.81
56235	Carbon Tetrachloride	0.00	0.00	ug/L	1.20
71432	Benzene	20.69	12.64	ug/L	0.51
107062	1,2-Dichloroethane	0.00	0.00	ug/L	1.27
79016	Trichloroethene	0.00	0.00	ug/L	0.94
78875	1,2-Dichloropropane	0.00	0.00	ug/L	0.78
75274	Bromodichloromethane	0.00	0.00	ug/L	0.77
110758	2-Chloroethyl vinyl ether	0.00	0.00	ug/L	1.05
10061015	cis-1,3-Dichloropropene	0.00	0.00	ug/L	0.60
108101	4-Methyl-2-Pentanone	0.00	0.00	ug/L	1.33
108883	Toluene	25.62	1.19	ug/L	0.73
10061026	trans-1,3-Dichloropropene	0.00	0.00	ug/L	1.43
79005	1,1,2-Trichloroethane	0.00	0.00	ug/L	1.49
127481	Tetrachloroethene	0.00	0.00	ug/L	0.92
591786	2-Hexanone	0.00	0.00	ug/L	1.12
126481	Dibromochloromethane	0.00	0.00	ug/L	1.36
108907	Chlorobenzene	0.00	0.00	ug/L	0.66
100414	Ethylbenzene	29.43	3.91	ug/L	1.14
1330207	m+p-Xylenes	29.62	9.61	ug/L	2.53
1330207	o-Xylene	30.73	3.64	ug/L	1.92
100425	Styrene	0.00	0.00	ug/L	1.57
75252	Bromoform	0.00	0.00	ug/L	1.68
79345	1,1,2,2-Tetrachloroethane	0.00	0.00	ug/L	1.71
541731	1,3-Dichlorobenzene	35.09	1.43	ug/L	2.51
106467	1,4-Dichlorobenzene	35.34	1.85	ug/L	3.08
95501	1,2-Dichlorobenzene	36.31	1.40	ug/L	2.75



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9421415
Log in No.: 22633D
P.O. No.: Pending
Date: 2/21/95
SDG No.: Army 3
NJDEPE Case #: 92-05-07-1600

ANALYTICAL DATA REPORT
PACKAGE FOR

Aguilar Associates

30 Freneau Avenue

Matawan, NJ 07747

ATTN: Darryl Schmitt
REF: US Army Fort Monmouth, Well# and NJDEPE Reg# 1-2928992,3-2928994,4-2928995
Sample Location Bldg. 750

LABORATORY
NUMBER

SAMPLE
IDENTIFICATION

TYPE OF
SAMPLE

SEE NEXT PAGE

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

NYS Lab ID. #10195
NJ Cert. #73469

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

Jon Bepp
REMO GIGANTE
EXEC. VICE PRESIDENT

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. 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.

NYTEST ENVIRONMENTAL Inc

LABORATORY NUMBER	SAMPLE IDENTIFICATION	WELL #	TYPE OF SAMPLE
2263316	751-1	1-2928992	Water
2263317	750-3	3-2928994	Water
2263318	750-4	4-2928995	Water
2263325	2044-FB	-	Water
2263327	2044-TB	-	Water

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BLDG.#: 750 W#: 1 NJDEP WELL ID # 2928992

U.S. ARMY FORT MONMOUTH

MONITORING WELL SAMPLING DATASHEET

DATE: 11-30-94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #: 73469

SAMPLERS NAMES: D. Schmitt, N. Vorasek, S. Panizzi

WEATHER CONDITIONS: Mild 40's, cold, windy

ELEVATION OF CASING SURVEY MARK: 16.79

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 14.09 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: 5.0 FT

LENGTH OF SCREENED SECTION: 10 FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 5.86 FT

ELEVATION OF GW PRIOR TO PURGING: 12.93 FT

THICKNESS OF LNAPL PRIOR TO PURGING: - FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 1 PPM

pH: 6.90 TEMP: 13.5 C, SPECIFIC CONDUCTIVITY: 840 μ S

DEPTH OF WELL: 14.09

D.O. 1.0

HEIGHT OF WATER: 8.23

EVACUATED GAL. H₂O: 16 (8.23 X .65 X 3 = 16.04)

PURGING START TIME: 8:30 END TIME: 9:00

PURGE METHOD: REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM): 0.5 GPM

TOTAL VOLUME PURGED: 16 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 5.88 FT

DISSOLVED OXYGEN: 1.2 pH: 7.48 TEMP: 14 C

SPECIFIC CONDUCTIVITY: 760 μ S

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 9:10 END TIME: 9:17

DISSOLVED OXYGEN: 2.0 pH: 7.05 TEMP: 13 °C

SPECIFIC CONDUCTIVITY: 760 μ S

COMMENTS: Purged water has sheen

BLDG.#: 750 MW#: 3 NJDEPE WELL ID # 2928993

U.S. ARMY FORT MONMOUTH

MONITORING WELL SAMPLING DATASHEET

DATE: 11-30-94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #:73469

SAMPLERS NAMES: D. Schmitt, N. Vorasek, S. Panizzi

WEATHER CONDITIONS: Mid 40s, cold, windy

ELEVATION OF CASING SURVEY MARK: _____

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 13.99 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT

LENGTH OF SCREENED SECTION: _____ FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 5.64 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING : - FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 0 PPM

pH: 4.92 TEMP: 16 C, SPECIFIC CONDUCTIVITY: 240 μ S

DEPTH OF WELL: 13.99 FT

D.O. - 1.8

HEIGHT OF WATER: 8.35 FT

EVACUATED GAL. H2O: 16 GAL (8.35 X .65 X 3 = 16.28)

PURGING START TIME: 8:30 END TIME: 9:01

PURGE METHOD: REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM): 0.5 GPM

TOTAL VOLUME PURGED: 12 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 11.76 FT

DISSOLVED OXYGEN: 2.0 pH: 5.10 TEMP: 17.5 °C

SPECIFIC CONDUCTIVITY: 230 μ S

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 9:20 END TIME: 9:29

DISSOLVED OXYGEN: 6.5 pH: 5.31 TEMP: 16.5 °C

SPECIFIC CONDUCTIVITY: 240 μ S

COMMENTS: Pumped dry after 12 gallons

BLDG.#: 750 MW#: 4 NJDEPE WELL ID # 2928994

U.S. ARMY FORT MONMOUTH

MONITORING WELL SAMPLING DATASHEET

DATE: 11-30-94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #: 73469

SAMPLERS NAMES: D. Schmitt, N. Venasek, S. Panizzi

WEATHER CONDITIONS: Mid 40's, cold, windy

ELEVATION OF CASING SURVEY MARK:

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 13.54 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: FT

LENGTH OF SCREENED SECTION: FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 5.92 FT

ELEVATION OF GW PRIOR TO PURGING: FT

THICKNESS OF LNAPL PRIOR TO PURGING : — FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 0 PPM

pH: 5.76 TEMP: 15 C, SPECIFIC CONDUCTIVITY: 220 μ S

DEPTH OF WELL: 13.54 FT

HEIGHT OF WATER: 7.62 FT

EVACUATED GAL. H2O: 15 GAL (7.62 X .65 X 3 = 14.86)

PURGING START TIME: 8:30 END TIME: 8:45

PURGE METHOD: REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM): 0.5 GPM

TOTAL VOLUME PURGED: 6.5 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 7.20 FT

DISSOLVED OXYGEN: 7.1 pH: 6.34 TEMP: 15 °C

SPECIFIC CONDUCTIVITY: 240 μ S

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 9:27 END TIME: 9:35

DISSOLVED OXYGEN: 4.6 pH: 5.58 TEMP: 15.5 °C

SPECIFIC CONDUCTIVITY: 210 μ S

COMMENTS: Water in well box. Pumped dry after 6.5 gallons

U.S. ARMY FORT MONMOUTH

P.O. #: *Aguilar / 94-0843*

Chain of Custody

Project #: <i>Q2-05-07-1600</i>		Sampler: <i>D. Schmitt - Aguilar Associates</i>		Date / Time: <i>11/30/94 1200</i>		Analysis Parameters		Start:	
Customer: <i>C. Appleby</i>		Site Name: <i>Bids 750</i>						Finish:	
SELEm - p.w. EV		DICAR#: <i>Q2-05-07-1600</i>							
Phone: <i>(908) 532-6224</i>		MW Samplings						Preservation Method	
Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	WVHIS, xylene, TBA	MTBE	Total Lead		Remarks
<i>1744.1</i>	<i>11/30/94 9:17</i>	<i>MW-1, 2928992</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			<i>Sample Kept 4°C</i>
<i>2</i>	<i>11/30/94 9:29</i>	<i>MW-3, 2928994</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			<i>0</i>
<i>✓ 3</i>	<i>11/30/94 9:35</i>	<i>MW-4, 2928995</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			<i>0</i>
<i>1741.8</i>	<i>11/29/94 9:53</i>	<i>Field Blank</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			
<i>1741.7</i>	<i>11/29/94 9:25</i>	<i>Trip Blank</i>	<i>AQ</i>	<i>2</i>	<i>✓</i>				
<i>1741.9</i>	<i>11/29/94</i>	<i>Duplicate</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			
<i>1741.10</i>	<i>11/29/94 10:11</i>	<i>MW-6, ms/DS, 2936978</i>	<i>AQ</i>	<i>3</i>	<i>✓</i>	<i>✓</i>			<i>Hnu SN 801497</i>
									<i>Hnu = 0 ppm</i>
									<i>calibrated 11/23/94</i>
									<i>50 ppm Benzene surrogate</i>
									<i>11405 50 ppm span 2.8</i>
Relinquished By (signature): <i>Daniel W. Schmitt</i>		Date / Time: <i>11/30/94 1200</i>		Received By (signature): <i>Shah D. Hubbard</i>		Shipped By: <i>D. Schmitt</i>			
Relinquished By (signature):		Date / Time:		Received for Lab by (signature):				Date / Time:	

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody. *NOTE*



FAX: (516) 625-1274

page # : i of 1

Client Name Asphalt Assoc. & Cons., Inc.
Address 30 Freneau Ave.
Matawan, NJ 07747

Project Manager D. Schmitt
Phone (908) 290-7800 FAX (908) 290-7800
Project Name Fort Monmouth Bldg. 750
Project Number 92-05-07-1600
P.O. # _____

Analytical Protocol _____ Deliverables _____
Sampled By D. Schmitt

Login #: _____
 Ship to: _____
 Nytest Environmental Inc.
 60 Seaview Blvd
 Port Washington N.Y. 11050
 Attn.: Sample Control
 Date Shipped: _____
 Carrier: _____
 Air Bill #: _____
 Cooler #: _____
 C of C #: _____
 SDG #: _____
 NEI QT #: _____

[illegible]

Relinquished by: Darryl W. Schmitt
Print Name: Darryl W. Schmitt

Date	Time
11/30/91	1600

Received by: [Signature]
Print Name: T. R. [Signature]
Received by: _____

Date / Time	11/30/94 16:00
-------------	----------------

Relinquished by: _____

Print Name: _____

Date / Time

Received by: J. A. [illegible]

Print Name: [illegible]

Date / Time

Relinquished by: Thomas Zymanowski
Print Name: T. Zymanowski

Date / Time	11/30/94 1600
-------------	---------------

Received by Laboratory: _____
Print Name: Rishi Prasad

Date	Time
30/24	1600

Special Instructions : _____

CLIENT RETAINS YELLOW COPY ONLY

Lab Use Only

Custody Seal:	Intact	Broken	Absent
---------------	--------	--------	--------

Sample Rec'd in Good Condition? ☒ Y ☐ N

Sample Temperature: _____ Degree Celsius

INSPECTED BY: [Signature]

COMMENTS:



nytest environmental.

(516) 625-5500

FAX: (516) 625-1274

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

Chain of Custody Record

page #: 1/01

Client Name: Aguilar Assoc. & Cons., Inc.
 Address: 30 Freneau Ave.
Matawan, NJ 07747
 Project Manager: D. Schmitt
 Phone: (908) 290-7800 FAX: (908) 290-7806
 Project Name: Fort Monmouth Bldg 296
 Project Number: 93-11-2-1200-13
 P.O. #: _____
 Analytical Protocol: _____ Deliverables: _____
 Sampled By: D. Schmitt

Analysis Requested

Login #: 22632
 Ship to:
 Nytest Environmental Inc.
 60 Seaview Blvd
 Port Washington N.Y. 11050
 Attn.: Sample Control
 Date Shipped: _____
 Carrier: _____
 Air Bill #: _____
 Cooler #: _____
 C of C #: _____
 SDG #: _____
 NEI QT #: _____

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Location
1	m w - 1	11/24/94	11:50	Stickup Bld 296
2	m w - 2		11:40	Street Bld 296
3	m w - 3		10:00	Stickup Bld 296
4	m w - 6		10:11	Stickup Bld 296
5	m w - 7		10:30	fence Bld 296
6	m w - 8		9:20	Street Bld 296
7	F i e l d B		9:53	Red Blank
8	T r i p B L		9:25	trip blank
9	D u p l i c		-	Duplicate
10,11	m w - 6 m s		10:11	mgsd

No. of Containers

62115 24 hrs
 1708, 780
 7011 1000

Bin #'s In / Out (Lab Use Only)

Comments

Relinquished by: Darryl W. Schmitt
 Print Name: Darryl W. Schmitt
 Relinquished by: _____

Date / Time
11/24/94 11:00

Received by: T. Pymanowski
 Print Name: T. Pymanowski
 Received by: _____

Date / Time
11/30/94 16:00

Relinquished by: T. Pymanowski
 Print Name: T. Pymanowski
 Relinquished by: _____

Date / Time
11/30/94 18:20

Received by: Pierri Pierides
 Print Name: Pierri Pierides
 Received by: _____

Date / Time
11/30/94 18:20

Special Instructions: _____

000002

Lab Use Only

Custody Seal: Intact Broken: _____ Absent: _____
 Sample Rec'd in Good Condition?: (X) N
 Sample Temperature: 6 Degrees Celsius
 INSPECTED BY: (PP)
 COMMENTS: _____



FAX: (516) 625-1274

page # : 1 of 1

Client Name Asular Assoc. & Cons., Inc.
Address 30 Freneau Ave.
Matawan, NJ 07747

Project Manager D. Schmitt
Phone (908) 290-7800 FAX (908) 290-7806
Project Name Fort Monmouth Bldg 2044
Project Number _____
P.O. # _____
Analytical Protocol _____ Deliverables _____
Sampled By _____

Login #: _____
 Ship to: _____
 Nytest Environmental Inc.
 60 Seaview Blvd
 Port Washington N.Y. 11050
 Attn.: Sample Control
 Date Shipped: _____
 Carrier: _____
 Air Bill #: _____
 Cooler #: _____
 C of C #: _____
 SDG #: _____
 NEI QT #: _____

[illegible]

Relinquished by: Darryl W. Schmitt
Print Name: Darryl W. Schmitt
Relinquished by: _____

Date / Time

Received by: Thomas J. Manovich
Print Name: T. Pymanowski

Date / Time

Relinquished by: _____

Print Name: _____

Date / Time

Received by:

Date / Time

Relinquished by: T. Pymanowski
Print Name: T. Pymanowski

Date / Time

Received by Laboratory

Date / Time

Special Instructions : _____

CLIENT RETAINS YELLOW COPY ONLY

Lab Use Only

Custody Seals:	Intact	Broken	Absent
----------------	--------	--------	--------

Sample Rec'd in Good Condition? ☒ Y ☐ N

Sample Temperature: _____ Degree Celsius

INSPECTED BY: [Signature]

COMMENTS

NY TEST ENVIRONMENTAL INC.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample		NAME: <u>Pierre Pierdes</u>	TITLE: <u>SSO</u>
Client: <u>Aguilar Associates</u>	Date Broken: <u>11/29/94</u>	Military Time Seal Broken: <u>1820</u>	
Login #: <u>22633</u>	Analytical Parameter/Fraction: <u>P624+15, Pb, 8080PEST, 8150</u>		

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
296-1	22633-01	296-6MSD	22633-11
296-2	02	290-1	12
296-3	03	108-1	13
296-6	04	108-2	14
296-7	05	108-3	15
296-8	06	750-1	16
296-FB	07	750-3	17
296-TB	08	750-4	18
296-DUP	09	2562-1	19
296-6MS	10	2562-2	20

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
12/1/94	1152	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>M. Lan</u>	PRINTED NAME <u>VERB CALEK</u> SIGNATURE <u>V</u>	P624+15
12/1/94	1310	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>M. Lan</u>	PRINTED NAME <u>CVoss</u> SIGNATURE <u>C. Voss</u>	8080PEST, 8150
12/6/94	1300	PRINTED NAME <u>CVoss</u> SIGNATURE <u>C. Voss</u>	PRINTED NAME <u>P. PIRADES</u> SIGNATURE <u>P. P</u>	STORAGE
12/6/94	1443	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>M. Lan</u>	PRINTED NAME <u>A. Frimpong</u> SIGNATURE <u>A. Frimpong</u>	P6
12/8/94	1500	PRINTED NAME <u>A. Frimpong</u> SIGNATURE <u>A. Frimpong</u>	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>M. Lan</u>	STORAGE
12/13/94	0800	PRINTED NAME <u>VERB CALEK</u> SIGNATURE <u>V</u>	PRINTED NAME <u>M. LANI</u> SIGNATURE <u>M. Lan</u>	STORAGE
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	000004

LABORATORY DELIVERABLES

Check if
Complete

- | | |
|---|-----------|
| 1. Cover page, Title page listing Lab Certification# facility name & address, & date of report | <u>✓</u> |
| 2. Table of Contents | <u>✓</u> |
| 3. Summary sheets listing analytical results for all targeted and non-targeted compounds | <u>NA</u> |
| 4. Summary Table cross-referencing field ID #'s vs. Lab ID #'s | <u>✓</u> |
| 5. Document bound, paginated and legible | <u>✓</u> |
| 6. Chain of Custody | <u>✓</u> |
| 7. Methodology Summary | <u>✓</u> |
| 8. Laboratory Chronicle and Holding Time check | <u>✓</u> |
| 9. Results submitted on a dry weight basis (if applicable) | <u>NA</u> |
| 10. Method Detection Limits | <u>NA</u> |
| 11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP | <u>✓</u> |
| 12. Non-Conformance Summary | <u>✓</u> |

Lori Bay
Laboratory Manager or Environmental
Consultant's Signature

2/21/95
Date

000005

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	No	Yes
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)	—	✓
2. GC/MS Tune Specifications		
a. BFB Meet Criteria	—	✓
b. DFTPP Meet Criteria	—	✓
3. GC/MS Tune Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series.	—	✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	—	✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds	—	✓
b. System Performance Check Compounds	—	✓
6. Blank Contamination - If yes, list compounds and concentrations in each blank:		
a. VOA fraction	Vish 39 Mcd, 2.6 ppb, Valt 41 Mcd, 1.4 ppb, Vish 63 Xylol, 1.3 ppb	
b. B/N Fraction	Vish 63 Xylol, 1.3 ppb	
c. Acid Fraction	Vish 63 Xylol, 1.3 ppb	
7. Surrogate Recoveries Meet Criteria	✓	✓
If not met, list those compounds and their recoveries which fall outside the acceptable range:		
a. VOA Fraction	See form 2C NA em 12/18/95	
b. B/N Fraction	See form 2C NA em 12/18/95	
c. Acid Fraction	See form 2C NA em 12/18/95	
If not met, were the calculations checked and the results qualified as estimated?		
	NA	✓
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (if not met, list these compounds and their recoveries which fall outside the acceptable range)	✓	✓
a. VOA Fraction	Benzene (156)	
b. B/N Fraction	See recovery reports NA em 12/18/95	
c. Acid Fraction	See recovery reports NA em 12/18/95	
9. Internal Standard Area/Retention Time Shift Meet Criteria	NA	

000006

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (CONT.)

No Yes

10. Extraction Holding Time Met

____ NA ____

If not met, list number of days exceeded
each sample: _____

11. Analysis Holding Time Met

____ ✓ ____

If not met, list number of days exceeded
for each sample: _____

Additional Comments: _____

Laboratory Manager: _____

Joni Beup

Date _____

2/21/95

000007

METAL ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

No Yes

1. Calibration Summary Meet Criteria ✓
2. ICP Interference Check Sample Results Summary
Submitted (if applicable) / Meet Criteria NA
3. Serial Dilution Summary Submitted
(if applicable) / Meet Criteria NA ✓ *(ES 2/9/95)*
4. Laboratory Control Sample Summary
Submitted (if applicable) / Meet Criteria ✓
5. Blank Contamination - If yes, list compounds
concentrations in each blank: ✓

6. Matrix Spike/Matrix Spike Duplicate Recoveries
Meet Criteria (If not met, list those compounds
and their recoveries which fall outside the
acceptable range) ✓
SEE FORMS...

