RESULTS OF PHASE III ENVIRONMENTAL ASSESSMENT OF MDT CORPORATION FACILITIES IN HENRIETTA, NEW YORK AND NORTH CHARLESTON, SOUTH CAROLINA

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Information

I. INTRODUCTION

ENVIRON International Corporation (a division of APBI Environmental Sciences Group, Inc.) (ENVIRON) was retained by Skadden, Arps, Slate, Meagher & Flom (Skadden) to conduct a Phase III environmental assessment of two current facilities of MDT Corporation and its subsidiaries (MDT). The two facilities, which are the MDT Corporation facility in Henrietta, New York and the MDT Diagnostic Company "Plant" facility in North Charleston, South Carolina, were identified during a Phase I environmental assessment of seven facilities currently operated by MDT as having potentially significant issues associated with present or past storage, handling, or disposal of petroleum products and hazardous substances. Limited Phase II soil and ground water sampling was conducted at both sites during April 1996, and the results of that sampling identified the presence of volatile organic compounds (VOCs) in ground water at both sites at concentrations above applicable ground water criteria.

Based on the results of the Phase I and Phase II assessments, a plan was developed to perform Phase III assessments to confirm the results of the Phase II investigation and to further investigate the sources, extent, and significance of the identified ground water contamination at the two sites. This Phase III assessment was not intended as a comprehensive, site-wide environmental investigation of each site. Rather, due to time and cost constraints, this assessment specifically focused on the areas of ground water contamination previously detected at each site. ENVIRON's conclusions about the relative significance of areas of concern are based primarily upon our professional judgment and are meant to provide some guidance in areas of uncertainty.

The purpose of this report is to describe the scope of work performed to complete this assessment and to present the results of the Phase III assessment.

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II. SUMMARY OF CONCLUSIONS

ENVIRON performed a limited Phase III environmental assessment of two facilities of the MDT Corporation, located in Henrietta, New York and North Charleston, South Carolina. ENVIRON's conclusions based on the results of this assessment are summarized in this chapter.

Henrietta, New York

- The results of the Phase III investigation included the installation and sampling of seven monitoring wells at the site, and confirmed the preliminary results of the Phase II investigation, which indicated that ground water samples in two areas of the site contained volatile organic compounds (VOCs) that exceeded the New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards. In the first area, located immediately downgradient from the detention pond in the northeast corner of the site, the Phase II sampling had detected trichloroethene (TCE) at 1,500 μg/L and cis-1,2-dichloroethene (cis-1,2-DCE) at 48 μg/L. In the Phase III investigation, MW01 was installed in the same area; a ground water sample from MW01 was found to contain TCE at up to 1,000 μg/L and cis-1,2-DCE at up to 14 μg/L. In the second area, near the former wastewater treatment system sand filter beds, the Phase II results had showed TCE at up to 16 μg/L and cis-1,2-DCE at 63 μg/L in a ground water sample. In the Phase III investigation, MW07 was installed in the same area; a ground water sample from MW07 was found to contain TCE at 200 μg/L and cis-1,2-DCE at 560 μg/L.
- Ground water samples collected from the other five wells at the site did not contain
 any VOCs at levels above the NYSDEC Ambient Water Quality Standards,
 suggesting that the contamination detected in wells MW01 and MW07 is limited in
 extent on-site.

- The ground water elevation data collected from the seven monitoring wells shows the general direction of ground water flow to be toward the northeast, with some slight variation towards a northward direction in the north-central part of the site. These flow directions indicate the potential for VOCs detected in MW01 and MW07 to migrate off-site, although the relatively low permeability of the glacial material encountered at the site suggests that ground water flow velocity would be relatively slow.
- The ground water flow patterns at the site, together with the ground water sampling results, indicate that the source of the VOCs detected in ground water is most likely on the MDT site. The results of soil sampling conducted at the site have not shown soil contamination at levels above NYSDEC soil criteria. Based on the distribution of VOCs in ground water, the most likely source was historical discharges during the operation of the on-site wastewater treatment system during the 1950s and early 1960s (MW07 is located within the former sand filter beds of the wastewater treatment system and MW01 is immediately adjacent to, and downgradient from, the small impoundment that received the treated effluent from the former treatment system.) Additional investigation would be necessary to further evaluate the sources of the VOCs and to ensure that there are no remaining soils that may be acting as continuing sources of VOCs to the ground water.
- It is uncertain whether active remediation of ground water would be necessary at this site due to the limited nature of the observed on-site contamination, the relatively low permeability of the shallow ground water zone at the site, and the lack of identified significant soil contamination. However, the fact that the two wells that contain VOCs above the applicable criteria are located near the downgradient property boundary suggests that additional investigation would be necessary to fully delineate the extent of ground water contamination associated with the site prior to making a determination of whether active ground water remediation is appropriate or necessary.
- Assuming that additional investigations are needed and active ground water
 remediation is necessary for hydraulic control of site-related ground water
 contaminants, ENVIRON has estimated the following potential costs. These costs are
 ENVIRON's best estimates of potential costs, based on the limited available
 information at the site and ENVIRON's experience at similar sites. In a reasonable

worst case scenario, costs could be higher than these estimates, and in a best case scenario, costs could be lower than these estimates. The need for additional investigation and/or remediation will likely depend upon the results of further site investigations, legal and/or regulatory requirements, regulatory agency involvement, etc.

- Additional investigation of on-site ground water and potential soil contamination -- \$75,000 to \$150,000. These costs would typically be incurred over multiple phases of site investigation over a period of up to several years.
- Potential off-site ground water investigation -- \$50,000 to \$150,000. These costs would depend greatly on the extent to which potential off-site migration of contamination required investigation. If off-site ground water migration is not significant, then costs could be minimal.
- Design and installation of ground water capture and treatment system -- \$150,000 to \$300,000. These costs assume the installation of several recovery wells in the area of MW01 and MW07, with ground water piped to one treatment system utilizing air stripping and/or carbon filtration at a rate of 5 to 10 gallons per minute (gpm), and treated effluent discharged either to the sanitary sewer system or to surface water under a discharge permit. These costs would not likely be incurred for a period of up to several years until site investigation activities have been completed. Costs could be higher if capture of off-site ground water is necessary or if a larger area of on-site ground water needed to be captured.

Company (Line)

- Annual operation and maintenance of ground water recovery system -- \$75,000 to \$100,000. These costs would include the O & M expenses associated with the system, periodic ground water and treatment system monitoring costs, potential discharge permit fees or sewer use fees, reporting costs, etc. A reasonable expected period of operation of the system would be 5 to 10 years.
- Based on the sampling to date, no soil contamination has been detected that would require remediation. The potential exists that future investigations could identify soil contamination that may require remediation. The need for or costs

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associated with potential soil remediation cannot be reliably estimated at this time.

III. HENRIETTA, NEW YORK

A. Introduction

MDT Biologic Company currently owns and operates a manufacturing facility at 1777 East Henrietta Road, Henrietta, New York ("the facility"). The results of a Phase II environmental assessment of the facility recently conducted by ENVIRON identified two locations at the site where VOCs were detected in ground water at concentrations in excess of the New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards. Due to the limited scope of sampling during Phase II, and the lack of site-specific information on ground water flow directions, the likely sources, extent, and potential for migration of the detected VOCs were not fully determined during Phase II.

ENVIRON conducted a Phase III assessment at the site between April 19 and 29, 1996 to evaluate further the extent and potential for migration of VOCs in ground water at the site. The Phase III assessment included (1) the installation of seven shallow overburden monitoring wells, (2) collection of ground water level measurements to determine the direction of ground water flow across the site, (3) ground water sampling from the seven new wells, and (4) soil sampling at one location where VOCs were identified by field screening with a portable OVM (organic vapor meter). This chapter presents the results of ENVIRON's Phase III investigation. The following sections provide a description of the facility, the well installation and ground water and soil sampling activities conducted, and the analytical results and conclusions developed based on those results.

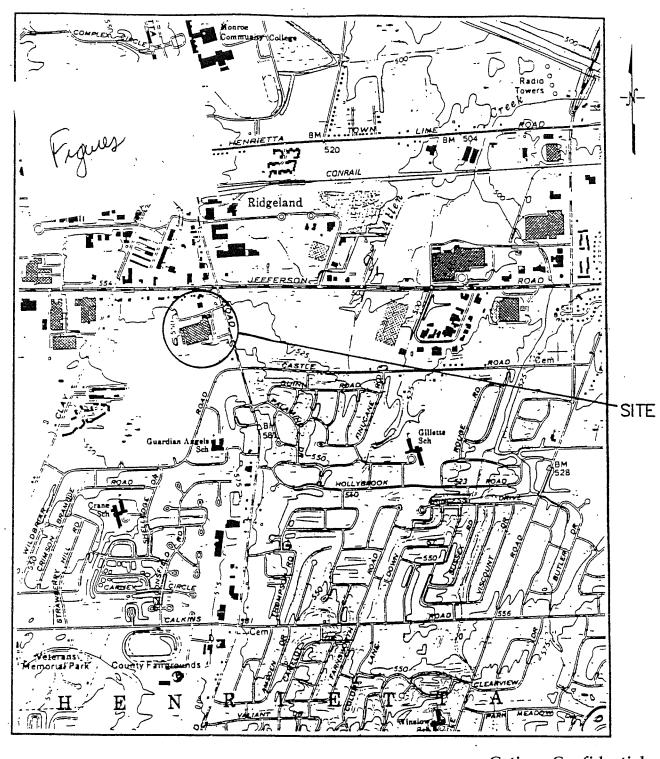
B. Site Description

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1. Site Setting

The facility is located in a mainly commercial area of Henrietta, New York. Figure III-1 is a site location map showing the general facility location. Interstate 390 bounds the south side of the facility, with a mainly residential area located south of the interstate. East Henrietta Road bounds the east side of the facility, and adjacent to the north side are a number of commercial establishments lining Jefferson Road, including a

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SCALE: 1 INCH = 2,000 FEET CONTOUR INTERVAL: 5 FEET

SOURCE: USGS PITTSFORD, NY TOPOGRAPHIC QUADRANGLE, 7.5 MINUTE SERIES, 1971. PHOTOREVISED 1978.

ENVIRON

FACILITY LOCATION MAP

MDT BIOLOGIC COMPANY

1777 E. HENRIETTA ROAD — HENRIETTA, NY

FIGURE

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nursery, a software distribution company, a muffler shop, an automotive oil change shop, and restaurants.

The facility consists of two buildings situated on approximately 33 acres of land. The main building contains office space, and production and manufacturing operations. The smaller research and development (R&D) building contains office space, product testing and laboratory areas. The majority of the area to the north, east, and south of the main building is paved with asphalt parking lots and roadways. A detention pond is located on the northeast corner of the property. A large section of the remainder of the property located to the west side of the facility buildings is undeveloped. This area reportedly received soil excavated during the construction of Interstate 390.

The buildings at the facility sit atop a flat area that slopes down to the north, east, and south. The undeveloped area to the west of the buildings sits at a higher elevation than the rest of the site.

2. Site History and Operations

The MDT facility in Henrietta, New York currently fabricates, assembles, and tests medical products including sterilizer units; sanijet washers; rinser dryers; and stools, intravenous stands, and other similar items. The facility also operates a biological laboratory in which bacteria are harvested and impregnated onto strips that are used to test the effectiveness of sterilizer units. The site has been used for manufacturing operations since 1954. Prior to manufacturing operations, the site was used as an airport. Available information indicates that farming or agricultural activities likely took place prior to the construction of the airport.

The original facility was constructed in 1954 by Wilmot Castle Company for the manufacture of sheet metal specialty products. Since 1954 it has been enlarged by construction additions at various times during its operational history and has been owned by two separate corporations. MDT purchased the property and the facility in 1987 and has continued operations to the present time.

Various chemicals have been used on-site in the manufacturing operations. 1,1,1-Trichloroethane (TCA) was used on-site for degreasing operations for an undetermined period of time, ending in July 1995 when an aboveground vapor degreasing tank located in the plating department was reportedly removed from service and from the site. Historical use of other degreasing solvents dating back to the mid-1950s is not known.

C. Geology, Hydrogeology and Surface Drainage

The upper geologic unit at the facility consists of glacial till overburden, which extends from ground surface to the top of bedrock. As noted during the Phase III investigation, the till is made up of silty clay with angular fine gravel. At one location, at the northeast corner of the site and downgradient of the detention pond, the till was observed to be 19 feet thick. This location corresponds to one of the lowest topographic elevations on-site, and potentially the location of the thinnest layer of overburden at the site. The full thickness of the till at other locations on-site was not confirmed during Phase III, since bedrock was not encountered during drilling at any of the other locations at the site. At other locations, the till extended to a depth of at least 33 feet below ground surface. Additional information on the geology of the region indicates that the till may extend from ground surface to approximately 50 to 100 feet below ground surface in the area of the site.

