



DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY GARRISON FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5101



REPLY TO
ATTENTION OF

Directorate of Public Works

December 1, 2000

State of New Jersey
Department of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Case Management
401 East State Street
ATTN: Ian Curtis
P. O. Box 028
Trenton, NJ 08625-0028

Re: Remedial Action Progress Report
Site CW-1, DSERTS Site FTMM-22
Fort Monmouth, New Jersey
Charles Wood Area

Dear Mr. Curtis:

Submitted for your review and edification, please find a copy of the above referenced report. Said report documents the Directorate of Public Works (DPW) efforts to operate and maintain the air sparging/soil vapor extraction system currently in use at the CW-1 site. The report covers the operating period between October 1999 and March 2000. The process of upgrading our LIMS system is currently underway. However, at this time the DPW is not in a position to provide electronic data deliverables as required by N.J.A.C. 7:26E et seq. As more information becomes available to me, I will update you as to our ability to provide electronic data deliverables.

Should you have any questions or require any additional information regarding this report, please contact the undersigned at the following telephone number: (732) 532-6223.

Sincerely,

Joseph M. Fallon, CHMM
Environmental Protection Specialist
Directorate of Public Works

Encl.



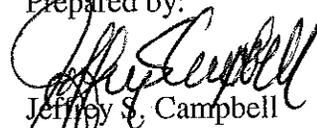
REMEDIAL ACTION PROGRESS REPORT
October 1999 through March 2000
U.S. Army, Fort Monmouth
Building 2700, Charles Wood Area
Fort Monmouth, Monmouth County, New Jersey

November 27, 2000

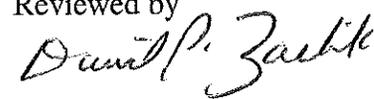
Prepared for:

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1.0 SITE DESCRIPTION

Camp Charles Wood (Charles Wood Area) is one of two sub-posts of the United States Army installation designated as Fort Monmouth, New Jersey. The Hexagon Building (Building 2700) is located in the western portion of the Charles Wood Area (see Figure 1). A former wastewater treatment lime pit (designated site CW-1), which served Building 2700, is located within the courtyard of Building 2700, located approximately 45 feet southeast of a partially underground auditorium. A site plan is presented as Figure 2.

Groundwater & Environmental Services, Inc. (GES) has been contracted to operate and maintain the remediation system addressing the former Lime Pit CW-1 area. This Remedial Action Progress Report (RAPR) summarizes the results of the groundwater sampling program and remediation system monitoring data for the period from October 1999 through March 2000.

2.0 SITE HISTORY

As described in the June 1997 *Remedial Action Workplan (RAW)*, prepared by Smith Technology Corp. (Smith), dissolved-phase volatile organic compounds (VOCs), including tetrachloroethene (PCE), trichloroethene (TCE) and 1,1-dichloroethene (DCE), were identified in groundwater adjacent to former Lime Pit CW-1 in February and March 1995. The VOCs were associated with the pre-treatment of liquid laboratory wastes from Building 2700 that were routed through former Lime Pit CW-1 prior to discharge to sanitary sewer. Subsequently, CW-1 was identified as a source of VOCs in groundwater. Following CW-1 clean-out and disposal activities in 1992, a residual source of chlorinated VOCs was identified in the subsurface beneath CW-1. Active remedial strategies have been implemented to address this impact. A groundwater remediation system consisting of VOC removal via air-sparging with soil vapor extraction was constructed during the first quarter of 1998. System operation began on April 8, 1998 in accordance with the conditions required by NJDEP Air Discharge Permit #01-97-4274.



3.0 SITE HYDROGEOLOGY

Seven monitoring wells, two air sparge points, and two soil vapor extraction points have been installed in the area of former wastewater treatment lime pit CW-1. According to drill logs prepared for these wells, subsurface materials consist of unconsolidated, generally well compacted, stratified glauconitic silty sand with laterally discontinuous, alternating clay and silt lenses. The stratigraphy from approximately 17 to 25 feet below grade is silty clayey fine sand, and may represent a semi-confining unit, separating predominantly sand units above 17 feet and below 25 feet. A silt unit that is at least 9 feet thick begins at 41 feet below grade.

The depth to water in the CW-1 area is approximately 9 feet below grade. Groundwater flow is typically from west to east. Groundwater in the area is within a Class IIA aquifer designated by the NJDEP in N.J.A.C. 7:9-6. An unnamed tributary of the Parkers Creek is located approximately 700 feet southeast of the source area. Parkers Creek is designated FW2-NT/SE1 from its source to Horseneck Point in N.J.A.C 7:9B *Surface Water Quality Criteria*.

4.0 GROUNDWATER SAMPLING AND MONITORING

A groundwater monitoring program was conducted on seven monitoring wells in accordance with the June 1997 RAW. Wells MW-26 and MW-27 are upgradient monitoring points, wells MW-282 and MW-291 are located downgradient of the source area, and wells MW-28 and MW-29 are located within the source area. Well MW-281 is a deep monitoring point in the source area.

From October 1999 through March 2000, the wells were monitored on a monthly basis (see Table 1). The groundwater elevations were measured from the monitoring wells utilizing an optical interface probe, designed to detect separate phase product (SPP) and water. No measurable SPP was reported in any of the wells during the entire monitoring period.

4.1 *Groundwater Monitoring*

Two sampling events (10 November 1999 and 21 March 2000) were chosen to demonstrate typical site conditions for this reporting period. On 10 November 1999, depth to water ranged from 9.58 (MW-282) to 12.75 (MW-281) feet below the top of well casing (see Table 1). Groundwater flow was to the east, under an average hydraulic gradient of 0.008 feet/foot. Deep monitoring well MW-281 is not used to calculate sitewide hydraulic gradients. Groundwater contours are included on the 10 November 1999 Site Information Plan (Figure 3).

During the 21 March 2000 monitoring event, depth to water ranged from 9.05 (MW-282) to 11.88 (MW-281) feet below the top of well casing. Groundwater flow was to the east, under a hydraulic gradient of 0.008 feet/foot. A Site Information Plan, including groundwater contours, for 21 March 2000 is presented as Figure 4.

4.2 *Groundwater Sampling*

All groundwater samples were analyzed by Fort Monmouth Directorate of Public Works (DPW) Environmental Testing Laboratory (NJDEP certification # 13461) for Priority Pollutant Volatile Organic Compounds plus a library search (PPVOCs+10), including cis-1,2-dichloroethene (cis-1,2-DCE) via USEPA Method 624. Laboratory Data Reports are included in Appendix I. Analytical results are summarized in Table 1, and total VOC concentrations in groundwater with time for each well are presented in Figure 5. The results of two sampling dates typical of site conditions are summarized below and are presented in Figures 3 and 4.

On 10 November 1999, targeted VOCs were not detected in groundwater samples collected from wells MW-26, MW-27, MW-282 and MW-291. Tentatively identified volatile organic compounds (TICs) were reported in samples MW-27, MW-28, MW-282, and MW-291. VOCs were reported in sample MW-29 at 816.8 parts per billion (ppb) and MW-281 at 6.19 ppb (see Figure 3).



On 21 March 2000, VOCs were not detected in samples collected from wells MW-26, MW-27, MW282 and MW-291. VOCs were reported in samples MW-28, MW-29 and MW-281 at total concentrations ranging from 18.51 ppb at well MW-281 to 218.16 ppb at MW-29 (see Figure 4).

4.3 Discussion

Targeted VOCs were not identified in groundwater upgradient (MW26 & MW27) of CW-1 during the six sampling events completed monthly from October 1999 through March 2000. TCE concentrations in source area groundwater (MW28 & MW29) were greater than the NJDEP Ground Water Quality Standards (GWQS) of 1 ppb during all six events. 1,2-DCE concentrations in source area groundwater were greater than the NJDEP GWQS of 10 ppb during all six events at MW29 and during two events at MW28. TCE concentrations in deep source area groundwater (MW281) were greater than the GWQS of 1 ppb during six events. Downgradient of the source area (MW282 & MW291), VOCs were not identified above method detection limits during all six events. Further discussion of the dissolved-phase groundwater plume is provided below.

Upgradient Monitoring Points

Targeted VOCs were not detected at upgradient monitoring points MW-26 and MW-27 from October 1999 through March 2000. VOCs were last detected at MW-26 in November 1998 and at MW-27 in June 1999 (see Table 1).

Source Area Monitoring Points

TCE concentrations in source area groundwater (MW28 & MW29) were greater than the NJDEP Ground Water Quality Standards (GWQS) of 1 ppb during all six events completed this reporting period. 1,2-DCE concentrations in source area groundwater were greater than the NJDEP GWQS of 10 ppb during all six events at MW29 and during two events at MW28. In addition, the TCE concentration in deep groundwater in the source area (MW281) was greater than the



GWQS during all six events. VOC concentrations in source area well MW-29 were generally decreasing from October 1999 through March 2000. VOC concentrations in source area well MW-28 generally decreased from October 1999 through January 2000, and increased from January through March 2000. VOC concentrations in deep source area monitoring point MW-281 were generally stable from October 1999 through February 2000, and increased in March 2000 (see Table 1).

VOC concentrations in source area well MW-29 have been decreasing since April 1999 (see Figure 5). VOC concentrations in source area well MW-28 have been decreasing since July 1999. VOC concentrations in deep source area monitoring point MW-281 have been decreasing since 1997 (see Figure 5).

Downgradient Monitoring Points

VOCs were not detected in downgradient monitoring points MW-282 and MW-291 from October 1999 through March 2000 (see Table 1).

General

Groundwater sampling results for this period indicate that the dissolved-phase VOC plume in shallow groundwater (at or just below the water table) is characterized by TCE and cis-1,2-DCE in the source area. TCE and 1,2-DCE concentrations decrease to not detected levels less than ninety feet downgradient, where groundwater is monitored by well MW-291. As discussed above, general decreasing trends in the total VOC concentrations at all three source area monitoring wells are evident in Figure 5. TCE is also present in the source area in 25 to 40 foot zone (MW281).

5.0 REMEDIAL SYSTEM COMPONENTS/SUMMARY

The remediation system adjacent to the former Lime Pit CW-1 consists of air sparging with soil vapor extraction (AS/SVE). Extracted vapors are treated using granular activated carbon (GAC) prior to discharge to the atmosphere. A brief description of the system is provided below, and a Process and Instrumentation Diagram (P&ID) is presented as Figure 6.

The air-sparging system is designed to induce volatilization of dissolved-phase VOCs in groundwater. Air is injected into the saturated zone at the 14 to 15 foot interval through sparge points SP1 and SP2. Fugitive VOCs are then withdrawn with soil gas vapors extracted by the application of a vacuum to extraction points SVE1 and SVE2. Recovered vapors are directed through a moisture separator and a particulate filter. The vapor stream changes to positive pressure after passing through the vacuum blower, and is directed to a heat exchanger, and then to two in-series GAC treatment canisters. The heat exchanger was installed in December 1998 to reduce the vapor stream temperature. Lowering the temperature of the vapor stream increases adsorption efficiency of the GAC units and prevents thermal desorption of VOCs from the GAC units. Treated vapors are discharged to the atmosphere under permit via a 10-foot high stack (see Figure 5).

6.0 REMEDIAL SYSTEM PERFORMANCE

The AS/SVE system at the Charles Wood Area became operational on April 8, 1998. During the current reporting period, the system was monitored twice per month (see Table 2). The system was not operational from 08 September through 02 December, 1999 due to power system upgrades associated with Building 2700. The following data were collected during each monitoring event:

- 1) operating pressures and vacuum,

- 2) vacuum levels at each extraction well,
- 3) individual and combined influent flow rates,
- 4) influent concentration prior to GAC treatment,
- 5) vapor concentration between GAC units (midpoint), and
- 6) GAC effluent concentration.

The system performance monitoring data is presented in Table 2. The combined influent air flow rate during the reporting period ranged from approximately 149 to 167 standard cubic feet per minute (scfm) under an applied vacuum ranging from 28 to 36 inches of water. The system is generally operating within the vacuum and air-flow ranges proposed in the RAW. However, sufficient dilution air is required to decrease the rate of water accumulation in the moisture knock-out tank. Assuming a cumulative contaminant weight of 119.88 grams per mole, the average mass removal rate was 0.012 pounds (lbs) of contaminants per hour. Approximately 30.3 lbs, or approximately were removed from December 1999 through March 2000. The plot displaying mass removal and influent concentration versus time is included as Figure 7. A total of 185.06 lbs have been removed to date.

7.0 PROPOSED REMEDIAL ACTIVITIES

The AS/SVE system will remain operational until contaminant concentrations in groundwater meet the NJDEP GWQS or alternative remedial actions are implemented. Operation and maintenance visits will be performed twice a month. Monitoring and sampling will continue on a monthly basis to monitor groundwater conditions. Semiannual RAPRs summarizing remediation system performance and groundwater conditions will be submitted. In addition to this operating schedule, additional tasks have been completed in order to delineate the groundwater plume (see Section 7.1). The results of these tasks will be utilized to modify the remediation system to increase the effectiveness of VOC recovery.

7.1 *Delineation*

Groundwater sampling data indicates that the dissolved-phase plume is not delineated south of well MW-29 and north of MW-28. In addition, the presence of VOCs at MW-291 during the prior reporting period may indicate that dissolved contaminants may have migrated hydraulically downgradient of this well. Therefore, a groundwater investigation consisting of grab groundwater sampling from temporary well points was performed in the CW-1 area. The results were used to select locations for permanent monitoring wells to delineate the groundwater plume. New monitoring wells were installed south/southeast of MW29, east/southeast of MW291 and north/northeast of MW-28. The new wells have been incorporated into the monthly groundwater sampling program. The groundwater sampling data will be used to expand the remediation system and/or introduce alternative remediation methods to the site. The results of the groundwater investigation and any proposed changes to the remediation system will be submitted under separate cover.

FIGURES

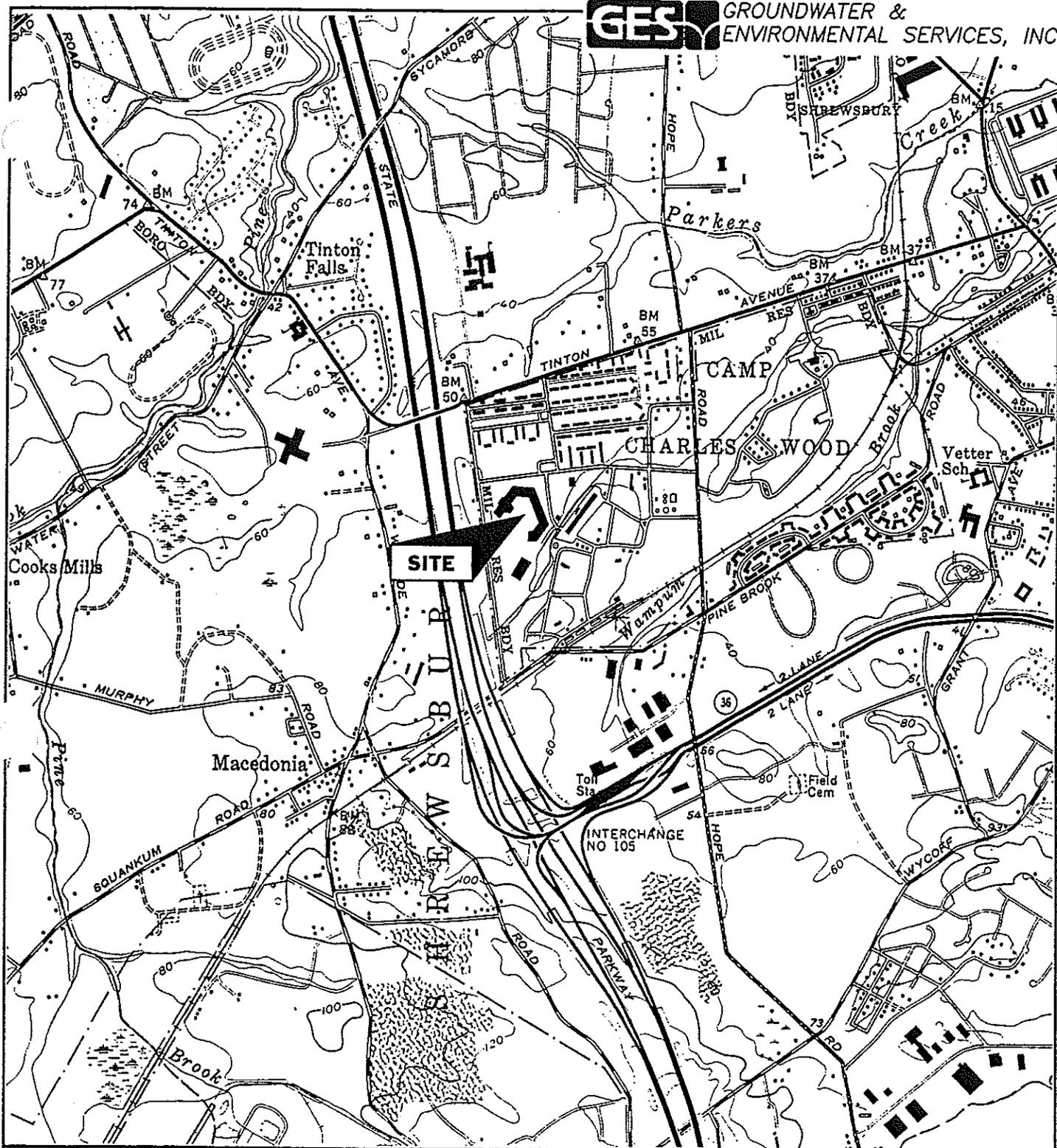
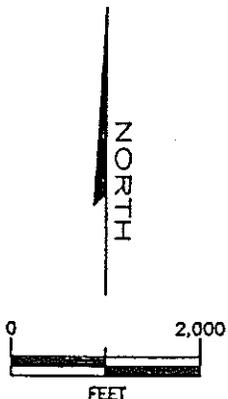


FIGURE 1
SITE LOCATION MAP
US ARMY
CHARLES WOOD AREA--BUILDING 3700
FORT MONMOUTH
EATONTOWN, NEW JERSEY



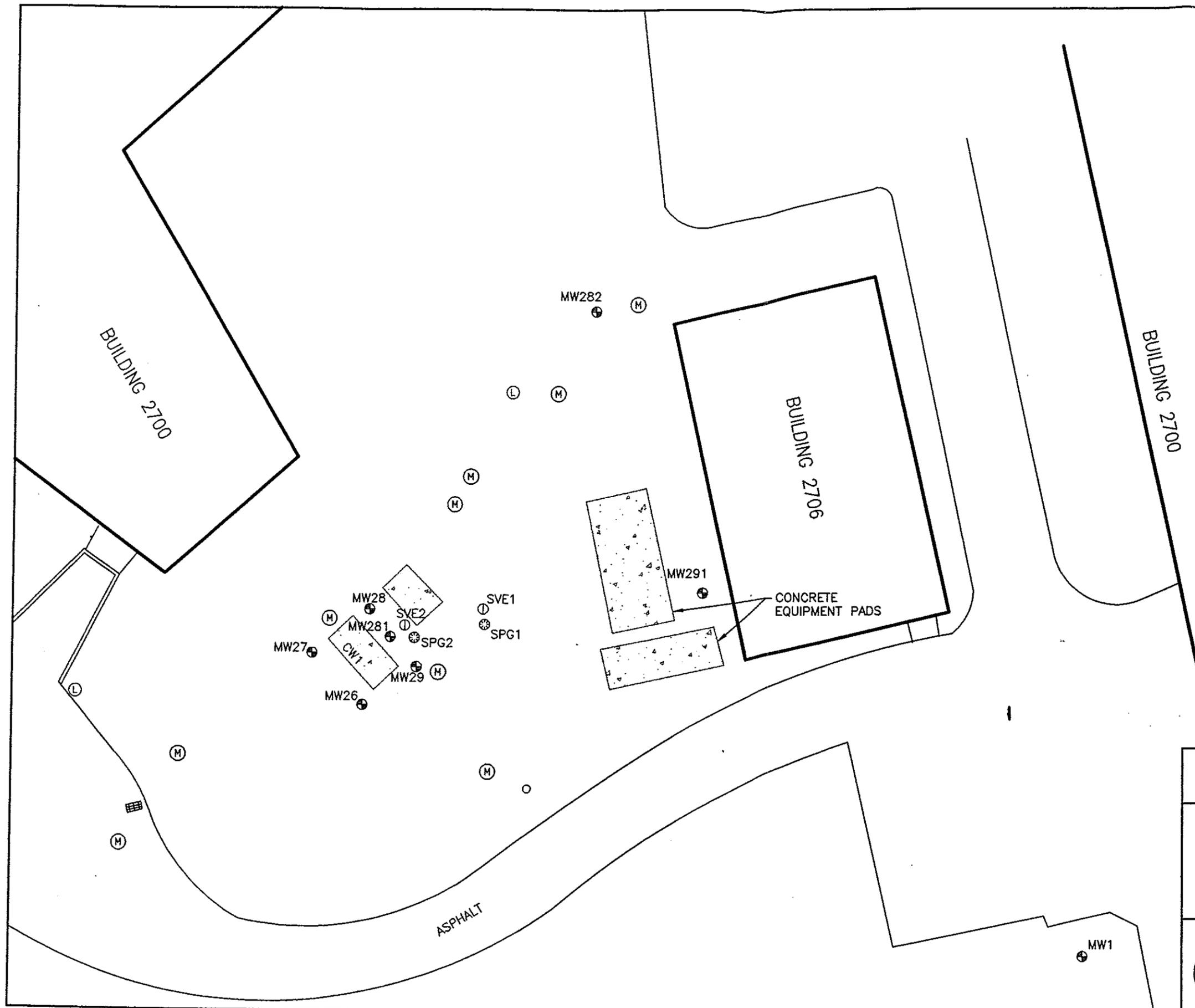
SOURCE: USGS 7.5 MINUTE SERIES
 TOPOGRAPHIC QUADRANGLE 1981
 LONG BRANCH, NEW JERSEY
 CONTOUR INTERVAL = 20'

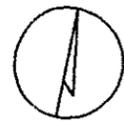
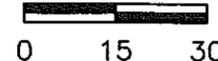


QUADRANGLE LOCATION

LEGEND

- ⊙ AIR SPARGE WELL
- ⊗ SOIL VAPOR EXTRACTOR WELL
- ⊕ MONITORING WELL
- ▤ STORM SEWER INLET
- Ⓜ UTILITY MANHOLE
- Ⓛ LIGHT POST
- WATER VALVE



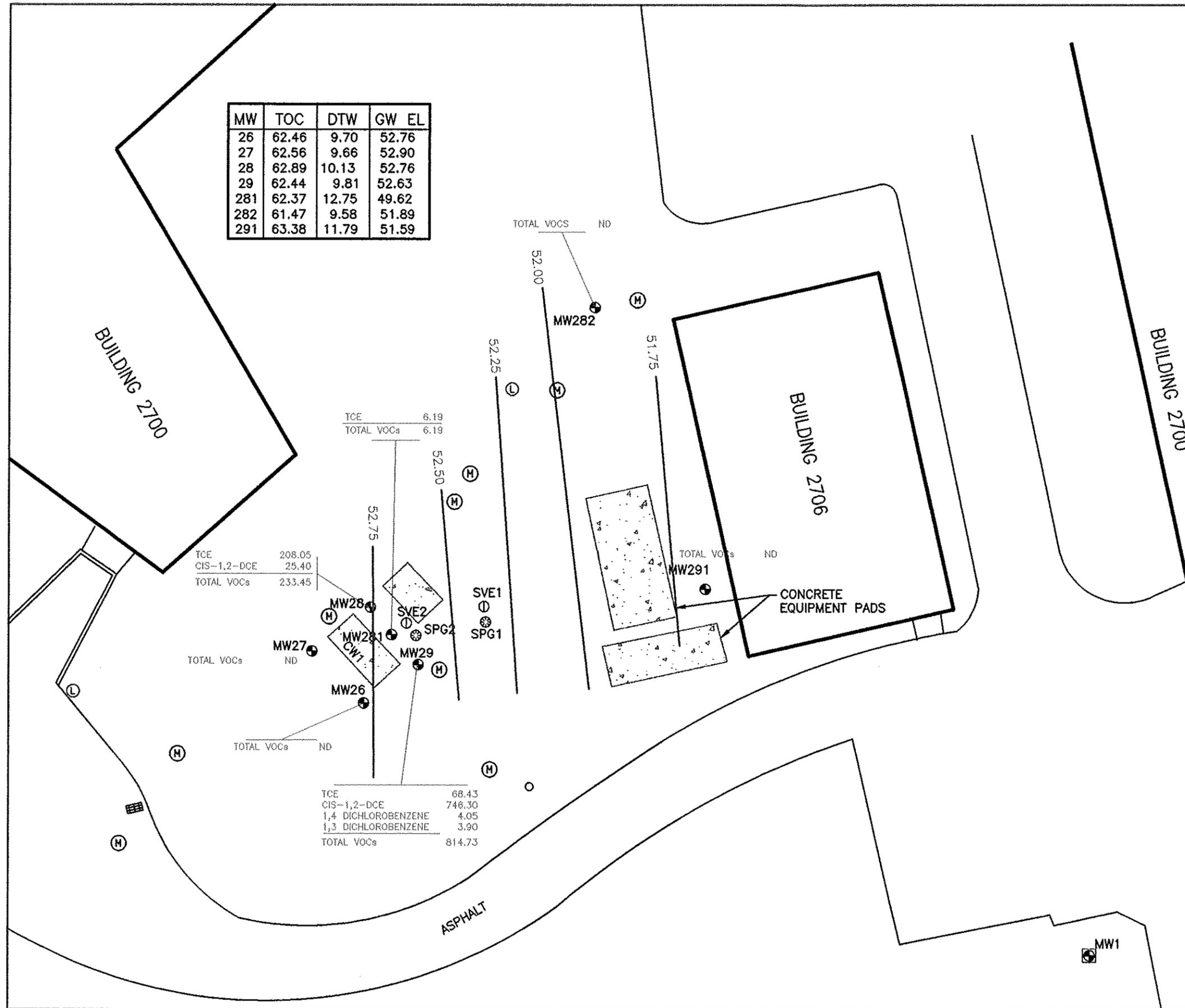
SITE PLAN			
US ARMY CHARLES WOOD AREA (BLDG. 2700) FORT MONMOUTH EATONTOWN, NEW JERSEY			
NORTH 	SCALE IN FEET 	DATE 1-3-00	SOURCE NJ
			DWG # BLDG 2700

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MW	TOC	DTW	GW EL
26	62.46	9.70	52.76
27	62.56	9.66	52.90
28	62.89	10.13	52.76
29	62.44	9.81	52.63
281	62.37	12.75	49.62
282	61.47	9.58	51.89
291	63.38	11.79	51.59

LEGEND

- ⊕ AIR SPARGE WELL
- ⊗ SOIL VAPOR EXTRACTOR WELL
- ⊙ MONITORING WELL
- ⊠ FORMER MONITORING WELL
- ▤ STORM SEWER INLET
- Ⓜ UTILITY MANHOLE
- Ⓛ LIGHT POST
- WATER VALVE
- TCE TRICHLOROETHENE
- VOCs VOLATILE ORGANIC COMPOUNDS
- ND NOT DETECTED
- NS NOT SAMPLED
- DCE DICHLOROETHENE
- TOC TOP OF CASING ELEVATION (feet)
- DTW DEPTH TO WATER (feet)
- GW EL GROUNDWATER ELEVATION (feet)
- TICS TENTATIVELY IDENTIFIED COMPOUNDS
- (#) INDICATES NUMBER OF COMPOUNDS FOUND IN LIBRARY SEARCH



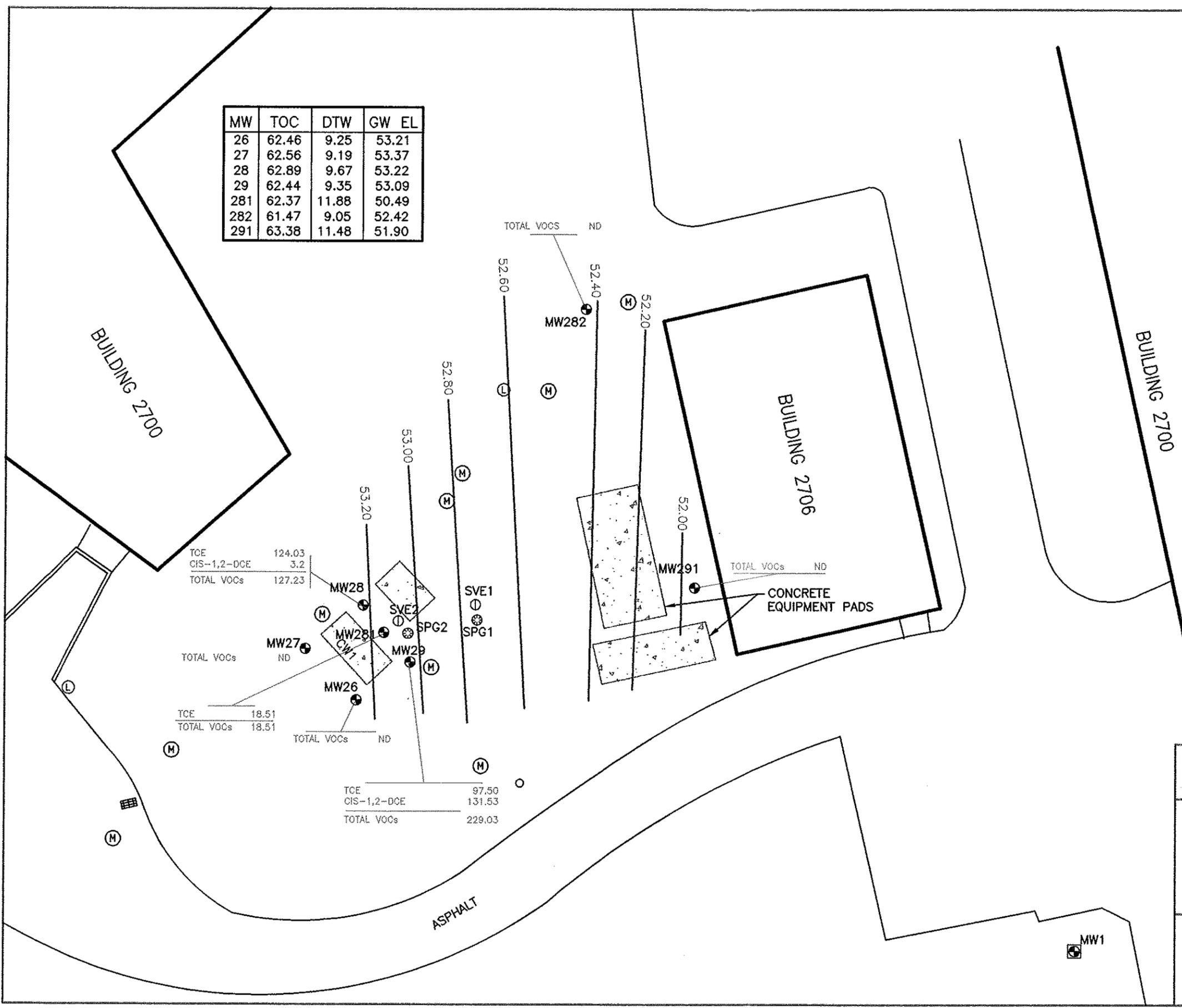
NOTES:

GROUNDWATER ELEVATION CONTOURS IN FEET.
ALL ANALYTICAL RESULTS ARE IN PARTS PER BILLION.
MW281 NOT USED IN GROUNDWATER CONTOURS.