7. Extraction Holding Time Met ✓
If not met, list number of days exceeded for each
sample: _____

8. Analysis Holding Time Met ✓
If not met, list number of days exceeded for each
sample: _____

Additional Comments: _____

Laboratory Manager: Jon Blay Date: 2/21/95

000008

Laboratory Chronicle

Client Name: Aguilar Associates
Date(s) of Sample Collection: 11/30/94
Date Received: 11/30/94
Sample ID: As per chain of custody

Log In No.: 22633D

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Herbicides _____

Analysis:

12/1/94

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Herbicides _____

Section Supervisor

Review & Approval

Jon Bey

Digestion - 12/06/94

Analysis - 12/16/94, 12/19/94

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor

Review & Approval

Jon Bey

Quality Control Supervisor

Review & Approval

Jon Bey

Dates are included for re-extractions and reanalysis.

000009

NARRATIVE DISCUSSION
VOLATILES - 22633D

=====

Building 750

INTRODUCTION

This narrative covers the analysis of five (5) samples in accordance with the protocols based on NEI's SOP #703 and on EPA Method 624.

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.

QC CHECK SAMPLE

All % recoveries in the QC check sample met the requirements as stipulated by the Method.

METHOD BLANK

The method blank associated with these samples met all method requirements.

SURROGATES

All surrogate recoveries met QC criteria.

MATRIX SPIKES

As requested, sample 296-6 was utilized for the MS/MSD. Spike recoveries fell within QC limits, with the exception of 296-6MSD, which yielded a high Benzene recovery of 155.95 %. The form 3 is included with this report.

INTERNAL STANDARDS

Internal Standard area response/retention time summaries are not required.

SAMPLE COMMENTS

The TICs identified as "Unknown Siloxane" are most probably due to column degradation and not sample constituency. NEI is reporting the results to our method detection limits (MDL's) rounded up to the nearest part per billion (ppb) in accordance with the guidance provided by NJDEP. These MDL's indicate that NEI did not detect any compounds above these levels. No further analytical problems were encountered.

000010

NARRATIVE DISCUSSION
INORGANICS - 22683

3

All samples were analyzed as per the required protocol.

The matrix spike recovery was above control limits for sample 2044-3MS, thus resulting in the qualification of the sample results with "N". A second spike was performed on sample 296-6 and the recovery was within control limits.

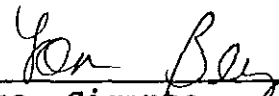
The duplicate of sample 2044-3 showed no RPD, resulting in no additional sample qualification. A second duplicate was performed on sample 296-6. This second duplicate demonstrated a RPD of 8.2.

2/21/95

000011

nytest environmental inc

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.


Remo Gigante
Exec. Vice President

000012

METHODOLOGY SUMMARY

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1
NON-AQUEOUS METHODOLOGIES:				
BNA, Pesticides/PCB's Extraction		3550		
AA/ICP Sample Preparation		3050		
Furnace Sample Preparation		3020/3030/3050		
Mercury Sample Preparation		7471		
Clean-Up		3610/3620/3630/ 3640/3660		
GC, Gas Chromatography/Mass Spectrometry:				
Purgeable Organics		8240/8021		
Base/Neutral and Acid Extractables		8270		
Organophosphorus Pesticides		8140		
Organochlorine Pesticide and PCB's by Gas Chromatography		8080		
BTEX		8020		
Halogenated Purgeable Organics		8010		

000013

METHODOLOGY SUMMARY

INDUCTIVELY COUPLED PLASMA (ICP):	REFERENCE 1	REFERENCE 2
Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010
FURNACE AA:		
Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471
ICAP:		
Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

000014

METHODOLOGY SUMMARY

ADDITIONAL INORGANIC PARAMETERS:

REFERENCE 1

REFERENCE 2

Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	
pH	150.1	
pH		9045/9040/9041
TDS	160.1	
TSS	160.2	
TS	160.3	
Hardness	130.1	
Temperature	170.1	
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Ammonia	350.2/350.3	
Chloride	325.3	
Chloride		9252
Residual Chlorine	330.2	
COD	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Fluoride	340.2	
TKN	351.2	
NO2/NO3	353.2	9200
D.O	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide	376.1	9030
Surfactants	425.1	
TOC	415.1	9060
TOX		9020

MISCELLANEOUS ANALYSIS:

Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapter 8.3
Paint Filter Liquid Test	9095
Toxicity Characteristic Leaching Procedure (TCLP)	(REF 4)
Cation Exchange Capacity of Soils	9080

000015

METHODOLOGY SUMMARY

REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

000016

Method Qualifiers for Organic Non-CLP Methodologies

Q Qualifier - Specified entries and their meanings as follows:

- U -** Indicates compound was analyzed for but was not detected. The sample quantitation limit is corrected for dilutions and for the moisture content for soil samples. If a sample extract can not be concentrated to the protocol - specific volume, this fact is also accounted for in reporting the sample quantitation limit. The number is the minimum detected limits for the sample.
- J -** Indicates an estimated volume. The flag is used either when estimating concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N -** Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- B -** This flag is used when the analyte is found in the analyte is found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound.
- E -** This flag identifies compounds whose concentrations exceeded the calibration range of the GC/MS instrument for that specific analysis.
- D -** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- A -** This flag indicates that a TIC is a suspected aldol condensation product.

Method Qualifiers for Inorganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

* C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.

* Q Qualifier -- Specified entries and their meanings are as follows :

- E - The reported value is estimated because of the presence of interference.
- M - Duplicate precision not met (CV > 20%).
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by Method of Standard Addition (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation Coefficient for MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive.

* M (Method) qualifier - enter:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "CV" for Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- "NR" if the analyte is not required to be analyzed.

000018

GC/MS Data

000019

Volatile Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263316

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

Lab File ID: M1169.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	3	U
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	100	U
1634-34-4-----	Methyl Tertiary Butyl Ether	1	U
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263316

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

Lab File ID: M1169.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263316

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: M1169.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 5

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

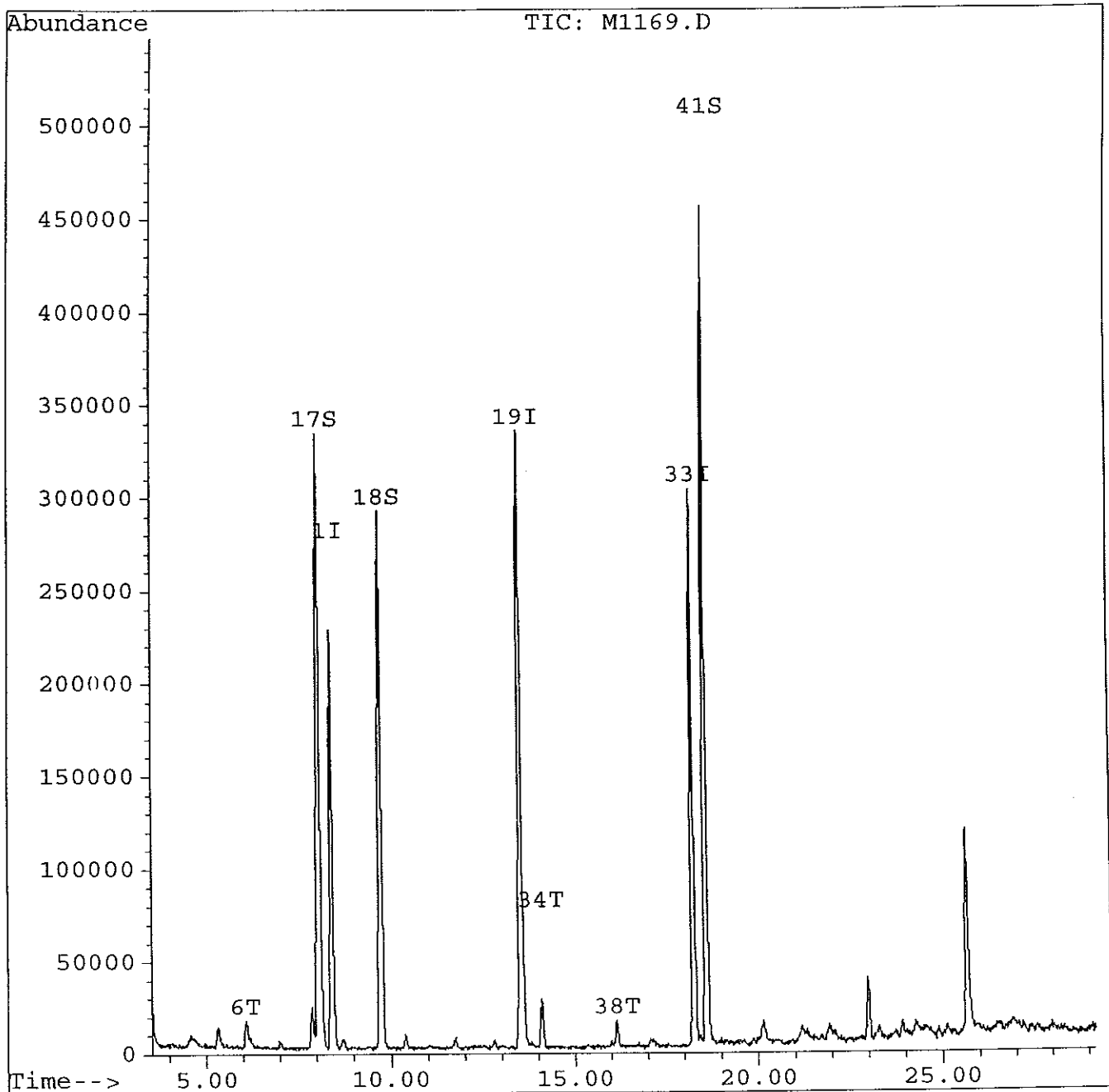
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	21.192	5	J
2.	UNKNOWN HYDROCARBON	22.995	8	J
3.	UNKNOWN	24.273	4	J
4.	UNKNOWN	25.113	3	J
5.	UNKNOWN HYDROCARBON	25.676	27	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1169.D
 Acq Time : 1 Dec 94 22:40 pm
 Sample : 2263316,750-1,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 14:57 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Multiple Level Calibration



000024

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1169.D
 Acq Time : 1 Dec 94 22:40 pm
 Sample : 2263316,750-1,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 14:57 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	143282	30.00	ug/l	-0.04
19) 2-Bromo-1-Chloropropane	13.53	77	504176	30.00	ug/l	-0.03
33) 1,4-Dichlorobutane	18.25	55	550725	30.00	ug/l	-0.03
System Monitoring Compounds						%Recovery
17) Pentafluorobenzene	8.05	168	867273	27.24	ug/l	90.80%
18) Fluorobenzene	9.72	96	738206	26.68	ug/l	88.93%
41) CS10 4-Bomofluorobenzene	18.59	95	429266	27.37	ug/l	91.25%
Target Compounds						Qvalue
6) C030 Methylene Chloride <i>h</i>	6.07	84	14341	1.09	ug/l	93
34) C220 Tetrachloroethene <i>h</i>	14.10	164	22650	1.80	ug/l	95

1 COMPOUND BELOW MDL

we 1/10/95

000025

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263317

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

Lab File ID: M1170.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	3	U
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	100	U
1634-34-4-----	Methyl Tertiary Butyl Ether	6	
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263317

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

Lab File ID: M1170.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263317

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

Lab File ID: M1170.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 2

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

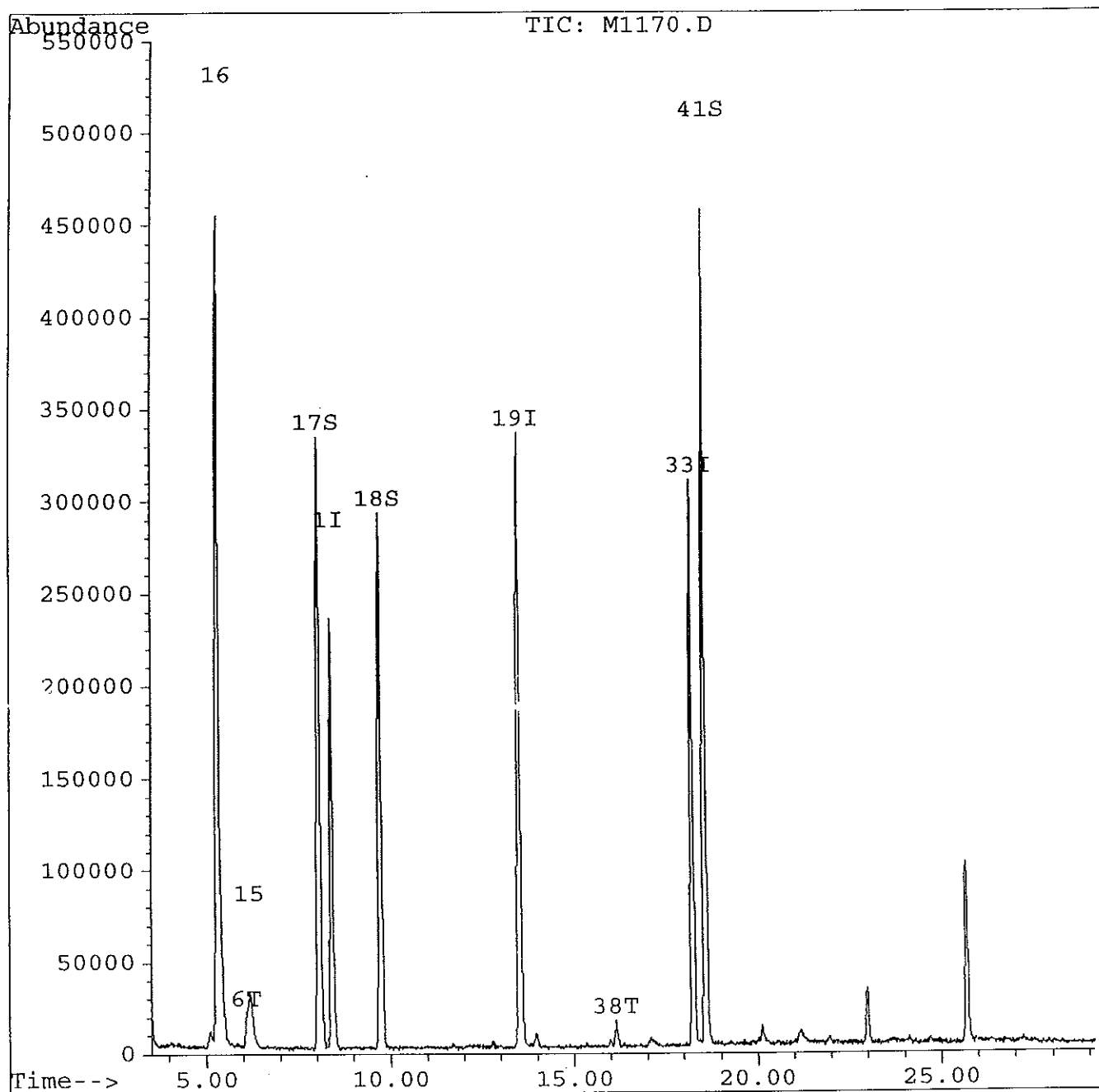
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	22.994	3	J
2.	UNKNOWN HYDROCARBON	25.674	11	J
3.				
4.				
5.				
6.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1170.D
 Acq Time : 1 Dec 94 23:14 pm
 Sample : 2263317,750-3,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 14:58 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Dec 08 12:56:54 1994
 Response via : Multiple Level Calibration



000029

) Quantitation Report)

Data File : C:\HPCHEM\1\DATA\120194\M1170.D
 Acq Time : 1 Dec 94 23:14 pm
 Sample : 2263317,750-3,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 14:58 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Dec 08 12:56:54 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	8.39	128	146043	30.00	ug/l	-0.03
19) 2-Bromo-1-Chloropropane	13.52	77	510722	30.00	ug/l	-0.04
33) 1,4-Dichlorobutane	18.25	55	557431	30.00	ug/l	-0.03
System Monitoring Compounds						%Recovery
17) Pentafluorobenzene	8.05	168	866375	26.70	ug/l	88.99%
18) Fluorobenzene	9.72	96	741003	26.27	ug/l	87.58%
41) CS10 4-Bomofluorobenzene	18.59	95	432254	27.23	ug/l	90.78%
Target Compounds						Qvalue
6) C030 Methylene Chloride	6.07	84	14556	1.09	ug/l #	78
15) C176 Methyl Tertiary Butyl	6.16	73	97029	5.73	ug/l	91
16) C177 Tertiary Butyl Alcoho	5.30	59	15908	19.32	ug/l #	1

Λ COMPOUND BELOW MDL

VC11/12/95

000030

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263318

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

Lab File ID: M1171.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	2	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	3	U
75-35-4	-----1,1-Dichloroethene	2	U
75-34-3	-----1,1-Dichloroethane	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	2	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	2	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	8	
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
127-18-4	-----Tetrachloroethene	3	U
79-34-5	-----1,1,2,2-Tetrachloroethane	2	U
108-88-3	-----Toluene	2	U
108-90-7	-----Chlorobenzene	2	U
100-41-4	-----Ethylbenzene	2	U
1330-20-7	-----Xylene (total)	3	J
75-69-4	-----Trichloromonofluoromethane	2	U
107-02-8	-----Acrolein	20	U
107-13-1	-----Acrylonitrile	2	U
75-65-0	-----Tertiary Butyl Alcohol	100	U
1634-34-4	-----Methyl Tertiary Butyl Ether	45	
541-73-1	-----1,3-Dichlorobenzene	2	U
106-46-7	-----1,4-Dichlorobenzene	2	U
95-50-1	-----1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263318

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

Lab File ID: M1171.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----2-Chloroethylvinyl Ether_____	4	U
156-60-5-----Trans, 1,2-Dichloroethene_____	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263318

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: M1171.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 15

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

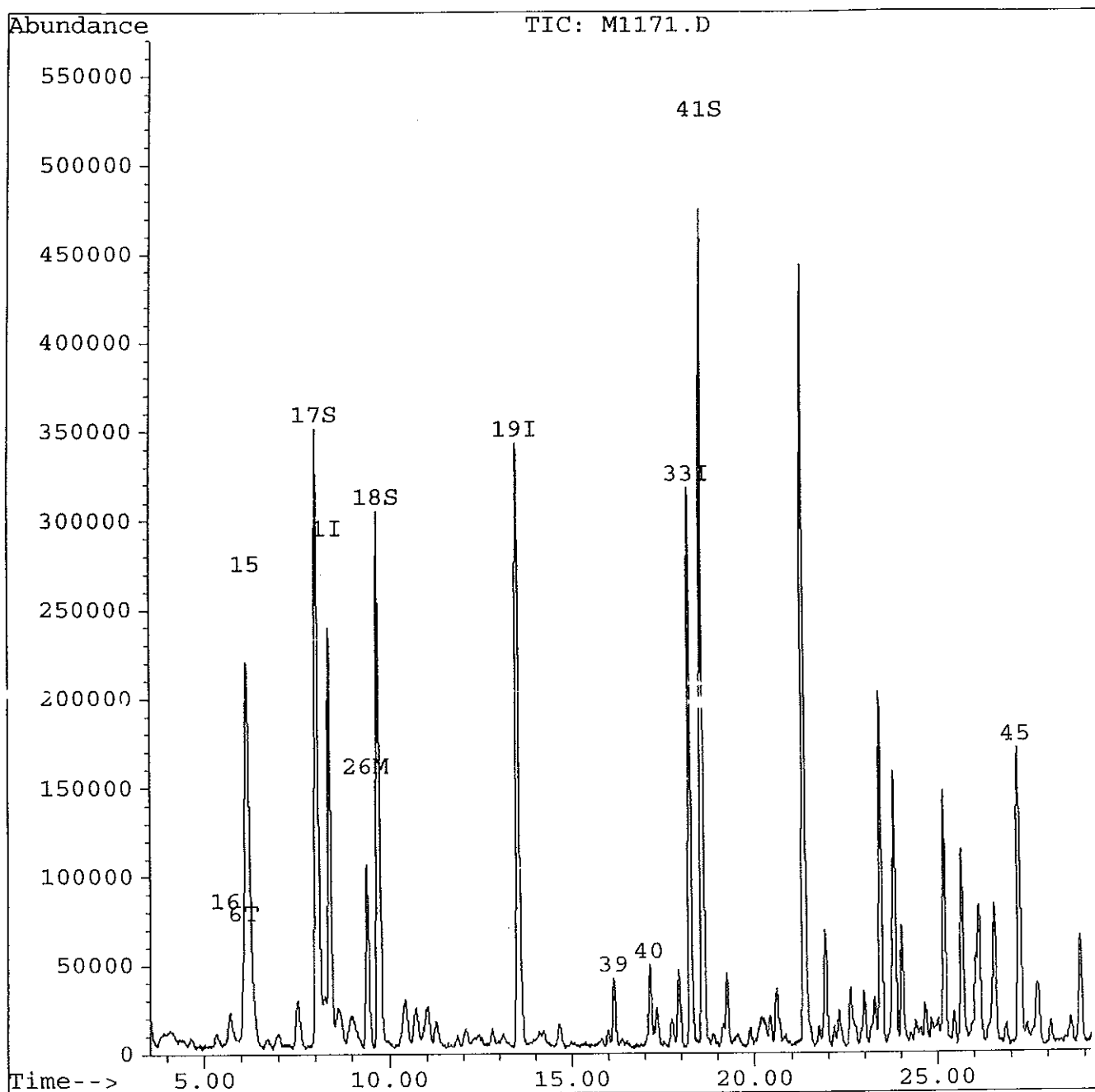
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.075	5	J
2.	UNKNOWN HYDROCARBON	10.410	5	J
3.	UNKNOWN AROMATIC	20.599	5	J
4.	TRIMETHYL BENZENE ISOMER	21.363	45	J
5.	UNKNOWN AROMATIC	21.935	7	J
6.	UNKNOWN AROMATIC	23.472	20	J
7.	TETRAMETHYL BENZENE ISOMER	23.844	19	J
8.	TETRAMETHYL BENZENE ISOMER	24.045	7	J
9.	TETRAMETHYL BENZENE ISOMER	25.190	15	J
10.	UNKNOWN HYDROCARBON	25.677	12	J
11.	UNKNOWN AROMATIC	26.135	14	J
12.	UNKNOWN AROMATIC	26.546	11	J
13.	UNKNOWN AROMATIC	27.214	20	J
14.	UNKNOWN AROMATIC	27.720	6	J
15.	UNKNOWN AROMATIC	28.874	7	J
16.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1171.D
 Acq Time : 1 Dec 94 23:48 pm
 Sample : 2263318,750-4,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 15:01 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Dec 08 12:56:54 1994
 Response via : Multiple Level Calibration