Regional ground water flow in the area in which the facility is located is generally toward the northeast. As discussed in more detail in Section F (Subsection 2), there are two main components of flow across the site, and flow generally mimics topography across the site. In the area underlying the main facility building and in the northeast corner of the property, ground water flow is toward the northeast. In the area of the western half of the main parking area (north of the main building), ground water flow is toward the north.

Surface drainage from a majority of the site is directed to the detention pond located in the northeast corner of the property. A series of swales, storm water collection drains, and underground drainage conduits situated around the outside areas of the facility collect storm water and convey it to the pond. From the pond, drainage is reportedly discharged underneath E. Henrietta Road and Jefferson Road to what appears to be an intermittent tributary of Allen Creek. Allen Creek eventually discharges into Erie Canal, which is located approximately one and one-quarter mile northeast of the facility. Drainage from the undeveloped part of the site most likely either infiltrates into the ground or runs off onto adjacent areas.

D. Areas and Issues of Environmental Concern Identified During Phase II

The results of the Phase II investigation conducted between April 4 and 6, 1996 at the site identified two locations at the site where VOCs were present in ground water at concentrations in excess of the NYSDEC Ambient Water Quality Standards. At the first location, immediately downgradient of the detention pond in the northeast corner of the property, TCE was detected at a concentration of 1,500 μ g/L and cis-1,2-DCE was detected at 48 μ g/L. At the second location, in the vicinity of the former wastewater treatment system sand filter beds, TCE was detected at a concentration of 16 μ g/L and cis-1,2-DCE was detected at 63 μ g/L.

Tetrachloroethene (PCE) was also detected in a soil gas sample collected from the location of the wastewater treatment sand filter beds.

During Phase II, ground water samples were not collected from all potential areas of environmental concern at the site. For example, sampling was not performed in the undeveloped area to the west of the main buildings, or in the area immediately downgradient of the metal plating operations (on the exterior of the main building). Ground water sampling at locations other than the wastewater treatment area and detention pond area, where VOCs have been detected, would help delineate further the lateral extent of the impact to ground water quality at the site.

The results of the Phase II investigation also identified the need for more detailed information on the direction of ground water flow across the site. As noted above, recent data have indicated that ground water quality has been impacted at two locations at the site. With more detailed information on the pattern of ground water flow across the site, the likely sources, extent, and potential for migration of the detected VOCs can be evaluated.

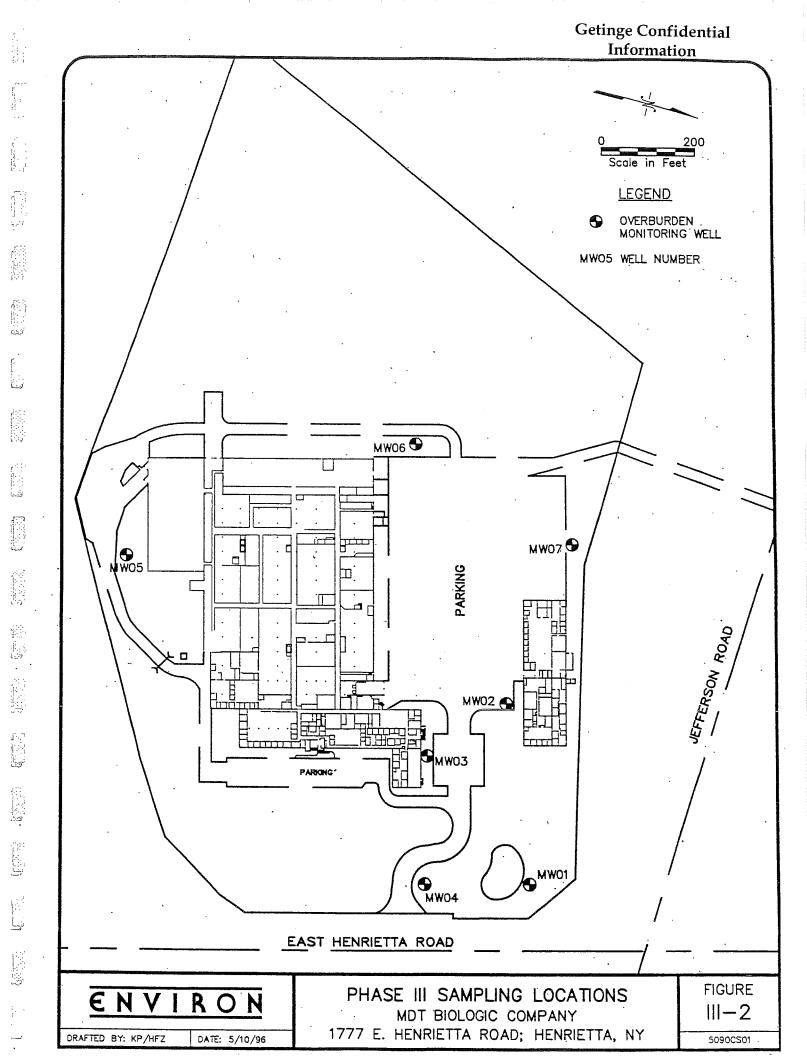
E. Description of Phase III Site Investigation

1. Introduction

ENVIRON conducted a Phase III investigation at the site between April 19 and 29, 1996, to evaluate further the potential environmental issues associated with ground water at the site. This investigation included the following activities:

- Installation of seven shallow overburden monitoring wells;
- Measurement of the depth to ground water in the seven monitoring wells and evaluation of ground water flow across the site;
- Collection and analysis of eight ground water samples from the seven new wells;
 and
- Collection and analysis of three soil samples from one well location where VOCs were identified in the soil by field screening methods.

The monitoring well locations were selected based on results of the Phase II investigation, and are shown in Figure III-2. The following sections describe the procedures for installing the wells, and for collecting the various samples and ground water elevation data.



2. Monitoring Well Installation

Seven monitoring wells (MW01-MW07), as shown on Figure III-2, were installed in the overburden zone between April 19 and 25, 1996. The wells were installed by Advanced Drilling, Inc., of New Holland, Pennsylvania, using hollow-stem auger drilling techniques. All drilling activities were supervised by an ENVIRON geologist.

To install the wells, 4.25-inch I.D. hollow-stem augers were used to drill a 6-inch borehole to the desired depth. During drilling, split-spoon samples were collected at 5-foot intervals for lithologic description and VOC screening. Soil sampling procedures are discussed in more detail in Section 6, below. The wells were constructed using 2-inch diameter, Schedule 40 PVC casing and screens. A screened interval of 10 to 15 feet was used and the well screens were placed with the top of the screen section intersecting the top of the water table at the time the well was installed. In some wells, the water level in the well rose after the completion of the well so that the water table was above the top of the screen section. A clean sand pack consisting of No. 2 sand was placed within the annular space between the screen and the borehole wall, from the bottom of the well to approximately 1 to 2 feet above the top of the screen. A 1- to 2-foot thick bentonite seal was added above the sand, and a cement-bentonite grout mixture was added above the bentonite seal to completed the wells to grade. All wells were completed with flushmount protective covers and locking inner PVC expansion caps. Construction specifications for all wells are presented in Table III-1 and well construction logs are provided in Appendix A.

Soil cuttings generated from the well installation activities were contained in 55-gallon drums and staged on-site adjacent to the R&D building, pending waste characterization sampling and disposal.

3. Well Development

Following well installation, each well was developed using the pump on the hollow-stem auger rig and decontaminated hose. Five of the seven wells pumped dry during development. At wells that pumped dry, development continued in cycles over the course of two days with the well being pumped dry, then allowed to recharge over several hours, then pumped dry again. This procedure continued until 10 well volumes of water were removed, or until the wells had been pumped dry a maximum of four times over the course of the two days. Wells that did not pump dry during development were developed until the water was clear and silt-free and until approximately 10 well volumes were removed.

TABLE III-1 Construction Specifications for Monitoring Wells MDT Biologic Company, Henrietta, NY

Well Number	Date Installed	Total Depth (feet bgs)	Diameter of PVC Casing (inches)	Screen Length (feet)	Screened Interval (feet bgs)
MW01	April 25, 1996	19.2	2	14	5.2 - 19.2
MW02	April 23, 1996	21.5	2 .	15	6.5 - 21.5
MW03	April 23, 1996	20.0	2	10	10.0 - 20.0
MW04	April 22, 1996	15.0	2 .	. 10	5.0 - 15.0
MW05	April 19, 1996	25.2	2	10	15.2 - 25.2
MW06	. April 19, 1996	33.4	2	10	23.4 - 33.4
MW07	April 23, 1996	18.2	2 .	10 .	8.2 - 18.2

Note:

bgs - Below ground surface.

Water generated from development activities was contained in 55-gallon drums, which were staged on-site adjacent to the R& D building, pending waste characterization sampling and disposal.

4. Monitoring Well Surveying

The location and elevation of each monitoring well was surveyed on April 26, 1996 by Passero Associates of Rochester, New York, a New York State-licensed land surveyor. The survey information is provided in Table III-2, and includes ground surface elevation, top of PVC casing elevation, and north and east horizontal coordinates.

5. Ground Water Level Measurements

Ground water level measurements were collected using an electronic water level meter. The measurements were collected at various times following installation of each well: prior to well development, after well development and before ground water sampling, and after ground water sampling. The measurements were recorded to the nearest 0.01 foot.

6. Soil Sampling Procedure

Soil samples were collected at each monitoring well location for lithologic characterization and VOC screening. The soil was collected using 2-inch split-spoon samplers advanced at a frequency of one sampler per 5-foot depth interval. This frequency of sampling was employed at all well locations except MW07, since no wells other than MW07 were expected to be at locations where potential surface sources of soil contamination existed. Monitoring well MW07 was located within the area of the former wastewater treatment sand filter bed, a suspected source of soil and/or ground water contamination. At MW07, therefore, split-spoon soil samples were collected continuously to a depth of 16 feet below ground surface.

The soil in each sampler was screened for the presence of VOCs using a portable OVM. The lithology of all soils was then logged by an ENVIRON geologist. The results of the soil screening and lithologic descriptions are included on the well construction logs for each well, in Appendix A. Soil samples were collected for laboratory analysis based on the results of the field screening. The analytical samples were collected in glassware supplied by the laboratory and stored in coolers on ice. The samples were kept on ice and sent off-site to Lancaster Laboratories in Lancaster, Pennsylvania, for VOC analysis using EPA method 8240. Table III-3 lists the soil samples submitted for analysis.

TABLE III-2 Locations and Elevations of Monitoring Wells MDT Biologic Company, Henrietta, NY

	Elevations		Horizontal C	ordinates
Well Number	Ground	· PVC Casing	North	East
MW01	532.39	532.22	1,126,075.06	760,085.02
MW02	546.48	546.24	1,125,900.75	759,774.18
MW03	547.58	547.42	1,125,772.86	759,909.82
MW04	536.44	536.22	1,125,855.01	760,178.38
MW05	552.61	552.42	1,125,021.60	759,696.88
MW06	548.26	548.07	1,125;538.24	759,303.58
MW07	547.04	546.78	1,125,899.30	759,448.81

Notes: .

Elevations in feet above mean sea level.

Horizontal Datum: New York State Plane Coordinate System, West Zone Mercator System.

Vertical Datum: National Geodetic Vertical Datum (NGVD) 1929.

TABLE III-3	•
Summary of Soil Samples Collected for VOC Analysis (EPA Metho	d·8240)
MDT Biologic Company, Henrietta, NY	

Sample ID	Sample Location	Sample Depth (feet bgs)	OVM Field Screening Results (ppm)	Date Collected
5090C-NY-MW07-SB01	MW07 Borehole	6.5-7.5	0.6	April 22, 1996
5090C-NY-MW07-SB02	MW07 Borehole	8-10	6	April 22, 1996
5090C-NY-MW07-SB03	MW07 Borehole	12-14	3.4	April 22, 1996

Note:

bgs - Below ground surface.

7. Ground Water Sampling Procedure

Eight ground water samples were collected from the seven wells on April 25 and 26, 1996. Prior to sample collection, each well was purged of at least three well casing volumes of water using a disposable polyethylene bailer and dedicated nylon rope. During purging, the field indicator parameters pH, specific conductivity, and water temperature were measured and recorded, to ensure that the parameter readings had stabilized by the end of purging, indicating that the well was recharging sufficiently with water that was representative of actual aquifer conditions.

Ground water samples were collected with laboratory-cleaned Teflon bailers and dedicated nylon rope. To collect the ground water, a bailer was lowered by hand into the water to the depth of the center of the well screen and then slowly raised to the surface, taking care to minimize agitation and exposure to the atmosphere. All ground water samples were contained in pre-preserved glassware supplied by the laboratory and sample vials were stored in coolers on ice following sample collection. Samples were kept on ice and sent to Lancaster Laboratories for analysis of VOCs, following EPA method 8240. Table III-4 lists the ground water samples submitted for analysis. All ground water generated from purging was combined with the development water stored in 55-gallon drums, pending the results of waste characterization sampling and disposal.