SITE INFORMATION PLAN			
10 NOVEMBER 1999			
US ARMY			
CHARLES WOOD AREA (BLDG. 2700)			
FORT MONMOUTH			
EATONTOWN, NEW JERSEY			
NORTH 	SCALE IN FEET 	DATE 8-7-00	SOURCE NJ
		DWG # BLDG 2700	FIGURE 3

MW	TOC	DTW	GW EL
26	62.46	9.25	53.21
27	62.56	9.19	53.37
28	62.89	9.67	53.22
29	62.44	9.35	53.09
281	62.37	11.88	50.49
282	61.47	9.05	52.42
291	63.38	11.48	51.90

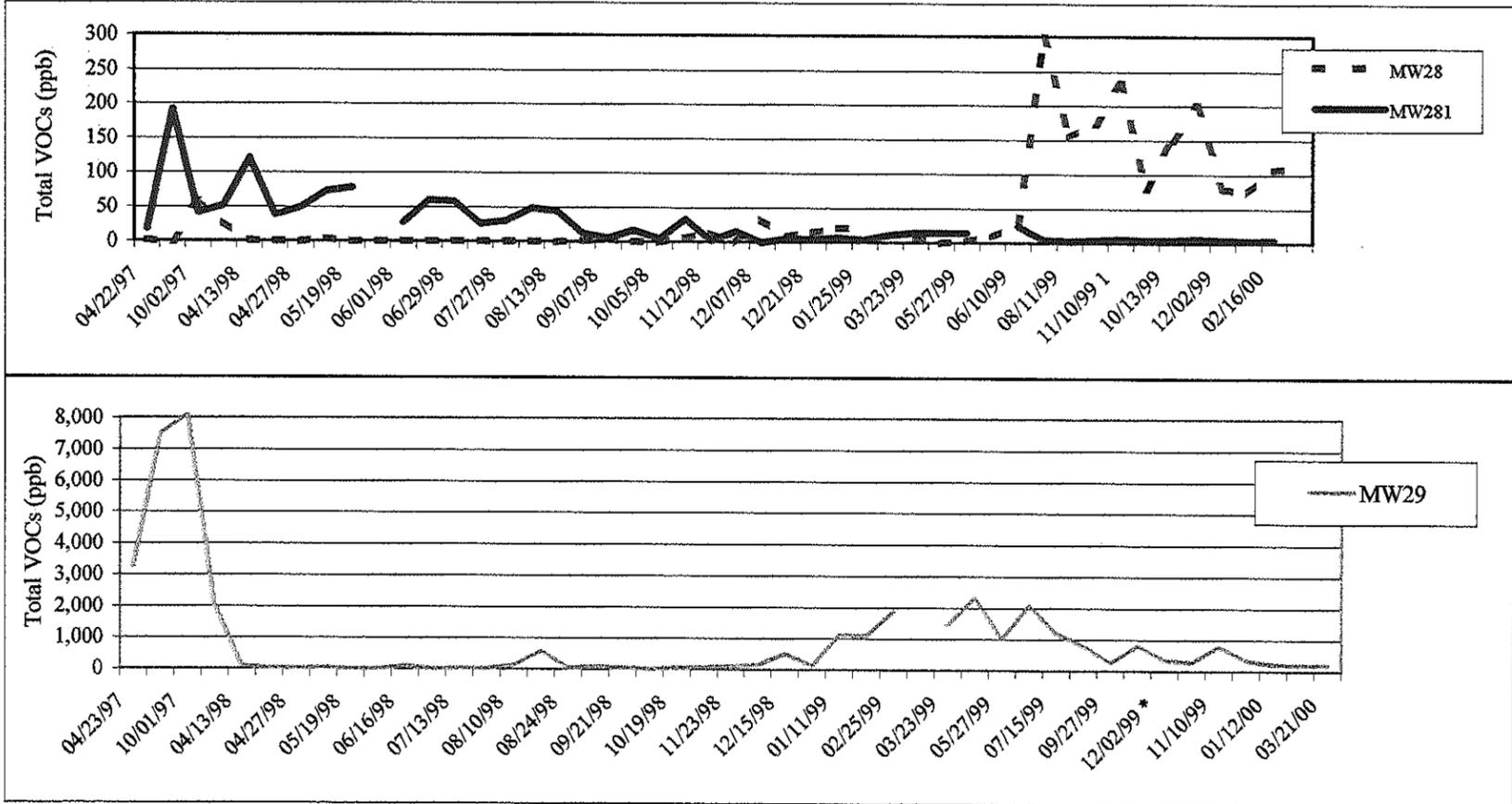
- LEGEND**
- ⊕ AIR SPARGE WELL
 - ⊗ SOIL VAPOR EXTRACTOR WELL
 - MONITORING WELL
 - ⊠ FORMER MONITORING WELL
 - ▤ STORM SEWER INLET
 - Ⓜ UTILITY MANHOLE
 - ⓪ LIGHT POST
 - WATER VALVE
 - TCE TRICHLOROETHENE
 - VOCs VOLATILE ORGANIC COMPOUNDS
 - ND NOT DETECTED
 - Cis1,2-DCE Cis1,2-DICHLOROETHENE
 - TOC TOP OF CASING ELEVATION (feet)
 - DTW DEPTH TO WATER (feet)
 - GW EL GROUNDWATER ELEVATION (feet)



NOTES:
 GROUNDWATER ELEVATION CONTOURS IN FEET.
 ALL ANALYTICAL RESULTS ARE IN PARTS PER BILLION.
 MW281 NOT USED IN GROUNDWATER CONTOURS.

SITE INFORMATION PLAN			
21 MARCH 2000			
US ARMY			
CHARLES WOOD AREA (BLDG. 2700)			
FORT MONMOUTH			
EATONTOWN, NEW JERSEY			
NORTH 	SCALE IN FEET	DATE	SOURCE
		8-7-00	NJ
		DWG #	FIGURE
		BLDG 2700	4

FIGURE 5
TOTAL VOC CONCENTRATIONS IN GROUNDWATER VS. TIME
SOURCE AREA WELLS
FORT MONMOUTH - CHARLES WOOD AREA BUILDING 2700
EATONTOWN, NEW JERSEY

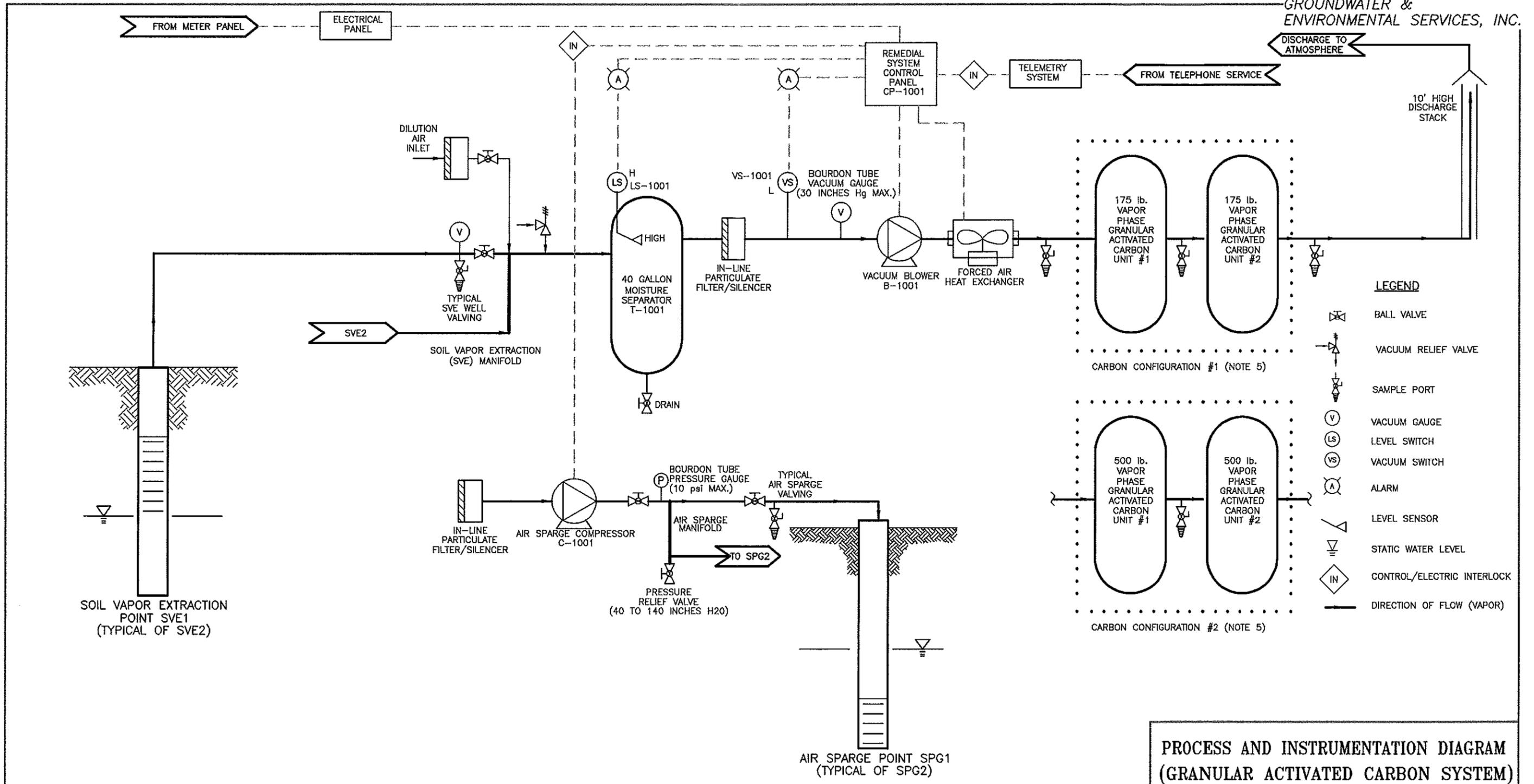


"An Equal Opportunity Employer"



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GROUNDWATER & ENVIRONMENTAL SERVICES, INC.



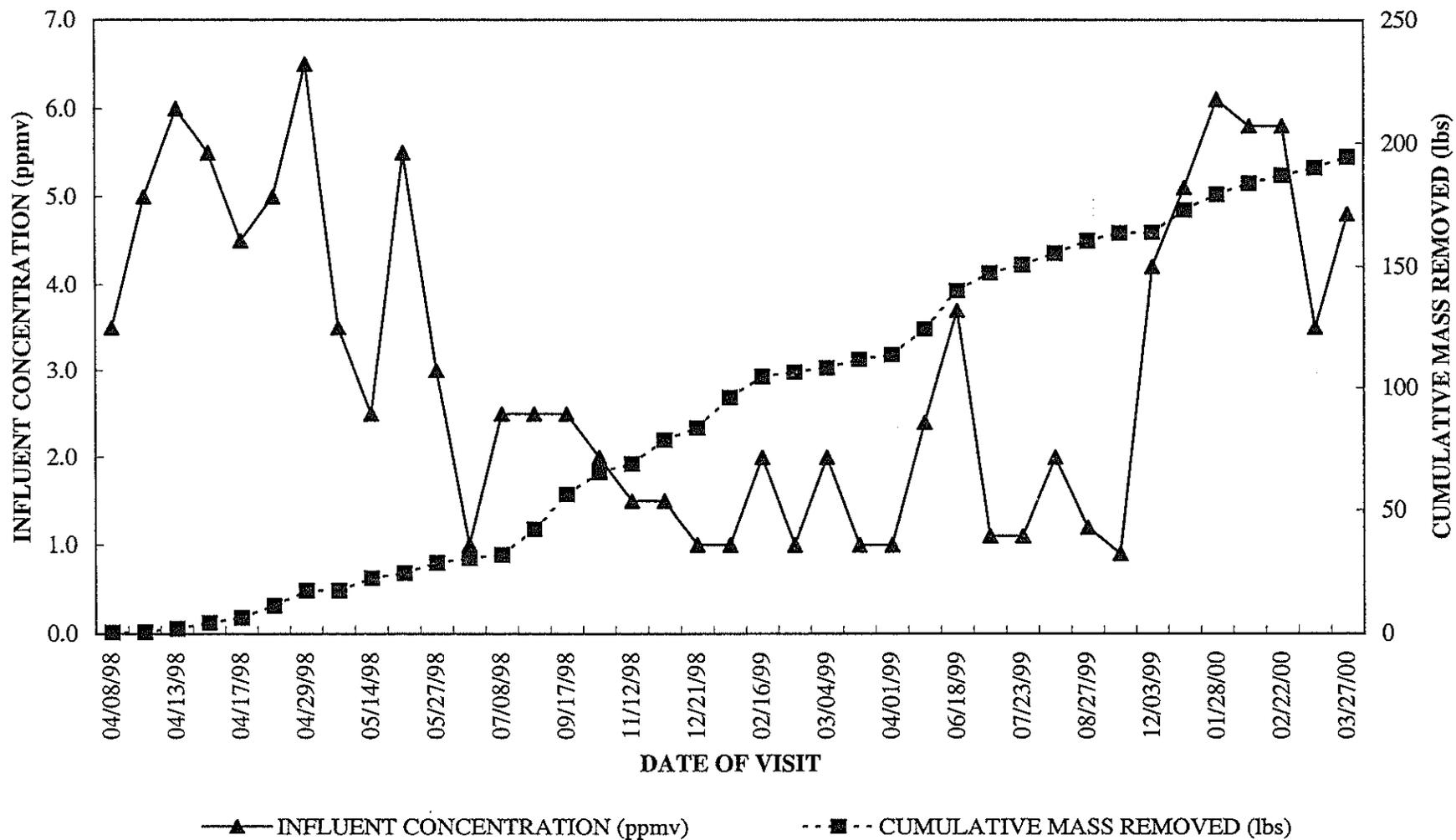
- LEGEND**
- BALL VALVE
 - VACUUM RELIEF VALVE
 - SAMPLE PORT
 - VACUUM GAUGE
 - LEVEL SWITCH
 - VACUUM SWITCH
 - ALARM
 - LEVEL SENSOR
 - STATIC WATER LEVEL
 - CONTROL/ELECTRIC INTERLOCK
 - DIRECTION OF FLOW (VAPOR)

- NOTES:**
1. VAPOR EXTRACTION LINES ARE RUN TO BOTH EXTRACTION WELLS.
 2. VAPOR EXTRACTION RATES FROM THE WELLS ARE CONTROLLED BY INDIVIDUAL VALVES.
 3. CONDENSATION IS REMOVED FROM THE VAPOR PHASE IN THE MOISTURE SEPARATOR.
 4. DILUTION AIR WILL BE ADDED AS NECESSARY TO KEEP THE MAXIMUM INFLUENT CONCENTRATION BELOW 10,000 ppmv.
 5. THE VAPOR TREATMENT SYSTEM WILL OPERATE UNDER ONE OF THE TWO CARBON CONFIGURATIONS PRESENTED DEPENDING ON THE REQUIRED VAPOR FLOW RATE FOR EFFICIENT TREATMENT.

PROCESS AND INSTRUMENTATION DIAGRAM (GRANULAR ACTIVATED CARBON SYSTEM)			
U.S. ARMY CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY			
NOT TO SCALE	DATE	10-18-99	SOURCE
	DWG #	FORT	NJ
			FIGURE 6

FIGURE 7.
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY

SOIL VAPOR EXTRACTION SYSTEM
INFLUENT CONCENTRATION AND CUMULATIVE MASS REMOVED vs TIME



System off from 9/7/99 to 12/3/99 for upgrades.



TABLES

TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
 FORT MONMOUTH - CHARLES WOOD AREA
 EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW26			Casing Elevation: 62.46											
04/23/97	8.60	53.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/07/97	8.98	53.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/01/97	9.45	53.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/06/98	9.05	53.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/13/98	8.30	54.16	1.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04
04/20/98	8.29	54.17	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09
04/27/98	8.45	54.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/04/98	8.24	54.22	1.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.12
05/19/98	8.18	54.28	3.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.04
06/01/98	8.49	53.97	1.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.56
06/16/98	NA	NA	1.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.08
06/29/98	8.73	53.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/13/98	8.86	53.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/27/98	9.11	53.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/10/98	9.08	53.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/13/98	9.16	53.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/24/98	9.50	52.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/07/98	9.60	52.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29 (1)	29
09/21/98	9.99	52.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/05/98	10.01	52.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/19/98	10.11	52.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/12/98	9.73	52.73	27.66	ND	31.73	ND	ND	ND	ND	ND	ND	ND	ND	59.39
11/23/98	9.75	52.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/07/98	10.07	52.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/15/98	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW26 (continued)														
12/21/98	10.25	52.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/11/99	9.70	52.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/25/99	9.25	53.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/25/99	9.25	53.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/23/99	9.07	53.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/29/99	9.31	53.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/27/99	9.42	53.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/10/99	9.54	52.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/15/99	9.67	52.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/11/99	9.89	52.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/27/99	9.49	52.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/13/99			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/10/99	9.70	52.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/02/99	9.96	52.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/12/00			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/16/00	9.44	53.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/21/00	9.25	53.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW27			Casing Elevation:			62.56								
04/23/97	8.60	53.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/07/97	9.00	53.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/01/97	9.50	53.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/06/98	8.95	53.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/13/98	8.10	54.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/20/98	8.11	54.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/27/98	8.17	54.39	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5
05/04/98	8.01	54.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/19/98	7.76	54.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/01/98	9.20	53.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/16/98	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/98	8.48	54.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/13/98	8.67	53.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/27/98	8.51	54.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/10/98	8.92	53.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/13/98	8.98	53.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/24/98	10.21	52.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/07/98	10.30	52.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/21/98	10.67	51.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/05/98	10.73	51.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/19/98	10.70	51.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/12/98	9.80	52.76	21.44	ND	29.18	ND	ND	ND	ND	ND	ND	ND	ND	50.62
11/23/98	9.90	52.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/07/98	10.17	52.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/15/98	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
(All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW27 (continued)														
12/21/98	10.18	52.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/11/99	9.68	52.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/25/99	9.15	53.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/25/99	9.14	53.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/23/99	8.93	53.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/29/99	9.17	53.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/27/99	9.30	53.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/10/99	9.44	53.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9 (1)	9.0
07/15/99	9.61	52.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/11/99	9.84	52.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/27/99	9.45	53.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/13/99			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/10/99	9.66	52.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/02/99	9.91	52.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/12/00			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/16/00	9.37	53.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/21/00	9.19	53.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
MW28			Casing Elevation:											
						62.89								
04/23/97	9.05	53.84	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42
07/07/97	9.20	53.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/01/97	9.70	53.19	59.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	59.37
01/06/98	9.40	53.49	27.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.73
04/13/98	8.40	54.49	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42
04/20/98	8.43	54.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/27/98	8.52	54.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/04/98	8.33	54.56	2.57	ND	1.75	ND	ND	ND	ND	ND	ND	ND	ND	4.32
05/19/98	8.09	54.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/01/98	9.68	53.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/16/98	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/98	8.92	53.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/13/98	9.13	53.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/27/98	9.15	53.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/10/98	9.44	53.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/13/98	9.51	53.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/24/98	10.70	52.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/07/98	10.81	52.08	1.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.44
09/21/98	10.93	51.96	3.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.75
10/05/98	11.00	51.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/19/98	11.15	51.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/12/98	10.28	52.61	5.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.44
11/23/98	10.40	52.49	13.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.1
12/07/98	10.57	52.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/15/98	NA	NA	33.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.9



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
 FORT MONMOUTH - CHARLES WOOD AREA
 EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW28 (continued)														
12/21/98	10.66	52.23	9.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.41
01/11/99	10.16	52.73	14.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.96
01/25/99	9.63	53.26	20.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.18
02/25/99	9.61	53.28	21.28	ND	1.78	ND	ND	ND	ND	ND	ND	ND	ND	21.28
03/23/99	9.38	53.51	7.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.15
04/29/99	9.65	53.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/27/99	9.79	53.10	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1
06/10/99	9.91	52.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9 (1)	9.0
07/15/99	10.10	52.79	27.44	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	27.44
08/11/99	10.32	52.57	297.82	ND	1.59	ND	ND	ND	ND	ND	ND	ND	ND	299.41
09/27/99	9.94	52.95	130.94	ND	24.13	ND	ND	ND	ND	ND	ND	ND	ND	155.07
10/13/99			165.5	ND	8.96	ND	ND	ND	ND	ND	ND	ND	ND	174.46
11/10/99	10.13	52.76	208.05	ND	25.4	ND	ND	ND	ND	ND	ND	ND	ND	199.65
12/02/99	10.41	52.48	66.59	ND	13.57	ND	ND	ND	ND	ND	ND	ND	ND	80.16
01/12/00			67.35	ND	7.86	ND	ND	ND	ND	ND	ND	ND	ND	75.21
02/16/00	9.84	53.05	120.34	ND	4.24	ND	ND	ND	ND	ND	ND	ND	ND	124.58
03/21/00	9.67	53.22	124.03	ND	3.20	ND	ND	ND	ND	ND	ND	ND	ND	127.23

TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW281			Casing Elevation:			62.37								
04/22/97	8.90	53.47	17.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.88
07/09/97	12.30	50.07	189.95	ND	2.45	ND	ND	ND	ND	ND	ND	ND	ND	192.4
10/02/97	12.80	49.57	42.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42.02
01/07/98	10.80	51.57	42.02	10.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.66
04/13/98	10.50	51.87	120	ND	1.48	ND	ND	ND	ND	ND	ND	ND	ND	121.48
04/20/98	11.00	51.37	38.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.34
04/27/98	11.17	51.20	49.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.62
05/04/98	10.50	51.87	73.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73.75
05/19/98	10.27	52.10	78.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	78.56
06/01/98	11.79	50.58	28.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.17
06/16/98	10.84	51.53	60.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.91
06/29/98	11.31	51.06	58.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.89
07/13/98	11.69	50.68	25.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.91
07/27/98	11.72	50.65	29.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.96
08/10/98	12.17	50.20	47.91	ND	1.03	ND	ND	ND	ND	ND	ND	ND	ND	48.94
08/13/98	12.75	49.62	45.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.03
08/24/98	11.83	50.54	12.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.17
09/07/98	11.90	50.47	5.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.82
09/21/98	11.99	50.38	17.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.43
10/05/98	12.09	50.28	5.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.09
10/19/98	12.17	50.20	33.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.62
11/12/98	13.52	48.85	2.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67
11/23/98	13.02	49.35	15.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.47
12/07/98	14.25	48.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/15/98	NA	NA	6.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
 FORT MONMOUTH - CHARLES WOOD AREA
 EATONTOWN, NEW JERSEY
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Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW281 (continued)														
12/21/98	13.91	48.46	5.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.27
01/11/99	12.76	49.61	7.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.48
01/25/99	11.84	50.53	4.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.38
02/25/99	11.89	50.48	11.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.56
03/23/99	11.25	51.12	14.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.87
04/29/99	11.89	50.48	15.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.04
05/27/99	12.07	50.30	12.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 (1)	15.08
06/10/99	12.66	49.71	14.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 (1)	24.71
07/15/99	13.09	49.28	5.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.19
08/11/99	13.75	48.62	3.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.29
09/27/99	12.97	49.40	5.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.14
10/13/99			4.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.56
11/10/99	12.75	49.62	6.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.19
12/02/99	13.01	49.36	4.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.67
01/12/00			4.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.19
02/16/00	11.96	50.41	4.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.67
03/21/00	11.88	50.49	18.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.51

TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW282			Casing Elevation:			61.47								
04/22/97	8.30	53.17	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
07/09/97	8.85	52.62	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
10/02/97	9.40	52.07	ND	ND	ND	ND	ND	ND	3.21	ANR	ANR	ANR	ND	3.21
01/07/98	8.85	52.62	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
04/13/98	7.60	53.87	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
04/20/98	7.59	53.88	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
04/27/98	7.64	53.83	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
05/04/98	7.44	54.03	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
05/19/98	6.39	55.08	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
06/01/98	8.62	52.85	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
06/16/98	7.84	53.63	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
06/29/98	8.10	53.37	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
07/13/98	8.31	53.16	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
07/27/98	8.34	53.13	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
08/10/98	8.70	52.77	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
08/13/98	8.79	52.68	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
08/24/98	9.70	51.77	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
09/07/97	9.93	51.54	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	31 (1)	31
09/21/98	10.00	51.47	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
10/05/98	10.04	51.43	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
10/19/98	10.19	51.28	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
11/12/98	9.58	51.89	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
11/23/98	9.65	51.82	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
12/07/98	9.98	51.49	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND
12/15/98	NA	NA	ND	ND	ND	ND	ND	ND	ND	ANR	ANR	ANR	ND	ND



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
 FORT MONMOUTH - CHARLES WOOD AREA
 EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW282 (continued)														
12/21/98	10.10	51.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/11/99	9.56	51.91	3.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.42
01/25/99	8.88	52.59	15.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.70
03/23/99	8.95	52.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/29/99	9.00	52.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/27/99	9.10	52.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13 (1)	13
06/10/99	9.29	52.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8 (1)	8
07/15/99	9.53	51.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/11/99	9.79	51.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/27/99	9.37	52.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/13/99			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/10/99	9.58	51.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/02/99	9.84	51.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/12/00			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/16/00	9.19	52.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/21/00	9.05	52.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW29			Casing Elevation:			62.44								
04/23/97	8.90	53.54	3,212	1.74	47.24	ND	ND	ND	ND	ND	ND	ND	6(1)	3,260.91
07/07/97	9.30	53.14	7,423	7.75	92.47	ND	ND	ND	ND	ND	ND	ND	ND	7,523.22
10/01/97	9.98	52.46	7,836	5.75	290.02	ND	ND	ND	ND	ND	ND	ND	ND	8,131.77
01/06/98	9.10	53.34	1,987	ND	69.81	ND	ND	ND	ND	ND	ND	ND	ND	2,056.81
04/13/98	8.40	54.04	96.25	ND	6.27	ND	ND	ND	ND	ND	ND	ND	ND	102.52
04/20/98	8.43	54.01	28.19	ND	3.49	ND	ND	ND	ND	ND	ND	ND	ND	31.68
04/27/98	8.50	53.94	30.71	ND	2.43	ND	ND	ND	ND	ND	ND	ND	ND	33.14
05/04/98	8.09	54.35	41.49	ND	6.40	ND	ND	ND	ND	ND	ND	ND	ND	47.89
05/19/98	8.08	54.36	14.80	ND	2.54	ND	ND	ND	ND	ND	ND	ND	ND	17.34
06/01/98	9.58	52.86	13.49	ND	3.24	ND	ND	ND	ND	ND	ND	ND	ND	16.73
06/16/98	NA	NA	90.34	ND	12.88	ND	ND	ND	ND	ND	ND	ND	ND	103.22
06/29/98	8.82	53.62	14.95	ND	2.38	ND	ND	ND	ND	ND	ND	ND	ND	17.33
07/13/98	8.25	54.19	35.68	ND	4.54	ND	ND	ND	ND	ND	ND	ND	ND	40.22
07/27/98	8.29	54.15	29.71	ND	6.64	ND	ND	ND	ND	ND	ND	ND	ND	36.35
08/10/98	9.18	53.26	100.44	ND	50.05	ND	ND	ND	ND	ND	ND	ND	ND	150.49
08/13/98	9.26	53.18	496.93	ND	88.37	ND	ND	ND	ND	ND	ND	ND	ND	585.30
08/24/98	10.59	51.85	42.97	ND	27.38	ND	ND	ND	ND	ND	ND	ND	ND	70.35
09/07/98	10.60	51.84	56.45	ND	25.33	ND	ND	ND	ND	ND	ND	ND	ND	81.78
09/21/98	10.94	51.50	50.97	ND	25.54	ND	ND	ND	ND	ND	ND	ND	ND	76.51
10/05/98	10.99	51.45	10.11	ND	4.50	ND	ND	ND	ND	ND	ND	ND	ND	14.61
10/19/98	11.04	51.40	47.69	ND	31.78	ND	ND	ND	ND	ND	ND	ND	ND	79.47
11/12/98	9.50	52.94	36.48	ND	46.28	ND	ND	ND	ND	ND	ND	ND	ND	82.76
11/23/98	10.83	51.61	73.42	ND	51.16	ND	ND	ND	ND	ND	ND	ND	ND	124.58
12/07/98	10.17	52.27	69.81	ND	89.11	ND	ND	ND	ND	ND	ND	ND	ND	158.92
12/15/98	NA	NA	374.58	ND	153.85	ND	ND	ND	ND	ND	ND	ND	ND	528.43



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID: MW29 (continued)														
12/21/98	10.32	52.12	96.48	ND	54.72	ND	ND	ND	ND	ND	ND	ND	ND	151.20
01/11/99	9.79	52.65	960.40	ND	164.96	ND	ND	ND	ND	ND	ND	ND	ND	1,125.36
01/25/99	9.30	53.14	987.23	ND	128.14	ND	ND	ND	ND	ND	ND	ND	ND	1,115.37
02/25/99	9.34	53.10	1,789.94	ND	88.94	ND	ND	ND	ND	ND	ND	ND	ND	1,878.88
03/23/99	9.09	53.35	1,342	ND	126.68	ND	ND	ND	ND	ND	ND	ND	ND	1,468.68
04/29/99	9.40	53.04	2,167	ND	156.26	ND	ND	ND	ND	ND	ND	ND	ND	2,323.47
05/27/99	9.59	52.85	950	ND	80.23	ND	ND	ND	ND	1.03	ND	5.08	ND	1,030.28
06/10/99	9.63	52.81	1,843	ND	245.13	ND	ND	ND	ND	ND	ND	ND	ND	2,087.79
07/15/99	9.76	52.68	752	ND	457.94	ND	ND	ND	ND	ND	ND	ND	ND	1,210.16
08/11/99	10.00	52.44	288	ND	523.43	ND	ND	ND	ND	ND	2.37	3.78	ND	811.54
09/27/99	9.61	52.83	119	ND	149.07	ND	ND	ND	ND	ND	ND	ND	ND	267.73
10/13/99			99.62	ND	201.88	5.87	2.07	ND	ND	ND	2.07	ND	ND	311.51
11/10/99	9.81	52.63	68.43	ND	746.3	3.06	1.67	ND	ND	ND	ND	ND	ND	819.46
12/02/99	10.07	52.37	70.63	ND	344.48	1.75	1.05	ND	ND	3.84	2.71	ND	ND	424.46
01/12/00			46.32	ND	186.58	1.95	ND	ND	ND	ND	1.09	ND	ND	235.94
02/16/00	9.54	52.90	41.51	ND	198.23	ND	ND	ND	ND	ND	1.47	ND	ND	241.21
03/21/00	9.35	53.09	97.50	ND	131.53	ND	ND	ND	ND	ND	ND	ND	ND	229.03



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1-dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID MW291		Casing Elevation: 63.38												
04/22/97	11.15	52.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/09/97	11.40	51.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/02/97	11.70	51.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/07/98	11.40	51.98	ND	ND	ND	ND	ND	ND	1.75	ND	ND	ND	ND	1.75
04/13/98	8.70	54.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/20/98	8.69	54.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/27/98	10.75	52.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/04/98	8.47	54.91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/19/98	10.27	53.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/01/98	11.83	51.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/16/98	10.48	52.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/29/98	10.98	52.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/13/98	11.09	52.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
07/27/98	11.11	52.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/10/98	11.31	52.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/13/98	11.39	51.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
08/24/98	12.92	50.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/07/98	13.00	50.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
09/21/98	13.09	50.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/05/98	13.15	50.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/19/98	13.19	50.19	ND	ND	ND	ND	ND	1.36	ND	ND	ND	ND	ND	1.36
11/12/98	11.89	51.49	ND	ND	ND	ND	ND	7.37	1.37	ND	ND	ND	ND	8.74
11/23/98	11.98	51.40	ND	ND	ND	ND	ND	5.81	1.31	ND	ND	ND	ND	7.12
12/07/98	12.04	51.34	ND	ND	ND	ND	ND	10.13	2.25	ND	ND	ND	ND	12.38
12/15/98	NA	NA	ND	ND	ND	ND	ND	7.41	1.79	ND	ND	ND	ND	9.20



TABLE 1
GROUNDWATER MONITORING & SAMPLING SUMMARY DATA
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY
 (All analytical results in parts per billion)

Sampling Date	DTW (feet)	Adj. Water Elevation (feet)	Tri-chloro-ethene	Tetra-chloro-ethene	cis-1,2-dichloro-ethene	trans-1,2-dichloro-ethene	1,1 dichloro-ethene	chloro-form	Bromo-dichloro-methane	1,4-dichloro-benzene	1,3-dichloro-benzene	1,2-dichloro-benzene	VOC TICs	Total VOCs
			1 ⁽¹⁾	1 ⁽¹⁾	10 ⁽¹⁾	100 ⁽¹⁾	2 ⁽¹⁾	6 ⁽¹⁾	1 ⁽¹⁾	75 ⁽¹⁾	600 ⁽¹⁾	600 ⁽¹⁾	--	--
Well ID MW291 (continued)														
12/21/98	12.24	51.14	ND	ND	ND	ND	ND	1.58	ND	ND	ND	ND	ND	1.58
01/11/99	11.81	51.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/25/99	9.40	53.98	ND	ND	ND	ND	ND	2.02	ND	ND	ND	ND	ND	2.02
02/25/99	11.64	51.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/23/99	11.28	52.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
04/29/99	11.52	51.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
05/27/99	11.54	51.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
06/10/99	11.68	51.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8 (1)	8.0
07/12/99	11.81	51.57	ND	ND	ND	ND	ND	6.88	ND	ND	ND	ND	ND	6.88
08/11/99	11.97	51.41	ND	ND	ND	ND	ND	16.13	4.37	ND	ND	ND	ND	20.5
09/27/99	11.62	51.76	ND	ND	ND	ND	ND	3.39	ND	ND	ND	ND	ND	3.39
10/13/99			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/10/99	11.79	51.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/02/99	12.01	51.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
01/12/00			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
02/16/00	11.61	51.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
03/21/00	11.48	51.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

On 12/07/98 and 12/21/98, Chloroform was detected in the field and trip blank.