000034

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1171.D
 Acq Time : 1 Dec 94 23:48 pm
 Sample : 2263318,750-4,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 15:01 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Dec 08 12:56:54 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	8.41	128	146505	30.00	ug/l	-0.02
19) 2-Bromo-1-Chloropropane	13.53	77	523710	30.00	ug/l	-0.04
33) 1,4-Dichlorobutane	18.25	55	567704	30.00	ug/l	-0.03
System Monitoring Compounds						%Recovery
17) Pentafluorobenzene	8.05	168	899736	27.64	ug/l	92.13%
18) Fluorobenzene	9.72	96	763482	26.98	ug/l	89.95%
41) CS10 4-Bomofluorobenzene	18.60	95	446419	27.62	ug/l	92.06%
Target Compounds						Qvalue
6) C030 Methylene Chloride	6.07	84	13931	1.04	ug/l	# 77
15) C176 Methyl Tertiary Butyl	6.17	73	767399	45.21	ug/l	96
16) C177 Tertiary Butyl Alcoho	5.58	59	9642	11.67	ug/l	56
26) C165 Benzene	9.41	78	228827	8.25	ug/l	100
39) C250 M-P,Xylene	16.13	106	28709	1.89	ug/l	96
40) C255 O-Xylene	17.14	106	36809	2.72	ug/l	99

2 compounds below MRL

we 1/10/95

000035

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2044-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263325

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

Lab File ID: M1155.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	2	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	3	U
75-35-4	-----1,1-Dichloroethene	2	U
75-34-3	-----1,1-Dichloroethane	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	2	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	2	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
127-18-4	-----Tetrachloroethene	3	U
79-34-5	-----1,1,2,2-Tetrachloroethane	2	U
108-88-3	-----Toluene	2	U
108-90-7	-----Chlorobenzene	2	U
100-41-4	-----Ethylbenzene	2	U
1330-20-7	-----Xylene (total)	6	U
75-69-4	-----Trichloromonofluoromethane	2	U
107-02-8	-----Acrolein	20	U
107-13-1	-----Acrylonitrile	2	U
75-65-0	-----Tertiary Butyl Alcohol	100	U
1634-34-4	-----Methyl Tertiary Butyl Ether	1	U
541-73-1	-----1,3-Dichlorobenzene	2	U
106-46-7	-----1,4-Dichlorobenzene	2	U
95-50-1	-----1,2-Dichlorobenzene	2	U

000036

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2044-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263325

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

Lab File ID: M1155.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether	4	U
---------------	--------------------------	---	---

156-60-5-----	Trans, 1,2-Dichloroethene	1	U
---------------	---------------------------	---	---

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2044-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263325

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: M1155.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN HYDROCARBON	25.661	4	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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30.				

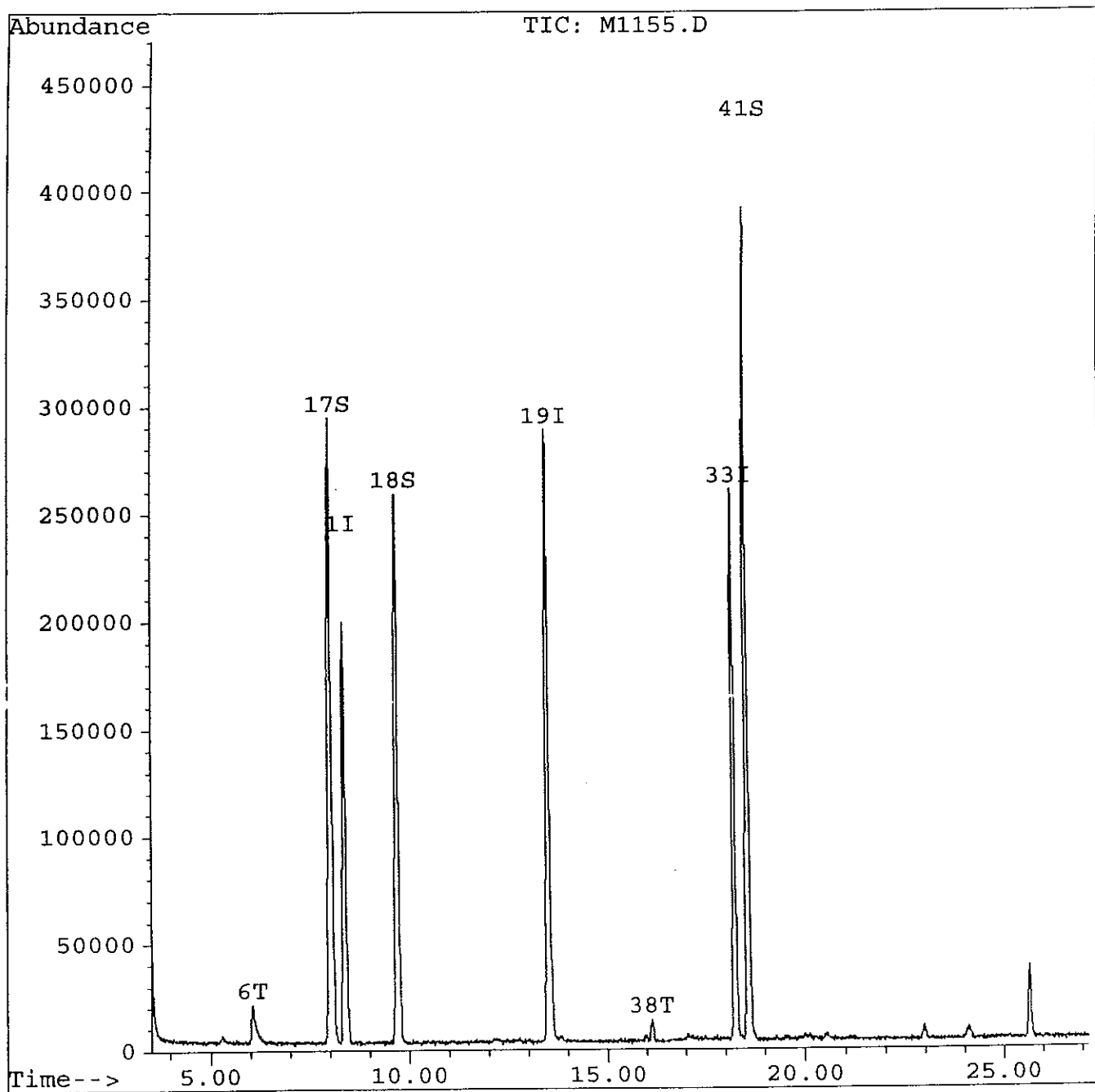
000038

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1155.D
 Acq Time : 1 Dec 94 14:30 pm
 Sample : 2263325,2044-FB,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 14 14:41 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Multiple Level Calibration



000039

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1155.D

Acq Time : 1 Dec 94 14:30 pm

Sample : 2263325,2044-FB,

Misc : 1,1,,,5,5,L,W,R11-30-94,

Quant Time: Dec 14 14:41 1994

Operator: VC

Inst : HPM

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M

Title : VOA Standards for 5 point calibration

Last Update : Tue Nov 29 12:18:35 1994

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	8.37	128	120918	30.00	ug/l	-0.05
19) 2-Bromo-1-Chloropropane	13.51	77	437651	30.00	ug/l	-0.05
33) 1,4-Dichlorobutane	18.23	55	463862	30.00	ug/l	-0.05
System Monitoring Compounds						%Recovery
17) Pentafluorobenzene	8.03	168	756514	28.16	ug/l	93.85%
18) Fluorobenzene	9.70	96	658305	28.19	ug/l	93.97%
41) CS10 4-Bomofluorobenzene	18.58	95	371209	28.11	ug/l	93.68%
Target Compounds						Qvalue
6) C030 Methylene Chloride	6.06	84	27081	2.44	ug/l	97

4 COMPOUND BELOW MRL

we 1/10/95

000040

(#) = qualifier out of range (m) = manual integration

M1155.D P624.M

Wed Dec 14 15:35:02 1994

HPM

Page 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2044-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263327

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

Lab File ID: M1151.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	2	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	3	U
75-35-4	-----1,1-Dichloroethene	2	U
75-34-3	-----1,1-Dichloroethane	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	2	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	2	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
127-18-4	-----Tetrachloroethene	3	U
79-34-5	-----1,1,2,2-Tetrachloroethane	2	U
108-88-3	-----Toluene	2	U
108-90-7	-----Chlorobenzene	2	U
100-41-4	-----Ethylbenzene	2	U
1330-20-7	-----Xylene (total)	6	U
75-69-4	-----Trichloromonofluoromethane	2	U
107-02-8	-----Acrolein	20	U
107-13-1	-----Acrylonitrile	2	U
75-65-0	-----Tertiary Butyl Alcohol	100	U
1634-34-4	-----Methyl Tertiary Butyl Ether	1	U
541-73-1	-----1,3-Dichlorobenzene	2	U
106-46-7	-----1,4-Dichlorobenzene	2	U
95-50-1	-----1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2044-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263327

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

Lab File ID: M1151.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2044-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: 2263327

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: M1151.D

Level: (low/med) LOW

Date Received: 11/30/94

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

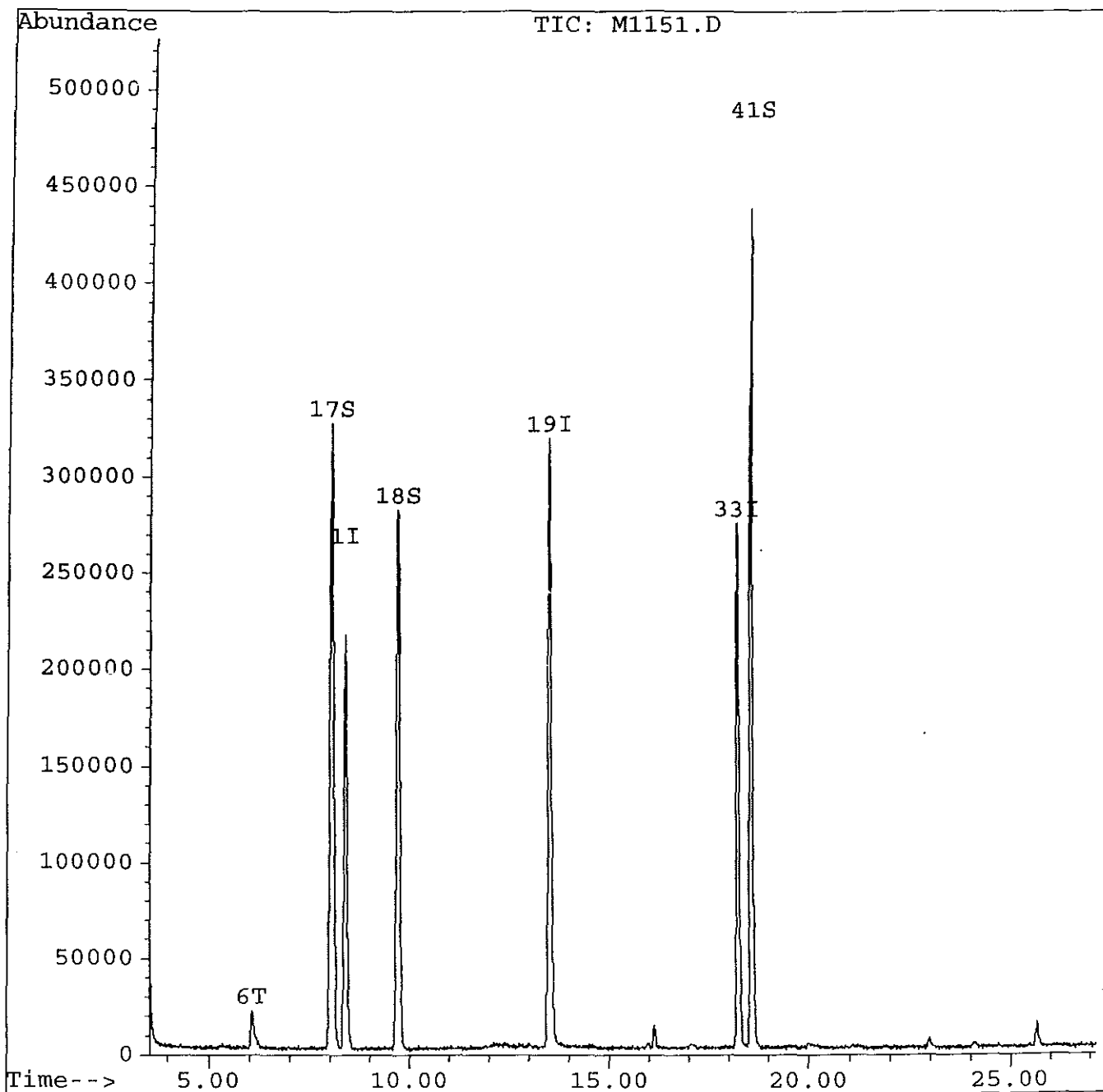
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1151.D
 Acq Time : 1 Dec 94 12:10 pm
 Sample : 2263327,2044-TB,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 1 12:37 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Multiple Level Calibration



000044

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1151.D
 Acq Time : 1 Dec 94 12:10 pm
 Sample : 2263327,2044-TB,
 Misc : 1,1,,,5,5,L,W,R11-30-94,
 Quant Time: Dec 1 12:37 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	8.38	128	135459	30.00	ug/l	-0.04
19) 2-Bromo-1-Chloropropane	13.50	77	485729	30.00	ug/l	-0.06
33) 1,4-Dichlorobutane	18.23	55	489918	30.00	ug/l	-0.05
System Monitoring Compounds						%Recovery
17) Pentafluorobenzene	8.03	168	850223	28.25	ug/l	94.16%
18) Fluorobenzene	9.71	96	721338	27.57	ug/l	91.91%
41) CS10 4-Bomofluorobenzene	18.58	95	412695	29.58	ug/l	98.61%
Target Compounds						Qvalue
6) C030 Methylene Chloride	6.07	84	24548	1.97	ug/l	99

1 compound below MPL

me 1/10/95

000045

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK39

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: VBLK39

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

Lab File ID: M1150.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	2	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	3	U
75-35-4	-----1,1-Dichloroethene	2	U
75-34-3	-----1,1-Dichloroethane	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	2	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	2	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
127-18-4	-----Tetrachloroethene	3	U
79-34-5	-----1,1,2,2-Tetrachloroethane	2	U
108-88-3	-----Toluene	2	U
108-90-7	-----Chlorobenzene	2	U
100-41-4	-----Ethylbenzene	2	U
1330-20-7	-----Xylene (total)	6	U
75-69-4	-----Trichloromonofluoromethane	2	U
107-02-8	-----Acrolein	20	U
107-13-1	-----Acrylonitrile	2	U
75-65-0	-----Tertiary Butyl Alcohol	100	U
1634-34-4	-----Methyl Tertiary Butyl Ether	1	U
541-73-1	-----1,3-Dichlorobenzene	2	U
106-46-7	-----1,4-Dichlorobenzene	2	U
95-50-1	-----1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLK39

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: VLK39

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

Lab File ID: M1150.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK39

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Matrix: (soil/water) WATER

Lab Sample ID: VBK39

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: M1150.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 12/01/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

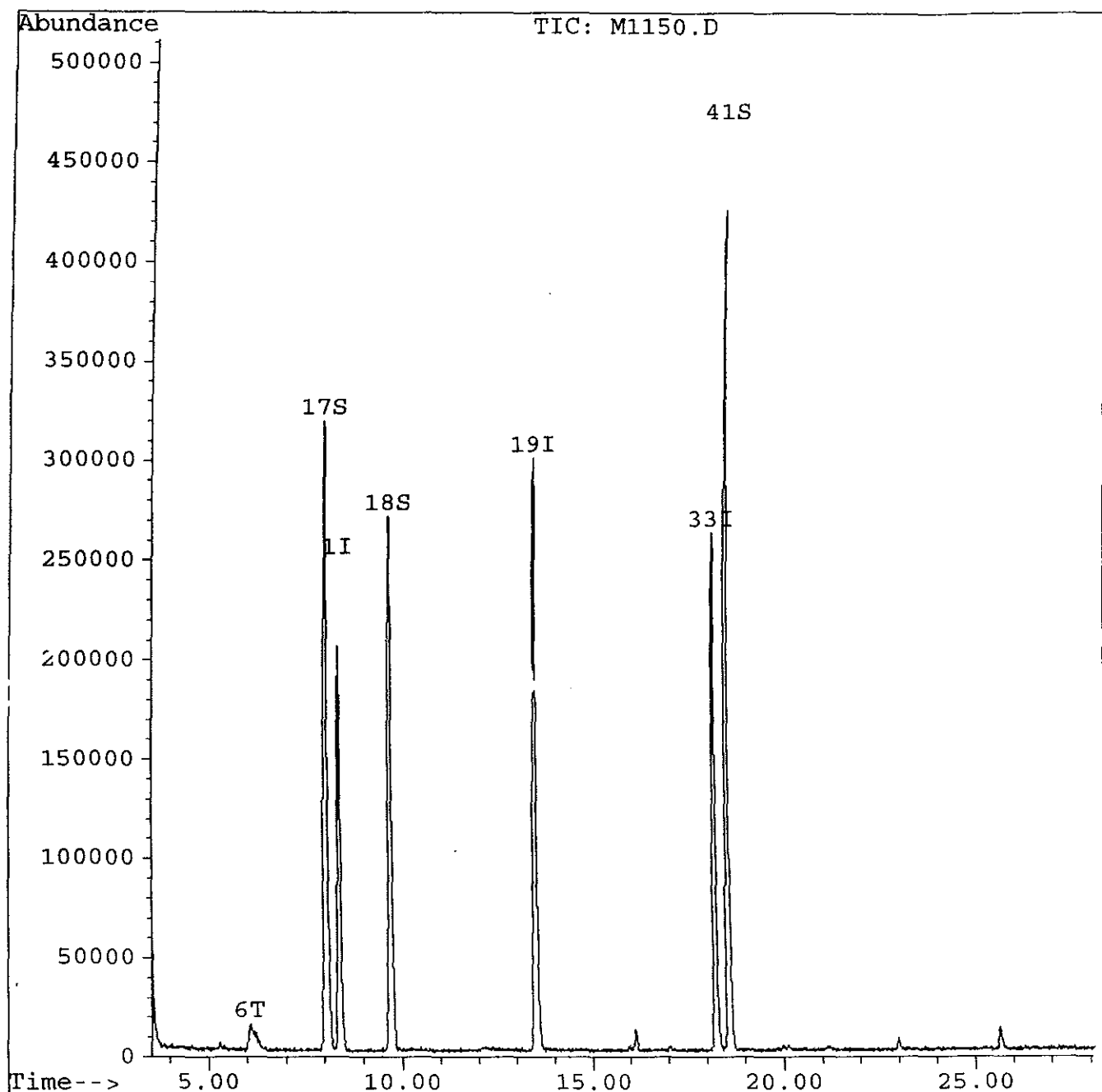
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1150.D
 Acq Time : 1 Dec 94 11:30 am
 Sample : VBLK39,VBLK39,
 Misc : 1,,,,,5,5,L,W,
 Quant Time: Dec 1 12:00 1994