8. Quality Assurance/Quality Control Measures

Sample labels were prepared prior to sampling and affixed to sample containers either before or immediately after sample collection. Strict chain-of-custody procedures were followed in order to provide the necessary documentation of sample possession from the time of collection to the time of analysis.

All down-hole drilling equipment was steam-cleaned prior to drilling at a new location. All soil sampling equipment was also steam-cleaned and wrapped in aluminum foil prior to reuse. Disposable gloves were worn at all times when handling the laboratory-cleaned bailers and/or sample glassware, and a new pair of gloves was worn for each new sample collected.

All decontamination water generated was pumped into 55-gallon drums (along with the development and purge water) and staged on-site pending the results of waste characterization sampling and disposal.

TABLE III-4 Summary of Ground Water Samples Collected for VOC Analysis (EPA Method 8240) MDT Biologic Company, Henrietta, NY

Sample ID	Sample Location	Date Collected
5090C-MW01-GW01	MW01	April 26, 1996
5090C-MW01-GW11*	MW01	April 26, 1996
5090C-MW02-GW01	MW02	April 25, 1995
5090C-MW03-GW01	MW03	April 25, 1996
5090C-MW04-GW01	MW04	April 26, 1996
5090C-MW05-GW01	MW05	April 25, 1996
5090C-MW06-GW01	MW06	April 25, 1995
5090C-MW07-GW01	MW07	April 26,, 1996

Note:

Duplicate Sample

F. Phase III Investigation Results

1. Well Yield

During the course of the investigation, it was noted that several of the wells could not sustain a continuous yield during the time in which they were pumped for development or purged prior to sampling. For example, monitoring wells MW02, MW03, MW05, MW06, and MW07 could not be developed at a continuous rate (See Appendix A - Well Construction Logs). These wells pumped dry a few minutes after the start of development. Development at these wells proceeded in cycles whereby the wells were pumped dry, then allowed to recharge for several hours, then pumped dry again. MW01 and MW04 were the only two wells that were developed at a continuous rate of 0.6 and 0.7 gpm, respectively, although even these rates would be considered relatively low. The low yield of all the new wells is likely the result of the low permeability of the silty clay formation in which the wells are screened.

2. Ground Water Flow

Ground water elevation data for two rounds of measurements collected on April 24 (and April 25 for MW01) and April 29, 1996, are presented in Table III-5. The April 24 measurements were collected after the wells were installed and prior to development (MW01 was installed on April 25 and the ground water level was measured on this day). The April 29 water level measurements were collected 3 days after all wells had been developed, purged, and sampled.

Data collected on April 24 (and April 25 for MW01), 1996 were used to construct the ground water elevation contours presented in Figure III-3. The April 29 data were not used since MW05 is a slowly-recharging well, and the water level in MW05 on April 29, had not yet recovered to the static level measured prior to the time that any pumping or purging had taken place. Figure III-3 indicates that there are two main components of flow across the site. In the area underlying the main facility building and in the northeast corner of the property, ground water flow is toward the northeast. In the area of the western half of the main parking lot, north of the main building, ground water flow is toward the north. It is likely that flow in the area of the undeveloped western portion of the site is directed toward the north or northeast as well.

Generally, ground water flow mimics the topography across the site. MW01 is located in the topographically lowest area on-site. East of the R&D building and north of the driveway entrance to the facility, the topography slopes down toward MW01 and

TABLE III-5 Ground Water Elevations in On-Site Wells MDT Biologic Company, Henrietta, NY

			April 24	4, 1996 ²	April 29, 1996	
Well Number	Top of PVC Casing Reference Elevation	Ground Surface Reference Elevation ¹	Depth-to- Ground Water (feet bgs)	Ground Water Elevation	Depth-to- Ground Water (feet btoc) (Ground Water Elevation
MW01	532.22	532.39	. 6.7	525.7	6.86	525.36
MW02	546.24	546.48	5.5	541.0	5.96	540.29
MW03	547.42	547.58	8.2	539.4	8.5	538.92
MW04	536.22	536.44	2.1	534.3	3.6	532.62
MW05	552.42	552.61	4.95	547.7	10.02	542.40
MW06	548.07	548.26	3.7	544.6	3.85	544.22
MW07	546.78	547.04	7.4	539.6	7.34	539.44

Notes:

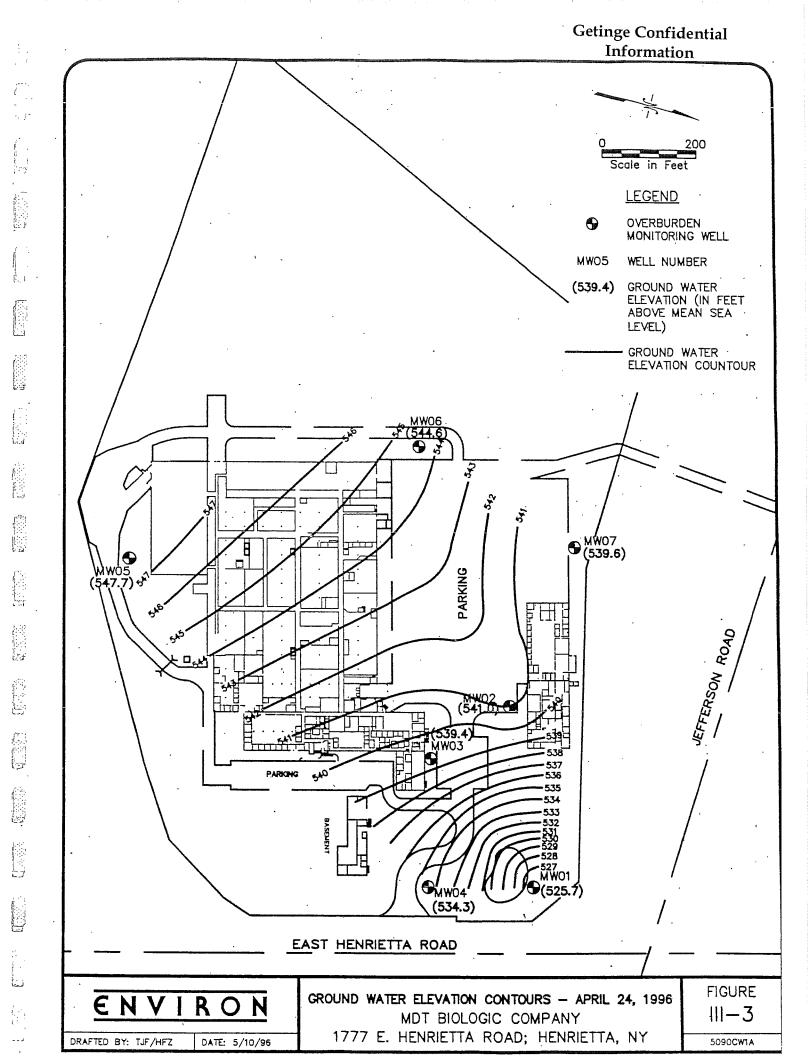
Ground surface used as reference elevation during April 24 water level measurement since PVC casings had not yet been cut to below ground surface and finished as completed wells.

Measurements collected following well installation and prior to development at each well. Measurements were collected on April 24 for all wells with the exception of MW01, for which measurements were collected on April 25, 1996 (MW01 was installed on April 25, 1996).

btoc: Below top of casing.

bgs: Below ground surface

All elevations in feet above mean sea level.



toward the northeast corner of the property, and flow in this area is directed toward the northeast. Similarly, MW07 is located at a topographic elevation that is slightly lower than the elevation of the two nearest wells, MW02 and MW06. Flow in this area of the site (the western portion of the main parking lot) is directed north toward MW07.

3. Ground Water Sampling Results

Analytical results for ground water samples collected from the seven new wells are presented in Table III-6. The laboratory analytical reports for these samples are included in Appendix B. As shown in Table III-6, VOCs including acetone, cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), and TCE were detected in the ground water at monitoring wells MW01, MW02, MW05, and MW07. At MW01, cis-1,2-DCE (13 and 14 μ g/L) and TCE (860 and 1000 μ g/L) were detected at concentrations above the NYSDEC Ambient Water Quality Standards. At MW07, cis-1,2-DCE (560 μ g/L) and TCE (200 μ g/L) were detected above NYSDEC standards. The presence of TCE and cis-1,2-DCE at these concentrations, together with the ground water flow data, confirms the results obtained from the Phase II investigation -- that ground water in the area of the former wastewater treatment system and the detention pond has potentially been affected by present or former site activities.

MW06 is located upgradient of MW07. The absence of VOCs in the ground water from MW06 indicates that ground water quality at MW07 has likely been impacted by activities and operations that took place at the wastewater treatment system in the vicinity of MW07, rather than at a location upgradient of MW07. The absence of VOCs in the ground water from MW06 also indicates that soil from the construction of Interstate 390, placed in the western portion of the property, does not appear to have adversely impacted ground water quality in this area. The absence of VOCs in the ground water from MW03 and MW04 and the trace level of TCE in ground water from MW02 indicate that the VOCs detected at MW01 are not likely related to sources upgradient of MW02, MW03 and MW04. Rather, ground water quality at MW01 has most likely been impacted by site activities and operations associated with the detention pond itself.

4. Soil Sampling Results

Analytical results for soil samples are presented in Table III-7. Only soil samples collected from the MW07 borehole were submitted for analysis since these samples were the only ones in which VOCs were detected by field screening with an OVM. As shown in Table III-7, trace concentrations of VOCs including acetone, TCE, methylene chloride,

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Summary of Phase III Ground Water Sampling Results (µg/L) MDT Biologic Company, Henrietta, NY	Summary of
MW01 5090C-NY-	
MW01-GW01 2501523	
04/26/96	
·	idards¹ (μg/L)

Water Quality Standards for Class GA fresh ground waters. Not Detected.

Concentration detected at below method detection limit and reported as estimated value. $\frac{Q}{Z}$

All concentrations reported in $\mu g/L$ or parts per billion (ppb). Only those compounds detected in one or more of all ground water samples are listed.

Prepared at the Request of Counsel Privileged and Confidential

Sampling Location ENVIRON Sample ID Laboratory Sample ID Collection Date Comments New York State Ambient Water	MW06 5090C-NY- MW06-GW01 2500739 04/25/96	MW07 5090C-NY- MW07-GW01 2501522	Trip Blank 5090C:NY-			
New York State		04/26/96	TB01-042596 2500745 04/25/96 QA/QC Sample	Trip Blank 5090C-NY- TB02-042696 2501540 04/26/96	Trip Blank 5090C-NY- 5090C-NY- 5090C-NY- 5090C-NY- 5090C-NY- 5090C-NY- 5090C-NY- 5090C-NY- 5000C-NY- 5000C	Field Blank 5090C-NY- FB02-042596 2500744 04/25/96 QA/QC Sample
Volatile Organic Compounds (\(\mu_{\rm g}/g/L\)						
Acetone 50	ND	QN	QN	QN	ON	ON .
cis-1,2-Dichloroethene 5	QN	995	QN	ND	QN	ND
trans-1,2-Dichloroethene	QN	2.5	ND	QN	QN .	ND
Trichloroethene 5	UN .	200	UN .	1.1	ON .	ND

Water Quality Standards for Class GA fresh ground waters. Not Detected.

QN

Concentration detected at below method detection limit and reported as estimated value.

All concentrations reported in $\mu g/L$ or parts per billion (ppb). Only those compounds detected in one or more of all ground water samples are listed.

TABLE III-7
Summary of Phase III Soil Sampling Results (µg/kg)
MDT Biologic Company, Henrietta, NY

·	Sampling Location ENVIRON Sample ID Laboratory Sample ID Sampling Depth Collection Date Comments	MW07 5090C-NY-MW07- SB01 2499216 6.5-7.5 feet 04/22/96	MW07 5090C-NY-MW07- SB02 2499217 8-10 feet 04/22/96	MW07 5090C-NY-MW07- SB03 2499218 12-14 feet 04/22/96
Volatile Organic Compounds	New York State Soil Cleanup Objectives to Protect Ground Water Quality ¹ (µg/kg or ppb)			
Acetone	· 110	14 J	10 J	13 J
Trichloroethene	700	. 12	6	17
Methylene Chloride	100	. 25	12	5 J
cis-1,2-Dichloroethene	245	· 11	18	17
Chloroform	300 .	1 J	, ND	. ND

Notes:

1 Soil Cleanup Objectives developed for soil organic content of 1%.

All concentrations reported in $\mu g/kg$ or parts per billion (ppb).

Only those compounds detected in the soil sample are listed.