(1) = Groundwater Quality Standard pursuant to N.J.A.C. 7:9-6

TICs = Tentatively identified compounds

(#) = Number of TICs identified

VOC = Volatile organic compound

ND = Not detected

NA = Data not available

DTW = Depth to water



TABLE 2.
FORT MONMOUTH - CHARLES WOOD AREA
EATONTOWN, NEW JERSEY



SOIL VAPOR EXTRACTION SYSTEM
PERFORMANCE SUMMARY

Date of Visit	12/03/1999	01/07/2000	01/28/2000	02/11/2000	02/22/2000	03/09/2000	03/27/2000
SVE SYSTEM							
Interval (Days)	ReStart	35	21	14	11	16	18
System Status (Up / Down / Off)							
On Arrival	U	D	U	U	D	U	U
On Departure	U	U	U	U	U	U	U
Vacuum (inches of H₂O)							
1	28.0	30.0	N/A	34.0	N/A	32.0	N/A
2	34.0	28.0	N/A	36.0	N/A	32.0	N/A
Combined Influent	40.0	N/A	N/A	N/A	N/A	N/A	N/A
Air Flowrate (scfm)							
1	38.1	36.0	N/A	39.7	N/A	42.4	N/A
2	50.0	55.0	N/A	60.0	N/A	60.0	N/A
Dilution	50%	50%	50%	50%	50%	50%	N/A
Combined Influent	149.0	155.0	149.0	165.0	154.0	167.0	150.0
Filter A	N/A						
Effluent	149.0	155.0	149.0	165.0	154.0	167.0	150.0
FID w/o Carbon (ppm_v)							
1	15.1	7.7	N/A	6.3	N/A	5.0	N/A
2	12.9	9.3	N/A	11.2	N/A	8.4	N/A
Combined Influent	4.2	5.1	6.1	5.8	5.8	3.5	4.8
Filter A	0.0	2.0	2.4	2.9	2.0	2.1	2.0
Effluent	0.0	0.0	0.0	1.0	0.0	0.0	0.0
FID w/ Carbon (ppm_v)							
1	2.8	0.0	N/A	0.0	N/A	0.0	N/A
2	3.1	0.0	N/A	0.0	N/A	0.0	N/A
Combined Influent	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Effluent	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Methane Organics (ppm_v)							
1	12.3	7.7	N/A	6.3	N/A	5.0	N/A
2	9.8	9.3	N/A	11.2	N/A	8.4	N/A
Combined Influent	4.2	5.1	6.1	5.8	5.8	3.5	4.8
Filter A	0.0	2.0	2.4	2.9	2.0	2.1	2.0
Effluent	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Mass Removal Rate ⁽¹⁾ (lb/hr)	0.0087	0.0110	0.0127	0.0134	0.0125	0.0082	0.0100
Cumulative Mass Removed (lb)	163.84	173.10	179.49	183.98	187.27	190.40	194.74
Oxygen (%)							
1	20.8%	20.8%	N/A	20.8%	N/A	20.8%	N/A
2	20.8%	20.8%	N/A	20.8%	N/A	20.8%	N/A
Combined Influent	20.8%	20.8%	20.8%	20.8%	20.8%	20.8%	N/A
Filter A	20.8%	20.8%	20.8%	20.8%	20.8%	20.8%	N/A
Effluent	20.8%	20.8%	20.8%	20.8%	20.8%	20.8%	N/A
Lower Explosive Limit (% LEL)							
1	0%	0%	N/A	0%	N/A	0%	N/A
2	0%	0%	N/A	0%	N/A	0%	N/A
Combined Influent	0%	0%	0%	0%	0%	0%	0%
Filter A	0%	0%	0%	0%	0%	0%	0%
Effluent	0%	0%	0%	0%	0%	0%	0%



APPENDIX I

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT

FOR

Directorate of Public Works

Fort Monmouth, NJ 07703

PROJECT : Charles Wood Courtyard Area

SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-1

LABORATORY ID #	MONITOR WELL#	SAMPLE DATE
4849.01	Trip Blank	10/13/99
4849.02	Field Blank	10/13/99
4849.04	CW1MW026	10/13/99
4849.05	CW1MW027	10/13/99
4849.06	CW1MW028	10/13/99
4849.07	CW1MW029	10/13/99
4849.08	CW1MW281	10/13/99
4849.10	CW1MW291	10/13/99
4849.09	CW1MW282	10/13/99

NJDEP Laboratory Certification # 13461


10-21-99
Daniel Wright/Date:
Laboratory Director

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected
E : Compound exceeds calibration limit

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELF-M-PW-EV, Fort Monmouth, NJ 07703
 Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
 NJDEP Certification #13461

Chain of Custody Record

Customer: J. Fallon		Project No:		Analysis Parameters		Comments:
Phone #: 821223	() DERA () OMA () Other:	Location: CWI Monthly VOAs	Sample #	Sample Type	Sample bottles	
Samplers Name / Company: Corey Mc Cormack, TUS	Sample Location	Date	Time			
Lab Sample I.D. 4849.01	Trip	10/13/99	0735	AG	2	
.02	Field Blank		1015			
.03	Dupe					
.04	CWI MW 026		1021			0.0 29-32591
.05	* CWI MW 027		1026			0.0 29-32592
.06	CWI MW 028		1027			0.0 29-32593
.07	CWI MW 029		1036			0.0 29-32590
.08	CWI MW 281		1331			0.0 29-35312
.09	CWI MW 282		1155			0.0 29-35313
.10	CWI MW 291		1141			0.0 29-35314
Relinquished by (signature): Corey Mc Cormack		Date/Time: 10/13/99 1345	Received by (signature): J. Fallon	Relinquished by (signature):	Date/Time:	Received by (signature):
Relinquished by (signature):		Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Report Type: <input type="radio"/> Full, <input type="radio"/> Reduced, <input checked="" type="radio"/> Standard, <input type="radio"/> Screen / non-certified		Turnaround time: <input checked="" type="radio"/> Standard 3 wks, <input type="radio"/> Rush Days, <input type="radio"/> ASAP Verbal Hrs.		Remarks: T.D.E.: N/A		

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW027
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/13/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.72 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.17 ft
(7.17) X .65 X 3 = 13.9
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:25
pH 7.21 su
DISSOLVED O2 6.79 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 90 us/cm

PURGE END TIME: 10:26
pH 7.27 su
DISSOLVED O2 5.59 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 91 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.91 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:27
pH 7.25 su
DISSOLVED O2 5.54 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 90 us/cm

SAMPLE END TIME: 10:29

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW028
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/13/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.21 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.72 ft
(6.72) X .65 X 3 = 13.1
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:30
pH 7.09 su
DISSOLVED O2 6.81 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 105 us/cm

PURGE END TIME: 10:27
pH 7.08 su
DISSOLVED O2 5.67 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 104 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.29 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 10:31
pH 7.07 su
DISSOLVED O2 5.63 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 104 us/cm

SAMPLE END TIME: 10:34

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW029
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/13/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.44 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.86 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.01 ft
(7.01) X .65 X 3 = 13.66
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:35
pH 6.91 su
DISSOLVED O2 7.81 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 105 us/cm

PURGE END TIME: 10:36
pH 6.93 su
DISSOLVED O2 5.91 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 104 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.04 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:39
pH 6.92 su
DISSOLVED O2 5.90 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 104 us/cm

SAMPLE END TIME: 10:42

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW281
NJDEP ID #: 29-35312
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/13/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.37 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 12.94 ft
DEPTH OF WELL: 43.20 ft
DEPTH TO TOP OF SCREEN: 31.00 ft
HEIGHT OF WATER: 30.26 ft
(30.26) X .65 X 3 = 59.00
GALLONS OF H2O TO BE PURGED: 59 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:15
pH 7.11 su
DISSOLVED O2 7.61 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 13:31
pH 7.10 su
DISSOLVED O2 6.21 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 98 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 13.03 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 59 gal

SAMPLE START TIME: 13:34
pH 7.08 su
DISSOLVED O2 6.17 ppm
TEMP 12.2 °C
SPECIFIC CONDUCTIVITY 99 us/cm

SAMPLE END TIME: 13:37

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 10/13/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 63.38 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.82 ft
DEPTH OF WELL: 18.18 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 6.36 ft
(6.36) X .65 X 3 = 12.4
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:44
pH 6.81 su
DISSOLVED O2 7.11 ppm
TEMP 12.4 °C
SPECIFIC CONDUCTIVITY 79 us/cm

PURGE END TIME: 11:36
pH 6.79 su
DISSOLVED O2 6.41 ppm
TEMP 12.2 °C
SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.04 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 11:38
pH 6.80 su
DISSOLVED O2 6.38 ppm
TEMP 12.3 °C
SPECIFIC CONDUCTIVITY 79 us/cm

SAMPLE END TIME: 11:41

COMMENTS:

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

Data File **VB004528.D**
 Operator **Skelton**
 Date Acquired **14 Oct 1999 10:44 am**

Sample Name **Vblk139**
 Field ID **Vblk139**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk139

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk139
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004528.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/14/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004562.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 10:45 am**

Sample Name **Vblk140**
 Field ID **Vblk140**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk140

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk140
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004562.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004545.D**
 Operator **Skelton**
 Date Acquired **14 Oct 1999 10:00 pm**

Sample Name **4849.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004545.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/14/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004546.D**
 Operator **Skelton**
 Date Acquired **14 Oct 1999 10:39 pm**

Sample Name **4849.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLB = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004546.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/14/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004547.D**
 Operator **Skelton**
 Date Acquired **14 Oct 1999 11:18 pm**

Sample Name **4849.03**
 Field ID **Field Dup**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004547.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/14/99
GC Column: RTX502. 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004548.D**
 Operator **Skelton**
 Date Acquired **14 Oct 1999 11:57 pm**

Sample Name **4849.04**
 Field ID **CW1MW026**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW026

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004548.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/14/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004549.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 12:35 am**

Sample Name **4849.05**
 Field ID **CW1MW027**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW027

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.05
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004549.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004563.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 11:25 am**

Sample Name **4849.06**
 Field ID **CW1MW028**
 Sample Multiple **5**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.85 ug/L	
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.52	618118	141.46 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB004550.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 1:14 am**

Sample Name **4849.06**
 Field ID **CW1MW028**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.98	247483	8.96 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	3746792	165.50 ug/L	1	0.23 ug/L	B
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW028

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004550.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004551.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 1:53 am**

Sample Name **4849.07**
 Field ID **CWIMW029**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.97	5581793	201.88 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	2231041	99.62 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	33.10	83235	2.07 ug/L	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB004564.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 12:06 pm**

Sample Name **4849.07**
 Field ID **CW1MW029**
 Sample Multiplier **5**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
	cis-1,2-Dichloroethene	15.99	998284	183.14 ug/L	10	0.85 ug/L	D
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.53	358675	81.74 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW029

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004551.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004552.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 2:32 am**

Sample Name **4849.08**
 Field ID **CW1MW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	101058	4.56 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW281

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.08
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004552.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004553.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 3:10 am**

Sample Name **4849.09**
 Field ID **CW1MW282**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW282

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.09
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004553,D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004554.D**
 Operator **Skelton**
 Date Acquired **15 Oct 1999 3:49 am**

Sample Name **4849.10**
 Field ID **CW1MW291**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW291

Lab Name: FMETL Project: 990008
NJDEP#: 13461 Case No.: 4849 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4849.10
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004554.D
Level: (low/med) LOW Date Received: 10/13/99
% Moisture: not dec. _____ Date Analyzed: 10/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

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: CW-1

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4932.04	CW1MW026	29-32590	11/10/99
4932.05	CW1MW027	29-32591	11/10/99
4932.06	CW1MW028	29-32592	11/10/99
4932.07	CW1MW029	29-32593	11/10/99
4932.08	CW1MW281	29-35312	11/10/99
4932.09	CW1MW282	29-35313	11/10/99
4932.10	CW1MW291	29-35314	11/10/99

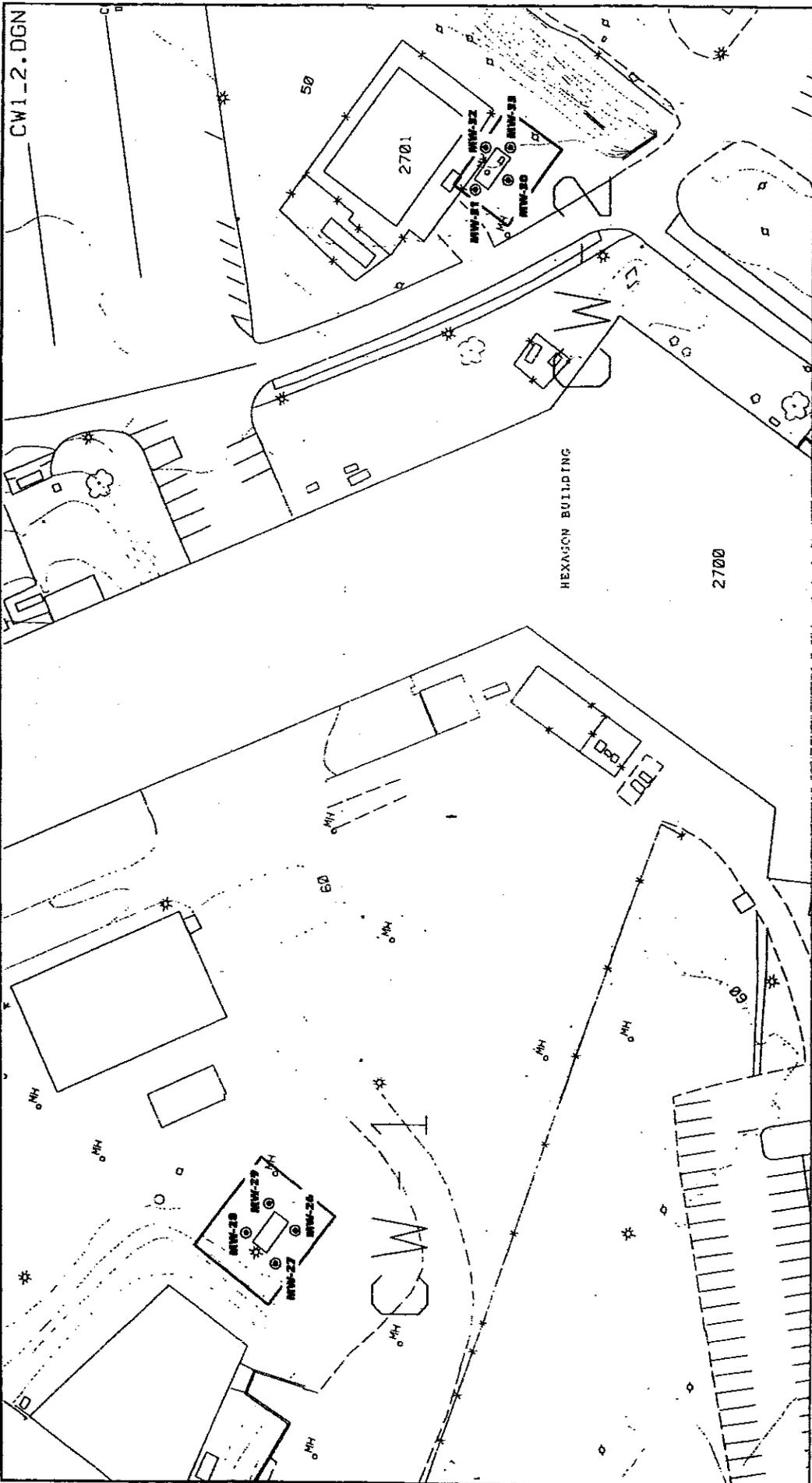
NJDEP Laboratory Certification # 13461


12-03-99
Daniel Wright/Date:
Laboratory Director

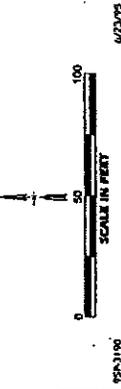
METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

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, Main Post
FIGURE 4-3-3
ACID NEUTRALIZATION LINE PITS (ANL) AND (MW)
SAMPLING LOCATIONS



	Site
	Road/Creek
	Base Boundary
	Military Area
	Approximate Boundary

	Wooded Area
	Tree/Bush
	Light Pole
	Utility Pole

	Road (paved)
	Road/Trails (unpaved)
	Fence
	Building

	Soil Boring/Monitor Well
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LEGEND

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW026
NJDEP ID #: 29-32591
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.46 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.70 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.19 ft
(7.19) X .65 X 3 = 14.02
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:40

pH 7.63 su

DISSOLVED O2 6.89 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 65 us/cm

PURGE END TIME: 10:41

pH 7.60 su

DISSOLVED O2 5.87 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 66 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.03 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:45

pH 7.61 su

DISSOLVED O2 5.83 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 65 us/cm

SAMPLE END TIME: 10:50

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW027
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.66 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.23 ft
(7.23) X .65 X 3 = 14.09
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:35

pH 7.41 su

DISSOLVED O2 6.71 ppm

TEMP 13.6 °C

SPECIFIC CONDUCTIVITY 87 us/cm

PURGE END TIME: 10:36

pH 7.40 su

DISSOLVED O2 5.55 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 89 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.85 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:39

pH 7.42 su

DISSOLVED O2 5.48 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 88 us/cm

SAMPLE END TIME: 10:44

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW028
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.13 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.80 ft
(6.80) X .65 X 3 = 13.26
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:35

pH 6.98 su
DISSOLVED O2 6.88 ppm

TEMP 13.6 °C
SPECIFIC CONDUCTIVITY 99 us/cm

PURGE END TIME: 10:32

pH 6.96 su
DISSOLVED O2 5.67 ppm

TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 97 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.28 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 10:35

pH 6.96 su
DISSOLVED O2 5.61 ppm

TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 98 us/cm

SAMPLE END TIME: 10:39

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW281
NJDEP ID #: 29-35312
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 12.75 ft
DEPTH OF WELL: 43.20 ft
DEPTH TO TOP OF SCREEN: 31.00 ft
HEIGHT OF WATER: 30.45 ft
(30.45) X .65 X 3 = 59.37
GALLONS OF H2O TO BE PURGED: 60 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 07:30

pH 7.70 su

DISSOLVED O2 6.11 ppm

TEMP 13.6 °C

SPECIFIC CONDUCTIVITY 181 us/cm

PURGE END TIME: 11:30

pH 7.70 su

DISSOLVED O2 5.71 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 181 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 14.21 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 60 gal

SAMPLE START TIME: 11:31

pH 7.70 su

DISSOLVED O2 5.69 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 180 us/cm

SAMPLE END TIME: 11:37

COMMENTS: DUP here.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW029
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.44 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.81 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.06 ft
(7.06) X .65 X 3 = 13.76
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:30

pH 6.94 su

DISSOLVED O2 6.71 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 104 us/cm

PURGE END TIME: 10:31

pH 6.95 su

DISSOLVED O2 5.61 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 104 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.00 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:32

pH 6.93 su

DISSOLVED O2 5.57 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 103 us/cm

SAMPLE END TIME: 10:34

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW282
NJDEP ID #: 29-35313
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 61.68 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.58 ft
DEPTH OF WELL: 17.95 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 8.37 ft
(8.37) X .65 X 3 = 16.32
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:40

pH 8.18 su

DISSOLVED O2 6.84 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 68 us/cm

PURGE END TIME: 10:32

pH 8.17 su

DISSOLVED O2 5.81 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 68 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.49 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 10:51

pH 8.19 su

DISSOLVED O2 5.76 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 69 us/cm

SAMPLE END TIME: 10:59

COMMENTS: High pH.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 11/10/99
WEATHER: Sunny, warm.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 63.58 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.79 ft
DEPTH OF WELL: 18.18 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 6.39 ft
 $(6.39) \times .65 \times 3 = 12.46$
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 10:40

pH 7.92 su

DISSOLVED O2 7.11 ppm

TEMP 13.6 °C

SPECIFIC CONDUCTIVITY 94 us/cm

PURGE END TIME: 11:32

pH 7.91 su

DISSOLVED O2 5.99 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 96 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.85 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 11:40

pH 7.93 su

DISSOLVED O2 5.96 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 95 us/cm

SAMPLE END TIME: 11:45

COMMENTS: High pH.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected
E : Compound exceeds calibration limit

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

Data File **VB004794.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 3:31 pm**

Sample Name **Vblk147**
 Field ID **Vblk147**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk147

Lab Name: FMETL Project: 980211

NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk147

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004794.D

Level: (low/med) LOW Date Received: 11/10/99

% Moisture: not dec. _____ Date Analyzed: 11/15/99

GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004852.D**
 Operator **Skelton**
 Date Acquired **17 Nov 1999 2:33 pm**

Sample Name **Vblk148**
 Field ID **Vblk148**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk148

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk148
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004852.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/17/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004825.D**
 Operator **Skelton**
 Date Acquired **16 Nov 1999 12:28 pm**

Sample Name **4932.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004825.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/16/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004826.D**
 Operator **Skelton**
 Date Acquired **16 Nov 1999 1:07 pm**

Sample Name **4932.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m-p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004826.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/16/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004802.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 9:07 pm**

Sample Name **4932.03**
 Field ID **Dupe**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	132788	5.91 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004802.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004803.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 9:46 pm**

Sample Name **4932.04**
 Field ID **CW1MW026**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW026

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004803.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004804.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 10:26 pm**

Sample Name **4932.05**
 Field ID **CWIMW027**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW027

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.05
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004804.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004877.D**
 Operator **Skelton**
 Date Acquired **18 Nov 1999 7:09 am**

Sample Name **4932.06**
 Field ID **CWIMW028**
 Sample Multiplier **5**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
	cis-1,2-Dichloroethene	15.99	123010	25.17 ug/L	10	0.85 ug/L	D
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.51	646988	174.48 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m-p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB004805.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 11:06 pm**

Sample Name **4932.06**
 Field ID **CWIMW028**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.97	794956	25.40 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	4408313	208.05 ug/L	1	0.23 ug/L	B
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW028

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004805.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004807.D**
 Operator **Skelton**
 Date Acquired **16 Nov 1999 12:25 am**

Sample Name **4932.08**
 Field ID **CW1MW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	131241	6.19 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW281

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.08
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004807.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/16/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004806.D**
 Operator **Skelton**
 Date Acquired **15 Nov 1999 11:45 pm**

Sample Name **4932.07**
 Field ID **CW1MW029**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene	9.56	59855	1.67 ug/L	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	12.54	175351	5.87 ug/L	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.98	16924289	542.77 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	1334519	62.96 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB004878.D**
 Operator **Skelton**
 Date Acquired **18 Nov 1999 7:49 am**

Sample Name **4932.07**
 Field ID **CWIMW029**
 Sample Multiplier **10**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	18.50 ug/L	
107131	Acrylonitrile			not detected	50	27.80 ug/L	
75650	tert-Butyl alcohol			not detected	nle	85.20 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	1.60 ug/L	
108203	Di-isopropyl ether			not detected	nle	2.50 ug/L	
	Dichlorodifluoromethane			not detected	nle	16.80 ug/L	
74-87-3	Chloromethane			not detected	30	11.60 ug/L	
75-01-4	Vinyl Chloride			not detected	5	10.60 ug/L	
74-83-9	Bromomethane			not detected	10	11.00 ug/L	
75-00-3	Chloroethane			not detected	nle	10.10 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	5.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	2.40 ug/L	
67-64-1	Acetone			not detected	700	13.60 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	4.60 ug/L	
75-09-2	Methylene Chloride			not detected	2	2.40 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	1.60 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	1.20 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	7.80 ug/L	
78-93-3	2-Butanone			not detected	300	6.20 ug/L	
	cis-1,2-Dichloroethene	15.98	1830755	746.30 ug/L	10	1.70 ug/L	D
67-66-3	Chloroform			not detected	6	3.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	2.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	4.70 ug/L	
71-43-2	Benzene			not detected	1	2.30 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.80 ug/L	
79-01-6	Trichloroethene	20.51	128416	68.43 ug/L	1	2.30 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	4.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	5.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	6.50 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	6.90 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	5.90 ug/L	
108-88-3	Toluene			not detected	1000	3.70 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	8.70 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	4.80 ug/L	
127-18-4	Tetrachloroethene			not detected	1	3.20 ug/L	
591-78-6	2-Hexanone			not detected	nle	7.10 ug/L	
126-48-1	Dibromochloromethane			not detected	10	8.60 ug/L	
108-90-7	Chlorobenzene			not detected	4	3.90 ug/L	
100-41-4	Ethylbenzene			not detected	700	6.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	11.40 ug/L	
1330-20-7	o-Xylene			not detected	nle	6.20 ug/L	
100-42-5	Styrene			not detected	100	5.60 ug/L	
75-25-2	Bromoform			not detected	4	7.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	4.70 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	5.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	5.70 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	6.40 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW029

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4932.07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004806.D
Level: (low/med) LOW Date Received: 11/10/99
% Moisture: not dec. _____ Date Analyzed: 11/15/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB004808.D**
 Operator **Skelton**
 Date Acquired **16 Nov 1999 1:04 am**

Sample Name **4932.09**
 Field ID **CW1MW282**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW282

Lab Name: FMETL Project: 980211
 NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.09
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004808.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: not dec. _____ Date Analyzed: 11/16/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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

Data File **VB004809.D**
 Operator **Skelton**
 Date Acquired **16 Nov 1999 1:44 am**

Sample Name **4932.10**
 Field ID **CW1MW291**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW291

Lab Name: FMETL Project: 980211
 NJDEP#: 13461 Case No.: 4932 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.10
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004809.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: not dec. _____ Date Analyzed: 11/16/99
 GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name BNA03372.D
 Operator Bhaskar
 Date Acquired 13-Nov-99

Sample Name Sblk320
 Misc Info Sblk320 A 991112
 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03372.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name Sblk320
Misc Info Sblk320 A 991112
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Sblk320

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: Sblk320
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03372.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	19	J

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

Data File Name **BNA03376.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.02**
 Misc Info **Field Blank**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03376.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.02
Misc Info Field Blank
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.02
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03376.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	23	J

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

Data File Name **BNA03377.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.03**
 Misc Info **Dupe**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03377.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.03
Misc Info Dupe
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	26.81	54218	2.24 ug/L	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Dupe

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.03
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03377.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	17	J
2. 000105-60-2	Caprolactam	14.55	9	JN
3. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)	24.39	11	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name BNA03378.D
 Operator Bhaskar
 Date Acquired 13-Nov-99

Sample Name 4932.04
 Misc Info CWIMW026
 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BNA03378.D**
Operator **Bhaskar**
Date Acquired **13-Nov-99**

Sample Name **4932.04**
Misc Info **CWIMW026**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indenof[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW026

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.04
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03378.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	15	J

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

Data File Name **BNA03379.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.05**
 Misc Info **CW1MW027**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03379.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.05
Misc Info CW1MW027
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW027

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.05
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03379.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.23	4	J
2. 000141-79-7	3-Penten-2-one, 4-methyl-	6.27	70	JN
3. 000541-05-9	Cyclotrisiloxane, hexamethyl-	6.74	53	JN
4.	unknown	10.19	28	J
5. 000541-02-6	Cyclopentasiloxane, decamethyl-	12.78	5	JN
6. 000124-07-2	Octanoic Acid	13.24	38	JN
7.	unknown	15.80	5	J
8. 000334-48-5	Decanoic acid	16.09	44	JN
9. 055334-08-2	Cyclohexane, 1,1'-tetradecylidene	26.99	9	JN
10.	unknown	29.73	13	J

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

Data File Name **BNA03380.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.06**
 Misc Info **CW1MW028**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03380.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.06
Misc Info CW1MW028
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW028