Operator: VC
 Inst : HPM
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Nov 29 12:18:35 1994
 Response via : Multiple Level Calibration



000049

Quantitation Report

Data File : C:\HPCHEM\1\DATA\120194\M1150.D

Acq Time : 1 Dec 94 11:30 am

Sample : VBLK39,VBLK39,

Misc : 1,,,,,5,5,L,W,

Quant Time: Dec 1 12:00 1994

Operator: VC

Inst : HPM

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\P624.M

Title : VOA Standards for 5 point calibration

Last Update : Tue Nov 29 12:18:35 1994

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) CI01 Bromochloromethane	8.38	128	126949	30.00	ug/l	-0.05
19) 2-Bromo-1-Chloropropane	13.50	77	462593	30.00	ug/l	-0.06
33) 1,4-Dichlorobutane	18.23	55	462734	30.00	ug/l	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Pentafluorobenzene	8.03	168	836157	29.64	ug/l	98.81%
18) Fluorobenzene	9.70	96	694203	28.32	ug/l	94.39%
41) CS10 4-Bomofluorobenzene	18.57	95	404891	30.73	ug/l	102.43%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) C030 Methylene Chloride <i>L</i>	6.07	84	28277	2.42	ug/l	95

L COMPOUND BELOW MDL

we 1/10/95

000050

2A
WATER VOLATILE SURROGATE COMPOUND RECOVERY

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

	EPA SAMPLE NO.	SUR1 (FB) #	SUR2 (BFB) #	SUR3 (PFB) #	OTHER	TCT OUT
	=====	=====	=====	=====	=====	=====
01	QCCHECK	88	93	89		0
02	VBLK39	94	102	99		0
03	2044-TB	92	99	94		0
04	296-TB	89	90	90		0
05	296-FB	91	91	92		0
06	2044-FB	94	94	94		0
07	296-6	92	93	92		0
08	296-6MS	91	89	92		0
09	296-1	91	93	91		0
10	296-3	90	93	92		0
11	296-2	89	88	91		0
12	296-7	89	91	90		0
13	296-8	92	93	94		0
14	296-DUP	90	94	92		0
15	290-1	89	92	92		0
16	108-1	88	91	90		0
17	108-2	91	94	93		0
18	108-3	89	92	92		0
19	750-1	89	91	91		0
20	750-3	88	91	89		0
21	750-4	90	92	92		0
22	2562-2	91	96	94		0
23	2562-3	90	94	92		0
24	2044-1	86	92	91		0
25	2044-2	86	81	86		0
26	2044-3	93	109	97		0
27	2044-DUP	92	101	95		0
28	2562-1	93	96	95		0
29	QCCHECK1	88	89	90		0
30	VBLK41	95	93	97		0

QC LIMITS

SUR1 (FB) = Fluorobenzene (70-140)
 SUR2 (BFB) = Bromofluorobenzene (60-150)
 SUR3 (PFB) = Pentafluorobenzene (70-140)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 2263310
Level: LOW
Data Type: MS DATA
SpikeList File: QCMS.spk
Method File: /chem/HPM.i/22633.b/624.m
Misc Info:

Client SDG: ARMY3
Fraction: VOA
Client Smp ID: 296-6MS
Operator: VC
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	20	20	98.48	0-255
4 Bromomethane	20	20	98.48	0-242
5 Vinyl Chloride	20	16	81.56	0-251
6 Chloroethane	20	19	93.87	14-230
7 Methylene Chloride	20	13	66.06	0-221
10 1,1-Dichloroethene	20	19	95.79	0-234
12 1,1-Dichloroethane	20	19	97.02	59-155
14 Trans, 1,2-Dichlor	20	19	97.24	54-156
15 Chloroform	20	20	98.97	51-138
16 1,2-Dichloroethane	20	19	95.69	49-155
19 Trichloromonofluor	20	20	101.35	17-181
24 1,1,1-Trichloroeth	20	19	93.48	52-162
25 Carbon Tetrachlori	20	18	91.23	70-140
27 Bromodichlorometha	20	18	91.55	35-155
28 1,2-Dichloropropan	20	18	90.83	0-210
29 cis-1,3-Dichloropr	20	18	92.90	0-227
30 Trichloroethene	20	18	88.48	71-157
31 Dibromochlorometha	20	18	89.02	53-149
32 1,1,2-Trichloroeth	20	18	90.41	52-150
34 Benzene	20	28	142.29	37-151
35 trans-1,3-Dichloro	20	18	92.74	17-183
37 Bromoform	20	18	91.99	45-169
38 2-Chloroethylvinyl	20	18	90.80	0-305
41 Tetrachloroethene	20	18	92.25	64-148
43 1,1,2,2-Tetrachlor	20	18	92.11	46-157
45 Toluene	20	19	95.44	47-150
46 Chlorobenzene	20	18	90.11	37-160
47 Ethylbenzene	20	26	130.08	37-162
53 1,3-Dichlorobenzen	20	20	99.34	59-156
54 1,4-Dichlorobenzen	20	21	104.51	18-190
55 1,2-Dichlorobenzen	20	21	103.70	18-190

000052

nytest

RECOVERY REPORT

Client Name: Client SDG: ARMY3
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2263310 Client Smp ID: 296-6MS
Level: LOW Operator: VC
Data Type: MS DATA SampleType: MS
SpikeList File: QCMS.spk Quant Type: ISTD
Method File: /chem/HPM.i/22633.b/624.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 33 Pentafluorobenzene	30	28	91.98	70-140
\$ 44 Fluorobenzene	30	27	91.41	70-140
\$ 48 Bromofluorobenzene	30	26	88.64	60-150

000053

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 2263311
Level: LOW
Data Type: MS DATA
SpikeList File: QCMS.spk
Method File: /chem/HPM.i/22633.b/624.m
Misc Info:

Client SDG: ARMY3
Fraction: VOA
Client Smp ID: ~~MW~~ 6MSD
Operator: VC
SampleType: MSD
Quant Type: ISTD

296 sm Jannetty 2/18/95

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	20	19	93.12	0-273
4 Bromomethane	20	19	96.52	0-242
5 Vinyl Chloride	20	16	79.53	0-251
6 Chloroethane	20	18	92.06	14-230
7 Methylene Chloride	20	14	68.79	0-221
10 1,1-Dichloroethene	20	18	92.73	0-234
12 1,1-Dichloroethane	20	19	94.82	59-155
14 Trans, 1,2-Dichlor	20	19	95.04	54-156
15 Chloroform	20	20	97.64	51-138
16 1,2-Dichloroethane	20	19	95.81	49-155
19 Trichloromonofluor	20	20	98.42	17-181
24 1,1,1-Trichloroeth	20	19	93.63	52-162
25 Carbon Tetrachlori	20	19	94.16	70-140
27 Bromodichlorometha	20	18	91.02	35-155
28 1,2-Dichloropropan	20	18	91.61	0-210
29 cis-1,3-Dichloropr	20	19	95.36	0-227
30 Trichloroethene	20	18	91.17	71-157
31 Dibromochlorometha	20	18	90.28	53-149
32 1,1,2-Trichloroeth	20	18	91.42	52-150
34 Benzene	20	31	155.95*	37-151
35 trans-1,3-Dichloro	20	19	94.74	17-183
37 Bromoform	20	19	93.09	45-169
38 2-Chloroethylvinyl	20	18	91.58	0-305
41 Tetrachloroethene	20	19	93.97	64-148
43 1,1,2,2-Tetrachlor	20	18	92.95	46-157
45 Toluene	20	20	100.25	47-150
46 Chlorobenzene	20	19	93.19	37-160
47 Ethylbenzene	20	31	153.22	37-162
53 1,3-Dichlorobenzen	20	20	102.94	59-156
54 1,4-Dichlorobenzen	20	22	109.09	18-190
55 1,2-Dichlorobenzen	20	22	107.62	18-190

000054

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 2263311
Level: LOW
Data Type: MS DATA
SpikeList File: QCMS.spk
Method File: /chem/HPM.i/22633.b/624.m
Misc Info:

Client SDG: ARMY3
Fraction: VOA 296 em
Client Smp ID: MW-6MSD
Operator: VC
SampleType: MSD
Quant Type: ISTD

2/18/95

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 33 Pentafluorobenzene	30	27	90.25	70-140
\$ 44 Fluorobenzene	30	27	89.48	70-140
\$ 48 Bromofluorobenzene	30	27	88.92	60-150

000055

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK39

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Lab File ID: M1150.D

Lab Sample ID: VBLK39

Date Analyzed: 12/01/94

Time Analyzed: 1130

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: HPM

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	QCCHECK	QCCHECK	M1149.D	1040
02	2044-TB	2263327	M1151.D	1210
03	296-TB	2263308	M1153.D	1315
04	296-FB	2263307	M1154.D	1348
05	2044-FB	2263325	M1155.D	1430
06	296-6	2263304	M1156.D	1503
07	296-6MS	2263310	M1157.D	1536
08	296-1	2263301	M1159.D	1655
09	296-3	2263303	M1160.D	1730
10	296-2	2263302	M1161.D	1804
11	296-7	2263305	M1162.D	1839
12	296-8	2263306	M1163.D	1913
13	296-DUP	2263309	M1164.D	1948
14	290-1	2263312	M1165.D	2022
15	108-1	2263313	M1166.D	2057
16	108-2	2263314	M1167.D	2131
17	108-3	2263315	M1168.D	2205
18	750-1	2263316	M1169.D	2240
19	750-3	2263317	M1170.D	2314
20	750-4	2263318	M1171.D	2348
21	2562-2	2263320	M1173.D	0057
22	2562-3	2263321	M1174.D	0131
23	2044-1	2263322	M1175.D	0206
24	2044-2	2263323	M1176.D	0240
25	2044-3	2263324	M1177.D	0856
26	2044-DUP	2263326	M1178.D	0930
27	2562-1	2263319	M1179.D	1010
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Lab File ID: M1098.D

BFB Injection Date: 11/28/94

Instrument ID: HPM

BFB Injection Time: 1706

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	46.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	95.9
175	5.0 - 9.0% of mass 174	7.3 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	93.3 (97.2)1
177	5.0 - 9.0% of mass 176	6.1 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	M1100.D	11/28/94	1755
02	VSTD020	VSTD020	M1102.D	11/28/94	1912
03	VSTD050	VSTD050	M1103.D	11/28/94	1950
04	VSTD100	VSTD100	M1105.D	11/28/94	2108
05	VSTD200	VSTD200	M1107.D	11/28/94	2225
06					
07					
08					
09					
10					
11					
12					
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14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Lab File ID: M1148.D

BFB Injection Date: 12/01/94

Instrument ID: HPM

BFB Injection Time: 1029

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.6
75	30.0 - 60.0% of mass 95	44.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.3
175	5.0 - 9.0% of mass 174	7.4 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	90.4 (98.0)1
177	5.0 - 9.0% of mass 176	5.8 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCCHECK	QCCHECK	M1149.D	12/01/94	1040
02	VLK39	VLK39	M1150.D	12/01/94	1130
03	2044-TB	2263327	M1151.D	12/01/94	1210
04	296-TB	2263308	M1153.D	12/01/94	1315
05	296-FB	2263307	M1154.D	12/01/94	1348
06	2044-FB	2263325	M1155.D	12/01/94	1430
07	296-6	2263304	M1156.D	12/01/94	1503
08	296-6MS	2263310	M1157.D	12/01/94	1536
09	296-1	2263301	M1159.D	12/01/94	1655
10	296-3	2263303	M1160.D	12/01/94	1730
11	296-2	2263302	M1161.D	12/01/94	1804
12	296-7	2263305	M1162.D	12/01/94	1839
13	296-8	2263306	M1163.D	12/01/94	1913
14	296-DUP	2263309	M1164.D	12/01/94	1948
15	290-1	2263312	M1165.D	12/01/94	2022
16	108-1	2263313	M1166.D	12/01/94	2057
17	108-2	2263314	M1167.D	12/01/94	2131
18	108-3	2263315	M1168.D	12/01/94	2205
19	750-1	2263316	M1169.D	12/01/94	2240
20	750-3	2263317	M1170.D	12/01/94	2314
21	750-4	2263318	M1171.D	12/01/94	2348
22	2562-2	2263320	M1173.D	12/02/94	0057

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Lab File ID: M1148.D

BFB Injection Date: 12/01/94

Instrument ID: HPM

BFB Injection Time: 1029

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.6
75	30.0 - 60.0% of mass 95	44.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.3
175	5.0 - 9.0% of mass 174	7.4 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	90.4 (98.0)1
177	5.0 - 9.0% of mass 176	5.8 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	2562-3	2263321	M1174.D	12/02/94	0131
02	2044-1	2263322	M1175.D	12/02/94	0206
03	2044-2	2263323	M1176.D	12/02/94	0240
04	2044-3	2263324	M1177.D	12/02/94	0856
05	2044-DUP	2263326	M1178.D	12/02/94	0930
06	2562-1	2263319	M1179.D	12/02/94	1010
07					
08					
09					
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13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Instrument ID: HPM

Calibration Date(s): 11/28/94

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Max %RSD for CCC(*) = 35.0%

LAB FILE ID:		RRF005 =M1100.D		RRF010 =M1102.D			
RRF030=M1103.D		RRF050=M1105.D		RRF200=M1107.D			
COMPOUND	RRF005	RRF010	RRF030	RRF050	RRF200	RRF	% RSD
Chloromethane	1.236	1.732	1.432	1.462	1.359	1.444	12.7
Bromomethane	1.418	1.713	1.276	1.472	1.357	1.447	11.4
Vinyl Chloride	1.526	2.017	1.598	1.824	1.705	1.734	11.2
Chloroethane	0.911	1.227	0.942	1.102	1.040	1.044	12.2
Methylene Chloride	3.837	3.259	1.863	2.065		2.756	34.4
1,1-Dichloroethene	1.465	1.880	1.456	1.712	1.565	1.616	11.2
1,1-Dichloroethane	3.420	4.234	3.262	3.820	3.362	3.620	11.2
Chloroform	3.209	3.968	3.002	3.518	3.267	3.393	10.9
1,2-Dichloroethane	2.329	2.835	2.179	2.590	2.346	2.456	10.5
1,1,1-Trichloroethane	0.757	0.927	0.724	0.861	0.750	0.804	10.7
Carbon Tetrachloride	0.721	0.853	0.699	0.831	0.725	0.766	9.2
Bromodichloromethane	0.862	1.054	0.834	0.988	0.879	0.923	10.1
1,2-Dichloropropane	0.683	0.817	0.631	0.752	0.665	0.710	10.5
cis-1,3-Dichloropropene	0.858	1.041	0.820	0.960	0.836	0.903	10.5
Trichloroethene	0.638	0.770	0.606	0.701	0.633	0.670	9.9
Dibromochloromethane	0.774	0.985	0.783	0.934	0.826	0.860	10.9
1,1,2-Trichloroethane	0.540	0.664	0.516	0.606	0.531	0.571	10.9
Benzene	1.561	1.818	1.424	1.679	1.461	1.589	10.2
trans-1,3-Dichloropropene	0.745	0.901	0.711	0.835	0.731	0.784	10.2
Bromoform	0.715	0.942	0.779	0.920	0.812	0.834	11.5
Tetrachloroethene	0.698	0.780	0.604	0.708	0.632	0.684	10.1
1,1,2,2-Tetrachloroethane	0.821	0.999	0.758	0.906	0.761	0.851	11.9
Toluene	1.760	2.045	1.583	1.866	1.632	1.777	10.5
Chlorobenzene	1.209	1.365	1.042	1.226	1.093	1.187	10.6
Ethylbenzene	0.625	0.708	0.526	0.625	0.571	0.611	11.2
Xylene (total)	0.720	0.819	0.622	0.743	0.671	0.715	10.4
Trichloromonofluoromethane	2.566	3.298	2.535	2.927	2.714	2.808	11.2
Acrolein		0.109	0.121	0.047	0.106	0.096	34.9
Acrylonitrile	1.220	1.556	1.306	1.444	1.237	1.353	10.6
Tertiary Butyl Alcohol	0.000	0.204	0.165	0.165		0.178	12.6
Methyl Tertiary Butyl Ether	3.406	4.306	3.105	3.687	2.875	3.476	16.0
1,3-Dichlorobenzene	1.260	1.448	1.108	1.314	1.178	1.261	10.4
1,4-Dichlorobenzene	1.296	1.504	1.147	1.371	1.227	1.309	10.4
1,2-Dichlorobenzene	1.150	1.332	1.013	1.213	1.084	1.159	10.6
2-Chloroethylvinyl Ether	0.683	0.817	0.631	0.752	0.666	0.710	10.5
Trans, 1,2-Dichloroethene	1.574	1.988	1.517	1.798	1.596	1.695	11.5
Fluorobenzene	5.498	6.761	5.100	5.999	5.611	5.794	10.8

6A
VOLATILE ORGANICS INITIAL CALIBRATION TA

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22633

SAS No.:

SDG No.: ARMY3

Instrument ID: HPM

Calibration Date(s): 11/28/94

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Max %RSD for CCC(*) = 35.0%

LAB FILE ID:		RRF005 =M1100.D		RRF010 =M1102.D			
RRF030=M1103.D		RRF050=M1105.D		RRF200=M1107.D			
COMPOUND	RRF005	RRF010	RRF030	RRF050	RRF200	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
Bromofluorobenzene	0.843	0.979	0.744	0.890	0.816	0.854	10.2
Pentafluorobenzene	6.449	7.843	5.883	6.876	6.279	6.666	11.2

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: QCCHECK
Level: LOW
Data Type: MS DATA
SpikeList File: QCCHK.spk
Method File: /chem/HPM.i/22633.b/624.m
Misc Info:

Client SDG: ARMY3
Fraction: VOA
Client Smp ID: QCCHECK
Operator: VC
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	20	20	99.67	0-204
4 Bromomethane	20	20	100.70	14-186
5 Vinyl Chloride	20	16	81.08	4-196
6 Chloroethane	20	19	94.22	38-162
7 Methylene Chloride	20	15	77.31	60-140
10 1,1-Dichloroethene	20	19	95.82	50-150
12 1,1-Dichloroethane	20	19	95.98	72-128
14 Trans, 1,2-Dichlor	20	20	97.58	70-130
15 Chloroform	20	20	98.98	68-132
16 1,2-Dichloroethane	20	19	94.03	68-132
19 Trichloromonofluor	20	20	101.55	48-152
24 1,1,1-Trichloroeth	20	20	99.39	75-125
25 Carbon Tetrachlori	20	20	98.47	73-127
27 Bromodichlorometha	20	19	95.92	66-134
28 1,2-Dichloropropan	20	19	95.91	34-166
29 cis-1,3-Dichloropr	20	20	97.81	24-176
30 Trichloroethene	20	19	95.80	66-134
31 Dibromochlorometha	20	19	95.12	68-132
32 1,1,2-Trichloroeth	20	19	94.43	71-129
34 Benzene	20	19	96.01	64-136
35 trans-1,3-Dichloro	20	19	96.86	50-150
37 Bromoform	20	19	96.94	71-129
38 2-Chloroethylvinyl	20	19	95.87	0-224
41 Tetrachloroethene	20	21	103.50	74-126
43 1,1,2,2-Tetrachlor	20	20	101.93	60-140
45 Toluene	20	20	98.58	74-126
46 Chlorobenzene	20	20	102.22	66-134
47 Ethylbenzene	20	20	100.60	59-141
53 1,3-Dichlorobenzen	20	22	109.06	73-127
54 1,4-Dichlorobenzen	20	23	116.98	63-137
55 1,2-Dichlorobenzen	20	23	115.29	63-127

000062

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID

Lab Smp Id: QCCHECK

Level: LOW

Data Type: MS DATA

SpikeList File: QCCHK.spk

Method File: /chem/HPM.i/22633.b/624.m

Misc Info:

Client SDG: ARMY3

Fraction: VOA

Client Smp ID: QCCHECK

Operator: VC

SampleType: MS

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 33 Pentafluorobenzene	30	27	89.43	70-140
\$ 44 Fluorobenzene	30	26	87.62	70-140
\$ 48 Bromofluorobenzene	30	28	92.68	60-150

000063

Metals Data

000064

SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC. Contract: 9421415

Lab Code: NYTEST Login No.: 22633_ QC Report No.22633_

Matrix (soil/water): WATER

Lab Sample ID: 263316

Level (low/high) : LOW

Date Received: 11/30/94

Percent Solids : 0.0

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

[illegible]

CODES :

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

750-1

000065 -

SAMPLE NO.