J Concentration detected at below method detection limit and reported as estimated value.

cis-1,2-DCE, and chloroform were detected in the soil from MW07. However, none of these compounds were detected at concentrations above the New York State Recommended Soil Cleanup Objectives. As noted in the well construction log for MW07, two of these samples (from the 8 to 10-foot interval and 12 to 14-foot interval) were collected from below the water table, and the third sample (6.5 to 7.5-foot interval) was collected from what is potentially the capillary fringe at this location. Since these samples were collected from saturated or near saturated conditions, it is not certain whether the presence of the VOCs in the samples is attributable to the water within the soil or to the soil itself.

G. Conclusions

The results of the Phase III investigation at the MDT facility in Henrietta, New York indicate the following:

- The results of the Phase III investigation included the installation and sampling of seven monitoring wells at the site, and confirmed the preliminary results of the Phase II investigation, which indicated that ground water sampled from two areas of the site contained VOCs that exceeded the NYSDEC Ambient Water Quality Standards. In the first area, located immediately downgradient from the detention pond in the northeast corner of the site, the Phase II sampling had detected TCE at a concentration of 1,500 μ g/L and cis-1,2-DCE at 48 μ g/L. In the Phase III investigation, MW01 was installed in the same area; and a ground water sample from MW01 was found to contain TCE at concentrations of up to 1,000 μ g/L and cis-1,2-DCE at concentrations up to 14 μ g/L. In the second area, near the former wastewater treatment system sand filter beds, the Phase II results had showed the presence of TCE at concentrations of up to 16 μ g/L and cis-1,2-DCE at concentrations of up to 63 μ g/L in a ground water sample. In the Phase III investigation, MW07 was installed in the same area; a ground water sample from MW07 was found to contain TCE at a concentration of 200 μ g/L and cis-1,2-DCE at a concentration of 560 μ g/L.
- Ground water samples collected from the other five wells at the site did not contain any VOCs at levels above the NYSDEC Ambient Water Quality Standards, suggesting that the contamination detected in wells MW01 and MW07 is limited in extent on-site.

- The ground water elevation data collected from the seven monitoring wells shows the general direction of ground water flow to be toward the northeast, with a secondary component of flow oriented toward the north in the north-central part of the site. These flow directions indicate the potential for VOCs detected in MW01 and MW07 to migrate off-site, although the relatively low permeability of the glacial material encountered at the site suggests that the ground water flow velocity would be relatively slow.
- The ground water flow patterns at the site, together with the ground water sampling results, indicate that the source of the VOCs detected in ground water is most likely on the MDT site. VOCs have not been detected in soil samples from the site at concentrations above NYSDEC soil cleanup criteria. Based on the distribution of VOCs in ground water, the most likely source was historical discharges which took place during the operation of the on-site wastewater treatment system during the 1950s and early 1960s (MW07 is located within the former sand filter beds of the wastewater treatment system and MW01 is immediately adjacent to, and downgradient from, the small impoundment that received the treated effluent from the former treatment system). Additional investigation would be necessary to further evaluate the sources of the VOCs and to ensure that there are no remaining soils that may be acting as continuing sources of VOCs to the ground water.
- It is uncertain whether active remediation of ground water would be necessary at this site due to the limited nature of the observed on-site contamination, the relatively low permeability of the shallow ground water zone at the site, and the lack of identified significant soil contamination. However, the fact that the two wells that contain VOCs above the applicable criteria are located near the downgradient property boundary suggests that additional investigation would be necessary to fully delineate the extent of ground water contamination associated with the site prior to making a determination of whether active ground water remediation is appropriate or necessary.
- Assuming that additional investigations are needed and active ground water remediation is necessary for hydraulic control of site-related ground water contaminants, ENVIRON has estimated the following potential costs. These costs are ENVIRON's best estimates of potential costs based on the limited available

information at the site and ENVIRON's experience at similar sites. The need for additional investigation and/or remediation will likely depend upon the results of further site investigations, legal and/or regulatory requirements, regulatory agency involvement, etc.

- Additional investigation of on-site ground water and potential soil contamination -- \$75,000 to \$150,000. These costs would typically be incurred over multiple phases of site investigation over a period of up to several years.
- Potential off-site ground water investigation -- \$50,000 to \$150,000. These costs would depend greatly on the extent to which potential off-site migration of contamination required investigation. If off-site ground water migration is not significant, then costs could be minimal.
- Design and installation of ground water capture and treatment system -- \$150,000 to \$300,000. These costs assume the installation of several recovery wells in the area of MW01 and MW07, with ground water piped to one treatment system utilizing air stripping and/or carbon filtration at a rate of 5 to 10 gallons per minute (gpm), and treated effluent discharged either to the sanitary sewer system or to surface water under a discharge permit. These costs would not likely be incurred for a period of up to several years until site investigation activities have been completed. Costs could be higher if capture of off-site ground water is necessary or if a larger area of on-site ground water needed to be captured.
- Annual operation and maintenance of ground water recovery system -- \$75,000 to \$100,000. These costs would include the O & M expenses associated with the system, periodic ground water and treatment system monitoring costs, potential discharge permit fees or sewer use fees, reporting costs, etc. A reasonable expected period of operation of the system would be 5 to 10 years.
- Based on the sampling to date, no soil contamination has been detected that would require remediation. The potential exists that future investigations could identify soil contamination that may require remediation. The need for or costs associated with potential soil remediation cannot be reliably estimated at this time.

APPENDIX A

Monitoring Well Construction Logs, Henrietta, NY

The Winds

	we take the property of the control					or the production of the same states.		and the second s	
WELL# .					WEL			1	ENVIRON
PERMIT	#	NOT APP	LICABI	<u>.</u> E	INTERVAL: 0.17-5.2 FT. BGS DIA.: 2-IN.				
		APRIL 25			TYPE: SC	HEDU	LE 40	PVC	WELL LOG
LOGGED								T. AMSL	PROJECT: SA: PHASE III
1		ADVANCE						· .	HENRIETTA, NY
		RICK EMP			WELI				CASE # 02-5090C
		FAILING S			INTERVAL:				
•				W-STEM AUGER	DIA.:				COMMENTS:
BORING					3201 322		· · · · · · · · · · · · · · · · · · ·		A CONTINUOUS YIELD OF 0.7 GPM WAS SUSTAINED DURING WELL
1		19.2 FT	. BGS		WELL D				DEVELOPMENT (WELL DID NOT PUMP DRY)
1.					пме:			ES	A TOTAL OF 23 GALLONS WAS . RECOVERED DURING DEVELOPMENT.
1			•		METHOD: _R				
SURFAC				T. AMSL	EST. YIELD: _	0.0	GF M		Page 1 of 1 5090CL1.
(E)	ь 180.	ON PER	(IN.)				(mdd)	WELL CONSTRUCTION	
ОЕРТН (FT.)	SAMPLE TYPE & NO.	BLOWS (SAMPLER 6 IN.	RECOVERY	DESC	CRIPTION			WELL	REMARKS
130.	s E	BL	RECC		. ,		E	NOS NOS	
_	À	2,3,6,22	12	6" TOPSOIL A	AND GRASS		0		START WORK 4-25-96.
		2,3,0,22	- ' -	MEDIUM BROW	N TO ROWN SILTY CI	LAY			
_ 5_				WITH FINE GR					
			18	SAME AS AB	OVE; MOIST		0		▼ WATER LEVEL MEASURED
			<u></u>	-			Ť		4—25—96, FOLLOWING WELL INSTALLATION.
10	NA								
		5,6,9,11	20	SAME AS AB	OVE; MOIST		0		
		3,0,3,11							
 15		.		_					
	i	5,7,9,11	18				0		
		3,7,3,11	10						· -
 20	<u> </u>	· ·		BOTTOM OF F	ORING @ 19.2	FT.	·		AUGER REFUSAL AT 19.2 FT.
									DRILLER REPORTED POTENTIAL PRESENCE OF BEDROCK AT
	•								19.2 FT. BASED ON DISTINCTIVE RESPONSE OF DRILL BIT AND
F									AUGERS DURING DRILLING.
<u>25</u>									
<u> </u>									Getinge Confidential
									Information

	•								
WELL#.		·	. WELL C			ENVIRON	•		
PERMIT	·#	NOT APPI	ICABL	E	INTERVAL: 0.2 1 0.3 1 1. DOS			·	
		APRIL 23			DIA.: 2-IN. TYPE: SCHEDULE 40 PVC			WELL LOG	
LOGGED BY: CAROLINE CZANK								PROJECT: SA: PHASE III	
	IG CO.:			•	,	HENRIETTA, NY			
	R:		WELL S			CASE # 02-5090C			
		•	` `	INTERVAL: 6.5					
					DIA.:2-		1	COMMENTS:	
					SLOT SIZE:		······································	DURING DEVELOPMENT, WELL W PUMPED DRY (THEN ALLOWED	/AS TO
				·	WELL DEVI	ELOP	MENT	RECOVER) THREE TIMES, AT A RATE OF 1 GPM FOR EACH TIMES	
					TIME: 25 MIN			IT WAS PUMPED. CONTINUOUS YIELD COULD NOT BE SUSTAIN	
					METHOD: RIG P		1	A TOTAL OF 24 GALLONS WAS RECOVERED DURING DEVELOPM	ENT.
SURFA					EST. YIELD: SE	E COM		Page 1 of 1 50	90CL1B
Î	o	ON PER	RECOVERY (IN.)			Ē	WELL CONSTRUCTION		
ЭЕРТН (FT.)	SAMPLE TYPE & NO.	WS (ÆRY	DESC	CRIPTION	PID (ppm)	WELL	REMARKS	
DEP.	S ITP	BLOWS O SAMPLER F 6 IN.	RECO!			₽B	SNO		
	Å			ASPHALT AND	UNDERLYING			START WORK 4-23-96.	_
<u> </u>		9,19,23,10	. 24	GRAVEL.	SILTY CLAY WITH	0		٠.	_
				FINE GRAVEL.					· –
5				SAME AS ABO	OVE; MOIST.			WATER LEVEL MEASURED	·· —
		4,6,8,9	24			0	= -	4-24-96, FOLLOWING . WELL INSTALLATION.	
10	NA NA								
		8,10,12,13	24			0			-
L =									-
—15—					· .	· ·			
		9,13,21,22	24			0			-
├ -				-					•
20]			SAME AS ABO	NE WET	-			
		8,41,15,14	18		· · · · · · · · · · · · · · · · · · ·	0		DIFFICULT TO IDENTIFY TOP O	.c .
	-			BOTTOM OF E	BORING © 21.5 FT.			WATER TABLE DURING DRILLIN (USING OBSERVATIONS OF MO	IG -
								CONTENT OF SOIL IN SPLIT-S SAMPLES).	
- -								SAMFLES).	
<u> </u>								Getinge Confidential	
L _	. .	1					1	Information	

The second secon

		MW-03		WELL C			ENVIRON
		NOT APPL		DIA: 2-IN.			WELL LOG
DATE: _	· ·	APRIL, 23,	1996	TYPE: SCHEDL	LE 40	PVC	
LOGGE	D BY: _	CAROLINE	CZAN	IK T.O.C. ELEV.: 547			PROJECT: SA: PHASE III
i		ADVANCE					HENRIETTA, NY
				· WELL S			CASE # 02-5090C
		FAILING S					
				V-STEM AUGER SLOT SIZE: 0.0	N. 10—IN		COMMENTS:
			i OLLO	SLOT SIZE:		<u> </u>	DURING DEVELOPMENT, WELL WAS PUMPED DRY (THEN ALLOWED TO
i		6-IN.		 Well deve	I OP	MFNT	RECOVER) FOUR TIMES, AT A
		i: 20 FT.		TIME: 41 MINI			IT WAS PUMPED. CONTINUOUS YIELD COULD NOT BE SUSTAINED.
				METHOD: RIG P	JMP		A TOTAL OF 20.5 GALLONS WAS RECOVERED DURING DEVELOPMENT.
SURFA	CE ELE	/.:547	7.58 F	T. AMSL EST. YIELD: SE			Page 1 of 1 5090CL10
<u> </u>	o.	ON PER	IN.)		<u></u>	WELL. CONSTRUCTION	
(F)	SAMPLE TYPE & NO. BLOWS ON SAMPLER PER 6 IN. RECOVERY (IN.)		DESCRIPTION	(mdd)	ELL	REMARKS	
ЭЕРТН (FT.)	SAMPLE TYPE & NO.	BLOV XMPL 6	COVE		PID	M	
		· 3	R			77 5	OTABL WORK A 07 OC
<u> </u>	<u> </u>	2,3,4,5	18	6" TOPSOIL AND GRASS	0		START WORK 4-23-96.
	1	·		MEDIUM BROWN SILTY CLAY			` -
5	1			WITH FINE GRAVEL; MOIST AT 5 FEET.			
<u> </u>	4	4,4,4,7	14	• •	0		
							· · · · · · · · · · · · · · · · · · ·
 10			ļ				WATER LEVEL MEASURED 4-24-96, FOLLOWING
	NA	16,17,23,24			0		WELL INSTALLATION.
<u> </u>	1	10,17,23,24	10		J		
	1	•		•			
—15— —	1						- - -
<u> </u>	1	9,31,11,10	24	SAME AS ABOVE; WET.	0		
L -	1						
<u> 20 </u>	┼ <u>╵</u>		-	BOTTOM OF BORING • 20 FT.	;		DIFFICULT TO IDENTIFY TOP OF
F -]	,					WATER TABLE DURING DRILLING (USING OBSERVATIONS OF MOISTUR
<u> </u>	1						CONTENT OF SOIL IN SPLIT-SPOOM SAMPLES).
25]						
L -	1						
F -	┨.			·			Getinge Confidential Information