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.06
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03380.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	21	J

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

Data File Name **BNA03382.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.08**
 Misc Info **CWIMW281**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03382.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.08
Misc Info CWIMW281
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	26.81	46446	2.21 ug/L	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW281

Lab Name: FMETL Lab Code 13461

Project LTM Case No.: 4932 Location CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4932.08

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03382.D

Level: (low/med) LOW Date Received: 11/10/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)	24.39	6	JN
2.	unknown	7.23	36	J
3. 000105-60-2	Caprolactam	14.54	11	JN

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

Data File Name **BNA03383.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.09**
 Misc Info **CW1MW282**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03383.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.09
Misc Info CWIMW282
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indenof[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW282

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.09
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03383.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	23	J

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

Data File Name **BNA03381.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.07**
 Misc Info **CWIMW029**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene	10.54	43375	3.90 ug/L	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene	10.66	45327	4.05 ug/L	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene	13.48	47710	5.44 ug/L	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03381.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.07
Misc Info CW1MW029
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW029

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.07
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03381.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	31	J

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

Data File Name **BNA03384.D**
 Operator **Bhaskar**
 Date Acquired **13-Nov-99**

Sample Name **4932.10**
 Misc Info **CW1MW291**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BNA03384.D
Operator Bhaskar
Date Acquired 13-Nov-99

Sample Name 4932.10
Misc Info CWIMW291
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

CW1MW291

Lab Name: FMETL Lab Code 13461
 Project LTM Case No.: 4932 Location CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4932.10
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA03384.D
 Level: (low/med) LOW Date Received: 11/10/99
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 11/12/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/13/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.23	29	J

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 # : BLK432
Date Rec'd:
Extraction Date: 11/15/99
Analysis Date: 11/23/99

Analysis: EPA Method 608
Matrix: Aqueous
Analyst: T. Frankovich
Ext. Meth: Sep. Funnel

Location :
Field ID:

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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 # :	4932.02
		Date Rec'd:	11/10/99
		Extraction Date:	11/15/99
		Analysis Date:	11/22/99

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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 # :	4932.03
		Date Rec'd:	11/10/99
		Extraction Date:	11/15/99
		Analysis Date:	11/22/99

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

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

Client :	U.S. Army	Lab. ID # :	4932.05
	DPW, SELFM-PW-EV	Date Rec'd:	11/10/99
	Bldg. 173	Extraction Date:	11/15/99
	Ft. Monmouth, NJ 07703	Analysis Date:	11/23/99

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	CW1MW027
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

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 # : 4932.06
 Date Rec'd: 11/10/99
 Extraction Date: 11/15/99
 Analysis Date: 11/23/99

Analysis: EPA Method 608
 Matrix: Aqueous
 Analyst: T. Frankovich
 Ext. Meth: Sep. Funnel

Location : CW1
 Field ID: CW1MW028

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CL.Pesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CL.Pesticides2 30m/.32mm ID/.25um

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 # :	4932.07
		Date Rec'd:	11/10/99
		Extraction Date:	11/15/99
		Analysis Date:	11/23/99

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	CW1MW029
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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 # : 4932.08
Date Rec'd: 11/10/99
Extraction Date: 11/15/99
Analysis Date: 11/23/99

Analysis: EPA Method 608
Matrix: Aqueous
Analyst: T. Frankovich
Ext. Meth: Sep. Funnel

Location : CW1
Field ID: CW1MW281

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

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 # : 4932.09
 Date Rec'd: 11/10/99
 Extraction Date: 11/15/99
 Analysis Date: 11/23/99

Analysis: EPA Method 608
 Matrix: Aqueous
 Analyst: T. Frankovich
 Ext. Meth: Sep. Funnel

Location : CW1
 Field ID: CW1MW282

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

PQL = Practical Quantitation Limit

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

Client :	U.S. Army	Lab. ID # :	4932.10
	DPW, SELFM-PW-EV	Date Rec'd:	11/10/99
	Bldg. 173	Extraction Date:	11/15/99
	Ft. Monmouth, NJ 07703	Analysis Date:	11/23/99

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	CW1MW291
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

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 #: 4932
 Sample Prepared: 11/30/99

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	ND	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	76.7	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	25.7	1000	3.0
Iron	12/01/99	14.6	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	23.8	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	1.43	100	0.5
Potassium	12/01/99	123	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	118	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	7.66	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.02
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	ND	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	ND	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	ND	1000	3.0
Iron	12/01/99	ND	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	ND	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	ND	100	0.5
Potassium	12/01/99	ND	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	ND	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	2.78	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.03
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	ND	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	64.1	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	1.46	4	0.5
Calcium	12/01/99	32700	NLE	20.0
Chromium	12/01/99	0.869	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	87.5	1000	3.0
Iron	12/01/99	5280	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	4190	NLE	20.0
Manganese	12/01/99	151	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	1.66	100	0.5
Potassium	12/01/99	7370	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	11200	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	117	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.04
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW026

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	163	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	16.3	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	3620	NLE	20.0
Chromium	12/01/99	1.39	100	0.5
Cobalt	12/01/99	0.952	NLE	0.5
Copper	12/01/99	13.2	1000	3.0
Iron	12/01/99	478	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	692	NLE	20.0
Manganese	12/01/99	9.54	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	1.75	100	0.5
Potassium	12/01/99	3670	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	6340	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	37.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.05
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW027

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	65.1	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	14.3	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	0.839	4	0.5
Calcium	12/01/99	3230	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	1.47	NLE	0.5
Copper	12/01/99	ND	1000	3.0
Iron	12/01/99	19.7	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	1090	NLE	20.0
Manganese	12/01/99	5.35	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	ND	100	0.5
Potassium	12/01/99	5050	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	7090	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	34.2	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.06
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CWIMW028

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	448	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	24.2	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	4930	NLE	20.0
Chromium	12/01/99	3.59	100	0.5
Cobalt	12/01/99	3.33	NLE	0.5
Copper	12/01/99	8.01	1000	3.0
Iron	12/01/99	544	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	1970	NLE	20.0
Manganese	12/01/99	21.9	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	3.26	100	0.5
Potassium	12/01/99	4060	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	6.03	20	3.0
Sodium	12/01/99	10500	50000	20.0
Thallium	12/01/99	9.45	10	3.0
Vanadium	12/01/99	2.48	NLE	1.0
Zinc	12/01/99	17.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.07
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW029

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	52.6	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	12.9	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	7590	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	0.713	NLE	0.5
Copper	12/01/99	4.99	1000	3.0
Iron	12/01/99	280	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	1270	NLE	20.0
Manganese	12/01/99	19.6	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	1.60	100	0.5
Potassium	12/01/99	4250	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	7470	50000	20.0
Thallium	12/01/99	3.91	10	3.0
Vanadium	12/01/99	1.92	NLE	1.0
Zinc	12/01/99	8.48	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.08
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW281

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	ND	200	10.0
Antimony	12/01/99	2.31	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	62.0	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	1.35	4	0.5
Calcium	12/01/99	31300	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	106	1000	3.0
Iron	12/01/99	4100	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	4060	NLE	20.0
Manganese	12/01/99	146	50	0.5
Mercury	11/29/99	0.28	2	0.1
Nickel	12/01/99	1.65	100	0.5
Potassium	12/01/99	7100	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	10700	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	120	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.09
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW282

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	137	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	44.2	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	7210	NLE	20.0
Chromium	12/01/99	0.936	100	0.5
Cobalt	12/01/99	1.34	NLE	0.5
Copper	12/01/99	22.5	1000	3.0
Iron	12/01/99	210	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	1480	NLE	20.0
Manganese	12/01/99	23.7	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	6.04	100	0.5
Potassium	12/01/99	2230	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	8040	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	13.4	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 4932.10
 Sample Received: 11/10/99
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW291

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	12/01/99	260	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	44.4	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	5380	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	2.76	NLE	0.5
Copper	12/01/99	ND	1000	3.0
Iron	12/01/99	135	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	1480	NLE	20.0
Manganese	12/01/99	11.7	50	0.5
Mercury	11/29/99	ND	2	0.1
Nickel	12/01/99	5.17	100	0.5
Potassium	12/01/99	9920	NLE	20.0
Selenium	12/01/99	3.40	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	6360	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	18.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Lab	Trichloro ethene	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	1	200	50	300	20	-	-
04/23/97	ND	ND	23	50	ND	8.60	V,S,P,M
07/07/97	ND	67	33	10	30	8.98	V,S,P,M
10/01/97	ND	127	12	153	ND	9.45	V,S,P,M
01/06/98	ND	614	12	159	ND	9.05	V,S,P,M
06/16/98	1.10	700	10.4	1400	ND	8.61	V,S,P,M
08/13/98	ND	1410	20.7	2730	ND	9.16	V,S,P,M
12/15/98	ND	158	8.11	105	ND	10.18	V,S,P,M
03/23/99	ND	198	8.53	423	ND	9.07	V,S,P,M
05/27/99	ND	576	7.67	795	ND	9.42	V,S,P,M
08/11/99	ND	239	8.92	375	ND	9.89	V,S,P,M
11/10/99	ND	163	9.54	478	ND	9.70	V,S,P,M

SOURCE: CW1MW026

Sampling Dates:
04/23/97 - 11/10/99

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 1 of 7

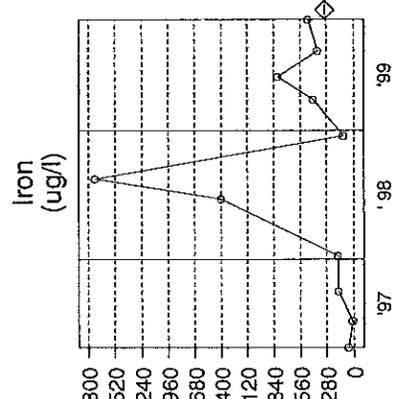
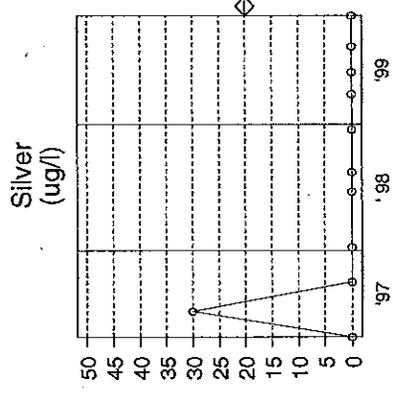
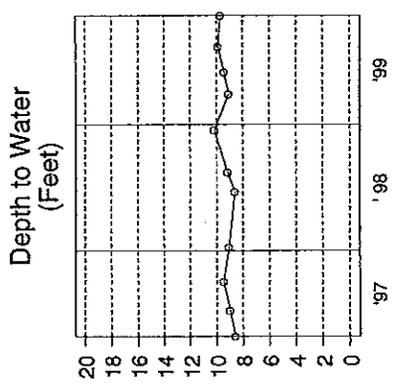
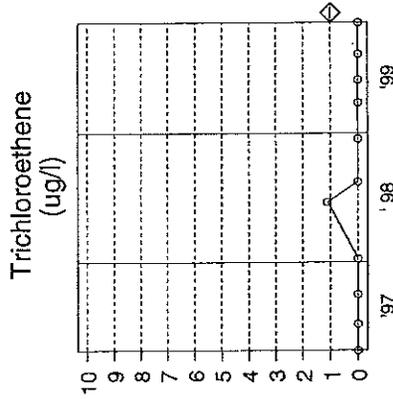
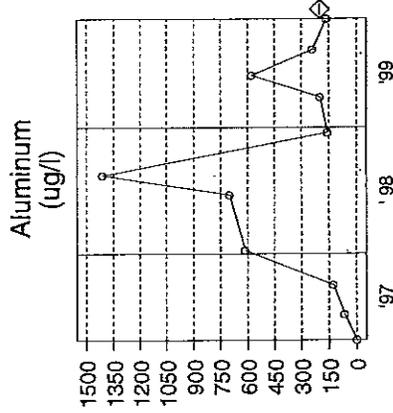
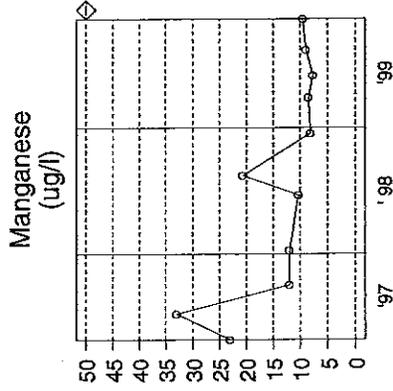
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U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW026

Sampling Dates:
04/23/97 - 11/10/99



LEGEND:

PARAMETER

- o = Date Sampled

◇ NUDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 1 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Lab	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
Units:	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	200	50	300	20	-	-
04/23/97	ND	17	30	ND	8.60	V,S,P,M
07/07/97	90	30	30	31	9.00	V,S,P,M
10/01/97	169	10	74	ND	9.50	V,S,P,M
01/06/98	105	10.6	62	ND	8.95	V,S,P,M
06/16/98	149	7.7	188	ND	8.38	V,S,P,M
08/13/98	1540	19.2	2050	ND	8.98	V,S,P,M
12/15/98	172	10.4	55.7	ND	10.13	V,S,P,M
03/23/99	175	11.7	236	ND	8.93	V,S,P,M
05/27/99	422	4.92	546	ND	9.30	V,S,P,M
08/11/99	95.3	5.38	66.8	ND	9.84	V,S,P,M
11/10/99	65.1	5.35	19.7	ND	9.66	V,S,P,M

SOURCE: CW1MW027

Sampling Dates:
04/23/97 - 11/10/99

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 2 of 7

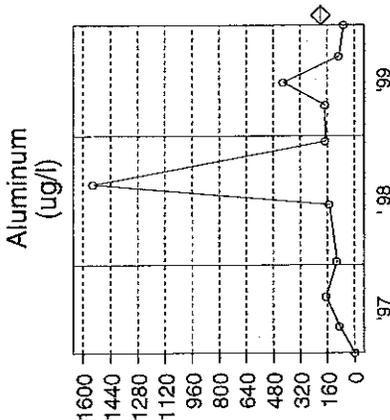
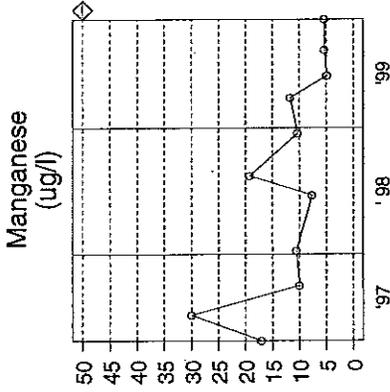
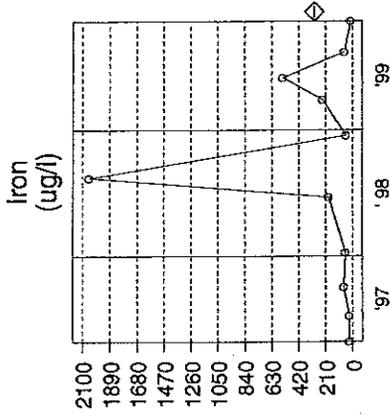
Ag > GW Criteria in blank for samples taken 7/97.



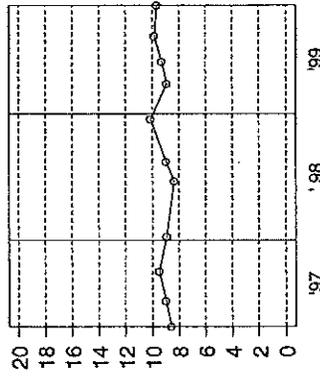
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW027

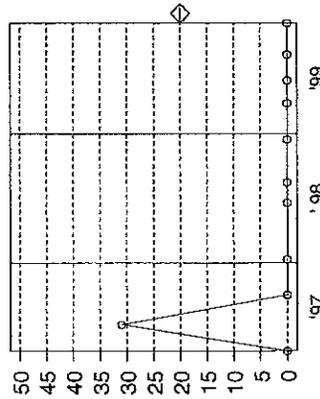
Sampling Dates:
04/23/97 - 11/10/99



Depth to Water (Feet)



Silver (ug/l)



LEGEND:

PARAMETER

o = Date
Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 2 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Trichloro ethene	cis-1,2-Di chloro ethene	Butyl benzyi phthalate	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
NJDEP Criteria:	-	1	10	100	200	50	300	20	Feet	-
04/23/97	FMETL	ND	ND	ND	300	30	10	ND	9.05	V,S,P,M
07/07/97	FMETL	ND	ND	14	277	67	40	30	9.20	V,S,P,M
10/01/97	FMETL	59.4	ND	ND	ND	ND	ND	ND	9.70	V,S,P,M
01/06/98	FMETL	27.7	ND	ND	426	30.4	147	ND	9.40	V,S,P,M
06/16/98	FMETL	ND	ND	ND	1327	14.8	1859	ND	8.84	V,S,P,M
08/13/98	FMETL	ND	ND	ND	459	13.3	798	ND	9.51	V,S,P,M
12/15/98	FMETL	33.9	ND	ND	641	18.9	518	ND	10.63	V,S,P,M
03/23/99	FMETL	7.15	ND	ND	306	25.5	136	ND	9.38	V,S,P,M
05/27/99	FMETL	3.10	ND	ND	760	20	767	ND	9.79	V,S,P,M
08/11/99	FMETL	297.82	1.59	ND	503	24.5	428	ND	10.32	V,S,P,M
11/10/99	FMETL	174.48	25.4	ND	448	21.9	544	6.03	10.13	V,S,P,M

SOURCE: CW1MMW028

Sampling Dates:
04/23/97 - 11/10/99

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7

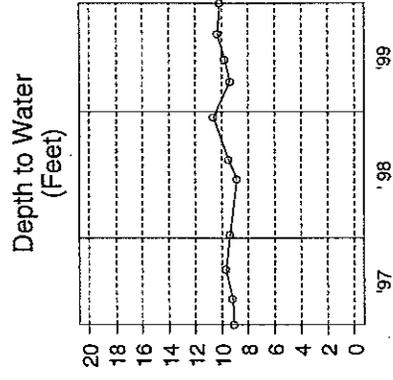
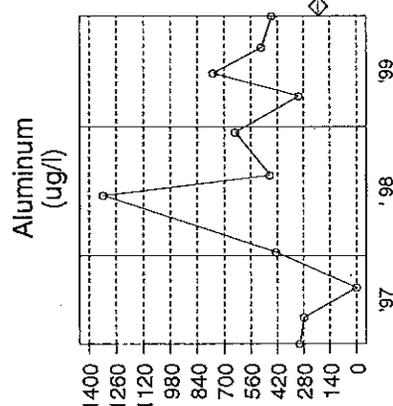
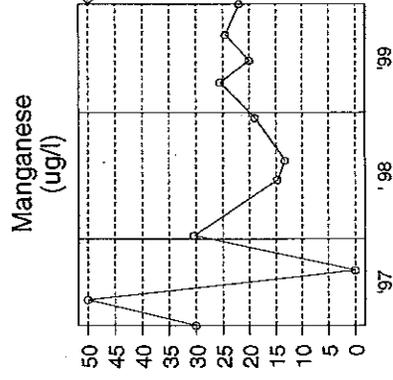
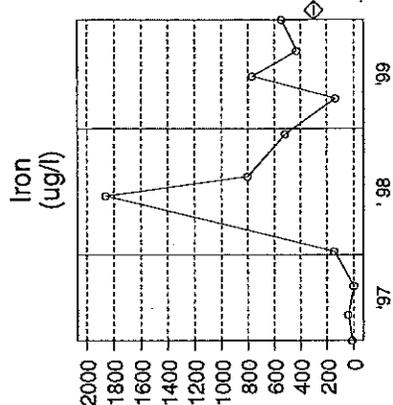
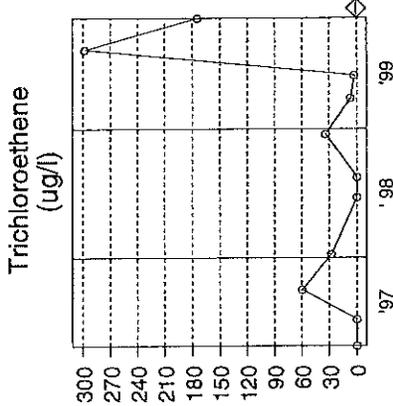
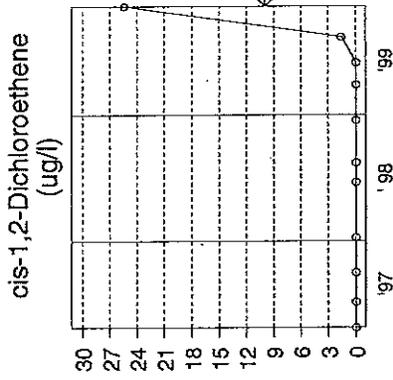
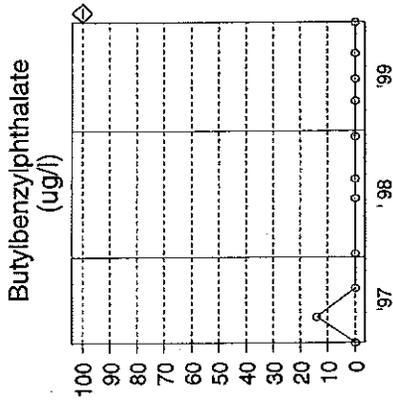
Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW028

Sampling Dates:
04/23/97 - 11/10/99



LEGEND:

PARAMETER

o = Date
Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Trichloro ethene	1,2,4-Tri chloro benzene	cis-1,2-Di chloro ethene	Tetrachloro ethene	1,4-Di chloro benzene	Aluminum	Manganese	Arsenic	Iron	Notes
NJDEP Criteria:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	-
04/23/97	FMETL	3200	1.55	47	1.74	ND	ND	11	2.0	10	V,S,P,M
07/07/97	FMETL	4900	ND	92	7.75	4.6	102	51	ND	40	V,S,P,M
10/01/97	FMETL	7820	ND	290	5.75	3.46	213	16	ND	182	V,S,P,M
01/06/98	FMETL	1705	ND	67	ND	ND	232	15.5	ND	168	V,S,P,M
06/16/98	FMETL	83.11	ND	11.97	ND	ND	322	14.5	ND	627	V,S,P,M
08/13/98	FMETL	498	3.98	88	ND	ND	100	21.3	ND	691	V,S,P,M
12/12/98	FMETL	374.58	ND	161.61	ND	ND	195	23.9	ND	296	V,S,P,M
03/23/99	FMETL	1342	4.27	126.68	ND	ND	61.6	18.5	ND	177	V,S,P,M
05/27/99	FMETL	950.05	5.08	75.55	ND	1.03	372	20.5	ND	880	V,S,P,M
08/11/99	FMETL	288.11	ND	523.43	ND	ND	83.0	22.1	ND	438	V,S,P,M
11/10/99	FMETL	62.96	5.44	746.30	ND	4.05	52.6	19.6	ND	280	V,S,P,M

SOURCE: CW1MW029

Sampling Dates:
04/23/97 - 11/10/99

NOTES:
Page 1 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7

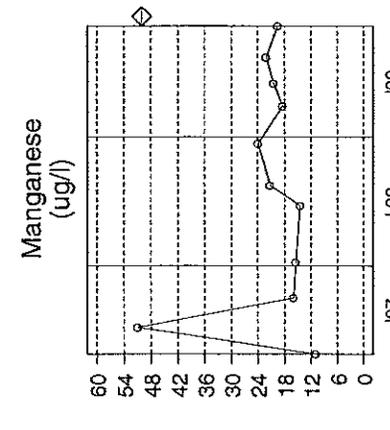
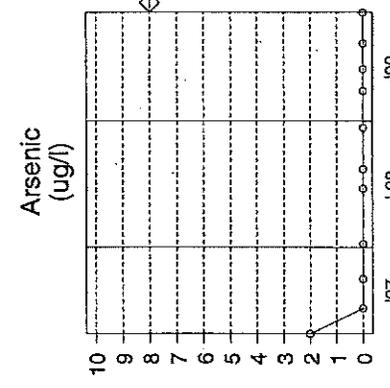
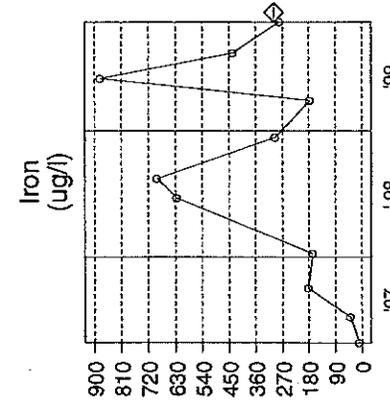
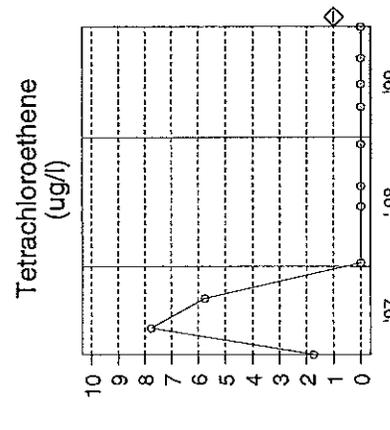
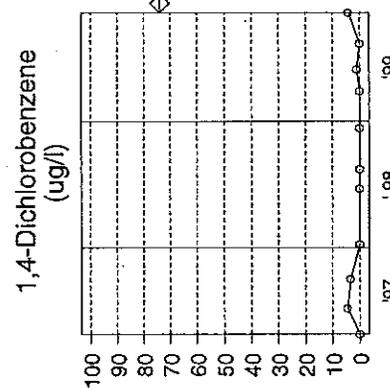
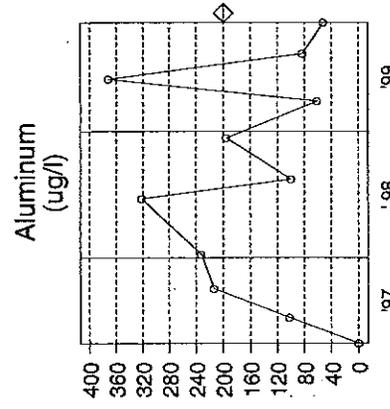
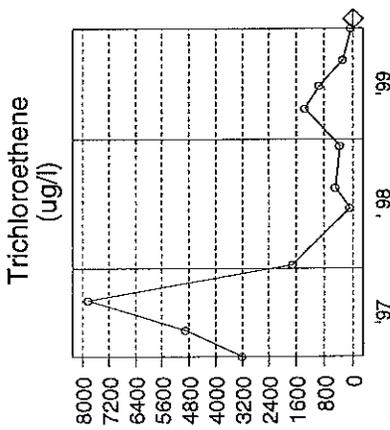
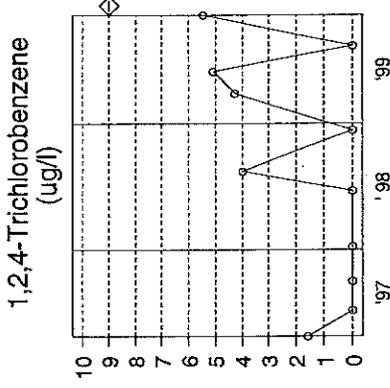
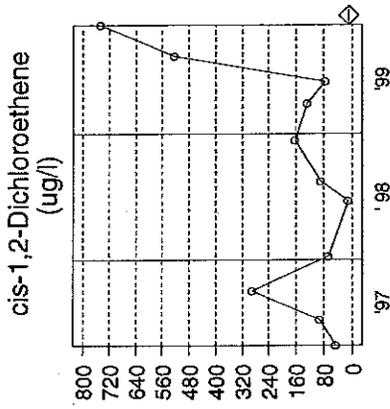
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U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW029

Sampling Dates:
04/23/97 - 11/10/99



LEGEND:

PARAMETER

- o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW029

Sampling Dates:
04/23/97 - 11/10/99

NOTES:
Page 2 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7

Ag > GW Criteria in blank for samples taken 7/97.