750-3

Lab Sample ID: 263317_____
Date Received: 11/30/94

750-3 _____

000066

750-4

Lab Name: NYTEST ENV INC. Contract: 9421415

Lab Code: NYTEST Login No.: 22633 QC Report No.22633

Matrix (soil/water): WATER

Lab Sample ID: 263318

Level (low/high) : LOW

Date Received: 11/30/94

Percent Solids : 0.0

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

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric

Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

750-4

000067

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

R : Analyte Not Required

Contract: 9421415

Lab Code: NYTEST Login No.: 22633

QC Report No.: 22633

Initial Calibration Source: SPEX

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

NR : Analyte Not Required

Continuing Calibration Source: SPEX

Concentration Units: ug/L

R : Analyte Not Required

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

000072

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: 9421415

QC Report No.: 22633

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

IR : Analyte Not Required

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Continuing Calibration Source: SPEX

[illegible]

Continuing Calibration Source: SPEX

Concentration Units: ug/L

NR : Analyte Not Required

Concentration Units: ug/L

R : Analyte Not Required

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

R : Analyte Not Required

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

000080

Continuing Calibration Source: SPEX

Concentration Units: ug/L

[illegible]

NR : Analyte Not Required

Continuing Calibration Source: SPEX

Contract: 9421415

QC Report No.: 22633_

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

[illegible]

NR : Analyte Not Required

ICP CRDL Standard Source: _____

[illegible]

reparation Blank Concentration Units (ug/L or mg/kg): UG/L_

[illegible]

NR = Analyte Not Requested

ANALYTICAL AND METHOD BLANK SUMMARY

Contract: 9421415

QC Report No.: 22633

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

[illegible]

NR = Analyte Not Requested

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

NR = Analyte Not Requested

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

NR = Analyte Not Requested

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

NR = Analyte Not Requested

Preparation Blank Concentration Units (ug/L or mg/kg): _____

000093

2044-3S

Lab Name: NYTEST ENV INC.

Contract: 9421415

Lab Code: NYTEST

Login No.: 22633

QC Report No. : 22633

Matrix (soil/water): WATER

Level (low/med): LOW

Solids for Sample: 0.0

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

Comments:

2044-3

NR : Analyte Not Required

SAMPLE NO.

MATRIX SPIKE RECOVERY DATA SHEET

296-6MSD

Lab Name: NYTEST ENV INC.

Contract: 9421415

Lab Code: NYTEST

Login No.: 22633

QC Report No. : 22633_

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

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

[illegible]

Comments:

296-6MSD

NR : Analyte Not Required

NYTEST ENVIRONMENTAL INC

SAMPLE NO.

DUPLICATES

2044-3D

b Name: NYTEST ENV INC. Contract: 9421415

Lab Code: NYTEST Login No.: 22633 QC Report No. : 22633

trix (soil/water): WATER Level (low/med): LOW

Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

[illegible]

R : Analyte Not Requested

DUPLICATES

296-6MS

Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

[illegible]

8 : Analyte Not Requested

Aqueous LCS Source: SPEX

000101

Aqueous LCS Source: SPEX_____

000102

Furnace AA ID Number : 3030#1

[illegible]

Comments:



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9421415

Log in No.: 22509C

P.O. No.: Pending

Date: 2/21/95

SDG No.: Army 1

NJPDEPE Case #: 92-05-07-1600

ANALYTICAL DATA REPORT

PACKAGE FOR

Aguilar Associates

30 Freneau Avenue

Matawan, NJ 07747

ATTN: Darryl Schmitt

REF: US Army Fort Monmouth, Well# and NJPDEPE Reg# 1-2928992,3-2928994,4-2928995

Sample Location Bldg. 750

LABORATORY
NUMBER

SAMPLE
IDENTIFICATION

TYPE OF
SAMPLE

SEE NEXT PAGE

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

NYS Lab ID. #10195
NJ Cert. #73469

Remo Gigante
REMO GIGANTE
EXEC. VICE PRESIDENT

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. 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.

NYTEST ENVIRONMENTAL Inc

LABORATORY NUMBER	SAMPLE IDENTIFICATION	WELL #	TYPE OF SAMPLE
2250909	750-1	1-2928992	Water
2250910	750-3	3-2928994	Water
2250911	750-4	4-2928995	Water
2250904	108-FB	-	Water
2250916	2562-TB	-	Water

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BLDG.#: 750 M): 1 NJDEPE WELL ID # 2928992

U.S. ARMY FORT MONMOUTH

MONITORING WELL SAMPLING DATASHEET

DATE: 11/8/94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #: 73469

SAMPLERS NAMES: D. Schmitt, C. Aguilar, N. Vorasek, E. Romero, S. Panizza

WEATHER CONDITIONS: 58°F sunny

ELEVATION OF CASING SURVEY MARK: 18.79

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 14.12 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: 5.0 FT

LENGTH OF SCREENED SECTION: 10 FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 6.39 FT

ELEVATION OF GW PRIOR TO PURGING: 12.40 FT

THICKNESS OF LNAPL PRIOR TO PURGING: - FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 6 PPM

pH: 6.70 TEMP: 18 C, SPECIFIC CONDUCTIVITY: 650 μ S

DEPTH OF WELL: 14.12 D.O. - 3.2

HEIGHT OF WATER: 7.73

EVACUATED GAL. H2O: 15 (7.73 X .65 X 3 = 15.07)

PURGING START TIME: 11:15 END TIME: 11:30

PURGE METHOD: REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM): 1 GPM

TOTAL VOLUME PURGED: 15 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 6.39 FT

DISSOLVED OXYGEN: 3.4 pH: 7 TEMP: 18 C

SPECIFIC CONDUCTIVITY: 540 μ S

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 12:35 END TIME: 12:46

DISSOLVED OXYGEN: 3.5 pH: 7.33 TEMP: 20 °C

SPECIFIC CONDUCTIVITY: 540 μ S

COMMENTS: Flush mount

BLDG.#: 750 MW#: 3 NJDEPE WELL ID # 2928993

U.S. ARMY FORT MONMOUTH

MONITORING WELL SAMPLING DATASHEET

DATE: 11/8/94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #:73469

SAMPLERS NAMES: D. Schmitt, C. Aguilar, N. Vorasek, E. Romero, S. Panizzi

WEATHER CONDITIONS: 58°F Sunny

ELEVATION OF CASING SURVEY MARK:

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 14.00 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: FT

LENGTH OF SCREENED SECTION: FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 6.11 FT

ELEVATION OF GW PRIOR TO PURGING: FT

THICKNESS OF LNAPL PRIOR TO PURGING : — FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 0 PPM

pH: 5.20 TEMP: 19 C, SPECIFIC CONDUCTIVITY: 220 μ S

DEPTH OF WELL: 14.00 FT

D.O. - 3.4

HEIGHT OF WATER: 7.89 FT

EVACUATED GAL. H2O: 15.4 GAL (7.89 X .65 X 3 = 15.39)

PURGING START TIME: 11:15 END TIME: 11:34

PURGE METHOD: REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM): <1 GPM

TOTAL VOLUME PURGED: 12 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 10.11 FT

DISSOLVED OXYGEN: 4.0 pH: 5.25 TEMP: 20 °C

SPECIFIC CONDUCTIVITY: 210 μ S

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 12:51 END TIME: 1:00

DISSOLVED OXYGEN: 6.8 pH: 5.4 TEMP: 21 °C

SPECIFIC CONDUCTIVITY: 180 μ S

COMMENTS: Slight sheen, pumped dry

BLDG.#: 750 MW#: 4 NJDEPE WELL ID # 2928994

U.S. ARMY FORT MONMOUTH

DATE: 11/8/94

IJO#94-0843 A

SAMPLING CONTRACTOR: Aguilar Associates Inc.

LABORATORY: NYTEST Environmental Inc. CERT #:73469

SAMPLERS NAMES: D. Schmitt, C. Aguilar, N. Vonasek, E. Romero, S. Panizzi

WEATHER CONDITIONS: 58°F Sunny

ELEVATION OF CASING SURVEY MARK: _____

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 13.55 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT

LENGTH OF SCREENED SECTION: _____ FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 6.44 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING : — . — FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 14 PPM

pH: 7.33 TEMP: 21 C, SPECIFIC CONDUCTIVITY: 200 μ S

DEPTH OF WELL: 13.55 FT D.O. - 6.7

HEIGHT OF WATER: 7 . 11 FT

EVACUATED GAL. H2O: 14 GAL (7.11 X .65 X 3 = 13.87)

PURGING START TIME: 12:15 END TIME: 12:40

PURGE METHOD:REDI-FLOW 2 INCH SUBMERSIBLE PUMP VARIABLE

FLOW RATE OF <0.5 GPM TO >5.0 GPM

PURGE RATE (<0.5 GPM) : 0.5 GPM

TOTAL VOLUME PURGED: 14 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 11 . 89 FT

DISSOLVED OXYGEN: 6.0 pH: 6.65 TEMP: 20 °C

SPECIFIC CONDUCTIVITY: 220 μS

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 1306 END TIME: 1313

DISSOLVED OXYGEN: 6.8 pH: 6.21 TEMP: 21 °C

SPECIFIC CONDUCTIVITY: 200 μ s

COMMENTS: _____

Chain of Custody Record

page # : 1 of 1

Client Name Aguiar
Address 30 Herman Ave
MATAPAN, NJ 07742

Project Manager D. Schmidt
Phone 908-290-7800 FAX 908-290-7806
Project Name US Army, Ft. Monmouth, Charles Woods
Project Number _____
P.O. # _____
Analytical Protocol _____ Deliverables _____
Sampled By D. Schmidt

Analysis Requested									
No. of Containers	624 185 24005 M78S 78A	Total Lead							
Bin #'s In / Out (For Lab Use Only)									

Login #: _____

Ship to:
 Nytest Environmental Inc.
 60 Seaview Blvd
 Port Washington N.Y. 11050
 Attn.: Sample Control

Date Shipped: _____

Carrier: _____

Air Bill #: _____

Cooler #: _____

C of C #: _____

SDG #: _____

NEI OT #: _____

[illegible]

Relinquished by:	Date / Time	Received by:	Date / Time
<i>Karen J. Hubbard</i>	11/9/94 0950	<i>Jay Toaff</i>	11/9 9:50
Print Name:		Print Name:	
		<i>Jay Toaff</i>	
Relinquished by:	Date / Time	Received by:	Date / Time
Print Name:		Print Name:	
Relinquished by:	Date / Time	Received by:	Date / Time
<i>Jay Toaff</i>	11/9 5:30	<i>Jay Toaff</i>	11/9/94 5:30
Print Name:		Print Name:	
<i>J Toaff</i>		<i>J Toaff</i>	

Lab Use Only		
Custody Seal:	<u>Intact</u>	<u>Broken</u> <u>Absent</u>
Sample Rec'd In Good Condition?	<u>Y</u>	<u>N</u>
Sample Temperature:	<u>35°</u>	Degrees Celsius
INSPECTED BY: <u>[Signature]</u>		
COMMENTS: _____ _____ _____ _____		

Special Instructions : _____



(516) 625-5500

FAX: (516) 625-1274

Chain of Custody Record

page # : 1 of 1

[illegible]

Special Instructions : _____

CLIENT RETAINS YELLOW COPY ONLY



(516) 625-5500 FAX: (516) 625-1274

page # : 1 of 1

Analysis Requested

Ship to:

Date Shipped: _____

Carrier: _____

Air Bill #: _____

Cooler #: _____

C of C #: _____

SDG #: _____

NEI OT #: _____

Comments

[illegible][illegible]

Lab Use Only			
Container Seals:	Intact	Broken	Absent

Custody Seals:	Intact	Broken	Absent
----------------	--------	--------	--------

Sample Rec'd in Good Condition? : ☒ Y ☐ N

Sample Temperature: 4 Degree Celsius

INSPECTED BY: SP

COMMENTS: _____

Special Instructions : _____

U.S. ARMY FORT MONMOUTH

P.O. #: Ag. 1.7/94-0843

Chain of Custody

Project #: 92-05-07-1600		Sampler: D. Schmidt, Ag. Lab		Date / Time 11/8/94 12:00		Analysis Parameters		Start:	
Customer: C... Apple by SELF m-pw-EU		Site Name: Bid 750 NJDEP-DICAR# 92-05-07-1600 mw Sampling						Finish:	
Phone: (908) 532-6224								Preservation Method HCL-16A HNO ₃ -PB	
Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles					Remarks
1706.1	11/8/94 1235	MW-1, 2928992	AQ	3	2	1		6	Sample kept - ycc
1706.2	11/8/94 1237	MW-3, 2928994	AQ	3	2	1		0	
1706.3	11/8/94 1306	MW-4, 2928995	AQ	3	2	1		14	
1702.4	11/7/94 1230	Fida Blank	AQ	3	2	1			Hnu SN 801497
1702.5	11/7/94 -	Duplicate	AQ	3	2	1			Hnu = 0 on MW-3
1705.4	11/8/94 -	Trip Blank	AQ	2	2				Hnu = 6 + 14 on MW-1 & MW-4 respectively.
1702.7	11/7/94 1035	MS/MSD MW-3	AQ	5	4	1			calibrated 11/4/94
000004									L. Ekstrom 58 ppm Benzene surrogate reanalysis 56 ppm span 9.3
Relinquished By (signature)		Date / Time		Received By (signature)		Shipped By:			
		11-8-94 1630							
Relinquished By (signature)		Date / Time		Received for Lab by (signature):		Date / Time			
		11/9/94 08:03		Sarah J. Woodward		11/9/94 0810			
Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody. NONE									

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample		
NAME: <u>Pion Prender</u>		TITLE: <u>S.C.C.</u>
Client: <u>Aguilar Assoc.</u>	Date Broken: <u>11/10/94</u>	Military Time Seal Broken: <u>1730</u>
Login #: <u>22509</u>	Analytical Parameter/Fraction: <u>P624+15, Pb</u>	

SAMPLE NO.	ALIQUT/EXTRACT NO.	SAMPLE NO.	ALIQUT/EXTRACT NO.
108-1	22509-01	750-4	22509-11
108-2	02	290-1	12
108-3	03	2562-3	13
108-FB	04	2562-1	14
108-DUP	05	2562-2	15
108-TB	06	2562-TB	16
108-3MS	07	296-6	17
108-3MSP	08	296-2	18
		296-7	19
750-1	09	296-3	20
		296-8	21
750-3	10	296-1	22

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUS.
11/11/94	0800	PRINTED NAME <u>M. LAM</u> SIGNATURE <u>M. Lam</u>	PRINTED NAME <u>Scarver</u> SIGNATURE <u>Scarver</u>	P624+15
11/18/94	1500	PRINTED NAME <u>M. LAM</u> SIGNATURE <u>M. Lam</u>	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>H. Trujillo</u>	Pb
11/22/94	1400	PRINTED NAME <u>Scarver</u> SIGNATURE <u>Scarver</u>	PRINTED NAME <u>M. LAM</u> SIGNATURE <u>M. Lam</u>	Storage
12/2/94	1000	PRINTED NAME <u>H. Trujillo</u> SIGNATURE <u>H. Trujillo</u>	PRINTED NAME <u>M. LAM</u> SIGNATURE <u>M. Lam</u>	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

000005

LABORATORY DELIVERABLES

Check if
Complete

- | | |
|---|-----------|
| 1. Cover page, Title page listing Lab Certification# facility name & address, & date of report | <u>✓</u> |
| 2. Table of Contents | <u>✓</u> |
| 3. Summary sheets listing analytical results for all targeted and non-targeted compounds | <u>NA</u> |
| 4. Summary Table cross-referencing field ID #'s vs. Lab ID #'s | <u>✓</u> |
| 5. Document bound, paginated and legible | <u>✓</u> |
| 6. Chain of Custody | <u>✓</u> |
| 7. Methodology Summary | <u>✓</u> |
| 8. Laboratory Chronicle and Holding Time check | <u>✓</u> |
| 9. Results submitted on a dry weight basis (if applicable) | <u>NA</u> |
| 10. Method Detection Limits | <u>NA</u> |
| 11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP | <u>✓</u> |
| 12. Non-Conformance Summary | <u>✓</u> |

Yon Bay
Laboratory Manager or Environmental
Consultant's Signature

2/21/95
Date

000006

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

- | | <u>No</u> | <u>Yes</u> |
|--|-----------------------------|------------|
| 1. Chromatograms Labeled/Compounds Identified
(Field Samples and Method Blanks) | ___ | ___✓ |
| 2. GC/MS Tune Specifications | | |
| a. BFB Meet Criteria | ___ | ___✓ |
| b. DFTPP Meet Criteria | ___ | ___NA |
| 3. GC/MS Tune Frequency - Performed every 24
hours for 600 series and 12 hours for
8000 series. | ___ | ___✓ |
| 4. GC/MS Calibration - Initial Calibration
performed within 30 days before sample analysis
and continuing calibration performed within 24
hours of sample analysis for 600 series and 12
hours for 8000 series | ___ | ___✓ |
| 5. GC/MS Calibration Requirements | | |
| a. Calibration Check Compounds | ___ | ___NA |
| b. System Performance Check Compounds | ___ | ___NA |
| 6. Blank Contamination - If yes, list compounds and
concentrations in each blank: | | |
| a. VOA fraction | ___VBLKN04 - TBA - 2 ppb___ | |
| b. B/N Fraction | ___ | |
| c. Acid Fraction | ___ | |
| 7. Surrogate Recoveries Meet Criteria | ___ | ___✓ |
| If not met, list those compounds and their recoveries
which fall outside the acceptable range: | | |
| a. VOA Fraction | ___ | |
| b. B/N Fraction | ___ | |
| c. Acid Fraction | ___ | |
| If not met, were the calculations checked and the results
qualified as estimated? <u>NA</u> | | |
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries
Meet Criteria (if not met, list these compounds
and their recoveries which fall outside the acceptable range) | ___✓ | ___ |
| a. VOA Fraction | ___1122-TCE - 162%___ | |
| b. B/N Fraction | ___ | |
| c. Acid Fraction | ___ | |
| 9. Internal Standard Area/Retention Time
Shift Meet Criteria | ___ | ___NA |

000007

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (CONT.)

No **Yes**

10. Extraction Holding Time Met

____ *NA* ____

If not met, list number of days exceeded
each sample: _____

11. Analysis Holding Time Met

____ ☒ ____

If not met, list number of days exceeded
for each sample: _____

Addition... Comments: _____

Laboratory Manager: *Jon Bey* Date *2/21/85*

000008

METAL ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	<u>No</u>	<u>Yes</u>
1. Calibration Summary Meet Criteria	___	___✓___
2. ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria	___NA___	___
3. Serial Dilution Summary Submitted (if applicable) / Meet Criteria	___NA___	___
4. Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria	___	___✓___
5. Blank Contamination - If yes, list compounds concentrations in each blank: _____ _____	___✓___	___
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range) _____ _____	___	___✓___
7. Extraction Holding Time Met If not met, list number of days exceeded for each sample: _____ _____ _____	___	___✓___
8. Analysis Holding Time Met If not met, list number of days exceeded for each sample: _____ _____ _____	___	___✓___

Additional Comments: _____

Laboratory Manager: Yori Bay Date: 2/21/95

000009

Laboratory Chronicle

Client Name: Aguilar Associates

Log In No.: 22509C

Date(s) of Sample Collection: 11/07/94, 11,08/94

Date Received: 11/09/94

Sample ID: As per chain of custody

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Herbicides _____

Analysis:

11/14/94

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Herbicides _____

Section Supervisor

Review & Approval

Jon Ber

Digestion - 11/21/94

Analysis - 12/09/94

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor

Review & Approval

Jon Ber

Quality Control Supervisor

Review & Approval

Jon Ber

Dates are included for re-extractions and reanalysis.

000010

NARRATIVE DISCUSSION
VOLATILES - 22509C

Bldg. 750

INTRODUCTION

This narrative covers the analysis of five (5) samples in accordance with NEI Sop# 703 based on EPA Method 624.

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.

QC CHECK SAMPLE

The % recoveries for four (4) out of thirty-one (31) compounds exceeded QC limits in the QC sample NO198.

Due to a laboratory oversight a second QC check was not analyzed.

METHOD BLANKS

The method blank associated with these samples met all method requirements.

SURROGATES

All surrogate recoveries met QC criteria.

MATRIX SPIKES

As requested sample 108-3 was utilized in the MS/MSD series. The 1,1,2,2-Tetrachloroethane recovery in the MSD was above the advisory QC limits. The form 3 is included in this report.