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WELL#	MW-04		. WELL (ENVIRON	
PERMIT#			F INTERVAL: 0.22-		BGS	•	
DATE:			ULE 40	PVC	WELL LOG		
1			T.O.C. ELEV.: 53			PROJECT: SA: PHASE III	
DRILLING CO.:			•			HENRIETTA, NY	-
DRILLER:		SON	· WELL S			CASE # 02-5090C	-
RIG:			2. IMIEKAVE		BGS		-
i			V-STEM AUGER SLOT SIZE: 0.			COMMENTS:	-
BORING DIA.:			3.01 3.2	-		A CONTINUOUS YIELD OF 0.7 GPM WAS SUSTAINED DURING WELL DESCRIPTION OF THE PROPERTY OF THE PRO	
BORING DIA.:			MELL DEA		MENT	DEVELOPMENT (WELL DID NOT PUMI DRY). A TOTAL OF 21 GALLONS WAS	
			TIME: 31 MIN			RECOVERED DURING DEVELOPMENT.	
			METHOD: RIG F				١
SURFACE ELE	:V.:		T. AMSL EST. YELD: 0.	1 1		Page 1 of 1 5090CL1	D
DEPTH (FT.) SAMPLE TYPE & NO.	PER .	RECOVERY (IN.)	•	(mdd)	WELL CONSTRUCTION	n	
DEPTH (FT.) SAMPLE TYPE & NO.	BLOWS (SAMPLER 6 IN.	OVERY	DESCRIPTION	PID (PI	WELL STRU	REMARKS	
HE DEF	SAM	REC	•	<u>a.</u>	NOS		
	2,3,5,5	20	6" TOPSOIL AND GRASS			START WORK 4-22-96.	\dashv
	2,0,0,0		MEDIUM BROWN SILTY CLAY			¥ WATER L'EVEL	\exists
			WITH FINE GRAVEL; MOIST.			MEASURED 4-23-96, FOLLOWING WELL INSTALLATION.	
	2,3,2,3	20		0			
L I NA							_
-10-							
	3,4,9,15	18	SAME AS ABÔVE; WET.	0			
15			,				
			BOTTOM OF BORING • 15 FT.			DIFFICULT TO IDENTIFY TOP OF WATER TABLE DURING DRILLING	
F 1						(USING OBSERVATIONS OF MOISTU CONTENT OF SOIL IN SPLIT—SPOOR SAMPLES).	N_
						SAMFLES).	
<u> </u>							_
25						,	_
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					and the state of t	matter state of the state of th		
WELL# -		MW-05			ELL C			ENVIRON
PERMIT	#	NOT APPL	JCABL	INTERVAL:				WELL LOG
1		APRIL 19,		134				WLLL LOG
LOGGED) BY: '_	CAROLINE	CZAN	K T.O.C. ELE	552 EV.: _552	.42 F	T. AMSL	PROJECT: SA: PHASE III
		ADVANCE		•				HENRIETTA, NY
8		RICK EMP		WE	ELL SO			· CASE #02-5090C
		FAILING S		INTERVAL				
METHO	D. 4 1/-	4-IN. ID H	IOLLOY	/-STEM AUGER SLOT SIZE				COMMENTS: DURING DEVELOPMENT, WELL WAS
		6-IN.						PUMPED DRY (THEN ALLOWED TO RECHARGE) FOUR TIMES, AT A
1		25.2 FI	r. BGS	WELL			MENT	RATE OF 0.8 GPM FOR EACH TIME IT WAS PUMPED DRY;
Į.				TIME:	13 MINU	TES		CONTINUOUS YIELD COULD NOT BE SUSTAINED.
DEAIH	10 WA	, 552	2.61 F	METHOD:			MENTS	A TOTAL OF 10 GALLONS WAS RECOVERED DURING DEVELOPMENT.
SURFA			I	ESI. YIEL	الــــــــــــــــــــــــــــــــــــ	<u>·</u>	Named as a day of the American	Page 1 of 1 5090CL1E
(FT.)	SAMPLE TYPE & NO.	ON R PER J.	Y (IN.)			(mdd)	WELL CONSTRUCTION	
ОЕРТН (FT.)	SAMP PE &	BLOWS C SAMPLER 6 IN.	RECOVERY	DESCRIPTION		PID (p	WEL	REMARKS
DE	<u> </u>	SAN	REC			۵.	CON	
<u> </u>	 	2,6,20,15	6	6" TOPSOIL AND GRASS	5	NR		START WORK 4-19-96
<u> </u>				RED-GRAY-BROWN SILT	IY .			NR=NO READING; OVM NOT
_ · _ _ 5 _				CLAY WITH FINE GRAVE				
<u> </u>	1	13,7,5,5	.18	RED-GRAY-BROWN CLA	.Y	NR		WATER LEVEL MEASURED
] -			TO SILTY CLAY WITH VE FINE ANGULAR GRAVEL;	RY			BOREHOLE DRILLED.
 10				MOIST AT 7 FT.				
F -	1	3,3,4,5	24			NR		
	NA							
_	1	·						
- " -		2,4,4,5	24	-		NR		······································
L -	1 .	-,,,,,,	<u> </u>					▼ WATER LEVEL MEASURED 4-22-96, THREE DAYS AFTER
]							BOREHOLE DRILLED
	1	2,2,5,6	20		•	NR		- -
<u> </u>	1	2,2,0,0	1 20	·				Getinge Confidential .
- 25 -	1 1							Information -
]		<u> </u>	BOTTOM OF BORING @	25.2 FT.		<u> </u>	WELL CONSTRUCTED 4-22-96. DIFFICULT TO IDENTIFY TOP OF
<u> </u>	1.							WATER TABLE DURING DRILLING (USING OBSERVATIONS OF
 -	-	,			•			MOISTURE CONTENT OF SOIL IN SPLIT-SPOON SAMPLES).

(A.A. 0000 B.T.)

		t de la catalogia de la como esta esta esta esta esta esta esta esta			All the second little commence of the Commence of the Commence	
WELL#	MW-06		WEĻL (CASIN	IG	ENVIRON
PERMIT#	NOT APPLICABL	Ē.	INTERVAL: 0.19-2	23.4 FT.	. BGS	·
DATE:	APRIL 19, 1996		TYPE: SCHED	ULE 40	PVC	WELL LOG
· I			T.O.C. ELEV.: 54			PROJECT: SA: PHASE III
	ADVANCED DE	LINC				HENRIETTA, NY
DRILLER	RICK EMPSON		WELL S	SCREE	EN	CASE # 02-5090C
RIC:	FAILING SS-25	1	WELL S INTERVAL: 23.4— DIA: 2-	33.4 FT	. BGS	
			DIA.:2- R SLOT SIZE:0.			COMMENTS:
1	. 6-IN.		SLUT SIZE:			DURING DEVELOPMENT, WELL WAS PUMPED DRY (THEN ALLOWED TO RECHARGE) FOUR TIMES, AT A
	H: 33.4 FT. BGS	S	WELL DEV			
			TIME: 18 MIN			CONTINUOUS YIELD COULD NOT BE SUSTAINED.
I	ATER:		MILITIOD.			A TOTAL OF 21 GALLONS WAS RECOVERED DURING DEVELOPMENT.
L			EST. YIELD: SI			Page 1 of 2 . 5090CL1F
FT.)	BLOWS ON SAMPLER PER 6 IN. RECOVERY (IN.)			(E)	CONSTRUCTION	·
DEPTH (FT.) SAMPLE TYPE & NO.	OWS PLER 6 IN	DESC	CRIPTION	PID (ppm)	WELL STRU(REMARKS
DEP S	BL SAMI	·	·	불	CONS	
A			AND CITY OF AN	0		START WORK 4-19-96.
	5,3,13,15 10		MN SILTY CLAY NGULAR GRAVEL			
					4 K	WATER LEVEL MEASURED
	11.15.15.15			0		4-22-96, AFTER WELL INSTALLED.
	11,15,15,15 24] -
- 10						-
	4.6.9.10 14	SAME AS AB	OVE; MOIST.	o.		7
NA NA	4,6,9,10 14					
			•			-
	56710 24	· ·		0 -		-
	5,6,7,10 24					<u>'</u>
20		1			********	-
	6,10,7,22 24	-		0		
25		SAME AS AB	BOVE; WET.	+		
F	24,26,27,32 20			0		Getinge Confidential Information
						ma or mation
1 T	1 I	1	•	1		∰ .

		Ā							
WELL#_		MW-06 ((CONT)			VELL C			ENVIRON
		NOT APP				L: 0.19-2		r. BGS	
		APRIL 19			DIA.:	2-IN. SCHEDI	11 E ÀC		WELL LOG
				١K					PROJECT: SA: PHASE III
					1.0.C. E	LEV.:			HENRIETTA, NY
		ADVANCE			٧	VELL S	CRE	EN .	CASE # 02-5090C
DRILLER:	:	RICK EMP	-50N		INTERY	L: 23.4-3	33.4 F	T. BGS	
RIG:		FAILING	35-25		DIA.:	2-	·IN.		COMMENTS:
			HOLLO'	W-STEM AUGER	R SLOT SI	ZE:0.0	010-IN	•	DURING DEVELOPMENT, WELL PUMPED DRY (THEN ALLOWE
BORING					WEL	DEVI		NAENIT	RECHARGE) FOUR TIMES, AT RATE OF 0.9 GPM FOR EAC
BORING	DEPT	H:33.4 F	T. BGS	<u> </u>	TIME:	18 MIN			TIME IT WAS PUMPED DRY; CONTINUOUS YIELD COULD N
DEPTH T	TO WA	TER:				: RIG P	UMP		SUSTAINED. A TOTAL OF 21 GALLONS W
SURFACE	E ELE	v.:54	8.26 F	T. AMSL				IMENTS	RECOVERED DURING DEVELO Page 2 of 2
(F)	NO.	ON PER	(IN.)				(ú	WELL CONSTRUCTION	•
ОЕРТН (FT.)	SAMPLE TYPE & NO.	WS PLER 6 IN.	RECOVERY (IN.)	DES	CRIPTION		(indd)	WELL	REMARKS
·DEP	S, G	BLOWS (SAMPLER 6 IN.	RECO				PID	CONS	
_	Å NA	33, 50/3"	10				0		
	V								·
- 35				BOTTOM OF	BORING @	33.4 FT			DIFFICULT TO IDENTIFY TOP WATER TABLE DURING DRILL
				_	-			,	(USING OBSERVATIONS OF MOISTURE CONTENT OF SOI IN SPLIT—SPOON SAMPLES)
·]					,				IN SPLIT-SPOON SAMPLES)
40									-
- 1									
- -45					•	·			
-				٠				,	
						-			
		l	1	i					
 -50				·					
				·					
	. •				·				
					·				Getinge Confiden