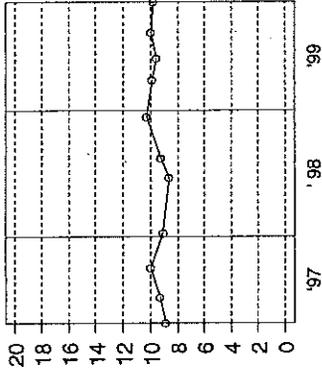
 **U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV**

Units:	Lab	Silver	Depth to Water	Notes
NJDEP Criteria:	-	ug/l	Feet	-
		20	-	-
04/23/97	FMETL	ND	8.90	V,S,P,M
07/07/97	FMETL	30	9.30	V,S,P,M
10/01/97	FMETL	ND	9.98	V,S,P,M
01/06/98	FMETL	ND	9.10	V,S,P,M
06/16/98	FMETL	ND	8.67	V,S,P,M
08/13/98	FMETL	ND	9.26	V,S,P,M
12/12/98	FMETL	ND	10.30	V,S,P,M
03/23/99	FMETL	ND	9.90	V,S,P,M
05/27/99	FMETL	ND	9.59	V,S,P,M
08/11/99	FMETL	ND	10.00	V,S,P,M
11/10/99	FMETL	ND	9.81	V,S,P,M

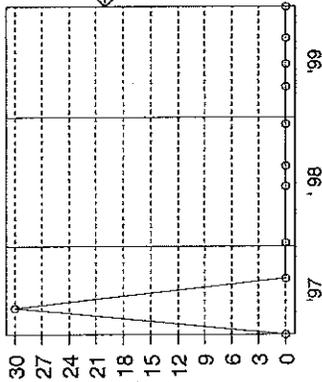
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Sampling Dates:
04/23/97 - 11/10/99

Depth to Water
(Feet)

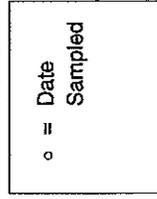


Silver
(ug/l)



LEGEND:

PARAMETER



◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Trichloro ethene	Aluminum	Manganese	Arsenic	Iron	Silver	Depth to Water	Notes
	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	-	1	200	50	8	300	20	-	-
04/22/97	FMETL	ND	ND	458	3.0	29600	ND	11.10	V,S,P,M
07/09/97	FMETL	190	51	231	2.0	36000	5.0	12.30	V,S,P,M
10/02/97	FMETL	42	137	150	ND	26700	ND	12.80	V,S,P,M
01/07/98	FMETL	10.6	28	131	ND	24990	ND	10.80	V,S,P,M
06/18/98	FMETL	27.96	ND	162	ND	28550	ND	10.98	V,S,P,M
08/13/98	FMETL	45	22.8	177	ND	27600	ND	12.57	V,S,P,M
12/15/98	FMETL	6.1	ND	166	ND	1600	ND	13.87	V,S,P,M
03/23/99	FMETL	14.87	ND	188	ND	17700	ND	11.25	V,S,P,M
05/27/99	FMETL	12.08	ND	194	ND	44000	ND	12.07	V,S,P,M
08/11/99	FMETL	3.29	ND	166	ND	26300	ND	13.75	V,S,P,M
11/10/99	FMETL	6.19	ND	146	ND	4100	ND	12.75	V,S,P,M

SOURCE: CW11MW281

Sampling Dates:
04/22/97 - 11/10/99

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 5 of 7

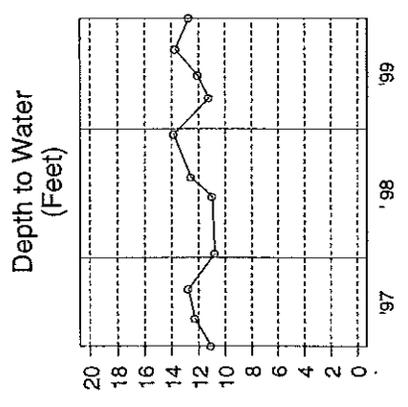
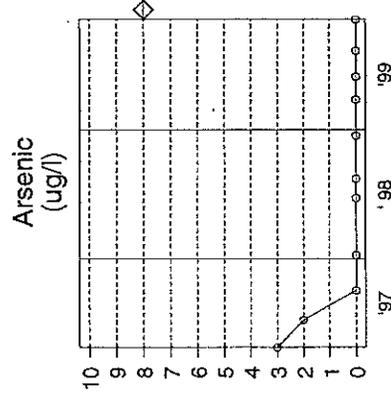
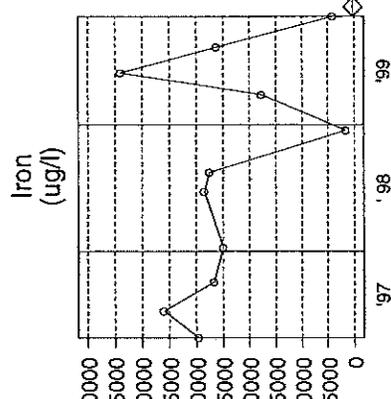
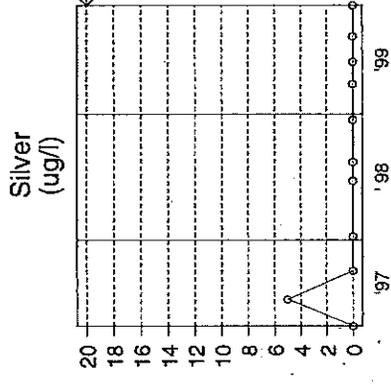
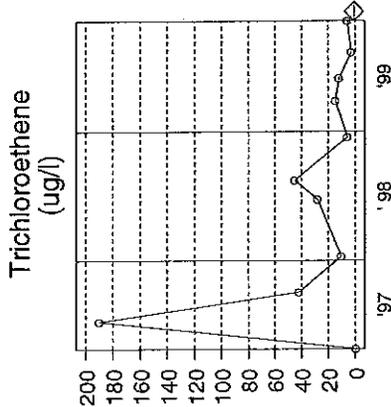
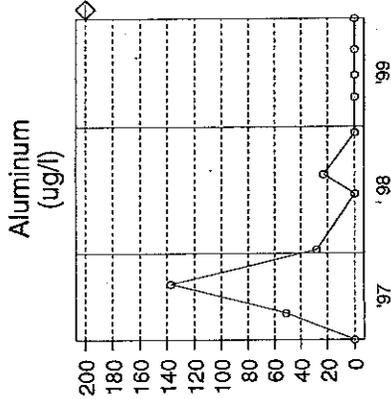
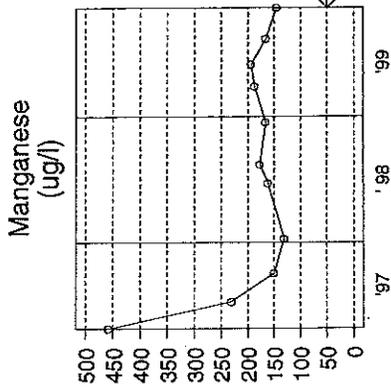
Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW281

Sampling Dates:
04/22/97 - 11/10/99



LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 5 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



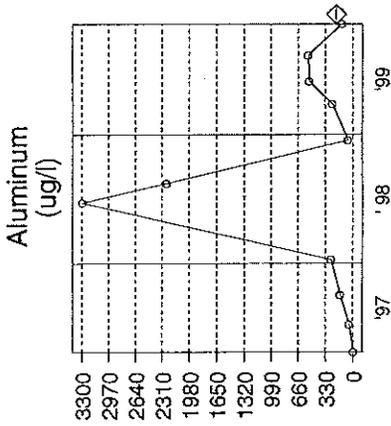
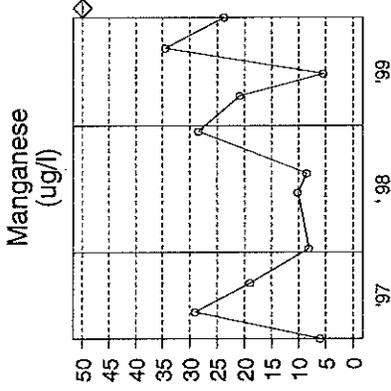
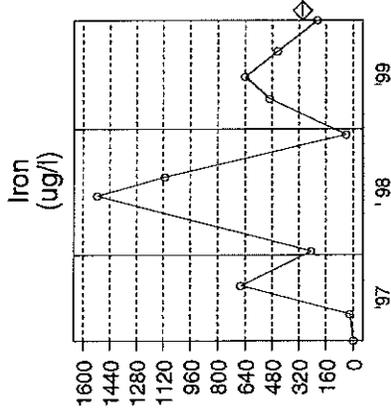
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW282	
Sampling Dates: 04/22/97 - 11/10/99	
NOTES:	
<p style="text-align: center;">F O R T M O N M O U T H</p> <p style="text-align: center;">G W M O N I T O R I N G C W - 1</p> <p style="text-align: center;">W e l l 6 o f 7</p>	
Ag > GW Criteria in blank for samples taken 7/97.	
 U.S. ARMY FORT MONMOUTH SELF-M-PW-EV	

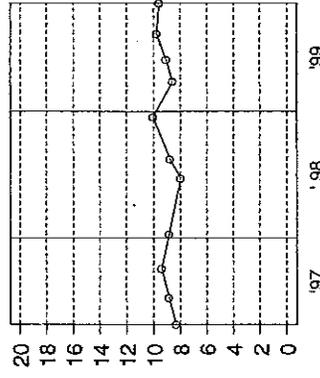
Units:	Lab	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	-	200	50	300	20	-	-
04/22/97	FMETL	ND	6.0	ND	ND	8.30	V,S,P,M
07/09/97	FMETL	50	29	20	3.0	8.85	V,S,P,M
10/02/97	FMETL	153	19	665	ND	9.40	V,S,P,M
01/07/98	FMETL	265	8.1	246	ND	8.85	V,S,P,M
06/18/98	FMETL	3291	10.1	1513	ND	7.97	V,S,P,M
08/13/98	FMETL	2250	8.49	1110	ND	8.79	V,S,P,M
12/15/98	FMETL	61.4	28.4	43.8	ND	10.04	V,S,P,M
03/23/99	FMETL	247	20.9	495	ND	8.59	V,S,P,M
05/27/99	FMETL	526	5.44	640	ND	9.10	V,S,P,M
08/11/99	FMETL	539	34.5	447	ND	9.79	V,S,P,M
11/10/99	FMETL	137	23.7	210	ND	9.58	V,S,P,M

SOURCE: CW1MW282

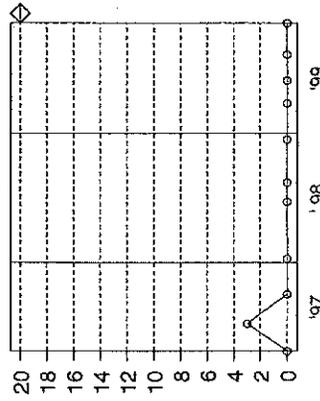
Sampling Dates:
04/22/97 - 11/10/99



Depth to Water (Feet)



Silver (ug/l)



LEGEND:

PARAMETER

o = Date Sampled

◇ = NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 6 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW291
 Sampling Dates:
 04/22/97 - 11/10/99

NOTES:

FORT MONMOUTH

GW MONITORING
 CW-1
 Well 7 of 7

Ag > GW Criteria in blank for samples taken 7/97.

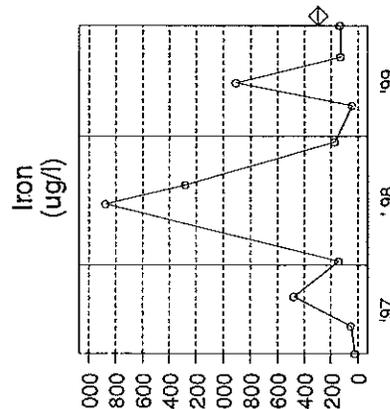
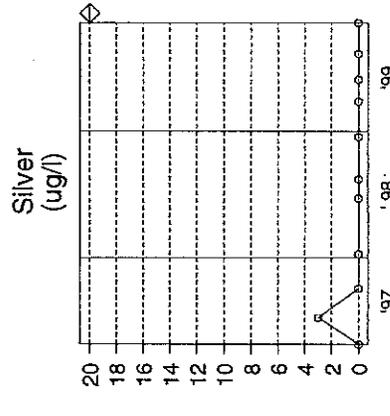
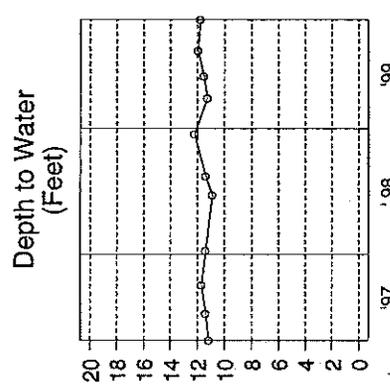
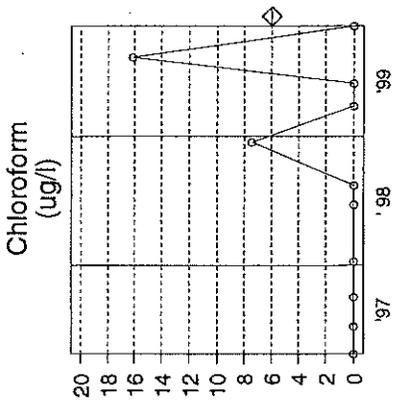
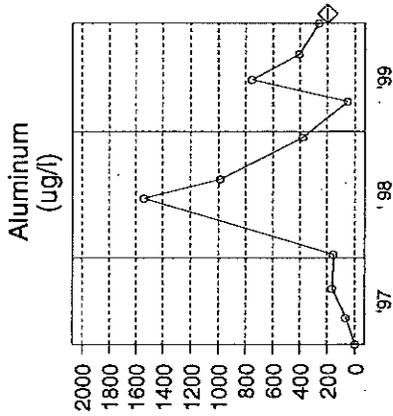
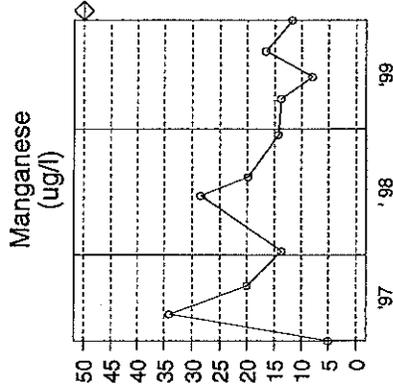
Lab	Chloro form	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	6	200	50	300	20	-	-
04/22/97	ND	ND	5.0	20	ND	11.15	V,S,P,M
07/09/97	ND	69	34	50	3.0	11.40	V,S,P,M
10/02/97	ND	164	20	478	ND	11.70	V,S,P,M
01/07/98	ND	155	13.7	144	ND	11.40	V,S,P,M
06/18/98	ND	1538	28.5	1876	ND	10.89	V,S,P,M
08/13/98	ND	986	19.8	1280	ND	11.39	V,S,P,M
12/15/98	7.41	375	14.3	176	ND	12.21	V,S,P,M
03/23/99	ND	52.7	13.8	43.7	ND	11.28	V,S,P,M
05/27/99	ND	752	8.00	907	ND	11.54	V,S,P,M
08/11/99	16.13	405	16.6	132	ND	11.97	V,S,P,M
11/10/99	ND	260	11.7	135	ND	11.79	V,S,P,M



**U.S. ARMY
 FORT MONMOUTH
 SELFM-PW-EV**

SOURCE: CW1MW291

Sampling Dates:
04/22/97 - 11/10/99



LEGEND:

PARAMETER

- o = Date Sampled

◇ NUDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 7 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



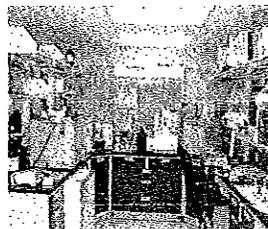
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT

FOR

Directorate of Public Works

Fort Monmouth, NJ 07703

PROJECT : Charles Wood Courtyard Area

SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-1

LABORATORY ID #	MONITOR WELL#	SAMPLE DATE
4973.01	Trip Blank	12/02/99
4973.02	Field Blank	12/02/99
4973.04	CW1MW026	12/02/99
4973.05	CW1MW027	12/02/99
4973.06	CW1MW028	12/02/99
4973.07	CW1MW029	12/02/99
4973.08	CW1MW281	12/02/99
4973.10	CW1MW291	12/02/99
4973.09	CW1MW282	12/02/99

NJDEP Laboratory Certification # 13461



Daniel Wright/Date:
Laboratory Director

12-22-99

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

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 (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: J. P. PAVAR		Project No:		Analysis Parameters		Comments:	
Phone #: 201-222-2222		Location: CWI Monthly VO		Date		Remarks / Preservation Method	
Lab Sample ID		Sample Location		Sample #		Type	
01	Trip	12/2/99	0734	2	AQ		
02	Field Blank		1214	2			
03	Dupe			2			
04	CWI MW 026		1216	2		0.0	29-32590
05	CWI MW 027		1219	2		0.0	29-32591
06	CWI MW 028		1221	2		0.0	29-32592
07	CWI MW 029		1223	2		0.0	29-32593
08	CWI MW 281		1316	2		0.0	29-35312
09	CWI MW 292		1238	2		0.0	29-35313
10	CWI MW 291		1343	2		0.0	29-35314
Relinquished by (signature): Corey McCormack		Date/Time: 12/2/99 1520		Received by (signature): [Signature]		Date/Time:	
Relinquished by (signature):		Date/Time:		Relinquished by (signature):		Date/Time:	
Report Type: <input checked="" type="checkbox"/> Full, <input type="checkbox"/> Reduced, <input type="checkbox"/> Standard, <input type="checkbox"/> Screen / non-certified		Turnaround time: <input checked="" type="checkbox"/> Standard 3 wks, <input type="checkbox"/> Rush		Days: <input type="checkbox"/> ASAP Verbal		Hrs.	
Remarks: Tide: N/A							

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: 0CW1MW26
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.46 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.96 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.93 ft
(6.93) X .65 X 3 =13.51
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:14

pH 7.94 su

DISSOLVED O2 6.17 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 55 us/cm

PURGE END TIME: 12:15

pH 7.97 su

DISSOLVED O2 5.71 ppm

TEMP 13.1 °C

SPECIFIC CONDUCTIVITY 57 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.17 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 12:16

pH 7.96 su

DISSOLVED O2 5.68 ppm

TEMP 13.1 °C

SPECIFIC CONDUCTIVITY 58 us/cm

SAMPLE END TIME: 12:17

COMMENTS: DUP. Here.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: 0CW1MW27
NJDEP ID #: 29-32591
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs: N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.91 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.98 ft
(6.98) X .65 X 3 = 13.61
GALLONS OF H₂O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:17

pH 6.75 su

DISSOLVED O₂ 6.07 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 64 us/cm

PURGE END TIME: 12:18

pH 6.74 su

DISSOLVED O₂ 5.61 ppm

TEMP 13.1 °C

SPECIFIC CONDUCTIVITY 64 us/cm

DEPTH TO H₂O AFTER PURGE AND BEFORE SAMPLING: 10.04 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 12:19

pH 6.75 su

DISSOLVED O₂ 5.60 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 64 us/cm

SAMPLE END TIME: 12:20

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: 0CW1MW28
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.41 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.52 ft
 $(6.52) \times .65 \times 3 = 12.71$
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:21

pH 7.75 su

DISSOLVED O2 5.93 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 87 us/cm

PURGE END TIME: 12:18

pH 7.75 su

DISSOLVED O2 5.44 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 85 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.51 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 12:21

pH 7.74 su

DISSOLVED O2 5.41 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 86 us/cm

SAMPLE END TIME: 12:22

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW281
NJDEP ID #: 29-35312
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 13.01 ft
DEPTH OF WELL: 43.20 ft
DEPTH TO TOP OF SCREEN: 31.00 ft
HEIGHT OF WATER: 30.19 ft
(30.19) X .65 X 3 =58.87
GALLONS OF H2O TO BE PURGED: 59 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:00

pH 7.87 su

DISSOLVED O2 6.00 ppm

TEMP 13.6 °C

SPECIFIC CONDUCTIVITY 184 us/cm

PURGE END TIME: 13:15

pH 7.86 su

DISSOLVED O2 5.71 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 184 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 13.87 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 59 gal

SAMPLE START TIME: 13:16

pH 7.87 su

DISSOLVED O2 5.69 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 184 us/cm

SAMPLE END TIME: 13:17

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW282
NJDEP ID #: 29-35313
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 61.68 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.84 ft
DEPTH OF WELL: 17.95 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 8.11 ft
(8.11) X .65 X 3 =15.81
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:27

pH 7.48 su

DISSOLVED O2 6.21 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 148 us/cm

PURGE END TIME: 12:37

pH 7.49 su

DISSOLVED O2 5.80 ppm

TEMP 13.1 °C

SPECIFIC CONDUCTIVITY 148 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11:07 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 12:38

pH 7.47 su

DISSOLVED O2 5.77 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 147 us/cm

SAMPLE END TIME: 13:39

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: 0CWIMW29
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.44 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.07 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 6.80 ft
(6.80) X .65 X 3 =13.26
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:24

pH 7.72 su

DISSOLVED O2 6.01 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 73 us/cm

PURGE END TIME: 12:21

pH 7.74 su

DISSOLVED O2 5.70 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 73 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.27 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 12:23

pH 7.74 su

DISSOLVED O2 5.65 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 73 us/cm

SAMPLE END TIME: 12:24

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 12/02/99
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 63.58 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 12.01 ft
DEPTH OF WELL: 18.18 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 6.17 ft
(6.17) X .65 X 3 = 12.03
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 12:50

pH 7.19 su

DISSOLVED O2 6.17 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 75 us/cm

PURGE END TIME: 13:42

pH 7.17 su

DISSOLVED O2 5.67 ppm

TEMP 13.1 °C

SPECIFIC CONDUCTIVITY 74 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.12 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 13:43

pH 7.16 su

DISSOLVED O2 5.64 ppm

TEMP 13.2 °C

SPECIFIC CONDUCTIVITY 74 us/cm

SAMPLE END TIME: 13:45

COMMENTS:

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

Data File **VB004999.D**
 Operator **Skelton**
 Date Acquired **8 Dec 1999 9:07 am**

Sample Name **Vblk152**
 Field ID **Vblk152**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk152

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk152
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004999.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/8/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB005019.D
 Operator Skelton
 Date Acquired 8 Dec 1999 11:05 pm

Sample Name 4973.01
 Field ID Trip Blank
 Sample Multiple 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.47	37409	1.46 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005019.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/8/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005020.D**
 Operator **Skelton**
 Date Acquired **8 Dec 1999 11:45 pm**

Sample Name **4973.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.46	206670	8.10 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005020.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/8/99
GC Column: RTX502, 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005022.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 1:05 am**

Sample Name **4973.04**
 Field ID **CW1MW026**
 Sample Multiple **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW026

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005022.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005023.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 1:46 am**

Sample Name **4973.05**
 Field ID **CWIMW027**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW027

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.05
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005023.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005024.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 2:25 am**

Sample Name **4973.06**
 Field ID **CWIMW028**
 Sample Multiple **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	402534	13.57 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	1418712	66.59 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW028

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005024.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005026.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 3:45 am**

Sample Name **4973.08**
 Field ID **CW1MW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	97835	4.67 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW281

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.08
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005026.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB005025.D
 Operator Skelton
 Date Acquired 9 Dec 1999 3:05 am

Sample Name 4973.07
 Field ID CW1MW029
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene	9.53	35278	1.05 ug/L	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	12.53	90792	3.06 ug/L	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	10523921	344.48 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	1526592	70.63 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	33.10	114726	2.71 ug/L	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	33.34	170748	3.84 ug/L	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.I.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File VB005029.D
 Operator Skelton
 Date Acquired 9 Dec 1999 7:28 am

Sample Name 4973.07
 Field ID CW1MW029
 Sample Multiplier 5

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)**	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.96	1601996	282.62 ug/L	10	0.85 ug/L	D
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.51	215954	52.77 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW029

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005025.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB005027.D
 Operator Skelton
 Date Acquired 9 Dec 1999 4:25 am

Sample Name 4973.09
 Field ID CWIMW282
 Sample Multiple 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl-ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW282

Lab Name: FMETL Project: 980211
 NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 4973.09
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005027.D
 Level: (low/med) LOW Date Received: 12/2/99
 % Moisture: not dec. _____ Date Analyzed: 12/9/99
 GC Column: RTX502. 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 NAME	RT	EST. CONC.	Q

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

Data File **VB005028.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 5:05 am**

Sample Name **4973.10**
 Field ID **CW1MW291**
 Sample Multiple **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW291

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.10
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005028.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005021.D**
 Operator **Skelton**
 Date Acquired **9 Dec 1999 12:25 am**

Sample Name **4973.03**
 Field ID **Dupe**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: 980211
NJDEP#: 13461 Case No.: 4973 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 4973.03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005021.D
Level: (low/med) LOW Date Received: 12/2/99
% Moisture: not dec. _____ Date Analyzed: 12/9/99
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

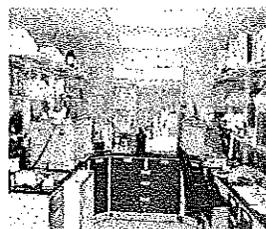
Customer:		Project No.:		Analysis Parameters		Comments:	
Phone #:		Location: CWI		VOT		HCL / Lye	
() DERA () OMA () Other:		Monthly VOA Jan 00					
Samplers Name / Company: Corey McCormack, TUS		Sample #					
Lab Sample I.D.	Sample Location	Date	Time	Type	bottles	Remarks / Preservation Method	
5094 .01	Trip	11/12/00	0750	AB	2		
.02	Field Blank		1030				
.03	Dupe						
.04	CWI MW026		1042			0.0	29-32591
.05	CWI MW027		1047			0.0	29-32592
.06	CWI MW028		1050			0.0	29-32593
.07	CWI MW029		1102			0.0	29-32590
.08	CWI MW281		1322			0.0	29-32312
.09	CWI MW282		1311			0.0	29-35313
.10	CWI MW291		1258			0.0	29-35314
Relinquished by (signature): Corey McCormack		Received by (signature): [Signature]		Relinquished by (signature):		Received by (signature):	
Date/Time: 11/12/00 1400		Date/Time:		Date/Time:		Date/Time:	
Relinquished by (signature):		Received by (signature):		Relinquished by (signature):		Received by (signature):	
Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Report Type: () Full, () Reduced, () Standard, () Screen / non-certified		Turnaround time: () Standard 3 wks, () Rush Days, () ASAP Verbal Hrs.		Remarks: Tide: N/A			

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT

FOR

Directorate of Public Works

Fort Monmouth, NJ 07703

PROJECT : Charles Wood Courtyard Area

SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-1

LABORATORY ID #	MONITOR WELL#	SAMPLE DATE
5094.01	Trip Blank	01/12/00
5094.02	Field Blank	01/12/00
5094.04	CW1MW026	01/12/00
5094.05	CW1MW027	01/12/00
5094.06	CW1MW028	01/12/00
5094.07	CW1MW029	01/12/00
5094.08	CW1MW281	01/12/00
5094.10	CW1MW291	01/12/00
5094.09	CW1MW282	01/12/00

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:
Laboratory Director

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW026
NJDEP ID #: 29-32591
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 1/12/00
WEATHER: Sunny, Cold
TIDE: N/A

LNAPLs: N
DNAPLs : N
ELEV. OF INNER CASING SURVEY MARK: 62.46 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.67 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 7.22 ft.
(7.22) X .65 X 3 = 14.07
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm 0940
Hnu READING: 0.0 ppm 1040

PURGE START TIME: 0940
pH 6.87 su TEMP 13.4 °C
DISSOLVED O2 5.87 ppm SPECIFIC CONDUCTIVITY 54 us/cm

PURGE END TIME: 1041
pH 6.81 su TEMP 13.2 °C
DISSOLVED O2 4.44 ppm SPECIFIC CONDUCTIVITY 53 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.91 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 1042
pH 6.84 su TEMP 13.2 °C
DISSOLVED O2 4.41 ppm SPECIFIC CONDUCTIVITY 54 us/cm

SAMPLE END TIME: 1044

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW027
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 1/12/00
WEATHER: Sunny, Cold
TIDE: N/A

LNAPLs: N

DNAPLs : N

ELEV. OF INNER CASING SURVEY MARK: 62.50 ft

INNER CASING DIA.: 4 INCH

DEPTH TO WATER: 9.63 ft

DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: ft

HEIGHT OF WATER: 7.26 ft.

$(7.26) \times .65 \times 3 = 14.157$

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC

PURGE RATE: 0.23 gpm

Hnu READING: 0.0 ppm

PURGE START TIME: 0945

pH 6.87 su

TEMP 13.5 °C

DISSOLVED O2 5.89 ppm

SPECIFIC CONDUCTIVITY 61 us/cm

PURGE END TIME: 1046

pH 6.87 su

TEMP 13.2 °C

DISSOLVED O2 4.51 ppm

SPECIFIC CONDUCTIVITY 61 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.79 ft

(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 1047

pH 6.88 su

TEMP 13.2 °C

DISSOLVED O2 4.50 ppm

SPECIFIC CONDUCTIVITY 61 us/cm

SAMPLE END TIME: 1049

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW028
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 1/12/00
WEATHER: Sunny, Cold
TIDE: N/A

LNAPLs: N
DNAPLs : N
ELEV. OF INNER CASING SURVEY MARK: 63.17 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 10.10 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 6.83 ft.
(6.83) X .65 X 3 = 13.31
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm 1000
Hnu READING: 0.0 ppm

PURGE START TIME: 0950

pH 6.91	su		TEMP 13.5 °C		
DISSOLVED O2	5.76	ppm	SPECIFIC CONDUCTIVITY	74	us/cm

PURGE END TIME: 1046

pH 6.89	su		TEMP 13.2 °C		
DISSOLVED O2	4.31	ppm	SPECIFIC CONDUCTIVITY	71	us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.21 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 1050

pH 6.88	su		TEMP 13.2 °C		
DISSOLVED O2	4.28	ppm	SPECIFIC CONDUCTIVITY	73	us/cm

SAMPLE END TIME: 1052

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW029
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 1/12/00
WEATHER: Sunny, Cold
TIDE: N/A

LNAPLs: N
DNAPLs : N
ELEV. OF INNER CASING SURVEY MARK: 62.73 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.77 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 7.10 ft.
(7.10) X .65 X 3 = 13.85
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 1000
pH 6.93 su TEMP 13.9 °C
DISSOLVED O2 5.81 ppm SPECIFIC CONDUCTIVITY 79 us/cm

PURGE END TIME: 1101
pH 6.94 su TEMP 13.1 °C
DISSOLVED O2 4.52 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.88 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 1102
pH 6.91 su TEMP 13.2 °C
DISSOLVED O2 4.49 ppm SPECIFIC CONDUCTIVITY 81
us/cm

SAMPLE END TIME: 1104

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW282
NJDEP ID #: 29-35313
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 01/12/00
WEATHER: Sunny, Cold
TIDE: N/A

LNAPLs: N
DNAPLs : N
ELEV. OF INNER CASING SURVEY MARK: 61.47 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.51 ft
DEPTH OF WELL: 17.95 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 8.44 ft.
(8.44) X .65 X 3 = 16.45
GALLONS OF H2O TO BE PURGED: 16 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 1200

pH 7.01 su TEMP 13.4°C
DISSOLVED O2 5.99 ppm SPECIFIC CONDUCTIVITY 121 us/cm

PURGE END TIME: 1310

pH 6.98 su TEMP 13.2°C
DISSOLVED O2 4.87 ppm SPECIFIC CONDUCTIVITY 120 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.04 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 1311

pH 6.99 su TEMP 13.1 °C
DISSOLVED O2 4.86 ppm SPECIFIC CONDUCTIVITY 121 us/cm

SAMPLE END TIME: 1313

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 1/12/00
WEATHER: Sunny,Cold
TIDE: N/A

LNAPLs: N
DNAPLs : N
ELEV. OF INNER CASING SURVEY MARK: 63.38 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.79 ft
DEPTH OF WELL 18.18 ft
DEPTH TO TOP OF SCREEN: ft
HEIGHT OF WATER: 6.39 ft.
(6.39) X .65 X 3 = 12.46
GALLONS OF H2O TO BE PURGED: 12 gal
PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 1205
pH 6.87 su
DISSOLVED O2 6.00 ppm
TEMP 13.5 °C
SPECIFIC CONDUCTIVITY 107 us/cm

PURGE END TIME: 1257
pH 6.88 su
DISSOLVED O2 5.21 ppm
TEMP 13.1 °C
SPECIFIC CONDUCTIVITY 106 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.17 ft
(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 1258
pH 6.86 su
DISSOLVED O2 5.16 ppm
TEMP° 13.1 °C
SPECIFIC CONDUCTIVITY 106 us/cm

SAMPLE END TIME: 1300

COMMENTS:

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

Data File **VC002076.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 4:41 pm**

Sample Name **Vblk54**
 Field ID **Vblk54**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Vblk54

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk54
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002076.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VC002077.D
 Operator Skelton
 Date Acquired 17 Jan 2000 5:22 pm

Sample Name 5094.01
 Field ID Trip Blank
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.22	219194	2.65 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002077.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002078.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 6:03 pm**

Sample Name **5094.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.22	217680	2.73 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Field Blank

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002078.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502. 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002079.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 6:44 pm**

Sample Name **5094.03**
 Field ID **Dupe**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.29	263564	4.06 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Dupe

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.03
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002079.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002080.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 7:25 pm**

Sample Name **5094.04**
 Field ID **CWIMW026**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW026

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002080.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002081.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 8:06 pm**

Sample Name **5094.05**
 Field ID **CWIMW027**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW027

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.05
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002081.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002082.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 8:47 pm**

Sample Name **5094.06**
 Field ID **CWIMW028**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.75	434520	7.86 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.29	4197049	67.35 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW028

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002082.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002084.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 10:09 pm**

Sample Name **5094.08**
 Field ID **CWIMW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.30	260165	4.19 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW281

Lab Name: FMETL NJDEP#: 13461

Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5094.08

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002084.D

Level: (low/med) LOW Date Received: 1/12/00

% Moisture: not dec. _____ Date Analyzed: 1/17/00

GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002085.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 10:50 pm**