INTERNAL STANDARDS

Internal Standard area responses/retention times summaries are not required.

000011

SAMPLE COMMENTS

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

NEI is reporting the results to our method detection limits (MDL's) rounded to the nearest part per billion (ppb) in accordance with the guidance provided by NJDEP. These MDL's indicate that NEI did not detect any compounds above these levels.

Please note, only one field blank was collected with these samples, 108FB, on 11/07/94. The samples were collected 11/08/94. The trip blank submitted in this report was also collected 11/08/94.

No further analytical problems were encountered.

000012

NARRATIVE DISCUSSION
INORGANICS - 22509C

All samples were analyzed as per required protocols.

The matrix spike recoveries and duplicate RPD values were within control limits.

000013

nytest environmental inc.

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.



Remo Gigante
Exec. Vice President

000014

METHODOLOGY SUMMARY

AQUEOUS METHODOLOGIES:

	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630/ 3640/3660		
Organochlorine Pesticide and PCB's by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1

NON-AQUEOUS METHODOLOGIES:

BNA, Pesticides/PCB's Extraction	3550
AA/ICP Sample Preparation	3050
Furnace Sample Preparation	3020/3030/3050
Mercury Sample Preparation	7471
Clean-Up	3610/3620/3630/ 3640/3660

GC, Gas Chromatography/Mass Spectrometry:

Purgeable Organics	8240/8021
Base/Neutral and Acid Extractables	8270
Organophosphorus Pesticides	8140
Organochlorine Pesticide and PCB's by Gas Chromatography	8080
BTEX	8020
Halogenated Purgeable Organics	8010

000015

METHODOLOGY SUMMARY

INDUCTIVELY COUPLED PLASMA (ICP):	REFERENCE 1	REFERENCE 2
Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010
FURNACE AA:		
Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
Thallium	279.2	7841
Tin	282.2	
Vanadium	286.2	7911
Mercury	245.1	7470/7471
ICAP:		
Priority Pollutants	200.7	6010/7060/ 7470/7740
TAL Metals	200.7	6010/7060/ 7470/7740
RCRA Metals	200.7	6010/7060/ 7470/7740

000016

METHODOLOGY SUMMARY

REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

000017

Method Qualifiers for Organic Non-CLP Methodologies

Q Qualifier - Specified entries and their meanings as follows:

- U -** Indicates compound was analyzed for but was not detected. The sample quantitation limit is corrected for dilutions and for the moisture content for soil samples. If a sample extract can not be concentrated to the protocol - specific volume, this fact is also accounted for in reporting the sample quantitation limit. The number is the minimum detected limits for the sample.
- J -** Indicates an estimated volume. The flag is used either when estimating concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- N -** Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- B -** This flag is used when the analyte is found in the analyte is found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound.
- E -** This flag identifies compounds whose concentrations exceeded the calibration range of the GC/MS instrument for that specific analysis.
- D -** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- A -** This flag indicates that a TIC is a suspected aldol condensation product.

Method Qualifiers for Inorganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

*** C** (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.

*** Q** Qualifier -- Specified entries and their meanings are as follows :

- E - The reported value is estimated because of the presence of interference.
- M - Duplicate precision not met (CV > 20%).
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by Method of Standard Addition (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation Coefficient for MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive.

*** M** (Method) qualifier - enter:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "CV" for Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- "NR" if the analyte is not required to be analyzed.

GC/MS Data

Volatile Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

108-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250904

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

Lab File ID: N0203.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	4	
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromofo_m	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	1	U
1634-34-4-----	Methyl Tertiary Butyl Ether	1	U
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

108-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250904

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

Lab File ID: N0203.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----2-Chloroethylvinyl Ether_____	4	U
156-60-5-----Trans, 1,2-Dichloroethene_____	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

108-FB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250904

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: N0203.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

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

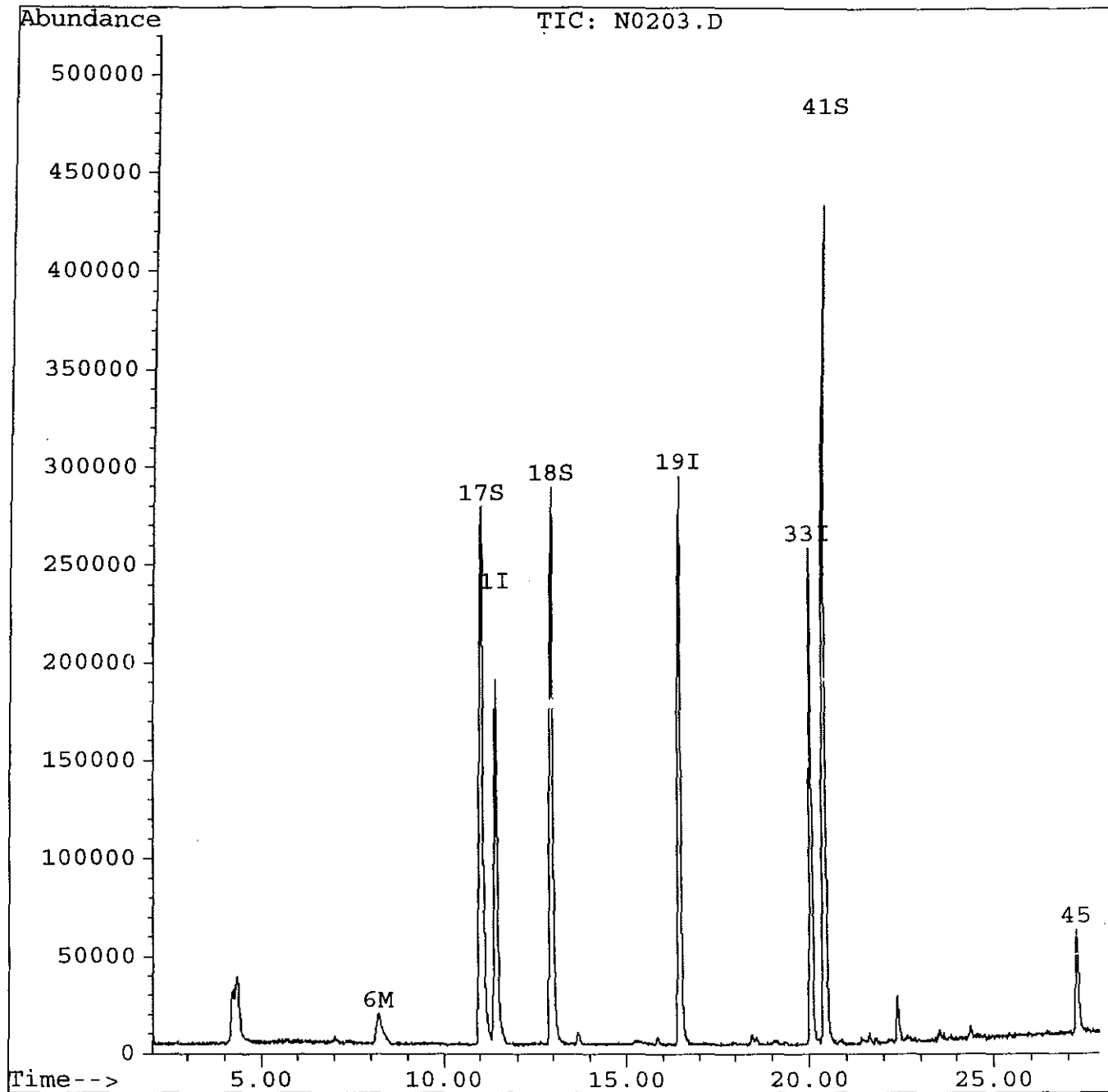
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	22.375	3	J
2.				
3.				
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) Quantitation Report)

Data File : C:\HPCHEM\1\DATA\NOV1494\N0203.D
Acq Time : 14 Nov 94 13:44 pm
Sample : 2250904,108-FB,
Misc : 1,1,,,5,5,P624,R11-9-94
Quant Time: Dec 8 12:14 1994

Operator: LDS
Inst : HPN
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Dec 06 02:26:13 1994
Response via : Multiple Level Calibration



000025

) Quantitation Report)

Data File : C:\HPCHEM\1\DATA\NOV1494\N0203.D
 Acq Time : 14 Nov 94 13:44 pm
 Sample : 2250904,108-FB,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 8 12:14 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.41	128	165759	30.00	ug/l	-0.07
19) 2-BROMO-1-CHLOROPROPANE	16.47	77	619401	30.00	ug/l	-0.04
33) 1,4-DICHLOROBUTANE	20.04	55	495243	30.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) PENTAFLUOROBENZENE	11.02	168	781610	22.62	ug/l	75.40%
18) FLUOROBENZENE	12.95	96	917905	22.70	ug/l	75.67%
41) CS10 4-Bromofluorobenzene	20.40	95	527612	20.78	ug/l	69.28%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) C030 Methylene Chloride	8.19	84	51521	3.32	ug/l	# 84
45) NAPHTHALENE	27.23	128	179646	3.31	ug/l	100

*MA
JH
12-14-94*

000026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250909

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

Lab File ID: N0208.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
74-87-3	-----Chloromethane	2		U
74-83-9	-----Bromomethane	1		U
75-01-4	-----Vinyl Chloride	1		U
75-00-3	-----Chloroethane	1		U
75-09-2	-----Methylene Chloride	3		U
75-35-4	-----1,1-Dichloroethene	2		U
75-34-3	-----1,1-Dichloroethane	1		U
67-66-3	-----Chloroform	1		U
107-06-2	-----1,2-Dichloroethane	1		U
71-55-6	-----1,1,1-Trichloroethane	1		U
56-23-5	-----Carbon Tetrachloride	2		U
75-27-4	-----Bromodichloromethane	1		U
78-87-5	-----1,2-Dichloropropane	1		U
10061-01-5	-----cis-1,3-Dichloropropene	1		U
79-01-6	-----Trichloroethene	2		U
124-48-1	-----Dibromochloromethane	1		U
79-00-5	-----1,1,2-Trichloroethane	1		U
71-43-2	-----Benzene	1		U
10061-02-6	-----trans-1,3-Dichloropropene	1		U
75-25-2	-----Bromoform	1		U
127-18-4	-----Tetrachloroethene	3		U
79-34-5	-----1,1,2,2-Tetrachloroethane	2		U
108-88-3	-----Toluene	2		U
108-90-7	-----Chlorobenzene	2		U
100-41-4	-----Ethylbenzene	2		U
1330-20-7	-----Xylene (total)	6		U
75-69-4	-----Trichloromonofluoromethane	2		U
107-02-8	-----Acrolein	20		U
107-13-1	-----Acrylonitrile	2		U
75-65-0	-----Tertiary Butyl Alcohol	1		U
1634-34-4	-----Methyl Tertiary Butyl Ether	1		U
541-73-1	-----1,3-Dichlorobenzene	2		U
106-46-7	-----1,4-Dichlorobenzene	2		U
95-50-1	-----1,2-Dichlorobenzene	2		U

000027

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250909

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

Lab File ID: N0208.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether_____	4	U
156-60-5-----	Trans, 1,2-Dichloroethene_____	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-1

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250909

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

Lab File ID: N0208.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 15

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

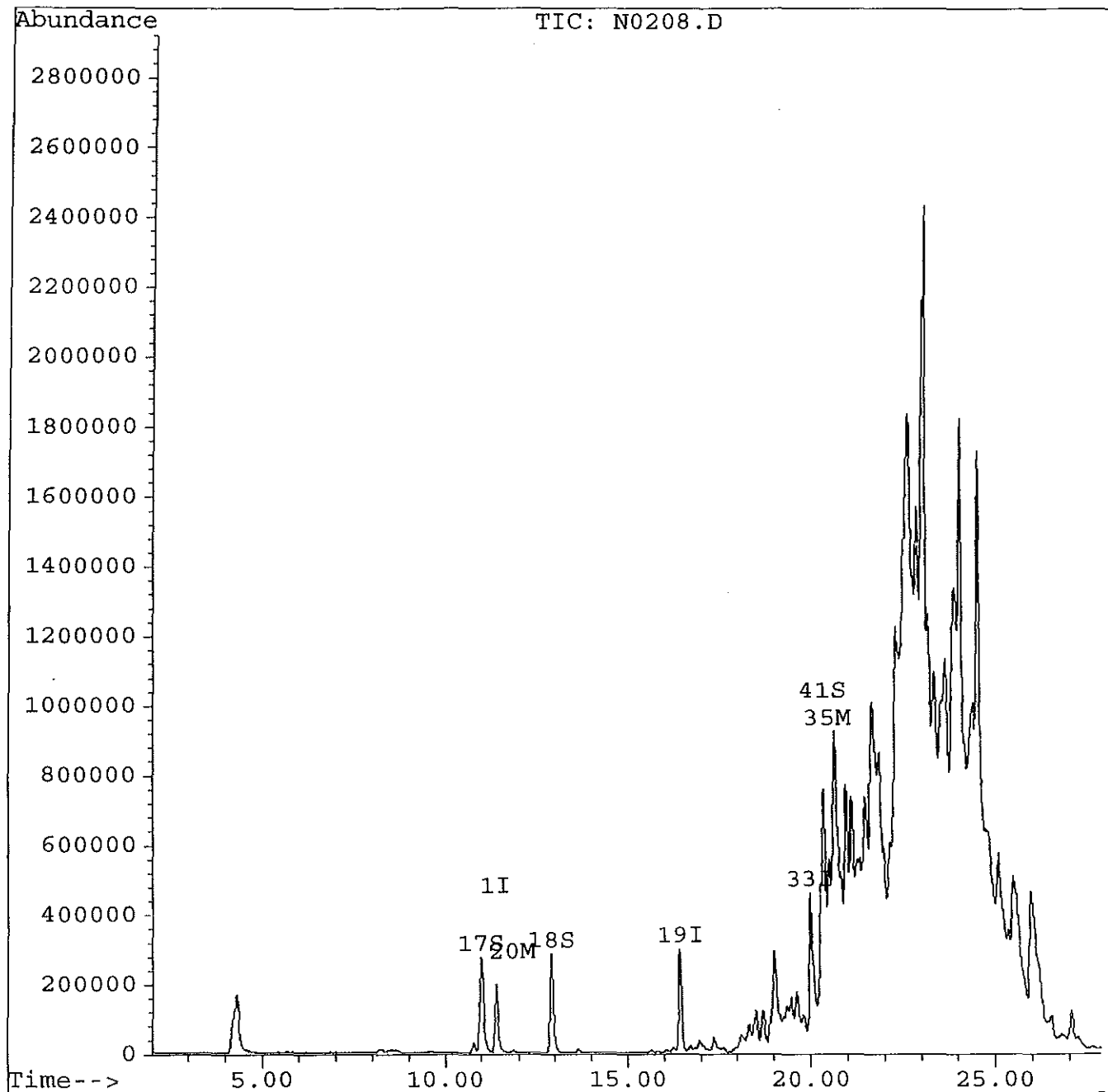
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	20.690	110	J
2.	UNKNOWN	21.718	110	J
3.	UNKNOWN	22.378	120	J
4.	UNKNOWN HYDROCARBON	22.698	310	J
5.	UNKNOWN	22.941	100	J
6.	UNKNOWN	23.116	190	J
7.	UNKNOWN HYDROCARBON	23.252	74	J
8.	UNKNOWN	23.417	100	J
9.	UNKNOWN	23.728	150	J
10.	UNKNOWN	23.951	140	J
11.	UNKNOWN AROMATIC	24.116	150	J
12.	UNKNOWN AROMATIC	24.476	100	J
13.	UNKNOWN AROMATIC	24.593	160	J
14.	UNKNOWN AROMATIC	25.147	65	J
15.	UNKNOWN AROMATIC	25.535	72	J
16.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0208.D
Acq Time : 14 Nov 94 16:31 pm
Sample : 2250909,750-1,
Misc : 1,1,,,5,5,P624,R11-9-94
Quant Time: Dec 13 10:28 1994

Operator: LDS
Inst : HPN
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Dec 06 02:26:13 1994
Response via : Multiple Level Calibration



000030

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0208.D
 Acq Time : 14 Nov 94 16:31 pm
 Sample : 2250909,750-1,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 13 10:28 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.40	128	170637	30.00	ug/l	-0.08
19) 2-BROMO-1-CHLOROPROPANE	16.45	77	631712	30.00	ug/l	-0.06
33) 1,4-DICHLOROBUTANE	20.02	55	724839	30.00	ug/l	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) PENTAFLUOROBENZENE	11.00	168	770094	21.65	ug/l	72.17%
18) FLUOROBENZENE	12.93	96	925933	22.25	ug/l	74.15%
41) CS10 4-Bromofluorobenzene	20.39	95	687586	18.51	ug/l	61.69%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) C115 1,1,1-Trichloroethane	11.86	97	20979	1.01	ug/l	90
35) C225 1,1,2,2-Tetrachloroet	20.53	83	113884	4.44	ug/l	80

*DS
12/14/94*

000031

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250910

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

Lab File ID: N0209.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	3	U
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	1	U
1634-34-4-----	Methyl Tertiary Butyl Ether	4	
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

000032

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250910

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

Lab File ID: N0209.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

000033

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250910

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

Lab File ID: N0209.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

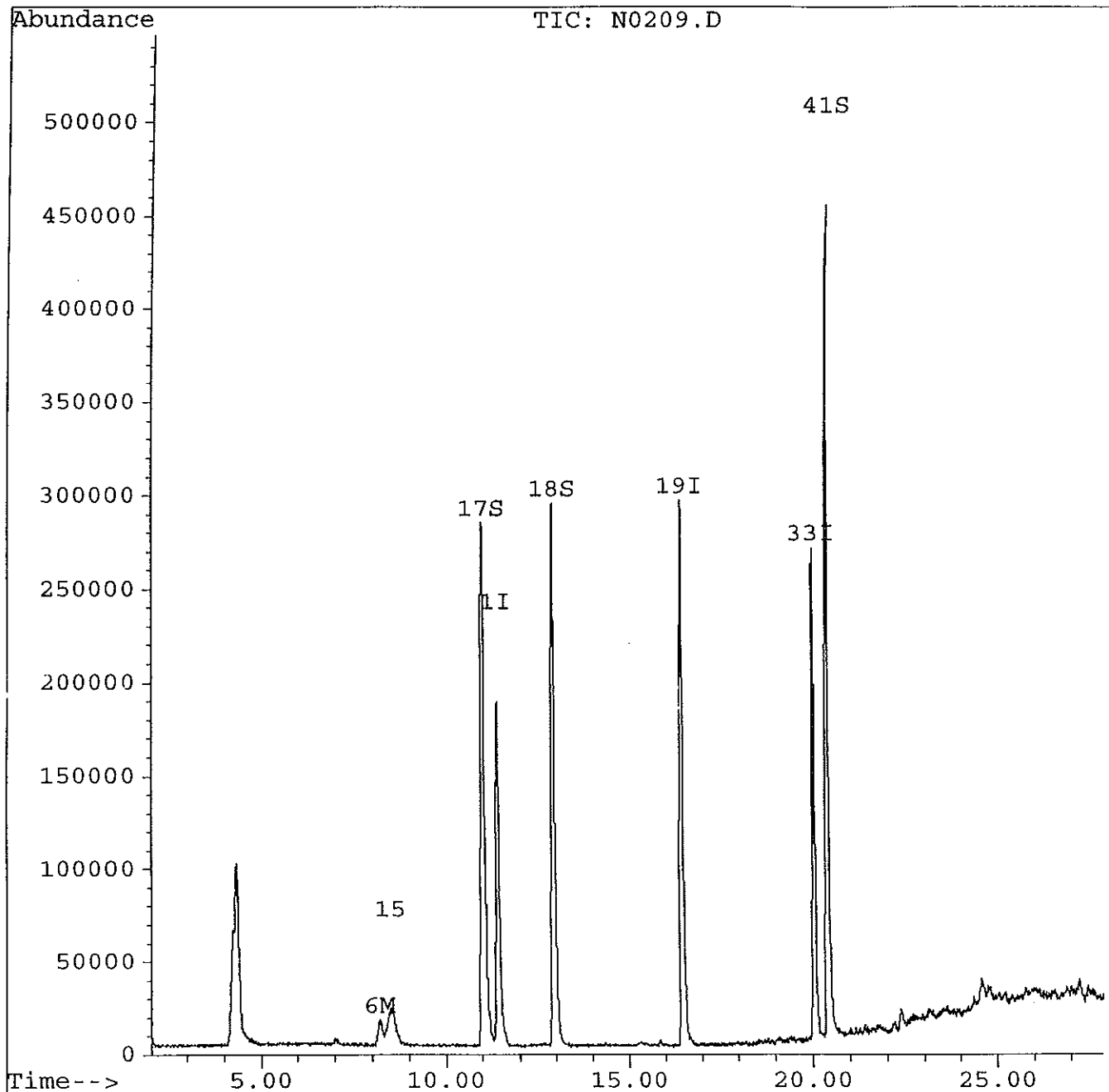
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0209.D
 Acq Time : 14 Nov 94 17:04 pm
 Sample : 2250910,750-3,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 8 12:30 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Multiple Level Calibration