ng kalapatan V ika nganan anda karapa kalabaha			in the second		,			
1		MW-07			WELL			ENVIRON
PERMIT	T#	NOT APP	LICABI	_E	INTERVAL: 0.26-		862	
		APRIL 23	•		DIA.: 2-IN. TYPE: SCHE		PVC	WELL LOG
LOGGE	D BY: .	CAROLINE	CZA	NK	T.O.C. ELEV.: 5			PROJECT: SA: PHASE III
		ADVANCE						HENRIETTA, NY
i		RICK EMF			· WELL			CASE # 02-5090C
ı		FAILING S	,		INTERVAL: 8.2-		BGS	
					DIA.:2 SLOT SIZE:C			COMMENTS:
1	DIA.: _			· ·	SECT SIZE:			DURING DEVELOPMENT, WELL WAS PUMPED DRY (THEN ALLOWED TO BECHAPCE) FOUR TIMES AT A
i		H: 18.2 FT	r. BGS		WELL DEV	/ELOP	MENT	RECHARGE) FOUR TIMES, AT A RATE OF 0.9 GPM FOR EACH TIME IT WAS PUMPED DRY;
1				•	TIME: 19 MI			CONTINUOUS YIELD COULD NOT BE SUSTAINED.
i i			7.504.5	T AUC	METHOD: RIG			A TOTAL OF 17 GALLONS WAS RECOVERED DURING DEVELOPMENT.
SURFA	CE ELE	V.:547	7.U4 F	I. AMSL	EST. MELD:S	EE COM	a free charactery of the control of the large space	Page 1 of 1 5090CLIG
FT.)	NO.	BLOWS ON SAMPLER PER 6 IN.	(IN.)			E	WELL CONSTRUCTION	
ОЕРТН (FT.)	AMPL E &	OWS PLER 6 IN.	VERY	DESC	RIPTION	(mdd)	WELL	REMARKS
DEP	S _Y	BLOWS SAMPLER 6 IN.	RECOVERY			PID	SNOC	
				6" TOPSOIL	AND GRASS			START WORK 4-22-96
<u> </u>		3,6,7,9	18	MEDIUM BROW	N SILTY CLAY	0		-
		11,16,22,17	0	WOOD FRAGE	MENTS	NA] - =
5 		9,8,7,8	18			0		
	SB01	6,6,7,12	18	RED-BROWN S	SILTY CLAY;	0.6		SOIL SAMPLE: 5090C-NY-MW07-SB01 WATER LEVEL MEASURED
<u> </u>	SB02	7,10,9,9	24	MOIST		6		4-23-96, AFTER WELL INSTALLED SOIL SAMPLE: 5090C-NY-MW07-SB02
10-	,	7,10,3,3						
<u> </u>			0	SAME AS ABO	OVE WITH	NA		_
<u> </u>	SB03	11,11,16,16	24	ANGULAR FINI		3.4		SOIL SAMPLE: 5090C-NY-MW07-SB03 -
—15— —		10,12,10,14	16			0		
								-
<u> </u>				BOTTOM OF S	BORING @ 18.2 F	-		WELL CONSTRUCTED 4-23-96
20				BUTTOM OF E	10.2 F	1.		DIFFICULT TO IDENTIFY TOP OF WATER TABLE DURING DRILLING
								(USING OBSERVATIONS OF MOISTURE CONTENT OF SOIL
					•			IN SPLIT-SPOON SAMPLES).
25								
					•			Getinge Confidential -
								Information -

APPENDIX B

Laboratory Data Report, Henrietta, NY



Page: 1 of, 3

2501523 LLI Sample No. WW

Collected: 4/26/90

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/17/90

5090C-NY-MW01-GW01 Water Sample

SA: Phase III 02 50900 M1G1- SDG#: MDT05-13

NO.

ANALYSIS NAME

TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 . Princeton NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED

LIMIT OF RESULTS

QUANTITATION UNITS

See Page

ENVIRON Comporation - NJ 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative at (717) 656-2300 Katherine A. klinefelter 04:35:55 D 0002 4 125758 513664 0.00 00044200 ASR000

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles







Page: 2 of · 3

LLI Sample No. WW 2501523 collected: 4/26/96 by CC

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/17/90

5090C-NY-MW01-GW01 Water Sample

SA: Phase III 02-5090C M1G1- SDG#: MDT05-13

Account No: 07546

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

Princeton NJ 08540

P.O. 02-5090C

Rel.

AS RECEIVED

LIMIT OF

RESULTS QUANTITATION UNITS

CL Volatiles by 8240 - Water

ANALYSIS NAME

ì				
258	Chloromethane	· N.D.	5.	ug/l
1257 -	Bromomethane	N.D.	5.	ug/l
13492	Vinyl Chloride	N.D.	5.	ug/l
1494	Chloroethane	N.D.	5.	ug/l
1497	Methylene Chloride	N.D.	5.	ug/l
3498	Acetone	N.O.	20.	ug/l
3499	Carbon Disulfide	N.D.	5.	ug/l
13500	1,1-Dichloroethene	N.D.	5.	ug/l
3501	1,1-Dichloroethane	N.D.	·5.	ug/l
3503	Chloroform	N.D.	5.	ug/l
3504	1,2-Dichloroethane	N.D.	. 5.	ug/l
10316	2-Butanone	N.D.	10.	ug/l
3505	1,1,1-Trichloroethane	N.D.	٠ 5 .	ug/l
3506	Carbon Tetrachloride	. N.D.	5.	ug/l
3507	Vinyl Acetate	N.D.	10.	ug/l
3508	Bromodichloromethane -	N.D.	5.	ug/l
3509	1,2-Dichloropropane	: N.D.	5.	ug/l
3516	cis-1,3-Dichtoropropene	N.D.	5.	ug/l
[;] 3511	Trichloroethene	. 860.	5.	ug/l
3512	Dibromochtoromethane	N.D.	5.	ug/l
,3513	1,1,2-Trichloroethane	N.D.	5.	ug/l
,3515	Benzene	N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	5.	ug/l
3518	Bromoform	N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	N.D.	10.	ug/l
13520	2-Hexanone	N.D.	10.	ug/l
3522	Tetrachloroethene	. N. D.	5.	ug/l
3523	1,1,2,2-Tetrachtoroethane	. N.D.	5.	ug/l
3524	Toluene	. N.D.	5.	ug/l
3525	Chlorobenzene ,	N.D.	5.	ug/l
3526	Ethylbenzene	H.D.	5.	ug/l
3528	Styrene	N.D.	5.	ug/l
3529	Xylene (total)	N.D.	5.	ug/l
5780	trans-1,2-Dichloroethene	H.D.	5.	ug/l
6268	cis-1,2-Dichloroethene	13.	5.	ug/l

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





Analysis Repo

LABORATORY CHRONICLE



3 of 3. Page:

2501523 LLI Sample No. WW

Collected: 04/26/96

Submitted: 04/27/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

5090C-NY-MW01-GW01 Water Sample

4592 TCL Volatiles by 8240 - Water

SA: Phase III 02 5090C M1G1- SDG#: MDT05-13

ANALYSIS NAME

METHOD

SW-846 8240B

ANALYSIS

TRIAL DATE AND TIME

04/30/96 0559

See reverse side for explanation of symbols and abbreviations

Clark A. Dougherty

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Page: 1 of

LLI Sample No. WW by CC Collected: 4/26/90

Submitted: 4/27/96 Reported: 5/ 2/96 5/17/90 Discard:

TCL Volatiles by 82-0 - Water

5090C-NY-MW01-GW11 Water Sample

SA: Phase III 02-50900 M1G11 SDG#: MDT05-14

ANALYSIS NAME

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

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RESULTS QUANTITATION

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative at (717) 656-2300 · Katherina A. Klinefelter 125758 513664 04:36:14 D 0002 4 0.00 00044200 ASR000

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Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax 717-656-2681

2216 Rev 10/30/95



Page: 2 of 3

2501524 LLI Sample No. WW

Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96

5/17/90

Discard:

5090C-NY-MW01-GW11 Water Sample

SA: Phase Ill 02 5040C

M1G11 SDG#: MDT05 - 14

CAT ANALYSIS NAME

1258 · Chloromethane

1257

3492

3494

TCL Volatiles by 8240 - Water

... . .. N.D. Bromomethane Vinyl Chloride Chloroethane

3497 Methylene Chloride 3498 . Acetorie 3499 Carbon Disulfide

3500 1,1-Dichloroethene 3501 1,1-Dichloroethane

3503 Chloroform 3504 1.2-Dichloroethane

0316 2-Butanone 1,1,1-Trichloroethung 3505

3506 Carbon Tetrachloride 3507 Vinyl Acetale

3508 Bromodich Loromethune 3509 1,2-Dichloropropane

3516 cis-1,3-Dichloropropone 3511 Trichloroethene 3512 Dibromochloromethane

3513 1,1,2-Trichloroethane 3515 Benzene

3510 trans-1,3-Dichloropu pene 3518 Bromoform

3521 4-Methyl-2-pentanone 3520 2-Hexanone

3522 Tetrachloroethene

3523 1,1,2,2-Tetrachloroethane 3524 Toluene

3525 Chlorobenzene 3526 Ethylbenzene

3528 Styrene 3529 Xylene (total)

trans-1,2-Dichlorpethene 5780

6268 cis-1,2-Dichloroethene Account No: 07546

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

Princeton NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED

LIMIT OF

RESULTS NOTITATION

UNITS

ug/l ug/l ug/l

N.D. ug/l N.D. 5. ug/l

. N.D. 20. ug/l N.D. ug/l

N.D. ug/l N.D. ug/l

" : N.D. ug/lN.D. ua/l "N.D. 10. ug/l

N.D. ug/l N.D. 5. ug/l . N.D. 10. ug/l

· N.D. ug/l N.D. ug/l

N.D. ug/l 1,000. ug/l N.D. ug/l

N.D. ug/l N.D. ug/l ug/l N.D.

N.D. ug/l 10. N.D. ug/l N.D. 10. ug/l

N.D. ug/l N.D. ug/l

N.D. ug/l N.D. ug/l

N.D. ug/l N.D. ug/l N.D.

N.D.

14.

ug/l ug/l ug/l

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



Analysis Repor

LABORATORY CHRONICLE



Page: 3 of

2501524 LLI Sample No. WW

Collected: 04/20/96

ьу сс

Submitted: 04/27/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 ·

Princeton NJ 08540

5090C-NY-MW01-GW11 Water Sample

SA: Phase III 02-50900 M1G11 SDG#: MDT05-14-

ANALYSIS

DATE AND TIME

ANALYST

04/30/96 0636

Clark A. Dougherty

CAT

ANALYSIS NAME ND

4592 TCL Volatiles by 8.240 - Water $_{\odot}$ SW-846 8240B $_{\odot}$

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Page: 1 of 3

LLI Sample No. WW 2500741 collected: 4/25/96 by CC

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

5090C-NY-MW02-GW01 Water Sample

SA: Phase III 02-5090C 50902 SDG#: MDT05-06

CAT

NO. ANALYSIS NAME

4592 TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540 P.O. 02-5090C Rel.

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2 of Page:

P.O. 02-5090C

Rel.

LLI Sample No. WW Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96 Discard: 5/ 9/96

5090C-NY-MW02-GW01 Water Sample

02-5090C SA: Phase III 50902 SDG#: MDT 05-06

AS RECEIVED LIMIT OF

MOITATITHAUD RESULTS

Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

UNITS

FCL Volatiles by 8240 - Water

ANALYSIS NAME

00 ,0				
1258	Chloromethane	Zayar JN.D.	5.	ug/l·
1257 -	Bromomethane	W.D.	5.	ug/l
-3492	Vinyl Chloride	N.D.	5.	ug/l
3494	Chloroethane	3 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ±	5.	ug/l'
3497	Methylene Chloride	N.O.	5.	ug/l .
3498	Acetone	w.D.	20.	ug/l
3499	Carbon Disulfide	g og N.D.	.5.	ug/l
3500	1,1-Dichloroethene	p + N.D.	5.	ug/l
/6501	1.1-Dichloroethane	N.D.	5.	ug/l
1503	Chloroform	HELET W.D.	5.	ug/l
3504	1,2-Dichloroethane	N.D.	5.	ug/l
ე316	2-Butanone	The stands	10.	ug/l
3505	1;1,1-Trichloroethane	THE REPORT OF	5.	ug/l
3506	Carbon Tetrachloride	v ₩E;j;N,D.	5.	ug/l
3507	Vinyl Acetate	medica NaDa	10.	ug/l
3508	Bromodichloromethane	į̃ į̇̃ čilika N.D. ∵	5.	ug/l
3509	1,2-Dichloropropane	of professional participation of the profession of the professional participation of the professional parti	5.	ug/l
3516	cis-1,3-Dichloropropene	modifican N.D.	5.	ug/·l
3511	Trichloroethene	: ∰∰.,2 _# , , J	5.	ug/l
3512	Dibromochloromethane	₩.D.	5.	ug/l
3513	1,1,2-Trichloroethane	N.D.	5.	ug/l
3515	Benzene	÷ ស ប៉ុន្តែកើនរ ជា N₄D३১	5.	ug/l
,3510	trans-1,3-Dichloropropene	N.D.	5.	ug/l
3518	Bromoform	. · N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	ተ 25 ዓ. አ.ው.	10.	ug/l
3520	2-Hexanone	N.D.	10.	ug/l
3522	Tetrachloroethene	N.D.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane		5.	ug/l
3524	Toluene	in High M.D.	5.	ug/l
3525	Chlorobenzene	r Aprilio N.O.	5.	ug/l
¹ 3526	Ethylbenzene	∰ij √in N.D.	5.	ug/l
;3528	Styrene	N.D.	5.	ug/l
3529	Xylene (total)	n.D.	5.	ug/l
5780	trans-1,2-Dichloroethene	% %.D.	5.	ug/l
5268	cis-1,2-Dichloroethene	"" N.D.	5.	ug/t

Questions? Contact your Client Services Representative at (717) 656-2300 Katherine A. Klinefelter

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





LABORATORY CHRONICLE



Page: 3 of

LLI Sample No. WW Collected: 04/25/96

Submitted: 04/26/96

5090C-NY-MW02-GW01 Water Sample

4592 TCL Volatiles by 8240 - Water

SA: Phase III 50902 SDG#: MDT05-06

CAT

ANALYSIS NAME

METHOD

SW-846 8240B

ANALYSIS

TRIAL DATE AND TIME **ANALYST**

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

Princeton NJ 08540

04/30/96 0140

Clark A. Dougherty

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1 of '3. Page:

P.O. 02-5090C

Rel.