Sample Name **5094.09**
 Field ID **CW1MW282**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW282

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.09
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002085.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002083.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 9:28 pm**

Sample Name **5094.07**
 Field ID **CWIMW029**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene	12.28	98139	1.75 ug/L	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene	15.74	10477811	183.96 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.29	2683370	42.74 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	32.89	108411	1.09 ug/L	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VC002104.D**
 Operator **Skelton**
 Date Acquired **18 Jan 2000 11:38 am**

Sample Name **5094.07**
 Field ID **CWIMW029**
 Sample Multiplier **5**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
	cis-1,2-Dichloroethene	15.74	1963510	186.58 ug/L	10	0.85 ug/L	D
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.29	569527	46.32 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW029

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002083.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VC002086.D**
 Operator **Skelton**
 Date Acquired **17 Jan 2000 11:31 pm**

Sample Name **5094.10**
 Field ID **CW1MW291**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

CW1MW291

Lab Name: FMETL NJDEP#: 13461
Project: Jan00 Case No.: 5094 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5094.10
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC002086.D
Level: (low/med) LOW Date Received: 1/12/00
% Moisture: not dec. _____ Date Analyzed: 1/17/00
GC Column: RTX502 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

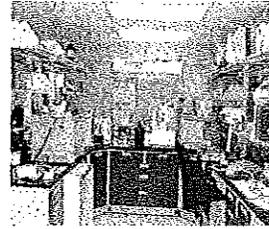
CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR

Directorate of Public Works
Fort Monmouth, NJ 07703

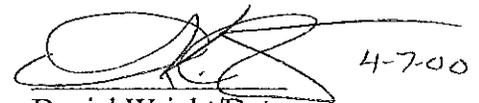
PROJECT : DERA/ Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-1

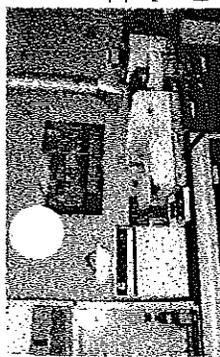
LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5181.04	CW1MW026	29-32590	02/16/00
5181.05	CW1MW027	29-32591	02/16/00
5181.06	CW1MW028	29-32592	02/16/00
5181.07	CW1MW029	29-32593	02/16/00
5181.08	CW1MW281	29-35312	02/16/00
5181.09	CW1MW282	29-35313	02/16/00
5181.10	CW1MW291	29-35314	02/16/00

NJDEP Laboratory Certification # 13461


Daniel Wright/Date: 4-7-00
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticides and PCB's by GC	608

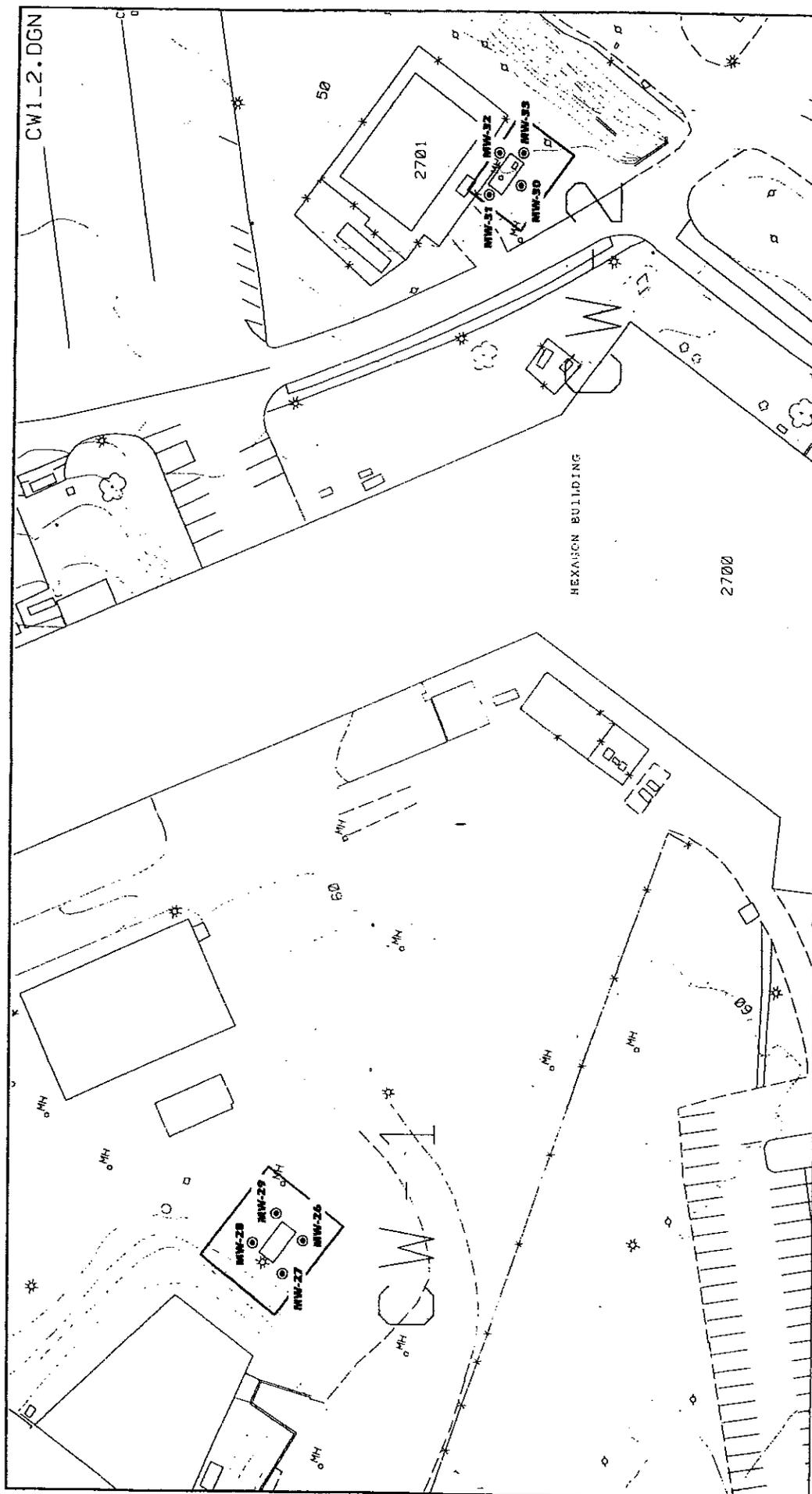


Fort Monmouth Environmental Testing Laboratory

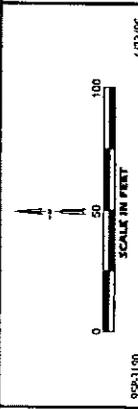
Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
 Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
 NJDEP Certification #13461

Chain of Custody Record

Customer: J. Taylor		Project No:		Analysis Parameters				Comments:													
Phone #: 201-223-2233		Location: Cwi wells		TAL	PCB	BNA+RS	HCL/HNO ₃ /L ₂														
ADERA (JOMA) (Other:)		1st Qtr '00 w/ monthly vol's		VOI's	PCB	BNA+RS	Remarks / Preservation Method														
Samplers Name / Company: Corey Melomach, TUS		Date	Time	Sample Type	# bottles																
Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles																
518.01	Trip	2/16/00	0735	AQ	2	✓															
.02	Field Blank		1030		5	✓	✓														
.03	Dye				5	✓	✓														
.04	Cwi MW026		1036		5	✓	✓					0.0						29-32591			
.05	Cwi MW027		1041		5	✓	✓					0.0						29-32592			
.06	Cwi MW028		1048		5	✓	✓					0.0						29-32593			
.07	Cwi MW029		1057		5	✓	✓					0.0						29-32590			
.08	Cwi MW281		1255		5	✓	✓					0.0						29-32532			
.09	Cwi MW282		1229		5	✓	✓					0.0						29-32533			
.10	Cwi MW291		1221	↓	5	✓	✓					0.0						29-32534			
Relinquished by (signature): <i>Corey Melomach</i>		Date/Time: 2/16/00 1500	Received by (signature): <i>J. Taylor</i>		Date/Time: 2/16/00 1500		Relinquished by (signature):		Date/Time:		Received by (signature):		Date/Time:		Relinquished by (signature):		Date/Time:		Received by (signature):		
Relinquished by (signature):		Date/Time:	Received by (signature):		Date/Time:		Relinquished by (signature):		Date/Time:		Received by (signature):		Date/Time:		Relinquished by (signature):		Date/Time:		Received by (signature):		
Report Type: <input checked="" type="checkbox"/> Full, <input type="checkbox"/> Reduced, <input type="checkbox"/> Standard, <input type="checkbox"/> Screen / non-certified, <input type="checkbox"/> EDD		Turnaround time: <input checked="" type="checkbox"/> Standard 3 wks, <input type="checkbox"/> Rush Days, <input type="checkbox"/> ASAP Verbal Hrs.		Remarks: Tide: N/A																	



Fort Monmouth, Main Post
FIGURE 4-3-3
ACID NEUTRALIZATION LINE PITS (MW-1 AND MW-2)
SAMPLING LOCATIONS



623/05
 023/100

LEGEND	
⊙	Soil Boring/Monitor Well
—	Road (paved)
---	Road/Trails (unpaved)
- - -	Fence
▭	Building
⊙	Site
⊙	Pool/Creek
---	Base Boundary
- - -	Property Area
- - -	Approximate Boundary
⊙	Wooded Area
⊙	Tree/Bush
⊙	Light Pole
⊙	Utility Pole

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW026
NJDEP ID #: 29-32591
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Overcast, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.46 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.44 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.45 ft
 $(7.45) \times .65 \times 3 = 14.53$
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:30
pH 6.87 su
DISSOLVED O2 6.23 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 81 us/cm

PURGE END TIME: 10:35
pH 6.89 su
DISSOLVED O2 5.41 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.78 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:36
pH 6.90 su
DISSOLVED O2 5.33 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 80 us/cm

SAMPLE END TIME: 10:39

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW027
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Overcast, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.37 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.52 ft
(7.52) X .65 X 3 =14.66
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:35
pH 6.89 su
DISSOLVED O2 6.21 ppm
TEMP 12.7 °C
SPECIFIC CONDUCTIVITY 83 us/cm

PURGE END TIME: 10:40
pH 6.92 su
DISSOLVED O2 5.37 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.55 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:41
pH 6.93 su
DISSOLVED O2 5.35 ppm
TEMP 12.6 °C
SPECIFIC CONDUCTIVITY 82 us/cm

SAMPLE END TIME: 10:47

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW028
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Overcast, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.84 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.09 ft
(7.09) X .65 X 3 = 13.82
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:45

pH 6.91 su

DISSOLVED O2 6.07 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 74 us/cm

PURGE END TIME: 10:46

pH 6.93 su

DISSOLVED O2 5.29 ppm

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 75 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.94 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:48

pH 6.93 su

DISSOLVED O2 5.27 ppm

TEMP 12.6 °C

SPECIFIC CONDUCTIVITY 75 us/cm

SAMPLE END TIME: 10:53

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW281
NJDEP ID #: 29-35312
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Overcast, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.96 ft
DEPTH OF WELL: 43.20 ft
DEPTH TO TOP OF SCREEN: 31.00 ft
HEIGHT OF WATER: 31.24 ft
(31.24) X .65 X 3 = 60.91
GALLONS OF H2O TO BE PURGED: 61 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 08:30

pH 6.98 su

DISSOLVED O2 6.21 ppm

TEMP 12.9 °C

SPECIFIC CONDUCTIVITY 54 us/cm

PURGE END TIME: 12:34

pH 6.99 su

DISSOLVED O2 5.37 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 53 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 13.21 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 61 gal

SAMPLE START TIME: 12:55

pH 7.01 su

DISSOLVED O2 5.32 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 53 us/cm

SAMPLE END TIME: 12:57

COMMENTS: DUP here.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW282
NJDEP ID #: 29-35313
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 61.68 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.19 ft
DEPTH OF WELL: 17.95 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 8.76 ft
(8.76) X .65 X 3 = 17.08
GALLONS OF H2O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:14

pH 6.91 su

DISSOLVED O2 6.21 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 73 us/cm

PURGE END TIME: 12:28

pH 6.93 su

DISSOLVED O2 5.41 ppm

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 73 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.86 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 12:29

pH 6.92 su

DISSOLVED O2 5.37 ppm

TEMP 12.6 °C

SPECIFIC CONDUCTIVITY 73 us/cm

SAMPLE END TIME: 12:35

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW029
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Overcast, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.44 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.54 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.33 ft
(7.33) X .65 X 3 = 14.29
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:55

pH 6.91 su

DISSOLVED O2 6.04 ppm

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 89 us/cm

PURGE END TIME: 10:56

pH 6.90 su

DISSOLVED O2 5.29 ppm

TEMP 12.6 °C

SPECIFIC CONDUCTIVITY 90 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.65 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:57

pH 6.87 su

DISSOLVED O2 5.24 ppm

TEMP 12.5 °C

SPECIFIC CONDUCTIVITY 91 us/cm

SAMPLE END TIME: 11:00

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 02/16/00
WEATHER: Sunny, cold.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 63.58 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.61 ft
DEPTH OF WELL: 18.18 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 6.57 ft
 $(6.57) \times .65 \times 3 = 12.81$
GALLONS OF H₂O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:24

pH 7.03 su

DISSOLVED O₂ 6.23 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 81 us/cm

PURGE END TIME: 12:20

pH 7.04 su

DISSOLVED O₂ 5.55 ppm

TEMP 12.6 °C

SPECIFIC CONDUCTIVITY 81 us/cm

DEPTH TO H₂O AFTER PURGE AND BEFORE SAMPLING: 11.74 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13 gal

SAMPLE START TIME: 12:21

pH 7.03 su

DISSOLVED O₂ 5.49 ppm

TEMP 12.6 °C

SPECIFIC CONDUCTIVITY 81 us/cm

SAMPLE END TIME: 12:27

COMMENTS: High pH.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected
E : Compound exceeds calibration limit

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

Data File **VB005812.D**
 Operator **Skelton**
 Date Acquired **22 Feb 2000 5:01 pm**

Sample Name **Vblk176**
 Field ID **Vblk176**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk176

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: Vblk176
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005812.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/22/00
 GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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

Data File **VB005841.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 1:57 pm**

Sample Name **Vblk177**
 Field ID **Vblk177**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk177

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Vblk177

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005841.D

Level: (low/med) LOW Date Received: 2/16/00

% Moisture: not dec. _____ Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005830.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 4:56 am**

Sample Name **5181.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5181.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005830.D
Level: (low/med) LOW Date Received: 2/16/00
% Moisture: not dec. _____ Date Analyzed: 2/23/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005831.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 5:36 am**

Sample Name **5181.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5181.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005831.D
Level: (low/med) LOW Date Received: 2/16/00
% Moisture: not dec. _____ Date Analyzed: 2/23/00
GC Column: RTX502, 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005832.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 6:15 am**

Sample Name **5181.03**
 Field ID **Dupe**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	177107	4.83 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.03
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005832.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/23/00
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005833.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 6:55 am**

Sample Name **5181.04**
 Field ID **CW1MW026**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW026

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5181.04
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005833.D
Level: (low/med) LOW Date Received: 2/16/00
% Moisture: not dec. _____ Date Analyzed: 2/23/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005834.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 7:35 am**

Sample Name **5181.05**
 Field ID **CW1MW027**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW027

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.05
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005834.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/23/00
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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

Data File **VB005835.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 8:13 am**

Sample Name **5181.06**
 Field ID **CWIMW028**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethane			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	162257	4.24 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.53	4306019	120.34 ug/L	1	0.23 ug/L	B
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB005838.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 10:11 am**

Sample Name **5181.06**
 Field ID **CWIMW028**
 Sample Multiplier **2**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	3.70 ug/L	
107131	Acrylonitrile			not detected	50	5.56 ug/L	
75650	tert-Butyl alcohol			not detected	nle	17.04 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.32 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	3.36 ug/L	
74-87-3	Chloromethane			not detected	30	2.32 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.12 ug/L	
74-83-9	Bromomethane			not detected	10	2.20 ug/L	
75-00-3	Chloroethane			not detected	nle	2.02 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.48 ug/L	
67-64-1	Acetone			not detected	700	2.72 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.92 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.48 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.32 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.24 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	1.56 ug/L	
78-93-3	2-Butanone			not detected	300	1.24 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	76069	3.91 ug/L	10	0.34 ug/L	D
67-66-3	Chloroform			not detected	6	0.60 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.46 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.94 ug/L	
71-43-2	Benzene			not detected	1	0.46 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.36 ug/L	
79-01-6	Trichloroethene	20.53	1883567	103.32 ug/L	1	0.46 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	0.80 ug/L	
75-27-4	Bromodichloromethane			not detected	1	1.10 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.30 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.38 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.18 ug/L	
108-88-3	Toluene			not detected	1000	0.74 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.74 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.96 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.64 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.42 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.72 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.78 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.30 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.28 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.24 ug/L	
100-42-5	Styrene			not detected	100	1.12 ug/L	
75-25-2	Bromoform			not detected	4	1.40 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.94 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.10 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.14 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.28 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW028

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5181.06
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005835.D
Level: (low/med) LOW Date Received: 2/16/00
% Moisture: not dec. _____ Date Analyzed: 2/23/00
GC Column: RTX502. 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005843.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 3:31 pm**

Sample Name **5181.08**
 Field ID **CW1MW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.53	187804	4.67 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW281

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.08
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005843.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/23/00
 GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005842.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 2:52 pm**

Sample Name **5181.07**
 Field ID **CW1MW029**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	12.55	85531	1.95 ug/L	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	8681887	198.23 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.52	1681518	41.51 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	33.09	76309	1.47 ug/L	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB005859.D**
 Operator **Skelton**
 Date Acquired **24 Feb 2000 2:04 am**

Sample Name **5181.07**
 Field ID **CWIMW029**
 Sample Multiplier **5**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	1.20 ug/L	
67-64-1	Acetone			not detected	700	6.80 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.80 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone			not detected	300	3.10 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	1457207	175.38 ug/L	10	0.85 ug/L	D
67-66-3	Chloroform			not detected	6	1.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene			not detected	1	1.15 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.90 ug/L	
79-01-6	Trichloroethene	20.53	228146	29.61 ug/L	1	1.15 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	2.95 ug/L	
108-88-3	Toluene			not detected	1000	1.85 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene			not detected	1	1.60 ug/L	
591-78-6	2-Hexanone			not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane			not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene			not detected	4	1.95 ug/L	
100-41-4	Ethylbenzene			not detected	700	3.25 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	5.70 ug/L	
1330-20-7	o-Xylene			not detected	nle	3.10 ug/L	
100-42-5	Styrene			not detected	100	2.80 ug/L	
75-25-2	Bromoform			not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	2.35 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	3.20 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW029

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.07
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005842.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/23/00
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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

Data File **VB005844.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 4:10 pm**

Sample Name **5181.09**
 Field ID **CWIMW282**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW282

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.09
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005844.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: not dec. _____ Date Analyzed: 2/23/00
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB005845.D**
 Operator **Skelton**
 Date Acquired **23 Feb 2000 4:50 pm**

Sample Name **5181.10**
 Field ID **CW1MW291**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/h)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW291

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5181 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5181.10

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB005845.D

Level: (low/med) LOW Date Received: 2/16/00

% Moisture: not dec. _____ Date Analyzed: 2/23/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN04209.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **Sblk345**
 Misc Info **Sblk345 A 000222**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BN04209.D
Operator Bhaskar
Date Acquired 23-Feb-00

Sample Name Sblk345
Misc Info Sblk345 A 000222
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzdine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Sblk345

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: Sblk345
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04209.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN04215.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.02**
 Misc Info **Field Blank**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name **BN04215.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.02**
 Misc Info **Field Blank**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6, 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
 D= Value from dilution
 B= Compound in Related Blank
 PQL= Practical Quantitation Limit

MDL= Method Detection Limit
 NLE= No Limit Established
 R.T.=Retention Time

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Field Blank

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.02
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04215.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	29.07	6	J

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

Data File Name **BN04216.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.03**
 Misc Info **Dupe**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04216.D**
Operator **Bhaskar**
Date Acquired **23-Feb-00**

Sample Name **5181.03**
Misc Info **Dupe**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzdine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Dupe

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.03
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04216.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	27.79	8	J

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

Data File Name **BN04217.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.04**
 Misc Info **CW1MW026**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04217.D**
Operator **Bhaskar**
Date Acquired **23-Feb-00**

Sample Name **5181.04**
Misc Info **CW1MW026**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzoflanthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW026

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.04
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04217.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	25.83	11	J
2.	unknown	29.10	48	J
3.	unknown	29.26	22	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN04218.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.05**
 Misc Info **CWIMW027**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04218.D**
Operator **Bhaskar**
Date Acquired **23-Feb-00**

Sample Name **5181.05**
Misc Info **CWIMW027**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW027

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.05
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04218.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	27.88	67	J

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

Data File Name **BN04219.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.06**
 Misc Info **CW1MW028**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report

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Data File Name **BN04219.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.06**
 Misc Info **CWIMW028**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
 D= Value from dilution
 B= Compound in Related Blank
 PQL= Practical Quantitation Limit

MDL= Method Detection Limit
 NLE= No Limit Established
 R.T.=Retention Time

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW028

Lab Name: FMETL Lab Code 13461
Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
Matrix: (soil/water) WATER Lab Sample ID: 5181.06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04219.D
Level: (low/med) LOW Date Received: 2/16/00
% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	28.64	26	J

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

Data File Name **BN04221.D**
 Operator **Bhaskar**
 Date Acquired **24-Feb-00**

Sample Name **5181.08**
 Misc Info **CW1MW281**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04221.D**
Operator **Bhaskar**
Date Acquired **24-Feb-00**

Sample Name **5181.08**
Misc Info **CWIMW281**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW281

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.08
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04221.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name BN04222.D
 Operator Bhaskar
 Date Acquired 24-Feb-00

Sample Name 5181.09
 Misc Info CW1MW282
 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report Page 2

Data File Name BN04222.D
Operator Bhaskar
Date Acquired 24-Feb-00

Sample Name 5181.09
Misc Info CW1MW282
Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzdine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW282

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.09
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04222.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	25.83	10	J
2.	unknown	29.10	36	J
3.	unknown	29.25	20	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN04223.D**
 Operator **Bhaskar**
 Date Acquired **24-Feb-00**

Sample Name **5181.10**
 Misc Info **CW1MW291**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

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

Data File Name **BN04220.D**
 Operator **Bhaskar**
 Date Acquired **23-Feb-00**

Sample Name **5181.07**
 Misc Info **CWIMW029**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0.82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene	10.45	26895	1.67 ug/L	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04220.D**
Operator **Bhaskar**
Date Acquired **23-Feb-00**

Sample Name **5181.07**
Misc Info **CW1MW029**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW029

Lab Name: FMETL Lab Code 13461
 Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5181.07
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04220.D
 Level: (low/med) LOW Date Received: 2/16/00
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/23/00
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report
Page 2

Data File Name **BN04223.D**
Operator **Bhaskar**
Date Acquired **24-Feb-00**

Sample Name **5181.10**
Misc Info **CWIMW291**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

CW1MW291

Lab Name: FMETL Lab Code 13461

Project: 100004 Case No.: 5181 Location: CW1 SDG No: _____

Matrix: (soil/water) WATER Lab Sample ID: 5181.10

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN04223.D

Level: (low/med) LOW Date Received: 2/16/00

% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/24/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	27.86	58	J

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 # :	5181.02
		Date Rec'd:	2/16/00
		Extraction Date:	2/23/00
		Analysis Date:	3/1/00
Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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 # :	5181.03
		Date Rec'd:	2/16/00
		Extraction Date:	2/23/00
		Analysis Date:	3/1/00
Analysis:	BPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	Dupe
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

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

Client :	U.S. Army	Lab. ID # :	5181.06
	DPW, SELFM-PW-EV	Date Rec'd:	2/16/00
	Bldg. 173	Extraction Date:	2/23/00
	Ft. Monmouth, NJ 07703	Analysis Date:	3/1/00

Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	CW1MW028
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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

Client :	U.S. Army	Lab. ID # :	5181.07
	DPW, SELFM-PW-EV	Date Rec'd:	2/16/00
	Bldg. 173	Extraction Date:	2/23/00
	Ft. Monmouth, NJ 07703	Analysis Date:	3/1/00
Analysis:	EPA Method 608	Location :	CW1
Matrix:	Aqueous		
Analyst:	T. Frankovich	Field ID:	CW1MW029
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

MDL = Method Detection Limit

NLE = No Limit Established

PQL = Practical Quantitation Limit

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

Column-Confirmation: Rtx-CLPesticides 2 30m/.32mm ID/.25um

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 #: 5181.03
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Dupe

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	75.2	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	34000	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	46.7	1000	3.0
Iron	03/29/00	639	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	4890	NLE	20.0
Manganese	03/29/00	163	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	1.09	100	0.5
Potassium	03/29/00	6430	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	13500	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	53.4	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181
 Sample Prepared: 03/28/00

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Method Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	80.1	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	23.3	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	28.3	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	171	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	1030	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	55.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.02
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	ND	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	ND	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	ND	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	249	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	413	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.04
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW026

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	10.2	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	3360	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	48.7	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	734	NLE	20.0
Manganese	03/29/00	5.49	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	0.835	100	0.5
Potassium	03/29/00	2840	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	7290	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	13.7	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.05
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW027

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	148	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	20.0	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	3290	NLE	20.0
Chromium	03/29/00	1.17	100	0.5
Cobalt	03/29/00	1.23	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	401	300	10.0
Lead	03/29/00	2.96	10	2.0
Magnesium	03/29/00	1440	NLE	20.0
Manganese	03/29/00	10.5	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	3.56	100	0.5
Potassium	03/29/00	4290	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	14200	50000	20.0
Thallium	03/29/00	10.2	10	3.0
Vanadium	03/29/00	1.88	NLE	1.0
Zinc	03/29/00	57.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.06
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW028

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	506	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	25.0	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	5830	NLE	20.0
Chromium	03/29/00	2.05	100	0.5
Cobalt	03/29/00	2.34	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	851	300	10.0
Lead	03/29/00	6.46	10	2.0
Magnesium	03/29/00	1930	NLE	20.0
Manganese	03/29/00	22.7	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	4.57	100	0.5
Potassium	03/29/00	4340	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	17000	50000	20.0
Thallium	03/29/00	3.36	10	3.0
Vanadium	03/29/00	3.51	NLE	1.0
Zinc	03/29/00	73.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.07
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW029

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	304	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	19.9	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	7800	NLE	20.0
Chromium	03/29/00	1.22	100	0.5
Cobalt	03/29/00	0.886	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	1460	300	10.0
Lead	03/29/00	3.42	10	2.0
Magnesium	03/29/00	2090	NLE	20.0
Manganese	03/29/00	18.5	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	3.00	100	0.5
Potassium	03/29/00	4400	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	14900	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	3.59	NLE	1.0
Zinc	03/29/00	52.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.08
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW281

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	75.4	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	0.643	4	0.5
Calcium	03/29/00	34600	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	43.6	1000	3.0
Iron	03/29/00	414	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	4940	NLE	20.0
Manganese	03/29/00	163	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	1.31	100	0.5
Potassium	03/29/00	6410	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	14000	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	70.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.09
 Sample Received: 02/16/0
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW282

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	297	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	36.6	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	7000	NLE	20.0
Chromium	03/29/00	0.877	100	0.5
Cobalt	03/29/00	0.941	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	443	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	1300	NLE	20.0
Manganese	03/29/00	16.1	50	0.5
Mercury	03/06/00	ND	2	0.1
Nickel	03/29/00	75.1	100	0.5
Potassium	03/29/00	1570	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	11800	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	1.84	NLE	1.0
Zinc	03/29/00	68.1	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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 #: 5181.10
 Sample Received: 02/16/00
 Sample Matrix: Aqueous

Site: CW-1
 Ft. Monmouth, New Jersey

Field ID#: CW1MW291

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	Regulatory Level (ug/L)*	MDL (ug/L)
Aluminum	03/29/00	100	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	50.3	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	4540	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	1.47	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	52.1	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	1490	NLE	20.0
Manganese	03/29/00	8.20	50	0.5
Mercury	03/06/00	0.2	2	0.1
Nickel	03/29/00	4.32	100	0.5
Potassium	03/29/00	14200	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	9890	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	39.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
 * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

SOURCE: CW1MW026		Sampling Dates: 04/23/1997 - 02/16/2000		NOTES:							
Units:	Lab	Acetone	2-Butan one	Trichloro ethene	Di-n-butyl pthalate	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
NJDEP Criteria:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
04/23/1997	FMETL	ND	ND	ND	ND	ND	23	50	ND	8.60	V,S,P,M
07/07/1997	FMETL	ND	ND	ND	61	67	33	10	30	8.98	V,S,P,M
10/01/1997	FMETL	ND	ND	ND	ND	127	12	153	ND	9.45	V,S,P,M
01/06/1998	FMETL	ND	ND	ND	16.8	614	12	159	ND	9.05	V,S,P,M
06/16/1998	FMETL	ND	ND	1.10	ND	700	10.4	1400	ND	8.61	V,S,P,M
08/13/1998	FMETL	12.48	5.49	ND	ND	1410	20.7	2730	ND	9.16	V,S,P,M
12/15/1998	FMETL	ND	ND	ND	ND	158	8.11	105	ND	10.18	V,S,P,M
03/23/1999	FMETL	ND	ND	ND	ND	198	8.53	423	ND	9.07	V,S,P,M
05/27/1999	FMETL	ND	ND	ND	ND	576	7.67	795	ND	9.42	V,S,P,M
08/11/1999	FMETL	ND	ND	ND	ND	239	8.92	375	ND	9.89	V,S,P,M
11/10/1999	FMETL	ND	ND	ND	ND	163	9.54	478	ND	9.70	V,S,P,M
02/16/2000	FMETL	ND	ND	ND	ND	ND	5.49	48.7	ND	9.44	V,S,P,M

FORT MONMOUTH

GW MONITORING
CW-1

Well 1 of 7

Ag > GW Criteria in blank for samples taken 7/97.