000035

) Quantitation Report)

Data File : C:\HPCHEM\1\DATA\NOV1494\N0209.D
 Acq Time : 14 Nov 94 17:04 pm
 Sample : 2250910,750-3,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 8 12:30 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.42	128	168416	30.00	ug/l	-0.06
19) 2-BROMO-1-CHLOROPROPANE	16.47	77	631909	30.00	ug/l	-0.03
33) 1,4-DICHLOROBUTANE	20.05	55	501818	30.00	ug/l	-0.02
System Monitoring Compounds						%Recovery
17) PENTAFLUOROBENZENE	11.03	168	792037	22.56	ug/l	75.20%
18) FLUOROBENZENE	12.96	96	941502	22.92	ug/l	76.39%
41) CS10 4-Bromofluorobenzene	20.42	95	540840	21.03	ug/l	70.09%
Target Compounds						Qvalue
6) C030 Methylene Chloride	8.21	84	35248	2.23	ug/l #	80
15) C176 METHYL TERTIARY BUTYL	8.51	73	84483	11.20	ug/l	100

4 ppb
 12-14-94

000036

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250911

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

Lab File ID: N0210.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	3	
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	4	
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	1	U
1634-34-4-----	Methyl Tertiary Butyl Ether	110	
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250911

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

Lab File ID: N0210.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

750-4

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250911

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

Lab File ID: N0210.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 13

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

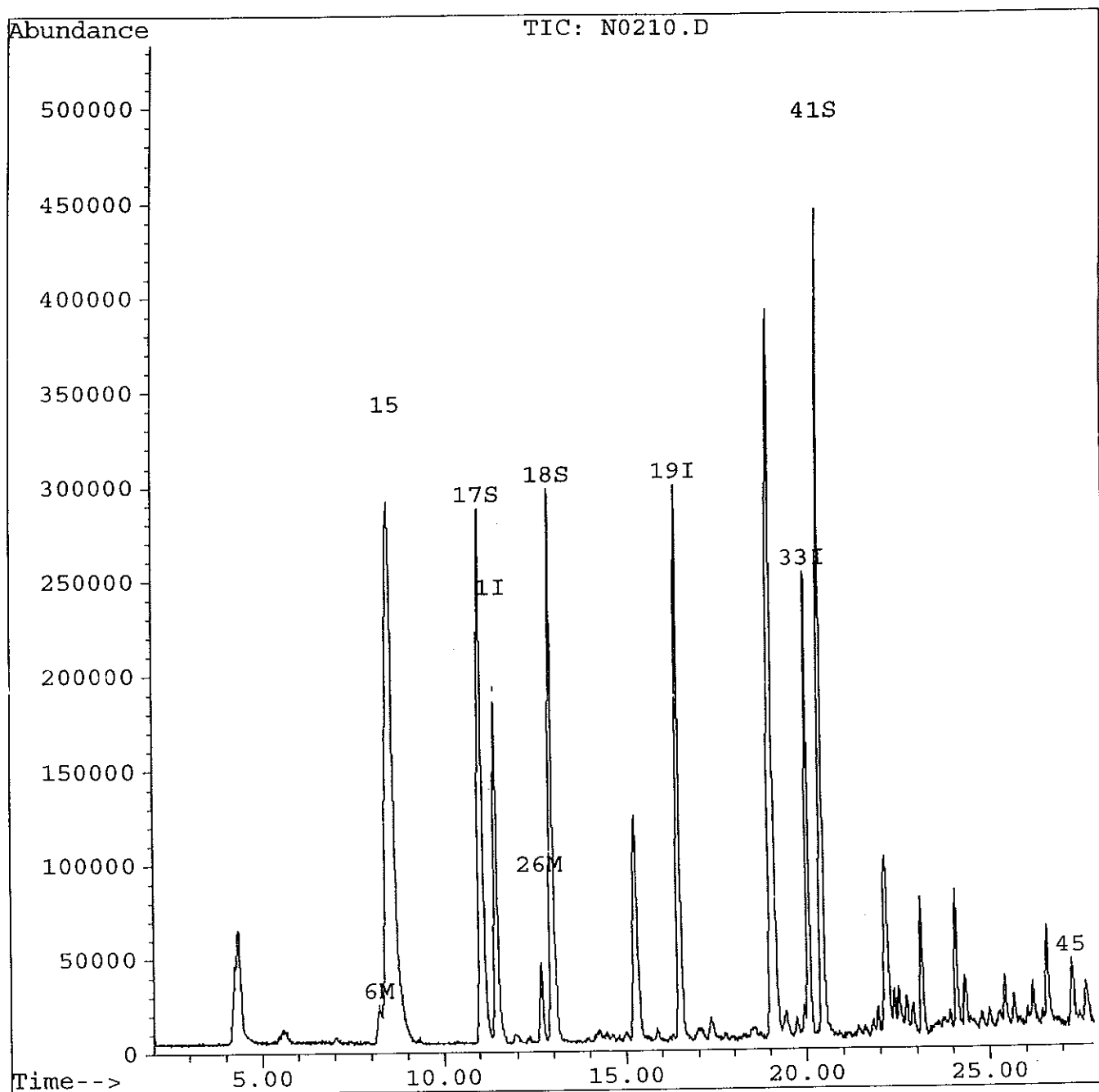
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	15.291	19	J
2.	UNKNOWN SILOXANE	19.072	83	J
3.	UNKNOWN	19.430	3	J
4.	UNKNOWN SILOXANE	22.199	21	J
5.	UNKNOWN HYDROCARBON	22.412	3	J
6.	TRIMETHYL BENZENE ISOMER	22.528	4	J
7.	DIETHYL BENZENE ISOMER	22.750	3	J
8.	UNKNOWN AROMATIC	23.155	10	J
9.	UNKNOWN AROMATIC	24.101	10	J
10.	TETRAMETHYL BENZENE ISOMER	24.333	4	J
11.	UNKNOWN AROMATIC	25.433	4	J
12.	UNKNOWN AROMATIC	26.611	8	J
13.	UNKNOWN AROMATIC	27.682	4	J
14.				
15.				
16.				
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30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0210.D
 Acq Time : 14 Nov 94 17:38 pm
 Sample : 2250911,750-4,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 8 12:31 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Multiple Level Calibration



000040

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0210.D
 Acq Time : 14 Nov 94 17:38 pm
 Sample : 2250911,750-4,
 Misc : 1,1,,,5,5,P624,R11-9-94
 Quant Time: Dec 8 12:31 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.45	128	163773	30.00	ug/l	-0.03
19) 2-BROMO-1-CHLOROPROPANE	16.50	77	633971	30.00	ug/l	-0.01
33) 1,4-DICHLOROBUTANE	20.07	55	466660	30.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) PENTAFLUOROBENZENE	11.06	168	788212	23.09	ug/l	76.96%
18) FLUOROBENZENE	12.98	96	950583	23.79	ug/l	79.32%
41) CS10 4-Bromofluorobenzene	20.43	95	540896	22.61	ug/l	75.51%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) C030 Methylene Chloride	8.23	84	43785	2.85	ug/l	# 89
15) C176 METHYL TERTIARY BUTYL	8.54	73	2336835	218.63	ug/l	110 MB 100
26) C165 Benzene	12.67	78	136634	3.47	ug/l	90
45) NAPHTHALENE	27.29	128	58083	1.14	ug/l	100

000041

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2562-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250916

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

Lab File ID: N0215.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	3	U
75-35-4	1,1-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
127-18-4	Tetrachloroethene	3	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-88-3	Toluene	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
1330-20-7	Xylene (total)	6	U
75-69-4	Trichloromonofluoromethane	2	U
107-02-8	Acrolein	20	U
107-13-1	Acrylonitrile	2	U
75-65-0	Tertiary Butyl Alcohol	1	U
1634-34-4	Methyl Tertiary Butyl Ether	1	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2562-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250916

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

Lab File ID: N0215.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2562-TB

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: 2250916

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: N0215.D

Level: (low/med) LOW

Date Received: 11/09/94

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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30.				

) Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0215.D

Acq Time : 14 Nov 94 20:26 pm

Sample : 2250916,2562-TB,

Misc : 1,1,,,5,5,P624,R11-9-94

Quant Time: Dec 8 12:40 1994

Operator: LDS

Inst : HPN

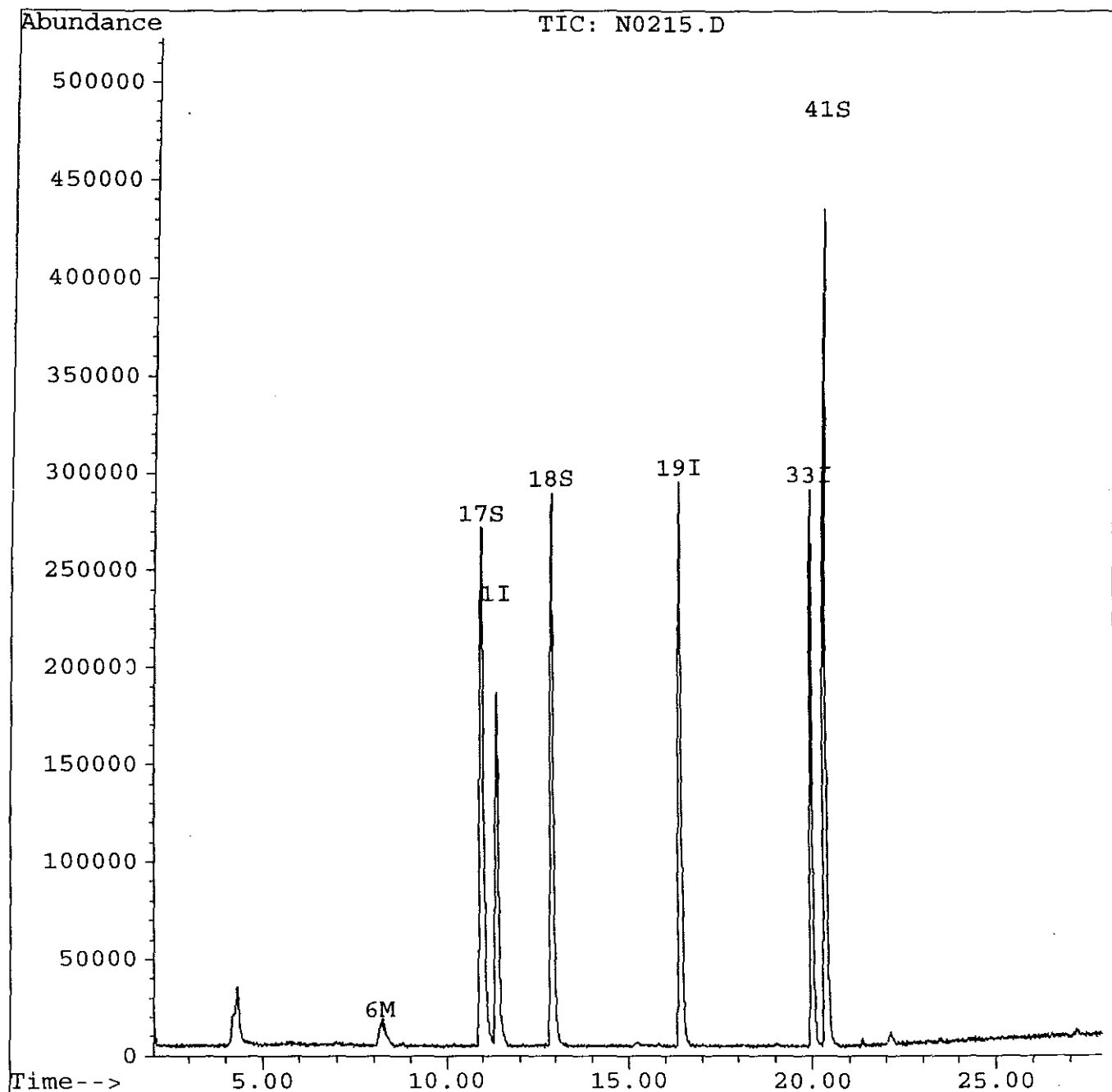
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M

Title : VOA Standards for 5 point calibration

Last Update : Tue Dec 06 02:26:13 1994

Response via : Multiple Level Calibration



000045

) Quantitation Report)

Data File : C:\HPCHEM\1\DATA\NOV1494\N0215.D

Acq Time : 14 Nov 94 20:26 pm

Sample : 2250916,2562-TB,

Misc : 1,1,,,5,5,P624,R11-9-94

Quant Time: Dec 8 12:40 1994

Operator: LDS

Inst : HPN

Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M

Title : VOA Standards for 5 point calibration

Last Update : Tue Dec 06 02:26:13 1994

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.36	128	165852	30.00	ug/l	-0.12
19) 2-BROMO-1-CHLOROPROPANE	16.42	77	623345	30.00	ug/l	-0.09
33) 1,4-DICHLOROBUTANE	19.99	55	550392	30.00	ug/l	-0.08
System Monitoring Compounds						%Recovery
17) PENTAFLUOROBENZENE	10.97	168	767318	22.19	ug/l	73.98%
18) FLUOROBENZENE	12.90	96	921993	22.79	ug/l	75.97%
41) CS10 4-Bromofluorobenzene	20.36	95	514258	18.23	ug/l	60.76%
Target Compounds						Qvalue
6) C030 Methylene Chloride	8.17	84	21107	1.36	ug/l	87

000046

(#) = qualifier out of range (m) = manual integration

N0215.D P624.M

Thu Dec 08 12:40:22 1994

HPN

Page 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VB LKN04

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: VBLKN04

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

Lab File ID: N0199.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	2	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	3	U
75-35-4-----	1,1-Dichloroethene	2	U
75-34-3-----	1,1-Dichloroethane	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	2	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	2	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2	U
108-88-3-----	Toluene	2	U
108-90-7-----	Chlorobenzene	2	U
100-41-4-----	Ethylbenzene	2	U
1330-20-7-----	Xylene (total)	6	U
75-69-4-----	Trichloromonofluoromethane	2	U
107-02-8-----	Acrolein	20	U
107-13-1-----	Acrylonitrile	2	U
75-65-0-----	Tertiary Butyl Alcohol	2	
1634-34-4-----	Methyl Tertiary Butyl Ether	1	U
541-73-1-----	1,3-Dichlorobenzene	2	U
106-46-7-----	1,4-Dichlorobenzene	2	U
95-50-1-----	1,2-Dichlorobenzene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBKKN04

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: VBKKN04

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

Lab File ID: N0199.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
110-75-8-----	2-Chloroethylvinyl Ether	4	U
156-60-5-----	Trans, 1,2-Dichloroethene	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBKKN04

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Matrix: (soil/water) WATER

Lab Sample ID: VBKKN04

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

Lab File ID: N0199.D

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. _____

Date Analyzed: 11/14/94

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

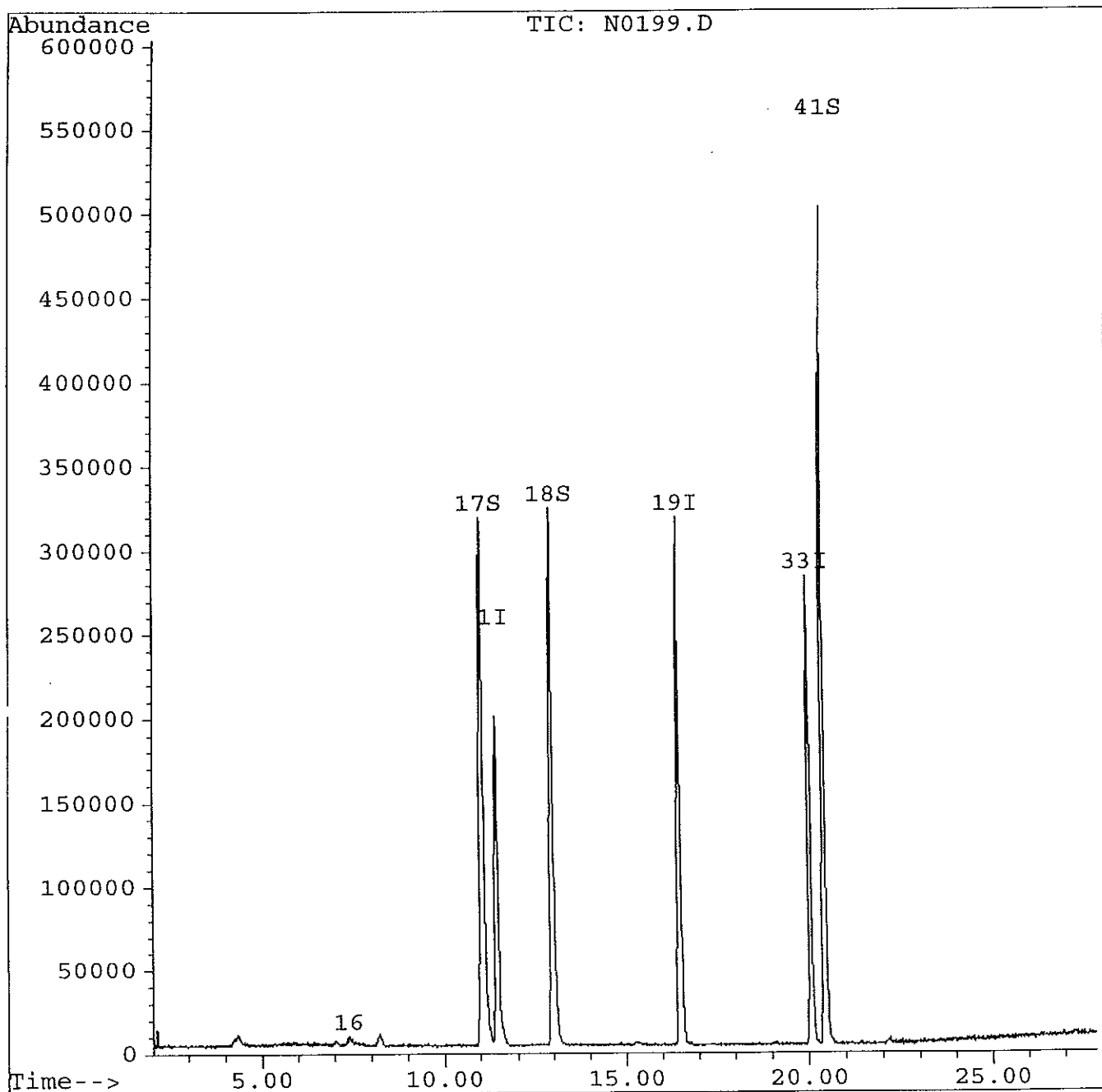
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				
2.				
3.				
4.				
5.				
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7.				
8.				
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0199.D
 Acq Time : 14 Nov 94 11:31 am
 Sample : VBLKN04,VBLKN04,
 Misc : 1,,,5,5,P624
 Quant Time: Dec 8 12:08 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Multiple Level Calibration



000050

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV1494\N0199.D
 Acq Time : 14 Nov 94 11:31 am
 Sample : VBLKN04,VBLKN04,
 Misc : 1,,,,5,5,P624
 Quant Time: Dec 8 12:08 1994

Operator: LDS
 Inst : HPN
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\P624.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Dec 06 02:26:13 1994
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) CI01 Bromochloromethane	11.44	128	174658	30.00	ug/l	-0.04
19) 2-BROMO-1-CHLOROPROPANE	16.49	77	681811	30.00	ug/l	-0.01
33) 1,4-DICHLOROBUTANE	20.06	55	538079	30.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) PENTAFLUOROBENZENE	11.04	168	890793	24.47	ug/l	81.55%
18) FLUOROBENZENE	12.97	96	1052247	24.70	ug/l	82.33%
41) CS10 4-Bromofluorobenzene	20.44	95	620849	22.51	ug/l	75.03%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) C177 TERTIARY BUTYL ALCOHO	7.38	59	29563	6.85	ug/l	100