2500742 LLI Sample No. WW by CC Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

TCL Volatiles by 8240 - Water

Discard: 5/ 9/96

5090C-NY-MW03-GW01 Water Sample

SA: Phase III 02-5090C 50903 SDG#: MDT05-07

ANALYSIS NAME

· AS RECEIVED

" RESULTS

LIMIT OF QUANTITATION

Account No: 07546 ENVIRON Corporation - NJ

Princeton NJ 08540

214 Carnegie Center, Suite 200

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UNITS

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. ATTN: Mr. Arthur Bozza

12:31:14 D 0002 7

Questions? Contact your Client Services Representative at (717) 656-2300 · Katherine A. Klinefelter 125758 513513 0.00 00044200 ASR000

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





Page: 2 of 3

LLI Sample No. WW 2500742 collected: 4/25/96 by CC

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

3529

5780

Xylene (total)

trans-1,2-Dichloroethene

cis-1,2-Dichloroethene

5090C-NY-MW03-GW01 Water Sample

SA: Phase III 02-50900 50903 SDG#: MDT05-07 Account No: 07546 -ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200. Princeton NJ 08540 P.O. 02-5090C Rel.

AS RECEIVED

i		AS I	(C C E 1 A E D	
CAT		1000	LIMIT OF	
NO.	ANALYSIS NAME	RESULTS	HOITATITHAUD	UNITS
TCL Vo	olatiles by 8240 - Water		•	
1258	Chloromethane	⇒ B. N.D.	5.	ug/l
1257	Bromomethane ·	· · · · · · · · · · · · · · · · · · ·	5.	ug/l
3492	Vinyl Chloride	N.D.	5.	ug/l
3494	Chloroethane	t (mi∰ iN.D.	5.	ug/l
3497	Methylene Chloride	N.D.	5.	ug/l
3498	Acetone	N.D.	20.	ug/l
3499	Carbon Disulfide	* * \ . D.	5.	ug/l
3500	1,1-Dichloroethene	· N.D.	5.	ug/l
3501	1,1-Dichloroethane	N.D.	5.	ug/l
3503	Chloroform	M.D.	5.	ug/l
3504	1,2-Dichloroethane .	N .D.	5.	ug/l
0316	2-Butanone	N.D.	10.	ug/l
13505	1,1,1-Trichloroethane	n.D.	5.	ug/l
, 3506	Carbon Tetrachloride	N.D.	· 5.	ug/l
3507	Vinyl Acetate	N.D.	10.	ug/l
3508	Bromodichloromethane	N.D.	5.	ug/l
3509	1,2-Dichloropropane	N.D.	5.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	5.	ug/l
¹ 3511	Trichloroethene	× "" N.D.	5.	ug/l
3512	Dibromochloromethane	N.D.	5.	ug/l
3513	1,1,2-Trichloroethane	N.D.	5.	ug/l
3515	Benzene	N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	5.	ug/l
3518	Bromoform	N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	" N.D.	10.	ug/l
3520	2-Hexanone	· N.D.	10.	ug/l
3522	Tetrachloroethene	N.D.	5.	ug/l.
3523	1,1,2,2-Tetrachloroethane	N.D.	. 5.	ug/l
3524	Toluene	ND.	5.	ug/l
3525	Chlorobenzene *	M.D.	5.	úg∕l
3526	Ethylbenzene	N.D.	_	ug/l
3528	Styrene	N.D.	5.	ug/l·
7530	V. I	· ·	c	

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

N.D.

w. N.D.

30.... N.D.

ug/l

ug/l

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



LABORATORY CHRONICLE



Page: 3 of 3

2500742 LLI Sample No. WW by CC .

Collected: 04/25/96

Submitted: 04/26/96

5090C-NY-MW03-GW01 Water Sample

4592 TCL Volatiles by 8240 - Water

02-5090C SA: Phase III 50903- SDG#: MDT05-07

CAT

The second secon

NO

ANALYSIS

Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

TRIAL DATE AND TIME

ANALYST ...

1 04/30/96.0216

Clark A. Dougherty

ANALYSIS NAME

SW-846 8240B

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Page: 1. of

2501521 LLI Sample No. WW by CC Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/17/96

5090C-NY-MW04-GW01 Water Sample

SA: Phase III 02-5090C M4G1- SDG#: MDT05-11

ANALYSIŚ NAME

TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 125758 513664 04:35:18 D 0002 4 050 40.00 00048200 ASR000

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles







Page: 2 of

LLI Sample No. WW Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96 5/17/96 Discard:

5090C-NY-MW04-GW01 Water Sample

SA: Phase III 02-50900

M4G1- SDG#: MDT05:11

CAT ANALYSIS NAME NO.

1258

1257

3506

5507د

FCL Volatiles by 8240 - Water

Chloromethane

. Bromomethane

Vinyl Chloride 3492 3494 Chloroethane 3497 Methylene Chloride 3498 Acetone 3499 Carbon Disulfide *ኛ*500 1,1-Dichloroethene 1.1-Dichloroethane 5501 \$50**3** Chloroform 3504 1,2-Dichloroethane 0316 3505 2-Butanone 1,1,1-TrichLoroethane

Bromodichloromethane 3508 1,2-Dichloropropane 3509 1516 cis-1,3-Dichloropropene Trichloroethene i;511 3512 Dibromochloromethane 3513 1,1,2-Trichloroethane

Vinyl Acetate

Carbon Tetrachloride

3515 Benzene 3510 trans-1,3-Dichloropropene 518 د Bromoform 3521 4-Methyl-2-pentanone

3520 2-Hexanone 3522 Tetrachloroethene 1,1,2,2-Tetrachloroethane 3523

3524 Toluene 3525 Chlorobenzene Ethylbenzene [3526 ÷3528 Styrene

Xylene (total) 3529 5780 trans-1,2-Dichloroethene 6268 cis-1,2-Dichloroethene

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

Princeton NJ 08540

UNITS

ug/l

ug/l

ug/l

P.O. 02-5090C Rel.

ug/l ug/l gaar**n.d.** ug/l uq/l N.D. ug/l 20. N.D. ug/l ... 5. N.D. ug/l N.D. ug/l N.D. ug/·l ug/l N.D. uq/l · · · · N . D . . 5. ug/l N.D. ug/l N.D. 10. ug/l ug/l

LIMIT OF

QUANTITATION

AS RECEIVED

N.D.

N.D.

..... N.D.

ug/l N.D. ug/l ...N.D. ug/l grades N.D. ug/l 10. N.D. ug/l N.D. ug/l N.D. 5. ug/l

5.

N.D. Kull N.D. ua/l N.D. 5. ug/l N.D. ug/l N.D. ug/l - 'N.D. ug/l

M.D. ug/l ug/l

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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LABORATORY CHRONICLE



Page: 3 of

LLI Sample No. WW 2501521 by CC

Collected: 04/26/90

Submitted: 04/27/9c

5090C-NY-MW04-GW01 Wares Sample

02-5070C SA: Phase III M4G1- SDG#: MDT05-11

CAT

ANALYSIS NAME NO

METHOD

4592 TCL Volatiles by 8240 - Water SW-846 8240B

Account No: 07546

ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

Princeton NJ 08540

ANALYSIS

ANALYST TRIAL DATE AND TIME

04/30/96 0446 Clark A. Dougherty

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Page: 1 of

2500740 LLI Sample No. WW Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

5/ 9/96

5090C-NY-MW05-GW01 Water Sample

SA: Phase III 02-5090C 50905 SDG#: MDT05-05

ANALYSI'S NAME

4592 TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200' Princeton NJ 08540

P.O. 02-5090C Rel.

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Page: 2 of -3

P.O. 02-5090C

Rel.

LLI Sample No. WW 2500740

Collected: 4/25/96

by CC

Submitted: 4/26/96 Reported: 5/ 1/96

5/ 9/96 Discard:

5090C-NY-MW05-GW01 Water Sample

SA: Phase III

ANALYSIS NAME

02-50900

509Q5 SDG#: MDT05-05

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LIMIT OF

Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

" RESULTS

QUANTITATION UNITS

TCL Volatiles by 8240 - Water

	•			
1258	Chloromethane ,	Arrest N.D.	5.	ug/l
1257 .	Bromomethane	₩ \\ \\ N.D. `	5.	ug/l
.3492	Vinyl Chloride	n.D.	5.	ug∕l
3494	Chloroethane	THE NAME OF	5.	ug/l
3497	Methylene Chloride	N.D.	5.	ug/t
3498	Acetone	39,	20.	ug/l
3499	Carbon Disulfide	TEST MADA	5.	ug/l
3500	1,1-Dichloroethene	.: N;D.	5.	ug/l
3501	1,1-Dichloroethane	N.D.	5.	ug/l
3503	Chloroform	N.D.	5.	ug/l
3504	1,2-Dichloroethane	""." • N.D.	5.	ug/t
0316	2-Butanoné	N.D.	10.	ug/l
3505	1,1,1-Trichloroethane	N.D.	5.	ug/l
3506	Carbon Tetrachloride	'N,D.	5.	ug/l
3507	Vinyl Acetate	N.D.	10.	ug/l
3508	Bromodichloromethane	N.D.	5.	ug/l
3509	1,2-Dichloropropane	" N.D.	5.	ug/l
3516	cis-1,3-Dichloropropene	··· N.D.	5.	ug/t
3511	Trichloroethene	. H.D.	5.	ug/l
3512	Dibromochloromethane	N.D.	5.	ug/l
3513	1,1,2-Trichloroethane	N.D.	` 5.	ug/l
3515	Benzene	N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene	M.D.	5.	ug/l
3518	Bromoform	ijid N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	H. NID.	10.	ug/l·
3520	2-Hexanone	N.D.	10.	ug/l
3522	Tetrachloroethene	* N.D.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	5.	ug/l
3524	Toluene	. N.D.	5.	ug/l
3525	Chlorobenzene	N.D.	5.	ug/l
3526	Ethylbenzene	Ä N.D.	5.	ug/l
3528	Styrene	N.D.	5.	ug/l
3529	Xylene (total)	N.D.	5.	ug/l
5780	trans-1,2-Dichloroethene	TEST " N.D.	5.	ug/l
6268	cis-1,2-Dichloroethène	^{ke} N.D.	5.	ug/l
				- '

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- 4-. 10/30/95

Respectfully Submitted Michele McClarin, B.A.



LABORATORY CHRONICLE



Page: 3 of

2500740 LLI Sample No. WW by CC

Collected: 04/25/96

Submitted: 04/26/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

5090C-NY-MW05-GW01 Water Sample

4592 TCL Volatiles by 8240 - Water

SA: Phase III 02-50900 50905 SDG#: MDT05-05

NO

METHOD

ANALYSIS

ANALYST TRIAL DATE AND TIME

04/30/96 0104

Clark A. Dougherty

CAT

ANALYSIS NAME

SW-846 8240B

MEMBER

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1 of Page:

2500739 LLI Sample No. WW Collected: 4/25/96 Бу СС

Submitted: 4/26/96 Reported: 5/ 1/96

5/ 9/96 Discard:

5090C-NY-MWO6-GW01 Water Sample

SA: Phase III 02-50900 50906 SDG#: MDT05-04

ANALYSIS NAME NO.