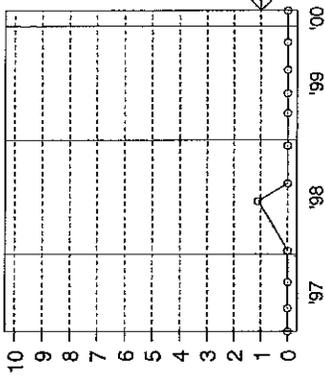
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW026

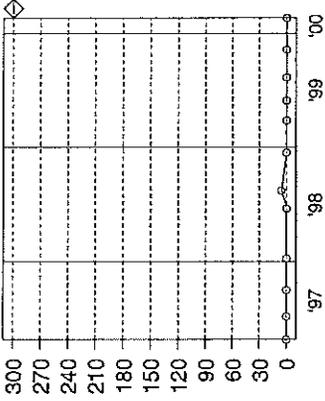
Sampling Dates:

04/23/1997 - 02/16/2000

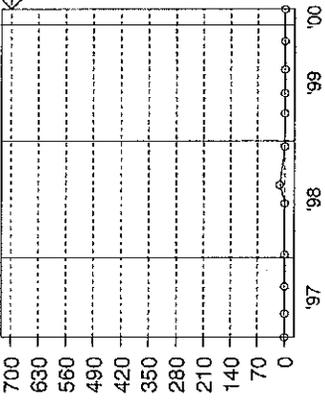
Trichloroethene (ug/l)



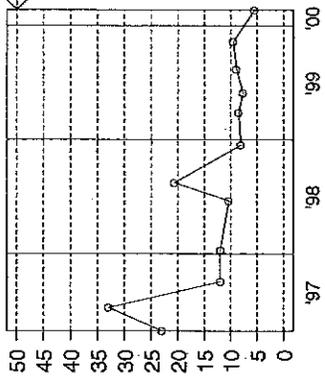
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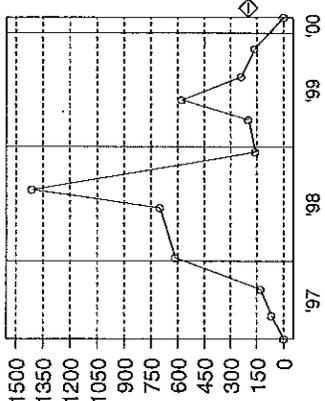
Acetone (ug/l)



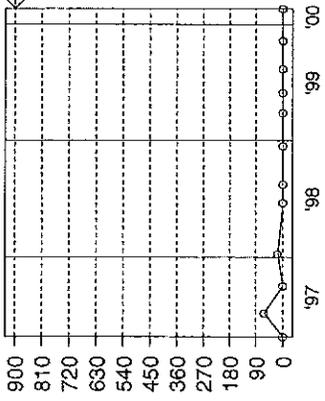
Manganese (ug/l)



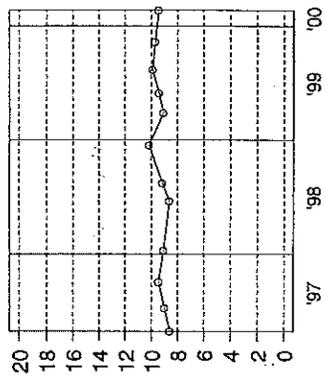
Aluminum (ug/l)



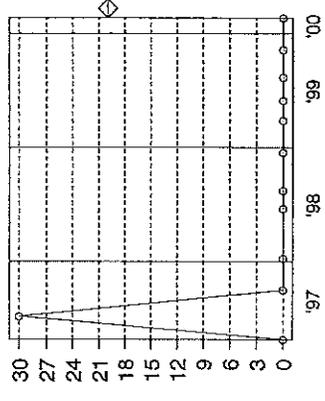
Di-n-butylphthalate (ug/l)



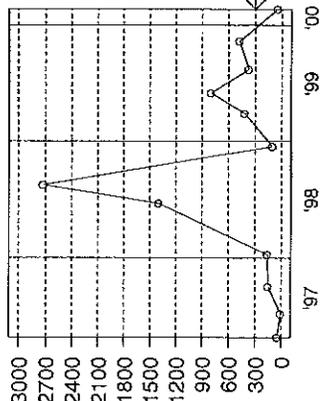
Depth to Water (Feet)



Silver (ug/l)



Iron (ug/l)



LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 1 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Lab	Acetone	Di-n-butyl phthalate	Aluminum	Manganese	Iron	Silver	Depth to Water	Notes
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NUDEP Criteria:	700	900	200	50	300	20	-	-
04/23/1997	ND	ND	ND	17	30	ND	8.60	V,S,P,M
07/07/1997	ND	31	90	30	30	31	9.00	V,S,P,M
10/01/1997	ND	ND	169	10	74	ND	9.50	V,S,P,M
01/06/1998	ND	7.5	105	10.6	62	ND	8.95	V,S,P,M
06/16/1998	ND	ND	149	7.7	188	ND	8.38	V,S,P,M
08/13/1998	12.14	ND	1540	19.2	2050	ND	8.98	V,S,P,M
12/15/1998	ND	ND	172	10.4	55.7	ND	10.13	V,S,P,M
03/23/1999	ND	ND	175	11.7	236	ND	8.93	V,S,P,M
05/27/1999	ND	ND	422	4.92	546	ND	9.30	V,S,P,M
08/11/1999	ND	ND	95.3	5.38	66.8	ND	9.84	V,S,P,M
11/10/1999	ND	ND	65.1	5.35	19.7	ND	9.66	V,S,P,M
02/16/2000	ND	ND	148	10.5	401	ND	9.37	V,S,P,M

SOURCE: CW1MW027

Sampling Dates:

04/23/1997 - 02/16/2000

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 2 of 7

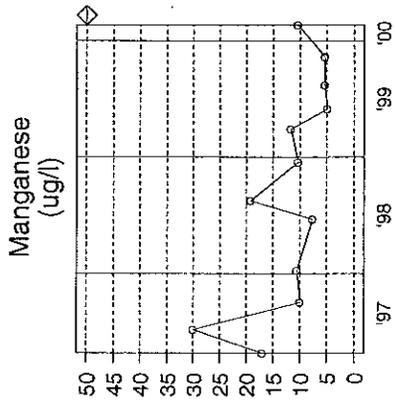
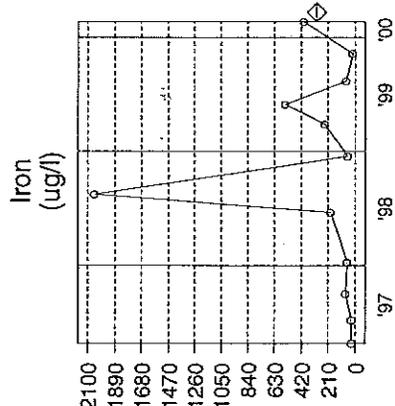
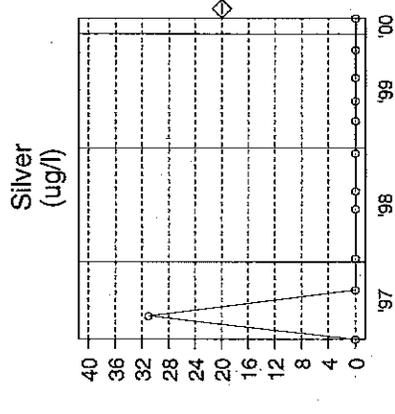
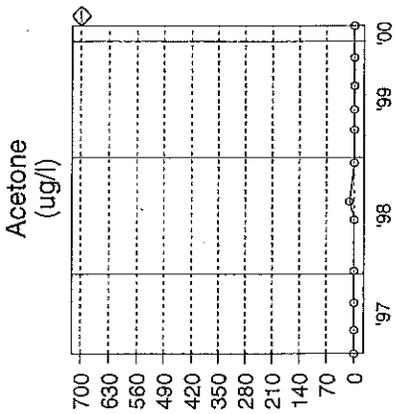
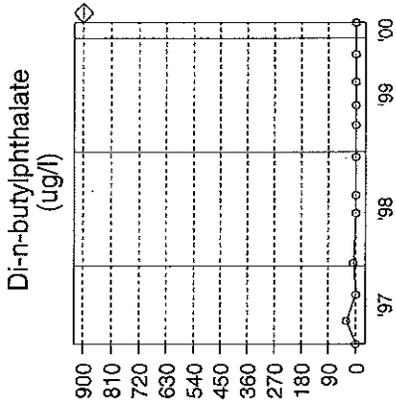
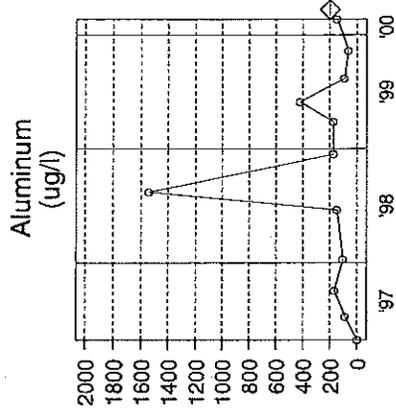
Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

SOURCE: CW1MW027

Sampling Dates:
04/23/1997 - 02/16/2000



LEGEND:

PARAMETER
o = Date Sampled
◇ = NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 2 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Acetone	2-Butan one	Trichloro ethene	cis-1,2-Di chloro ethene	Di-n-butyl phthalate	Aluminum	Manganese	Arsenic	Iron	Notes
-	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	-
NJDEP Criteria:	-	700	300	1	10	900	200	50	8	300	-
04/23/1997	FMETL	ND	ND	ND	ND	ND	300	30	2.0	10	V,S,P,M
07/07/1997	FMETL	ND	ND	ND	ND	50	277	67	ND	40	V,S,P,M
10/01/1997	FMETL	ND	ND	59.4	ND	ND	ND	ND	ND	ND	V,S,P,M
01/06/1998	FMETL	ND	ND	27.7	ND	ND	426	30.4	ND	147	V,S,P,M
06/16/1998	FMETL	ND	ND	ND	ND	ND	1327	14.8	ND	1859	V,S,P,M
08/13/1998	FMETL	5.07	2.13	ND	ND	ND	459	13.3	ND	798	V,S,P,M
12/15/1998	FMETL	ND	ND	33.9	ND	ND	641	18.9	ND	518	V,S,P,M
03/23/1999	FMETL	ND	ND	7.15	ND	ND	306	25.5	ND	136	V,S,P,M
05/27/1999	FMETL	ND	ND	3.10	ND	ND	760	20	ND	767	V,S,P,M
08/11/1999	FMETL	ND	ND	297.82	1.59	ND	503	24.5	ND	428	V,S,P,M
11/10/1999	FMETL	ND	ND	174.48	25.4	ND	448	21.9	ND	544	V,S,P,M
02/16/2000	FMETL	ND	ND	103.32	4.24	ND	506	22.7	ND	851	V,S,P,M

SOURCE: CW1MW028

Sampling Dates:

04/23/1997 - 02/16/2000

NOTES:

Page 1 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7

Ag > GW Criteria in blank for samples taken 7/97.

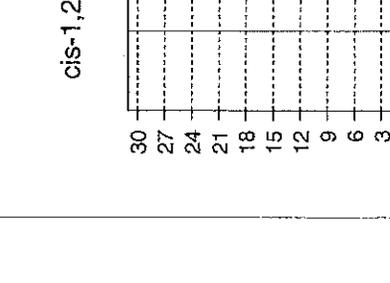
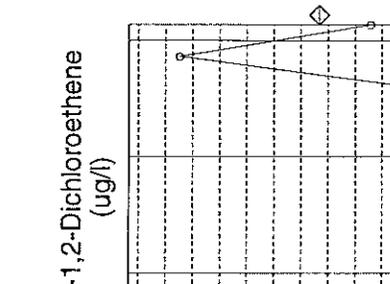
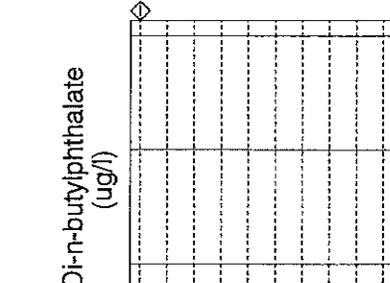
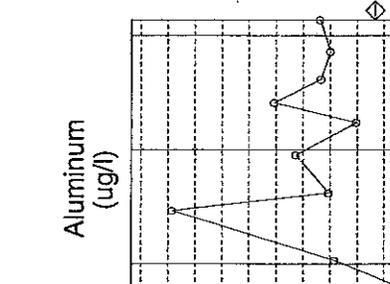
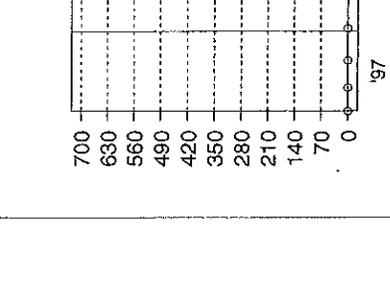
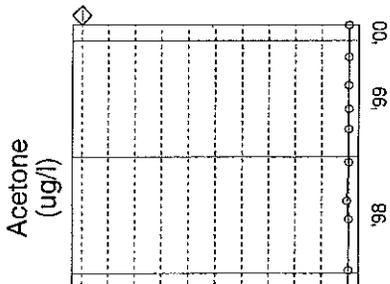
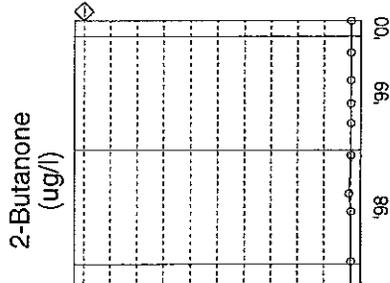
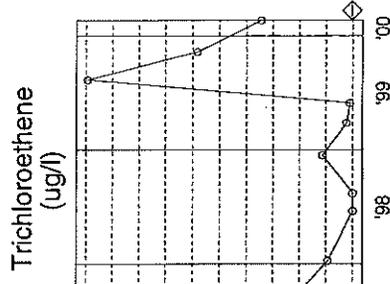


U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

SOURCE: CW1MW028

Sampling Dates:

04/23/1997 - 02/16/2000



LEGEND:

PARAMETER

- o = Date Sampled

◇ NUDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Silver	Depth to Water	Notes
NJDEP Criteria:	-	ug/l	Feet	-
04/23/1997	FMETL	ND	9.05	V,S,P,M
07/07/1997	FMETL	30	9.20	V,S,P,M
10/01/1997	FMETL	ND	9.70	V,S,P,M
01/06/1998	FMETL	ND	9.40	V,S,P,M
06/16/1998	FMETL	ND	8.84	V,S,P,M
08/13/1998	FMETL	ND	9.51	V,S,P,M
12/15/1998	FMETL	ND	10.63	V,S,P,M
03/23/1999	FMETL	ND	9.38	V,S,P,M
05/27/1999	FMETL	ND	9.79	V,S,P,M
08/11/1999	FMETL	ND	10.32	V,S,P,M
11/10/1999	FMETL	6.03	10.13	V,S,P,M
02/16/2000	FMETL	ND	9.84	V,S,P,M

SOURCE: CW1MW028

Sampling Dates:

04/23/1997 - 02/16/2000

NOTES:

Page 2 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7

Ag > GW Criteria in blank for samples taken 7/97.



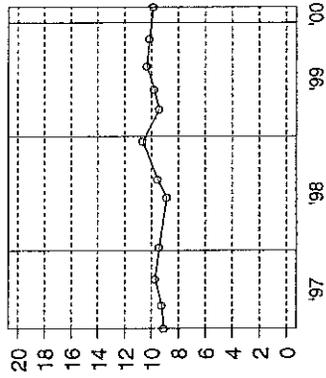
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW028

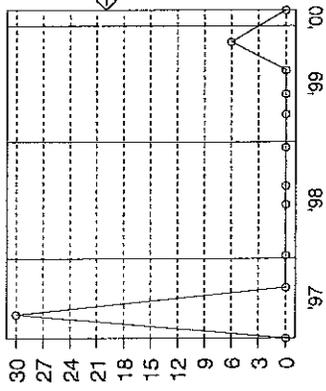
Sampling Dates:

04/23/1997 - 02/16/2000

Depth to Water
(Feet)



Silver
(ug/l)



LEGEND:

PARAMETER

- o = Date Sampled



NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 3 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	1,1-Di chloro ethene	Acetone	2-Butan one	Trichloro ethene	1,2,4-Tri chloro benzene	cis-1,2-Di chloro ethene	Tetrachloro ethene	1,4-Di chloro benzene	Di-n-butyl phthalate	Notes
NJDEP Criteria:	-	ug/l 2	ug/l 700	ug/l 300	ug/l 1	ug/l 9	ug/l 10	ug/l 1	ug/l 75	ug/l 900	-
04/23/1997	FMETL	ND	ND	ND	3200	1.55	47	1.74	ND	ND	V,S,P,M
07/07/1997	FMETL	ND	ND	ND	4900	ND	92	7.75	4.6	68	V,S,P,M
10/01/1997	FMETL	ND	ND	ND	7820	ND	290	5.75	3.46	ND	V,S,P,M
01/06/1998	FMETL	ND	ND	ND	1705	ND	67	ND	ND	ND	V,S,P,M
06/16/1998	FMETL	ND	ND	ND	83.11	ND	11.97	ND	ND	ND	V,S,P,M
08/13/1998	FMETL	ND	9.76	4.36	498	3.98	88	ND	ND	ND	V,S,P,M
12/12/1998	FMETL	ND	ND	ND	374.58	ND	161.61	ND	ND	ND	V,S,P,M
03/23/1999	FMETL	ND	ND	ND	1342	4.27	126.68	ND	ND	ND	V,S,P,M
05/27/1999	FMETL	ND	ND	ND	950.05	5.08	75.55	ND	1.03	ND	V,S,P,M
08/11/1999	FMETL	ND	ND	ND	288.11	ND	523.43	ND	ND	ND	V,S,P,M
11/10/1999	FMETL	1.67	ND	ND	62.96	5.44	746.30	ND	4.05	ND	V,S,P,M
02/16/2000	FMETL	ND	ND	ND	41.51	1.67	175.38	ND	ND	ND	V,S,P,M

SOURCE: CW1MW029

Sampling Dates:

04/23/1997 - 02/16/2000

NOTES:

Page 1 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7

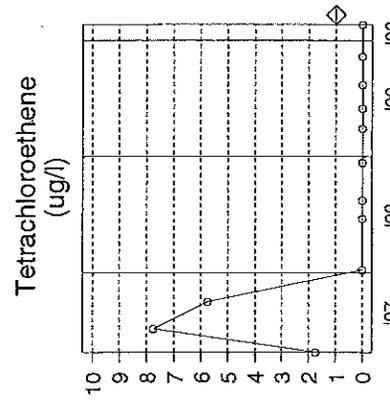
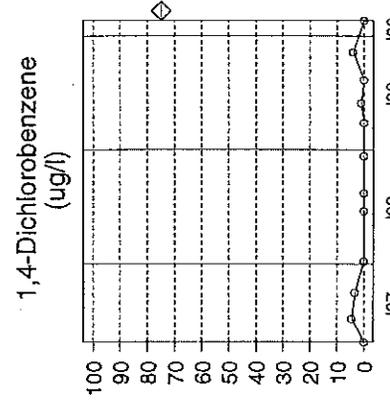
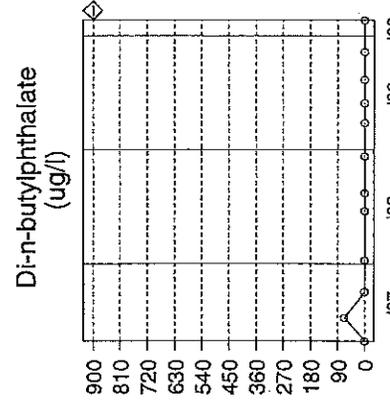
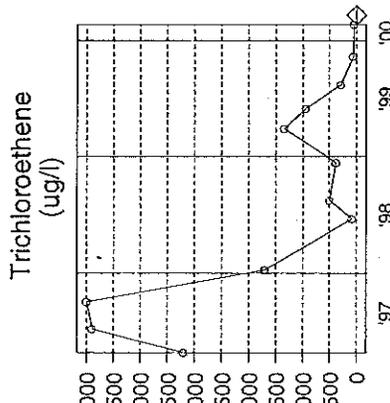
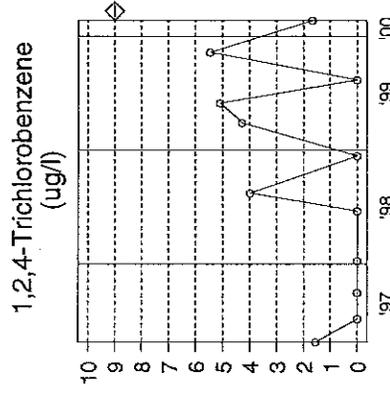
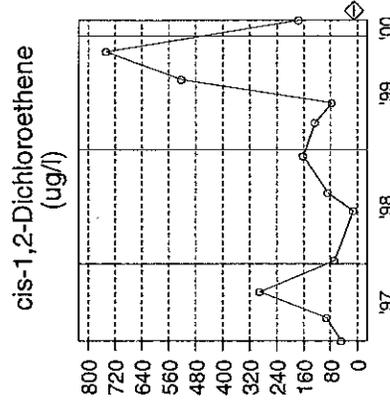
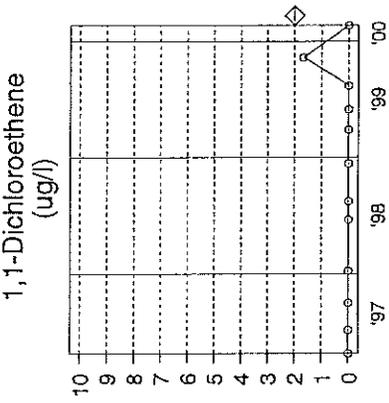
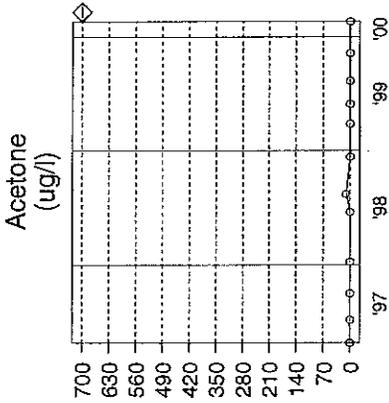
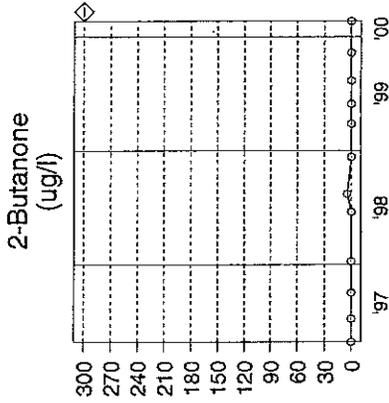
Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW029

Sampling Dates:
04/23/1997 - 02/16/2000



LEGEND:

PARAMETER

o = Date
Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELFM-PW-EV

Lab	Butyl benzyl phthalate	Aluminum	Manganese	Arsenic	Iron	Silver	Depth to Water	Notes
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	100	200	50	8	300	20	-	-
04/23/1997	ND	ND	11	2.0	10	ND	8.90	V,S,P,M
07/07/1997	34	102	51	ND	40	30	9.30	V,S,P,M
10/01/1997	ND	213	16	ND	182	ND	9.98	V,S,P,M
01/06/1998	ND	232	15.5	ND	168	ND	9.10	V,S,P,M
06/16/1998	ND	322	14.5	ND	627	ND	8.67	V,S,P,M
08/13/1998	ND	100	21.3	ND	691	ND	9.26	V,S,P,M
12/12/1998	ND	195	23.9	ND	296	ND	10.30	V,S,P,M
03/23/1999	ND	61.6	18.5	ND	177	ND	9.90	V,S,P,M
05/27/1999	ND	372	20.5	ND	880	ND	9.59	V,S,P,M
08/11/1999	ND	83.0	22.1	ND	438	ND	10.00	V,S,P,M
11/10/1999	ND	52.6	19.6	ND	280	ND	9.81	V,S,P,M
02/16/2000	ND	304	18.5	ND	1460	ND	9.54	V,S,P,M

SOURCE: CW1MW029

Sampling Dates:
04/23/1997 - 02/16/2000

NOTES:

Page 2 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7

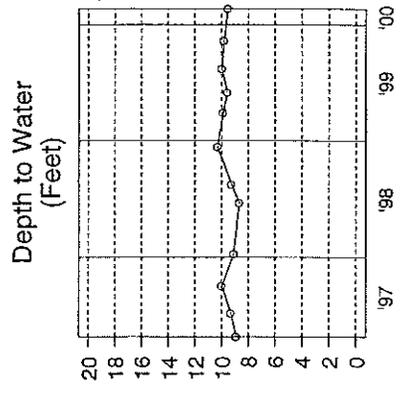
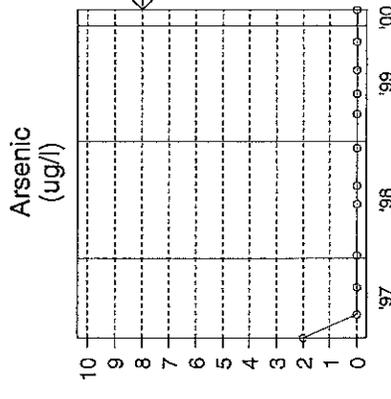
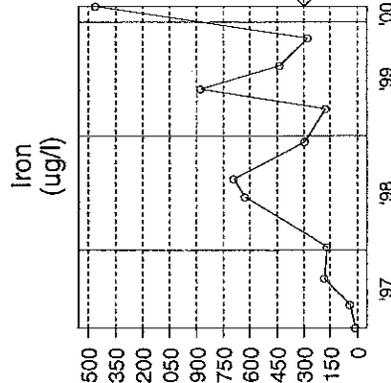
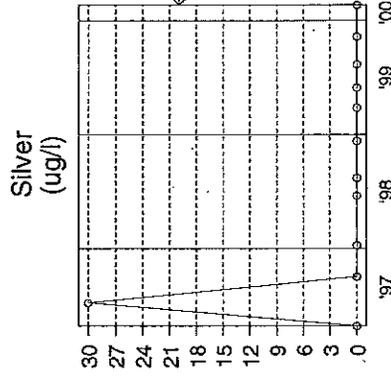
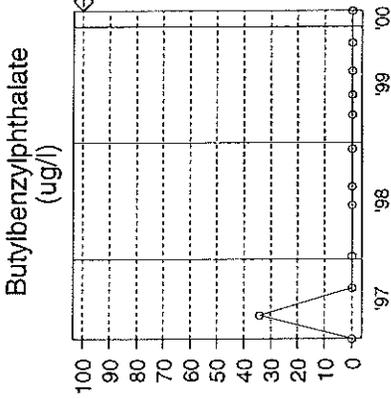
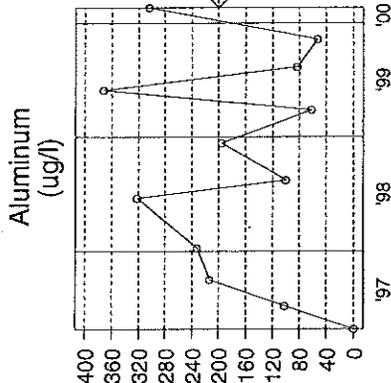
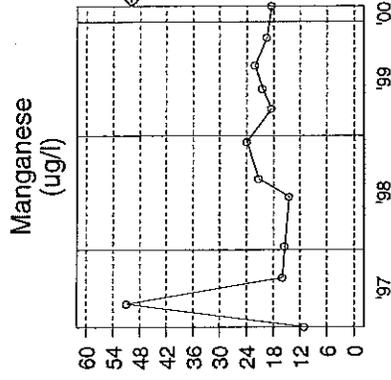
Ag > GW Criteria in blank for samples taken 7/97.



SOURCE: CW1MMW029

Sampling Dates:

04/23/1997 - 02/16/2000



LEGEND:

PARAMETER

o = Date
Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 4 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	2-Butan one	Trichloro ethene	cis-1,2-Di chloro ethene	Aluminum	Manganese	Arsenic	Iron	Silver	Depth to Water	Notes
	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:	-	300	1	10	200	50	8	300	20	-	-
04/22/1997	FMETL	ND	ND	ND	ND	458	3.0	29600	ND	11.10	V,S,P,M
07/09/1997	FMETL	ND	190	2.45	51	231	2.0	36000	5.0	12.30	V,S,P,M
10/02/1997	FMETL	ND	42	ND	137	150	ND	26700	ND	12.80	V,S,P,M
01/07/1998	FMETL	ND	10.6	ND	28	131	ND	24990	ND	10.80	V,S,P,M
06/18/1998	FMETL	ND	27.96	ND	ND	162	ND	28550	ND	10.98	V,S,P,M
08/13/1998	FMETL	4.16	45	ND	22.8	177	ND	27600	ND	12.57	V,S,P,M
12/15/1998	FMETL	ND	6.1	ND	ND	166	ND	1600	ND	13.87	V,S,P,M
03/23/1999	FMETL	ND	14.87	ND	ND	188	ND	17700	ND	11.25	V,S,P,M
05/27/1999	FMETL	ND	12.08	ND	ND	194	ND	44000	ND	12.07	V,S,P,M
08/11/1999	FMETL	ND	3.29	ND	ND	166	ND	26300	ND	13.75	V,S,P,M
11/10/1999	FMETL	ND	6.19	ND	ND	146	ND	4100	ND	12.75	V,S,P,M
02/16/2000	FMETL	ND	4.67	ND	ND	163	ND	414	ND	11.96	V,S,P,M
02/16/2000D	FMETL	ND	4.83	ND	ND	163	ND	639	ND	11.96	V,S,P,M

SOURCE: CW1MW281

Sampling Dates:

04/22/1997 - 02/16/2000

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 5 of 7

Ag > GW Criteria in blank for samples taken 7/97.