*2 ppb
 us
 12-14-94*

000051

(#) = qualifier out of range (m) = manual integration

2A
WATER VOLATILE SURROGATE COMPOUND RECOVERY

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

	EPA SAMPLE NO.	SUR1 (FB) #	SUR2 (BFB) #	SUR3 (PFB) #	OTHER	TOT OUT
01	QCCHECK	86	82	87		0
02	VBLKN04	93	85	92		0
03	108-1	88	84	86		0
04	108-2	88	79	87		0
05	108-3	87	79	86		0
06	108-FB	86	79	85		0
07	108-DUP	88	82	87		0
08	108-TB	87	80	86		0
09	108-3MS	87	76	85		0
10	108-3MSD	86	80	85		0
11	750-1	84	70	82		0
12	750-3	86	80	85		0
13	750-4	90	86	87		0
14	290-1	86	82	84		0
15	2562-3	86	75	86		0
16	2562-1	85	70	84		0
17	2562-2	85	69	84		0
18	2562-TB	86	69	84		0
19	296-6	84	68	83		0
20	296-2	85	69	82		0
21	296-3	87	78	86		0
22	296-8	93	71	87		0
23	296-1	84	74	81		0
24	296-7	87	80	84		0
25						

QC LIMITS

SUR1 (FB) = Fluorobenzene (70-140)
 SUR2 (BFB) = Bromofluorobenzene (60-150)
 SUR3 (PFB) = Pentafluorobenzene (70-140)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

nytest

RECOVERY REPORT

Client Name:	Client SDG: ARMY1
Sample Matrix: LIQUID	Fraction: VOA
Lab Smp Id: 2250907	Client Smp ID: 108-3MS
Level: LOW	Operator: LDS
Data Type: MS DATA	SampleType: MS
SpikeList File: QCMS.spk	Quant Type: ISTD
Method File: /chem/HPN.i/22509.b/624.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	10	8	84.79	0-273
3 Bromomethane	10	12	121.47	0-242
4 Vinyl Chloride	10	9	92.95	0-251
5 Chloroethane	10	12	119.98	14-230
6 Methylene Chloride	10	12	121.12	0-221
9 1,1-Dichloroethene	10	12	120.19	0-234
11 1,1-Dichloroethane	10	13	127.58	59-155
13 Trans, 1,2-Dichlor	10	12	123.47	54-156
14 Chloroform	10	13	131.21	51-138
15 1,2-Dichloroethane	10	13	133.47	49-155
18 Trichloromonofluor	10	11	106.23	17-181
23 1,1,1-Trichloroeth	10	12	117.25	52-162
24 Carbon Tetrachlori	10	11	113.33	70-140
26 Bromodichlorometha	10	12	121.27	35-155
27 1,2-Dichloropropan	10	12	121.82	0-210
28 cis-1,3-Dichloropr	10	13	131.08	0-227
29 Trichloroethene	10	11	112.34	71-157
30 Dibromochlorometha	10	12	119.42	53-149
31 1,1,2-Trichloroeth	10	13	130.49	52-150
33 Benzene	10	12	123.04	37-151
34 trans-1,3-Dichloro	10	12	125.82	17-183
36 Bromoform	10	13	127.32	45-169
37 2-Chloroethylvinyl	10	12	121.83	0-305
40 Tetrachloroethene	10	10	102.44	64-148
42 1,1,2,2-Tetrachlor	10	16	156.75	46-157
44 Toluene	10	13	128.56	47-150
45 Chlorobenzene	10	11	107.79	37-160
46 Ethylbenzene	10	9	88.28	37-162
52 1,3-Dichlorobenzen	10	11	106.99	59-156
53 1,4-Dichlorobenzen	10	10	96.14	18-190
54 1,2-Dichlorobenzen	10	13	132.56	18-190

000053

nytest

RECOVERY REPORT

Client Name:

Sample Matrix: LIQUID

Lab Smp Id: 2250907

Level: LOW

Data Type: MS DATA

SpikeList File: QCMS.spk

Method File: /chem/HPN.i/22509.b/624.m

Misc Info:

Client SDG: ARMY1

Fraction: VOA

Client Smp ID: 108-3MS

Operator: LDS

SampleType: MS

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 32 Pentafluorobenzene	30	25	84.67	70-140
\$ 43 Fluorobenzene	30	26	87.14	70-140
\$ 47 Bromofluorobenzene	30	23	75.82	60-150

000054

nytest

RECOVERY REPORT

Client Name: Client SDG: ARMY1
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2250908 Client Smp ID: 108-3MSD
Level: LOW Operator: LDS
Data Type: MS DATA SampleType: MSD
SpikeList File: QCMS.spk Quant Type: ISTD
Method File: /chem/HPN.i/22509.b/624.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	10	10	95.98	0-273
3 Bromomethane	10	12	122.21	0-242
4 Vinyl Chloride	10	10	96.32	0-251
5 Chloroethane	10	12	120.96	14-230
6 Methylene Chloride	10	13	128.86	0-221
9 1,1-Dichloroethene	10	12	122.93	0-234
11 1,1-Dichloroethane	10	13	126.36	59-155
13 Trans, 1,2-Dichlor	10	12	124.98	54-156
14 Chloroform	10	13	133.38	51-138
15 1,2-Dichloroethane	10	13	132.51	49-155
18 Trichloromonofluor	10	11	113.32	17-181
23 1,1,1-Trichloroeth	10	13	126.26	52-162
24 Carbon Tetrachlori	10	12	118.85	70-140
26 Bromodichlorometha	10	12	125.76	35-155
27 1,2-Dichloropropan	10	13	129.27	0-210
28 cis-1,3-Dichloropr	10	13	127.86	0-227
29 Trichloroethene	10	12	117.50	71-157
30 Dibromochlorometha	10	12	123.75	53-149
31 1,1,2-Trichloroeth	10	14	135.49	52-150
33 Benzene	10	13	127.54	37-151
34 trans-1,3-Dichloro	10	13	126.89	17-183
36 Bromoform	10	12	125.03	45-169
37 2-Chloroethylvinyl	10	13	129.28	0-305
40 Tetrachloroethene	10	11	110.89	64-148
42 1,1,2,2-Tetrachlor	10	16	161.70*	46-157
44 Toluene	10	13	127.12	47-150
45 Chlorobenzene	10	12	118.34	37-160
46 Ethylbenzene	10	11	106.44	37-162
52 1,3-Dichlorobenzen	10	12	119.84	59-156
53 1,4-Dichlorobenzen	10	10	103.60	18-190
54 1,2-Dichlorobenzen	10	14	142.02	18-190

000055

nytest

RECOVERY REPORT

Client Name: Client SDG: ARMY1
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2250908 Client Smp ID: 108-3MSD
Level: LOW Operator: LDS
Data Type: MS DATA SampleType: MSD
SpikeList File: QCMS.spk Quant Type: ISTD
Method File: /chem/HPN.i/22509.b/624.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 32 Pentafluorobenzene	30	25	84.88	70-140
\$ 43 Fluorobenzene	30	26	85.98	70-140
\$ 47 Bromofluorobenzene	30	24	79.61	60-150

000056

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKN04

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Lab File ID: N0199.D

Lab Sample ID: VBLKN04

Date Analyzed: 11/14/94

Time Analyzed: 1131

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: HPN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	QC CHECK	QC CHECK	N0198.D	1058
02	108-1	2250901	N0200.D	1205
03	108-2	2250902	N0201.D	1238
04	108-3	2250903	N0202.D	1311
05	108-FB	2250904	N0203.D	1344
06	108-DUP	2250905	N0204.D	1418
07	108-TB	2250906	N0205.D	1451
08	108-3MS	2250907	N0206.D	1524
09	108-3MSD	2250908	N0207.D	1558
10	750-1	2250909	N0208.D	1631
11	750-3	2250910	N0209.D	1704
12	750-4	2250911	N0210.D	1738
13	290-1	2250912	N0211.D	1811
14	2562-3	2250913	N0212.D	1845
15	2562-1	2250914	N0213.D	1919
16	2562-2	2250915	N0214.D	1953
17	2562-TB	2250916	N0215.D	2026
18	296-6	2250917	N0216.D	2100
19	296-2	2250918	N0217.D	2135
20	296-3	2250920	N0219.D	2234
21	296-8	2250921	N0220.D	2307
22	296-1	2250922	N0221.D	2340
23	296-7	2250919	N0222.D	0013
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Lab File ID: N0163.D

BFB Injection Date: 11/08/94

Instrument ID: HPN

BFB Injection Time: 1152

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.4
75	30.0 - 60.0% of mass 95	38.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.2 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	65.8 (97.8)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	N0165.D	11/08/94	1237
02	VSTD010	VSTD010	N0166.D	11/08/94	1310
03	VSTD030	VSTD030	N0167.D	11/08/94	1343
04	VSTD050	VSTD050	N0168.D	11/08/94	1416
05	VSTD200	VSTD200	N0169.D	11/08/94	1450
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Lab File ID: N0197.D

BFB Injection Date: 11/14/94

Instrument ID: HPN

BFB Injection Time: 1028

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	40.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	Greater than 50.0% of mass 95	69.8
175	5.0 - 9.0% of mass 174	5.6 (8.0) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.8 (100.0) 1
177	5.0 - 9.0% of mass 176	4.0 (5.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCCKECK	QCCKECK	N0198.D	11/14/94	1058
02	VLKN04	VLKN04	N0199.D	11/14/94	1131
03	108-1	2250901	N0200.D	11/14/94	1205
04	108-2	2250902	N0201.D	11/14/94	1238
05	108-3	2250903	N0202.D	11/14/94	1311
06	108-FB	2250904	N0203.D	11/14/94	1344
07	108-DUP	2250905	N0204.D	11/14/94	1418
08	108-TB	2250906	N0205.D	11/14/94	1451
09	108-3MS	2250907	N0206.D	11/14/94	1524
10	108-3MSD	2250908	N0207.D	11/14/94	1558
11	750-1	2250909	N0208.D	11/14/94	1631
12	750-3	2250910	N0209.D	11/14/94	1704
13	750-4	2250911	N0210.D	11/14/94	1738
14	290-1	2250912	N0211.D	11/14/94	1811
15	2562-3	2250913	N0212.D	11/14/94	1845
16	2562-1	2250914	N0213.D	11/14/94	1919
17	2562-2	2250915	N0214.D	11/14/94	1953
18	2562-TB	2250916	N0215.D	11/14/94	2026
19	296-6	2250917	N0216.D	11/14/94	2100
20	296-2	2250918	N0217.D	11/14/94	2135
21	296-3	2250920	N0219.D	11/14/94	2234
22	296-8	2250921	N0220.D	11/14/94	2307

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Lab File ID: N0197.D

BFB Injection Date: 11/14/94

Instrument ID: HPN

BFB Injection Time: 1028

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	40.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	69.8
175	5.0 - 9.0% of mass 174	5.6 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.8 (100.0)1
177	5.0 - 9.0% of mass 176	4.0 (5.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	296-1	2250922	N0221.D	11/14/94	2340
02	296-7	2250919	N0222.D	11/15/94	0013
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Instrument ID: HPN

Calibration Date(s): 11/08/94

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Max %RSD for CCC(*) = 35.0%

LAB FILE ID:		RRF005 =N0165.D		RRF010 =N0166.D		RRF030=N0167.D		RRF050=N0168.D		RRF200=N0169.D	
COMPOUND		RRF005	RRF010	RRF030	RRF050	RRF200	RRF	%	RSD		
=====		=====	=====	=====	=====	=====	=====	=====	=====		
Chloromethane		1.569	1.346	1.370	1.315	1.288	1.378	8.1			
Bromomethane		1.967	1.807	1.716	1.642	1.596	1.746	8.4			
Vinyl Chloride		1.965	1.765	1.822	1.747	1.789	1.821	4.6			
Chloroethane		1.133	1.109	1.001	1.021	0.975	1.048	6.6			
Methylene Chloride		3.913	2.873	2.154	2.030	1.854	2.565	33.0			
1,1-Dichloroethene		2.105	1.877	1.918	1.889	1.855	1.929	5.2			
1,1-Dichloroethane		3.845	3.464	3.518	3.485	3.589	3.580	4.3			
Chloroform		4.126	3.689	3.562	3.506	3.588	3.694	6.8			
1,2-Dichloroethane		2.024	1.859	1.799	1.741	1.835	1.852	5.7			
1,1,1-Trichloroethane		0.939	0.857	0.859	0.827	0.866	0.869	4.8			
Carbon Tetrachloride		0.814	0.736	0.760	0.751	0.778	0.768	3.9			
Bromodichloromethane		1.081	0.977	0.971	0.953	1.010	0.998	5.1			
1,2-Dichloropropane		0.722	0.658	0.658	0.647	0.686	0.674	4.5			
cis-1,3-Dichloropropene		0.983	0.873	0.869	0.846	0.897	0.893	5.9			
Trichloroethene		0.712	0.643	0.653	0.652	0.669	0.666	4.1			
Dibromochloromethane		0.883	0.816	0.812	0.803	0.843	0.831	3.9			
1,1,2-Trichloroethane		0.629	0.570	0.564	0.548	0.578	0.578	5.3			
Benzene		1.788	1.593	1.612	1.576	1.647	1.643	5.2			
trans-1,3-Dichloropropene		0.792	0.710	0.708	0.688	0.726	0.725	5.5			
Bromoform		0.709	0.646	0.644	0.645	0.565	0.642	7.9			
Tetrachloroethene		0.921	0.805	0.826	0.835	0.902	0.858	5.9			
1,1,2,2-Tetrachloroethane		1.209	1.036	1.013	0.986	0.000	1.061	9.5			
Toluene		2.017	1.801	1.774	1.746	1.820	1.832	5.8			
Chlorobenzene		2.021	1.789	1.801	1.797	1.970	1.876	5.9			
Ethylbenzene		0.976	0.823	0.799	0.835	0.905	0.868	8.3			
Xylene (total)		1.192	1.065	1.058	1.066	1.152	1.106	5.5			
Trichloromonofluoromethane		3.860	3.429	3.389	3.310	3.404	3.479	6.3			
Acrolein		0.139	0.100	0.096	0.087	0.072	0.099	25.4			
Acrylonitrile		0.792	0.744	0.714	0.764	0.695	0.742	5.2			
Tertiary Butyl Alcohol		1.994	1.821	3.284	3.221	1.915	2.447	30.2			
Methyl Tertiary Butyl Ether		4.512	4.110	3.702	3.671	3.551	3.909	10.2			
1,3-Dichlorobenzene		1.776	1.527	1.544	1.574	1.335	1.551	10.1			
1,4-Dichlorobenzene		1.808	1.663	1.553	1.722	1.257	1.600	13.3			
1,2-Dichlorobenzene		1.663	1.436	1.449	1.469	0.000	1.504	7.1			
2-Chloroethylvinyl Ether		0.722	0.658	0.658	0.647	0.686	0.674	4.5			
Trans, 1,2-Dichloroethene		2.270	1.921	1.880	1.838	1.838	1.950	9.4			
=====		=====	=====	=====	=====	=====	=====	=====			
Fluorobenzene		7.222	6.388	6.218	6.099	6.397	6.465	6.8			

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: NYTEST ENV INC

Contract: 9421415

Lab Code: NYTEST

Case No.: 22509

SAS No.:

SDG No.: ARMY1

Instrument ID: HPN

Calibration Date(s): 11/08/94

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Max %RSD for CCC(*) = 35.0%

LAB FILE ID:	RRF005 =N0165.D	RRF010 =N0166.D
RRF030=N0167.D	RRF050=N0168.D	RRF200=N0169.D

COMPOUND	RRF005	RRF010	RRF030	RRF050	RRF200	RRF	% RSD
Bromofluorobenzene	1.548	1.324	1.291	1.240	1.371	1.355	8.7
Pentafluorobenzene	6.013	5.464	5.291	5.277	5.534	5.516	5.4

000062

nytest

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: QCCHECK
Level: LOW
Data Type: MS DATA
SpikeList File: QCCHK.spk
Method File: /chem/HPN.i/22509.b/624.m
Misc Info:

Client SDG: ARMY1
Fraction: VOA
Client Smp ID: QCCHECK
Operator: LDS
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
1 Chloromethane	10	9	93.65	0-204
3 Bromomethane	10	12	120.55	14-186
4 Vinyl Chloride	10	9	93.76	4-196
5 Chloroethane	10	12	117.23	38-162
6 Methylene Chloride	10	13	128.27	60-140
9 1,1-Dichloroethene	10	12	115.97	50-150
11 1,1-Dichloroethane	10	12	121.88	72-128
13 Trans, 1,2-Dichlor	10	12	121.73	70-130
14 Chloroform	10	13	129.64	68-132
15 1,2-Dichloroethane	10	13	129.33	68-132
18 Trichloromonofluor	10	11	108.43	48-152
23 1,1,1-Trichloroeth	10	12	123.83	75-125
24 Carbon Tetrachlori	10	12	120.99	73-127
26 Bromodichlorometha	10	12	123.55	66-134
27 1,2-Dichloropropan	10	12	123.82	34-166
28 cis-1,3-Dichloropr	10	13	128.31	24-176
29 Trichloroethene	10	12	119.42	66-134
30 Dibromochlorometha	10	12	124.96	68-132
31 1,1,2-Trichloroeth	10	12	124.50	71-129
33 Benzene	10	12	123.90	64-136
34 trans-1,3-Dichloro	10	13	128.05	50-150
36 Bromoform	10	13	130.91*	71-129
37 2-Chloroethylvinyl	10	12	123.83	0-224
40 Tetrachloroethene	10	11	114.93	74-126
42 1,1,2,2-Tetrachlor	10	16	159.06*	60-140
44 Toluene	10	13	126.54*	74-126
45 Chlorobenzene	10	12	118.24	66-134
46 Ethylbenzene	10	12	117.79	59-141
52 1,3-Dichlorobenzen	10	12	124.53	73-127
53 1,4-Dichlorobenzen	10	11	108.55	63-137
54 1,2-Dichlorobenzen	10	15	148.69*	63-127

000068

nytest

RECOVERY REPORT

Client Name: Client SDG: ARMY1
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: QCCHECK Client Smp ID: QCCHECK
Level: LOW Operator: LDS
Data Type: MS DATA SampleType: MS
SpikeList File: QCCHK.spk Quant Type: ISTD
Method File: /chem/HPN.i/22509.b/624.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
\$ 32 Pentafluorobenzene	30	26	86.62	70-140
\$ 43 Fluorobenzene	30	26	85.75	70-140
\$ 47 Bromofluorobenzene	30	25	82.02	50-150

000064

Metals Data

000065

NYTEST ENVIRONMENTAL INC

SAMPLE NO.

Lab Name: NYTEST ENV INC. Contract: 9421415

108-FB

Lab Code: NYTEST Login No.: 22509 QC Report No.22509

Matrix (soil/water): WATER
Level (low/high) : LOW
Percent Solids : 0.0

Lab Sample ID: 250904
Date Received: 11/09/94

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

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was
not detected in this sample; "B" = Sample value greater than Instrument
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

108-FB

000066

NYTEST ENVIRONMENTAL IN

SAMPLE NO.

Lab Name: NYTEST_ENV_INC. _____ Contract: 9421415 _____

750-1

Lab Code: NYTEST Login No.: 22509_ QC Report No.22509

Lab Sample ID: 250909

Date Received: 11/09/94

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

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was
not detected in this sample; "B" = Sample value greater than Instrument
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

750-1

000067

INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

750-3

Lab Name: NYTEST ENV INC. Contract: 9421415

Lab Code: NYTEST Login No.: 22509 QC Report No.22509

Matrix (soil/water): WATER

Lab Sample ID: 250910

Level (low/high) : LOW

Date Received: 11/09/94

Percent Solids : 0.0

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

[illegible]

CODES :

P: ICP; F : GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric
Note: A "U" in the "C" (Concentration) column indicates the analyte was
not detected in this sample; "B" = Sample value greater than Instrument
Detection Limit, but less than reporting limit; "NR" = Not Required.

Comments:

750-3

000068

INORGANICS ANALYSIS DATA SHEET

750-4

Percent Solids : 0.0

Comments:

750-4

000069

INITIAL AND CONTINUING CALIBRATION VERIFICATION

CRDL STANDARD FOR AA AND ICP

ICP CRDL Standard Source:

[illegible]

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Preparation Blank Concentration Units (ug/L or mg/kg): _____

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NYTEST ENVIRONMENTAL I.

SAMPLE NO.

MATRIX SPIKE RECOVERY DATA SHEET

Lab Name: NYTEST_ENV_INC.

Contract: 9421415

108-3MSD

Lab Code: NYTEST

Login No.: 22509_

QC Report No. : 22509_

Matrix (soil/water): WATER_

Level (low/med): LOW

% Solids for Sample: 0.0

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

[illegible]

Comments:

108-3MSD

NR : Analyte Not Required

NYTEST ENVIRONMENTAL . 3.

SAMPLE NO.

DUPLICATES

Lab Name: NYTEST ENV INC.

Contract: 9421415

108-3MS

Lab Code: NYTEST Login No.: 22509

QC Report No. : 22509

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

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

[illegible]

NR : Analyte Not Requested

Contract: 9421415

QC Report No.: 22509_

Solid LCS Source: _____

Aqueous LCS Source: SPEX_____

[illegible]