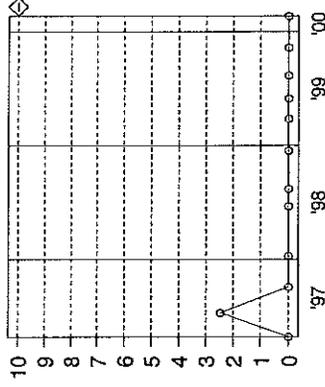
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW281

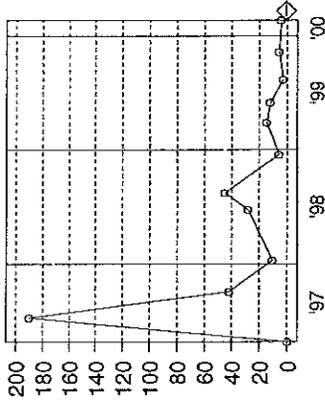
Sampling Dates:

04/22/1997 - 02/16/2000

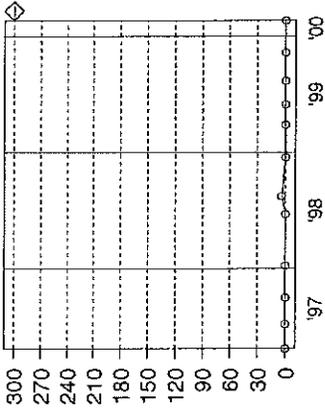
cis-1,2-Dichloroethene (ug/l)



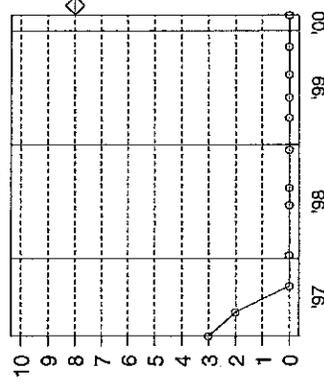
Trichloroethene (ug/l)



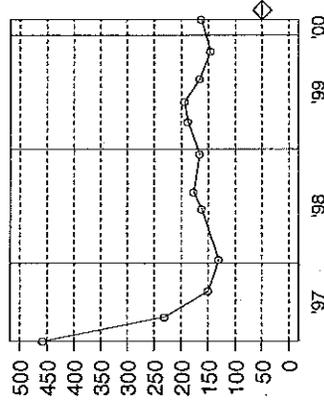
2-Butanone (ug/l)



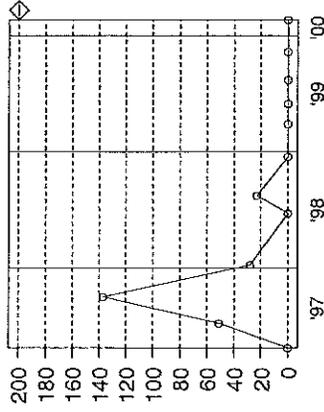
Arsenic (ug/l)



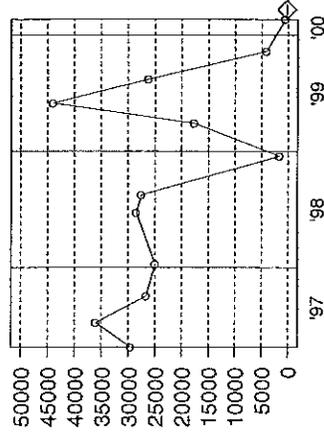
Manganese (ug/l)



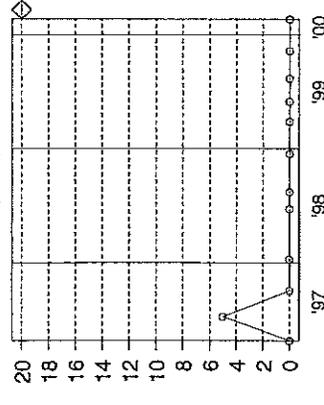
Aluminum (ug/l)



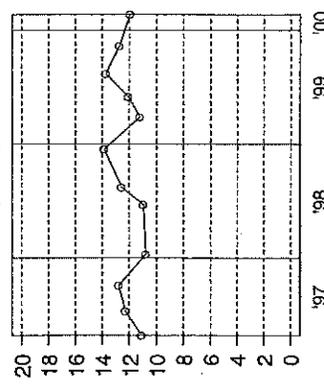
Iron (ug/l)



Silver (ug/l)



Depth to Water (Feet)



LEGEND:

PARAMETER

o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 5 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Di-n-butyl phthalate	Aluminum	Manganese	Arsenic	Iron	Silver	Depth to Water	Notes
NJDEP Criteria:	-	ug/l 900	ug/l 200	ug/l 50	ug/l 8	ug/l 300	ug/l 20	Feet -	-
04/22/1997	FMETL	ND	ND	6.0	1.0	ND	ND	8.30	V,S,P,M
07/09/1997	FMETL	6.07	50	29	ND	20	3.0	8.85	V,S,P,M
10/02/1997	FMETL	ND	153	19	ND	665	ND	9.40	V,S,P,M
01/07/1998	FMETL	8.52	265	8.1	ND	246	ND	8.85	V,S,P,M
06/18/1998	FMETL	ND	3291	10.1	ND	1513	ND	7.97	V,S,P,M
08/13/1998	FMETL	ND	2250	8.49	ND	1110	ND	8.79	V,S,P,M
12/15/1998	FMETL	ND	61.4	28.4	ND	43.8	ND	10.04	V,S,P,M
03/23/1999	FMETL	ND	247	20.9	ND	495	ND	8.59	V,S,P,M
05/27/1999	FMETL	ND	526	5.44	ND	640	ND	9.10	V,S,P,M
08/11/1999	FMETL	ND	539	34.5	ND	447	ND	9.79	V,S,P,M
11/10/1999	FMETL	ND	137	23.7	ND	210	ND	9.58	V,S,P,M
02/16/2000	FMETL	ND	297	16.1	ND	443	ND	9.19	V,S,P,M

SOURCE: CW1MW282

Sampling Dates:

04/22/1997 - 02/16/2000

NOTES:

FORT MONMOUTH

GW MONITORING
CW-1

Well 6 of 7

Ag > GW Criteria in blank for samples taken 7/97.

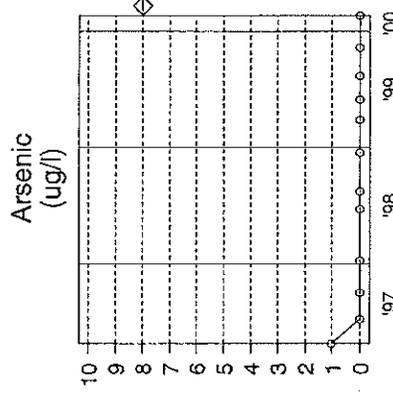
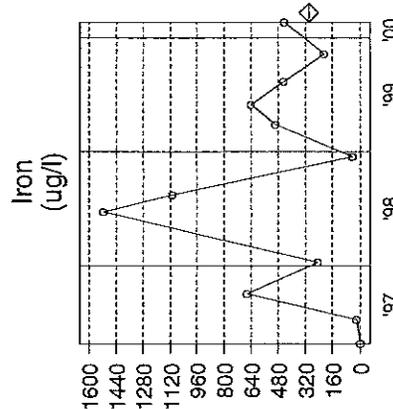
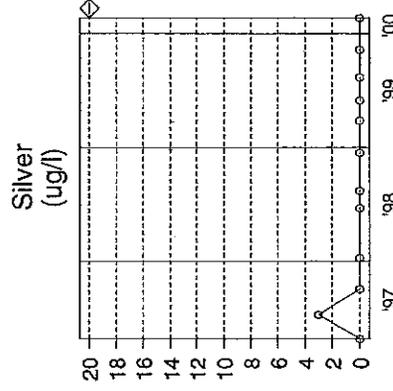
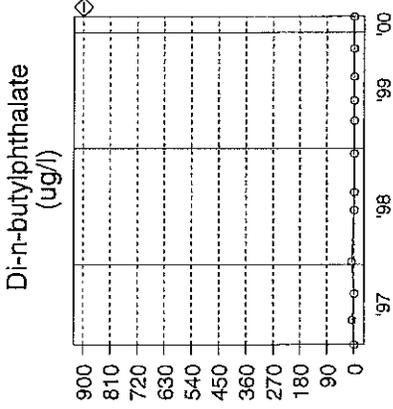
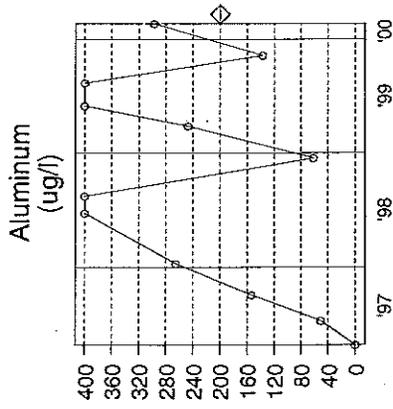
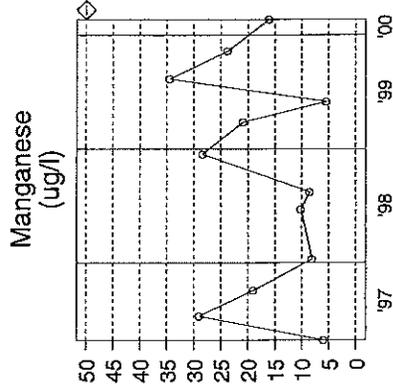


U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW282

Sampling Dates:

04/22/1997 - 02/16/2000



LEGEND:

PARAMETER

- o = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 6 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Acetone	2-Butanone	Di-n-butyl phthalate	Chloroform	Bromochloromethane	Aluminum	Manganese	Arsenic	Iron	Notes
NJDEP Criteria:	-	ug/l 700	ug/l 300	ug/l 900	ug/l 6	ug/l 1	ug/l 200	ug/l 50	ug/l 8	ug/l 300	-
04/22/1997	FMETL	ND	ND	ND	ND	ND	ND	5.0	1.0	20	V,S,P,M
07/09/1997	FMETL	ND	ND	2.74	ND	ND	69	34	ND	50	V,S,P,M
10/02/1997	FMETL	ND	ND	ND	ND	ND	164	20	ND	478	V,S,P,M
01/07/1998	FMETL	ND	ND	1.04	ND	ND	155	13.7	ND	144	V,S,P,M
06/18/1998	FMETL	ND	ND	ND	ND	ND	1538	28.5	ND	1876	V,S,P,M
08/13/1998	FMETL	5.98	2.28	ND	ND	ND	986	19.8	ND	1280	V,S,P,M
12/15/1998	FMETL	ND	ND	ND	7.41	1.79	375	14.3	ND	176	V,S,P,M
03/23/1999	FMETL	ND	ND	ND	ND	ND	52.7	13.8	ND	43.7	V,S,P,M
05/27/1999	FMETL	ND	ND	ND	ND	ND	752	8.00	ND	907	V,S,P,M
08/11/1999	FMETL	ND	ND	ND	16.13	4.37	405	16.6	ND	132	V,S,P,M
11/10/1999	FMETL	ND	ND	ND	ND	ND	260	11.7	ND	135	V,S,P,M
02/16/2000	FMETL	ND	ND	ND	ND	ND	100	8.2	ND	52.1	V,S,P,M

SOURCE: CW11MW291

Sampling Dates:

04/22/1997 - 02/16/2000

NOTES:

Page 1 of 2.

FORT MONMOUTH

GW MONITORING
CW-1

Well 7 of 7

Ag > GW Criteria in blank for samples taken 7/97.



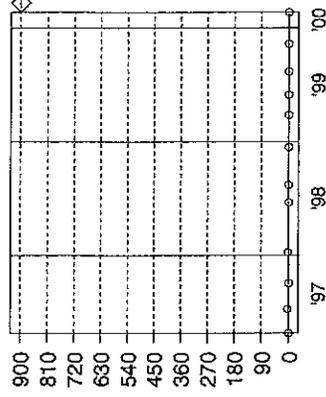
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

SOURCE: CW1MW291

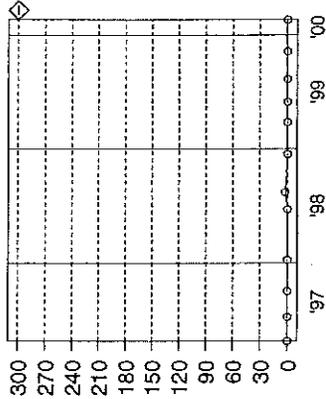
Sampling Dates:

04/22/1997 - 02/16/2000

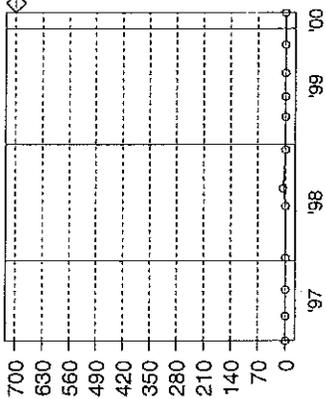
Di-n-butylphthalate (ug/l)



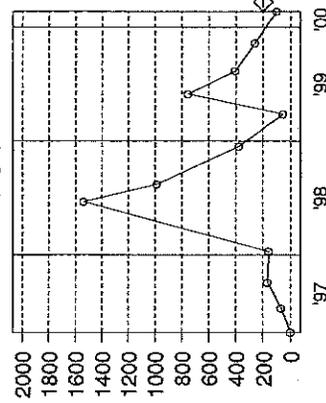
2-Butanone (ug/l)



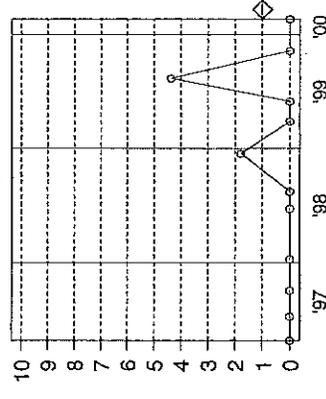
Acetone (ug/l)



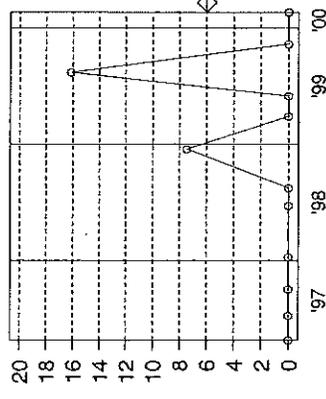
Aluminum (ug/l)



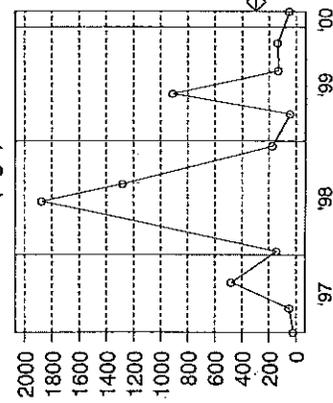
Bromodichloromethane (ug/l)



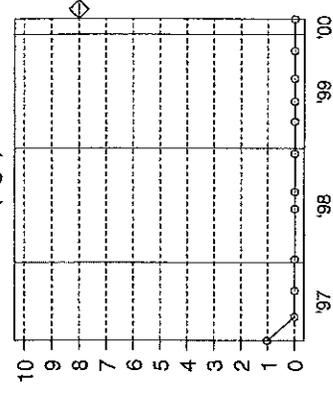
Chloroform (ug/l)



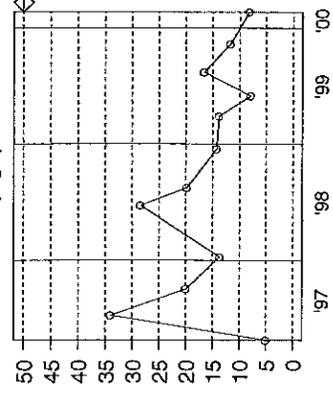
Iron (ug/l)



Arsenic (ug/l)



Manganese (ug/l)



LEGEND:

PARAMETER

o = Date Sampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 7 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

Units:	Lab	Silver	Depth to Water	Notes
NJDEP Criteria:	-	ug/l	Feet	-
04/22/1997	FMETL	ND	11.15	V,S,P,M
07/09/1997	FMETL	3.0	11.40	V,S,P,M
10/02/1997	FMETL	ND	11.70	V,S,P,M
01/07/1998	FMETL	ND	11.40	V,S,P,M
06/18/1998	FMETL	ND	10.89	V,S,P,M
08/13/1998	FMETL	ND	11.39	V,S,P,M
12/15/1998	FMETL	ND	12.21	V,S,P,M
03/23/1999	FMETL	ND	11.28	V,S,P,M
05/27/1999	FMETL	ND	11.54	V,S,P,M
08/11/1999	FMETL	ND	11.97	V,S,P,M
11/10/1999	FMETL	ND	11.79	V,S,P,M
02/16/2000	FMETL	ND	11.61	V,S,P,M

SOURCE: CW1MW291

Sampling Dates:
04/22/1997 - 02/16/2000

NOTES:
Page 2 of 2.

FORT MONMOUTH

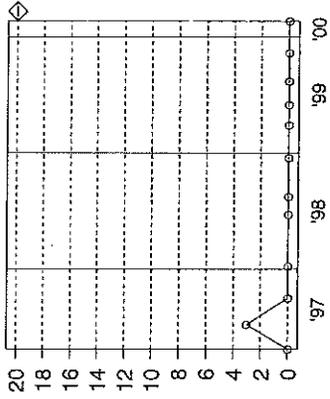
GW MONITORING
CW-1

Well 7 of 7

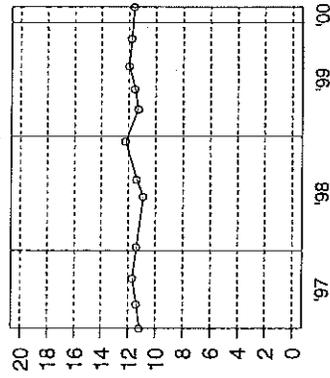
Ag > GW Criteria in blank for samples taken 7/97.



Silver
(ug/l)



Depth to Water
(Feet)



SOURCE: CW1MW291

Sampling Dates:
04/22/1997 - 02/16/2000

LEGEND:

PARAMETER

- = Date Sampled

◇ NJDEP Criteria

FORT MONMOUTH

GW MONITORING
CW-1

Well 7 of 7, Graph

Ag > GW Criteria in blank for samples taken 7/97.



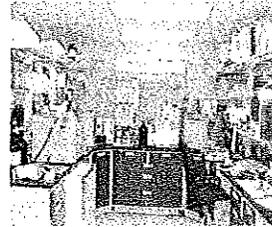
U.S. ARMY
FORT MONMOUTH
SELF-M-PW-EV

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT

FOR

Directorate of Public Works

Fort Monmouth, NJ 07703

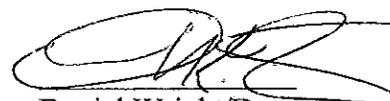
PROJECT : Charles Wood Courtyard Area

SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-1

LABORATORY ID #	MONITOR WELL#	SAMPLE DATE
5268.01	Trip Blank	03/21/00
5268.02	Field Blank	03/21/00
5268.04	CW1MW026	03/21/00
5268.05	CW1MW027	03/21/00
5268.06	CW1MW028	03/21/00
5268.07	CW1MW029	03/21/00
5268.08	CW1MW281	03/21/00
5268.10	CW1MW291	03/21/00
5268.09	CW1MW282	03/21/00

NJDEP Laboratory Certification # 13461

 4-6-00
Daniel Wright/Date:
Laboratory Director

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
 Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
 NJDEP Certification #13461

Chain of Custody Record

Customer: <i>J. P. ...</i>		Project No:		Analysis Parameters		Comments:	
Phone #: <i>202-233-...</i>		Location: <i>Cwi Mathly v0</i>		Date/Time		Remarks / Preservation Method	
() DERA () OMA () Other: _____		Date: <i>March 08</i>		Retinquired by (signature):		Received by (signature):	
Samplers Name / Company: <i>Cory McCormack, TUS</i>		Sample #		Retinquired by (signature):		Received by (signature):	
Lab Sample I.D.	Sample Location	Date	Time	Sample Type	Retinquired by (signature):	Date/Time	Received by (signature):
<i>5208 .01</i>	<i>Trip</i>	<i>3/21/00</i>	<i>0737</i>	<i>AQ</i>	<i>✓</i>		
<i>.02</i>	<i>Field Blank</i>		<i>1015</i>		<i>✓</i>		
<i>.03</i>	<i>Dupe</i>				<i>✓</i>		
<i>.04</i>	<i>Cwi Mw 026</i>		<i>1036</i>		<i>✓</i>		<i>0.0 29-32590</i>
<i>.05</i>	<i>Cwi Mw 027</i>		<i>1031</i>		<i>✓</i>		<i>0.0 29-32591</i>
<i>.06</i>	<i>Cwi Mw 028</i>		<i>1023</i>		<i>✓</i>		<i>0.0 29-32592</i>
<i>.07</i>	<i>Cwi Mw 029</i>		<i>1021</i>		<i>✓</i>		<i>0.0 29-32593</i>
<i>.08</i>	<i>Cwi Mw 281 *</i>		<i>1325</i>		<i>✓</i>		<i>0.0 29-35312</i>
<i>.09</i>	<i>Cwi Mw 282</i>		<i>1305</i>		<i>✓</i>		<i>0.0 29-35313</i>
<i>.10</i>	<i>Cwi Mw 291</i>		<i>1248</i>		<i>✓</i>		<i>0.0 29-35314</i>
Retinquired by (signature): <i>Cory McCormack</i>		Date/Time: <i>3/21/00 1520</i>		Retinquired by (signature):		Date/Time:	
Retinquired by (signature):		Date/Time:		Retinquired by (signature):		Date/Time:	

Report Type: Full Reduced, Standard, Screen / non-certified, EDD
 Turnaround time: Standard 3 wks, Rush Days, ASAP Verbal Hrs.

Remarks: *Tide: N/A*

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW026
NJDEP ID #: 29-32591
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.46 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.25 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.64 ft
(7.64) X .65 X 3 = 14.89
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:30
pH 7.95 su
DISSOLVED O2 5.89 ppm
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 60 us/cm

PURGE END TIME: 10:35
pH 7.90 su
DISSOLVED O2 5.21 ppm
TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 63 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.67 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:36
pH 7.90 su
DISSOLVED O2 5.17 ppm
TEMP 13.2°C
SPECIFIC CONDUCTIVITY 62 us/cm

SAMPLE END TIME: 10:38

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW027
NJDEP ID #: 29-32592
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.56 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.19 ft
DEPTH OF WELL: 16.89 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.70 ft
(7.70) X .65 X 3 = 15.00
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:25
pH 6.79 su
DISSOLVED O2 6.03 ppm
TEMP 13.4 °C
SPECIFIC CONDUCTIVITY 60 us/cm

PURGE END TIME: 10:30
pH 6.77 su
DISSOLVED O2 5.37 ppm
TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 61 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.39 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:31
pH 6.73 su
DISSOLVED O2 5.31 ppm
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 60 us/cm

SAMPLE END TIME: 10:32

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-1
MW#: CW1MW028
NJDEP ID #: 29-32593
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.89 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.67 ft
DEPTH OF WELL: 16.93 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.26 ft
(7.26) X .65 X 3 = 14.15
GALLONS OF H2O TO BE PURGED: 14 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:20

pH 6.99 su

DISSOLVED O2 6.21 ppm

TEMP 13.5 °C

SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 10:21

pH 7.01 su

DISSOLVED O2 5.41 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 103 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.79 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 10:23

pH 7.02 su

DISSOLVED O2 5.37 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 104 us/cm

SAMPLE END TIME: 10:24

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW282
NJDEP ID #: 29-35313
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs: N
ELEV. OF INNER CASING SURVEY MARK: 61.68 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.05 ft
DEPTH OF WELL: 17.95 ft
DEPTH TO TOP OF SCREEN: 6.00 ft
HEIGHT OF WATER: 8.90 ft
(8.90) X .65 X 3 = 17.35
GALLONS OF H₂O TO BE PURGED: 17 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm) : PERISTALTIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:50
pH 7.87 su
DISSOLVED O₂ 6.23 ppm
TEMP 13.4 °C
SPECIFIC CONDUCTIVITY 70 us/cm

PURGE END TIME: 13:04
pH 7.77 su
DISSOLVED O₂ 5.30 ppm
TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 68 us/cm

DEPTH TO H₂O AFTER PURGE AND BEFORE SAMPLING: 9.57 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 17 gal

SAMPLE START TIME: 13:05
pH 7.77 su
DISSOLVED O₂ 5.27 ppm
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 69 us/cm

SAMPLE END TIME: 13:06

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CW1MW029
NJDEP ID #: 29-32590
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 62.44 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 9.35 ft
DEPTH OF WELL: 16.87 ft
DEPTH TO TOP OF SCREEN: 5.00 ft
HEIGHT OF WATER: 7.52 ft
(7.52) X .65 X 3 = 14.66
GALLONS OF H2O TO BE PURGED: 15 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 09:15
pH 6.92 su
DISSOLVED O2 6.41 ppm
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 10:20
pH 6.93 su
DISSOLVED O2 5.37 ppm
TEMP 13.2 °C
SPECIFIC CONDUCTIVITY 101 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.52 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)
TOTAL VOLUME PURGED: 15 gal

SAMPLE START TIME: 10:21
pH 6.94 su
DISSOLVED O2 5.35 ppm
TEMP 13.3 °C
SPECIFIC CONDUCTIVITY 90 us/cm

SAMPLE END TIME: 10:22

COMMENTS:

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW1
MW#: CWIMW291
NJDEP ID #: 29-35314
NJDEP CERT #: 13461
SAMPLING CONTRACTOR: TVS
SAMPLER: Corey McCormack
DATE: 03/21/00
WEATHER: Cold, rain.
TIDE: N/A

LNAPLs: N
DNAPLs N
ELEV. OF INNER CASING SURVEY MARK: 63.58 ft
INNER CASING DIA.: 4 INCH
DEPTH TO WATER: 11.48 ft
DEPTH OF WELL: 18.18 ft
DEPTH TO TOP OF SCREEN: 6.70 ft
HEIGHT OF WATER: 6.17 ft
(6.70) X .65 X 3 = 13.06
GALLONS OF H2O TO BE PURGED: 13 gal
PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC
PURGE RATE: 0.23 gpm
Hnu READING: 0.0 ppm

PURGE START TIME: 11:51

pH 7.76 su

DISSOLVED O2 6.87 ppm

TEMP 13.4 °C

SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 12:47

pH 7.63 su

DISSOLVED O2 5.41 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.53 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 13gal

SAMPLE START TIME: 12:48

pH 7.61 su

DISSOLVED O2 5.36 ppm

TEMP 13.3 °C

SPECIFIC CONDUCTIVITY 100 us/cm

SAMPLE END TIME: 12:49

COMMENTS:

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

Data File **VB006434.D**
 Operator **Skelton**
 Date Acquired **28 Mar 2000 9:43 am**

Sample Name **Vblk195**
 Field ID **Vblk195**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Vblk195

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk195
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006434.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/28/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006452.D**
 Operator **Skelton**
 Date Acquired **28 Mar 2000 10:31 pm**

Sample Name **5268.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Trip Blank

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006452.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/28/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006453.D**
 Operator **Skelton**
 Date Acquired **28 Mar 2000 11:11 pm**

Sample Name **5268.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Field Blank

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006453.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/28/00
GC Column: RTX502. 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006454.D**
 Operator **Skelton**
 Date Acquired **28 Mar 2000 11:51 pm**

Sample Name **5268.03**
 Field ID **Dupe**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	379728	17.61 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Dupe

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5268.03
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006454.D
 Level: (low/med) LOW Date Received: 3/21/00
 % Moisture: not dec. _____ Date Analyzed: 3/28/00
 GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006455.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 12:31 am**

Sample Name **5268.04**
 Field ID **CW1MW026**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW026

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5268.04

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006455.D

Level: (low/med) LOW Date Received: 3/21/00

% Moisture: not dec. _____ Date Analyzed: 3/29/00

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB006456.D
 Operator Skelton
 Date Acquired 29 Mar 2000 1:11 am

Sample Name 5268.05
 Field ID CW1MW027
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW027

Lab Name: FMETL Project: LTM

NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5268.05

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006456.D

Level: (low/med) LOW Date Received: 3/21/00

% Moisture: not dec. _____ Date Analyzed: 3/29/00

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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

Data File **VB006457.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 1:51 am**

Sample Name **5268.06**
 Field ID **CWIMW028**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.97	127619	3.20 ug/L	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	2609040	124.03 ug/L	1	0.23 ug/L	B
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB006465.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 7:11 am**

Sample Name **5268.06**
 Field ID **CWIMW028**
 Sample Multiplier **2**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	3.70 ug/L	
107131	Acrylonitrile			not detected	50	5.56 ug/L	
75650	tert-Butyl alcohol			not detected	nle	17.04 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.32 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	3.36 ug/L	
74-87-3	Chloromethane			not detected	30	2.32 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.12 ug/L	
74-83-9	Bromomethane			not detected	10	2.20 ug/L	
75-00-3	Chloroethane			not detected	nle	2.02 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.48 ug/L	
67-64-1	Acetone			not detected	700	2.72 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.92 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.48 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.32 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.24 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	1.56 ug/L	
78-93-3	2-Butanone			not detected	300	1.24 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.97	53657	2.85 ug/L	10	0.34 ug/L	D
67-66-3	Chloroform			not detected	6	0.60 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.46 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.94 ug/L	
71-43-2	Benzene			not detected	1	0.46 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.36 ug/L	
79-01-6	Trichloroethene	20.51	1062796	106.66 ug/L	1	0.46 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	0.80 ug/L	
75-27-4	Bromodichloromethane			not detected	1	1.10 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.30 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.38 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.18 ug/L	
108-88-3	Toluene			not detected	1000	0.74 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.74 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.96 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.64 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.42 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.72 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.78 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.30 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.28 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.24 ug/L	
100-42-5	Styrene			not detected	100	1.12 ug/L	
75-25-2	Bromoform			not detected	4	1.40 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.94 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.10 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.14 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.28 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.
CW1MW028

Lab Name: FMETL Project: LTM
 NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 5268.06
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006457.D
 Level: (low/med) LOW Date Received: 3/21/00
 % Moisture: not dec. _____ Date Analyzed: 3/29/00
 GC Column: RTX502 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 NAME	RT	EST. CONC.	Q

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

Data File **VB006459.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 3:11 am**

Sample Name **5268.08**
 Field ID **CW1MW281**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	379570	18.51 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW281

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.08
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006459.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/29/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006460.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 3:52 am**

Sample Name **5268.09**
 Field ID **CW1MW282**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW282

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.09
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006460.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/29/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006458.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 2:32 am**

Sample Name **5268.07**
 Field ID **CW1MW029**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	5245186	131.53 ug/L	10	0.17 ug/L	B
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	20.51	2031633	97.50 ug/L	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

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

Data File **VB006466.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 7:50 am**

Sample Name **5268.07**
 Field ID **CW1MW029**
 Sample Multiplier **2**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	3.70 ug/L	
107131	Acrylonitrile			not detected	50	5.56 ug/L	
75650	tert-Butyl alcohol			not detected	nle	17.04 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.32 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	3.36 ug/L	
74-87-3	Chloromethane			not detected	30	2.32 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.12 ug/L	
74-83-9	Bromomethane			not detected	10	2.20 ug/L	
75-00-3	Chloroethane			not detected	nle	2.02 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.48 ug/L	
67-64-1	Acetone			not detected	700	2.72 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.92 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.48 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.32 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.24 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	1.56 ug/L	
78-93-3	2-Butanone			not detected	300	1.24 ug/L	
156-59-4	cis-1,2-Dichloroethene	15.98	2297701	120.66 ug/L	10	0.34 ug/L	D
67-66-3	Chloroform			not detected	6	0.60 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.46 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.94 ug/L	
71-43-2	Benzene			not detected	1	0.46 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.36 ug/L	
79-01-6	Trichloroethene	20.51	839564	85.04 ug/L	1	0.46 ug/L	D
78-87-5	1,2-Dichloropropane			not detected	1	0.80 ug/L	
75-27-4	Bromodichloromethane			not detected	1	1.10 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.30 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.38 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.18 ug/L	
108-88-3	Toluene			not detected	1000	0.74 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.74 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.96 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.64 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.42 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.72 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.78 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.30 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.28 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.24 ug/L	
100-42-5	Styrene			not detected	100	1.12 ug/L	
75-25-2	Bromoform			not detected	4	1.40 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.94 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.10 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.14 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.28 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW029

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.07
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006458.D
Level: (low/med) LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/29/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB006461.D**
 Operator **Skelton**
 Date Acquired **29 Mar 2000 4:32 am**

Sample Name **5268.10**
 Field ID **CWIMW291**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

CW1MW291

Lab Name: FMETL Project: LTM
NJDEP#: 13461 Case No.: 5268 Location: CW1 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 5268.10
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB006461.D
Level: (low/med) - LOW Date Received: 3/21/00
% Moisture: not dec. _____ Date Analyzed: 3/29/00
GC Column: RTX502 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 NAME	RT	EST. CONC.	Q
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