> 1 COPY TO 1 COPY TO

TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C

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ATTN: Mr. Arthur Bozza

ENVIRON Corporation - NJ Data Package Group

> Questions? Contact your Client Services Representative at (717) 656-2300 .Katherine A. Klinefelter 12:29:41 D 0002 7 125758 513513 40.00 00048200 ASR000 050

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Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

ug/l

Page: 2 of

2500739 LLI Sample No. WW Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

5090C-NY-MW06-GW01 Water Sample

SA: Phase III 50906 SDG#: MDT05-04

AS RECEIVED

LIMIT OF UNITS RESULTS MOITATITHAUD ANALYSIS NAME

TCL Volatiles by 8240 - Water

1258 · Chloromethane granda Nada ug/l 1257 Bromomethane HID. ug/l 3492 Vinyl Chloride N.D. ug/l 3494 Chloroethane ug/l 3497 H.D. Methylene Chloride 20. ug/l 3498 Acetone 5. N.D. uq/l 3499 Carbon Disulfide . 1,1-Dichloroethene ug/l 3500 ug/l .. N.D. 3501 1,1-Dichloroethane · · · N.D. 5. Chloroform ug/l 3503 N.D. ug/l E DENID 1,2-Dichloroethane 3504 10. uq/l 2-Butanone 0316 5. ug/l N.D. 1,1,1-Trichloroethane 3505 . . . N.D. ug/l 3506 Carbon Tetrachloride 10. Vinyl Acetate N.D. ug/l 3507 N.D. ug/l 3508 Bromodichloromethane N.D. uq/l 1,2-Dichloropropane 3509 5. ug/l 35 16 cis-1,3-Dichloropropene ug/l 3511 Trichloroethene N.D. Dibromochloromethane ug/l 3512 ug/l 3513 1,1,2-Trichloroethane ug/l Benzene N.D. 3515 N.D. ug/l trans-1,3-Dichloropropene 3510 N.D. ug/l 3518 Bromoform N.P. 10. ug/l 4-Methyl-2-pentanone 3521 ug/l N.D. 3520 2-Hexanone Tetrachloroethene N.D. ug/l 3522 · N.D. ug/l 1,1,2,2-Tetrachloroethane 3523 N.D. ug/l 3524 Toluene N.D. ug/l 3525 Chlorobenzene uq/l N.D. 3526 Ethylbenzene 3528 Styrene N.D. ug/l I... N.D. ug/l 35.29 Xylene (total) H.D. trans-1,2-Dichloroethene . ug/l 5780 cis-1,2-Dichloroethene

P.O. 02-50900 Rel.

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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LABORATORY CHRONICLE



Page: 3 of 3

LLI Sample No. WW 2500739 collected: 04/25/96 by CC

Submitted: 04/26/96

5090C-NY-MW06-GW01 Water Sample

SA: Phase III 02-5090C 50906 SDG#: MDT05-04

CAT

O ANALYSIS NAME

. METHOD

ANALYSIS

Account No: 07546 ENVIRON Corporation - NJ

Princeton NJ 08540

214 Carnegie Center, Suite 200 .

TRIAL DATE AND TIME ANALYST

1 04/30/96 0018 Clark A. Dougherty

. 4592 TCL Volatiles by 8240 - Water SW-846 8240B

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Page: 1 of

LLI Sample No. WW 2501522 by CC Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/17/96

5090C-NY-MW07-GW01 Water Sample

`SA: Phase III 02-50900 M7G1- SDG#: MD105-12

CAT

ANALYSIS NAME

TCL Volatiles by 82+0 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

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ATTN: Mr. Arthur Bozza

Question ? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 04:35:33 D 0002 - 4 125758 513664 U.00 UNU44200 ASR000

Respectfully Submitted

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Lancaster Laboratories . 2425 New Holland Pike PO Box 12425 Lancaster PA 17605-2425 717-656-2300 Fax 717-656-2681 Michele McClarin, B.A. Group Leader, GC/MS Volatiles



Page: 2 of .3

LLI Sample No. WW Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/17/96

5090C-NY-MW07-GW01 Water Sample

02-50900 SA: Phase III M7G1- SDG#: MDT05-12

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Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

UNITS

TCL Volatiles by 8240 - Water

ANALYSIS NAME

NO.

, TCL Vo	olatiles by 8240 - Water				
1258	Chloromethane		N.D.	5.	ug/l
1257	Bromomethane		N.D.	5.	ug/l
3492	Vinyl Chloride		.N.D.	5.	ug/l
3494	Chloroethane		N.D.	5.	ug/l
3497	Methylene Chloride		N.D.	5.	ug/l
3498	Acetone .		· N.D.	20.	ug/l
3499	Carbon Disulfide		N.D.	5.	ug/l
3500	1,1-Dichloroethene	•	N.D.	5.	ug/l
3501	1,1-Dichloroethane		N.D.	5.	ug/t
3503	Chloroform		. N.D.	5.	ug/l
3504	1,2-Dichloroethane		N.D.	5.	ug/l
0316	2-Butanone		N.D.	10.	ug/l
3505	1,1;1-Trichloroethune		N.D.	5.	ug/l
3506	Carbon Tetrachtoride		N,D.	5.	ug/l
3507	Vinyl Acetate		N.D.	10.	ug/l
3508	Bromodichloromethane		N.D.	5.	ug/l
3509	1,2-Dichloropropane		N.D.	5.	ug/l
3516	cis-1,3-Dichloropropene		N.O.	5.	ug/l
3511	Trichloroethene		200.	. 5.	ug/l
3512	Dibromochloromethane		N.D.	. 5.	ųg/l
3513	1,1,2-Trichloreethane	-	· N.D.	5.	ug/l
ļ 3515	Benzene		N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene		N.D.	5.	ug/l
3518	Bromoform		· N.D.	5.	ug/l
3521	4-Methyl-2-pentanone		N.D.	10.	ug/l
3520	2-Hexanone		N.D.	10.	ug/l
3522	Tetrachloroethene		N.D.	5	ug/l
3523	1,1,2,2-Tetrachloroethane		N.D.	5.	ug/l
3524	Toluene		N.D.	5.	ug/l
3525	Chlorobenzene		. N.D.	5.	ug/l
3526	Ethylbenzene		H.D.	5.	ug/l
3528	Styrene		N.D.	5.	ug/l
3529	Xylene (total)		N.D.	5	ug/l
\ 5780	trans-1,2-Dichloroethene		" · 2. J	5.	ug/l
6268	cis-1,2-Dichloroethene		560.	5.	ug/l

P.O. 02-5090C Rel.

Questions? Contact your Client Services Representative Katherine A. klinefelter at (717) 656-2300

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LABORATORY CHRONICLE



Page: 3 of 3

LLI Sample No. WW 250 collected: 04/20/90 by CC

Submitted: 04/27/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

Princeton NJ 08540

5090C-NY-MW07-GW01 Warer Sample

4592 TCL Volatiles by 8240 - Water

SA: Phase III 02-5090C M7G1- SDG#: MD105-12

CAT

NO ANALYSIS NAME

METHOD

SW-846 8240B

ANALYSIS

TRIAL DATE AND TIME A

ANALYST

04/30/96 0522 Cla

Clark A. Dougherty

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Page: 1 of 3:

LLI Sample No. WW 2500743 collected: 4/25/96 by CC

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

5090C-NY-FB01-042596 Water Sample '

SA: Phase III 02-5090C CFB01 SDG#: MDT05-08FB

NO. ANALYSIS NAME

NO. ANALTSIS NAME

92 TCL Volatiles by 82+0 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540 P.O. 02-5090C Rel.

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: RESULTS QUANTITATION UNITS

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 12:31:44 D 0002 7 125758 513513 050 0.00 00044200 ASR000

Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles

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Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax 717-656-2681

2216 Pm. 17-30/95



Page: 2 of

2500743 LLI Sample No. WW by CC Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

CAT

NO.

5090C-NY-FB01-042596 Water Sample \

02-5090C SA: Phase III. CFB01 SDG#: MDT05-08FB

ANALYSIS NAME

trans-1,2-Dichloroethene

cis-1,2-Dichloroethene

529 5780

6268

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200. Princeton NJ 08540

P.O. 02-5090C Rel.

LIMIT OF RESULTS UNITS QUANTITATION

ug/l

ug/l

troi u	eletiles by 8240 - Uston			•
Γ.::	olatiles by 8240 - Water	•		
258	Chloromethane	N.D.	5.	ug/l
1257	Bromomethane	N.D.	5.	ug/l
3492	Vinyl Chloride	N.D.	5.	ug/l
5 494	Chloroethane	N.D.	5.	ug/l
497	Methylene Chloride	N.D.	5	ug/l
498ر	Acetone	". N.D.	20.	ug/l
3499	Carbon Disulfide	N.D.	5.	ug/l
7500	1.1-Dichloroethene	N.D.	5.	ug/l
501	1,1-Dichloroethane	N.D.	5.	ug/l
503	Chloroform	i in N.D.	5.	ug/l
£ 3504	1,2-Dichloroethane	N.D.	5.	-g/ l
0316	2-Butanone	. N.D.	10.	_g/l
#bd 505	1.1.1-TrichLoroethane	N.D.	5.	ug/l
506	Carbon Tetrachloride	: N.D.	5.	ug/l
507ر کو	Vinyl Acetate	N.D.	10.	ug/l
3508	Bromodichloromethane	N.D.	5.	ug/l
7509	1,2-Dichloropropane	N.D.	5.	ug/l
516	cis-1,3-Dichloropropene	N.D.	. 5.	ug/l
511	Trichloroethene	N.D.	5.	ug/l
35 12 ^{الشا}	Dibromochloromethane	N.D.	5.	ug/l
35 13	1,1,2-Trichloroethane	N.D.	5.	ug/l
√∴ 1515	Benzene	N.D.	5.	ug/l
510	trans-1,3-Dichloropropene	· N.D.	5.	ug/l
518 د	Bromoform	N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	· N.D.	10.	ug/l
7520	2-Hexanone	. N.D.	10.	ug/l
522	Tetrachloroethene	N.D.	5.	ug/l
523	1,1,2,2-Tetrachluroethane	N.D.	5.	ug/l
5524 🖾	Toluene	N.D.	5.	'ug/l
3525	Chlorobenzene .	∴ N.D.	5.	ug/l
∜∵¦ 526	Ethylbenzene	₽.D.	5.	ug/l
528	Styrene	N.D.	, 5.	ug/l
5295	Xylene (total)	N.D.	5.	ug/l

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

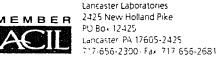
N.D.

N.D.

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles





LABORATORY CHRONICLE



Page: 3 of 3

2500743 LLI Sample No. WW Collected: 04/25/96

Бу СС

Submitted: 04/26/96

5090C-NY-FB01-042596 Water Sample

SA: Phase III

02-5090C

CFBO1 SDG#: MDTO5-08FB

CAT

ANALYSIS NAME

METHOD

ANALYSIS

Account No: 07546 ENVIRON Corporation - NJ

Princeton NJ 08540

214 Carnegie Center, Suite 200

TRIAL DATE AND TIME

ANALYST .

4592 TCL Volatiles by 8240 - Water SW-846 8240B 04/30/96 0252 Clark A. Dougherty

> **Getinge Confidential** Information





Page: 1 of

LLI Sample No. WW 2501540 Collected: 4/26/96

Submitted: 4/27/96 Reported: 5/ 2/96

Discard: 5/10/96

5090C-NY-TB02-042696 Water Sample

02-5090C SA: Phase III TB-02 SDG#: MDT05-15TB*

ANALYSIS NAME

TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton, NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED LIMIT OF

RESULTS QUANTITATION UNITS

See Page

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ATTN: Mr. Arthur Bozza

Questione? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 04:36:40 D 0002 1 125758 513672 050 40.00 00048200 ASR000

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



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Page: 2 of 3

LLI Sample No. WW 2501540 collected: 4/26/96 by CC

Submitted: 4/27/90 Reported: 5/ 2/96 Discard: 5/10/90

5090C-NY-TB02-042696 Water Sample '

SA: Phase III 02 50900 - TB-02 SDG#: MDT05-1516*

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton, NJ 08540

AS RECEIVED

P.O. 02-5090C Rel.

CAT LIMIT OF NO. ANALYSIS NAME RESULTS QUANTITATION UNITS

TCL Volatiles by 8240 - Water

1258	Chloromethane	. N.D.	5.	ug/l
1257.	Bromomethane	N.D.	5∙.	ug/l
3492	Vinyl Chloride	N.D.	5.	ug/l
3494	Chloroethane	N.D.	5.	ug/l
3497	Methylene Chloride	N.D.	5.	ug/l
3498	Acetone	· N.D.	20.	ug/l
3499	Carbon Disulfide	· N.D.	5.	ug/l
3500	1,1-Dichloroethene	N.D.	5.	ug/l
3501	1,1-Dichloroethane	N.O.	5.	ug/l
3503	Chloroform	N.D.	5.	ug/l
3504	1,2-Dichloroethane	. N.D.	5.	ug/l
0316	2-Butanone	N.D.	10.	ug/l
3505	1,1,1-Trichloroethane	N.D.	5.	ug/l
3506	Carbon Tetrachlunide	N.D.	5.	ug/l
3507	Vinyl Acetate	и.р.	10.	ug/l
3508	Bromodichloromethane	n.D.	5.	ug/l
3509	1,2-Dichloropropane	N,D,	5:	ug/l
35 16	cis-1,3-Dichtoropropene	N.D.	5.	ug/l
3511·	Trichloroethene	. 1 . J	5.	ug/l
3512	Dibromochloromethane	N.D.	5.	ug/l.
. 3513	1,1,2-Trichloroethane`	. N.D.	5.	ug/l
3515	Benzene ·	N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	5.	ug/l
3518	Bromoform	N.D.	5.	ug/l
. 3521	4-Methyl-2-pentanone	N.D.	10.	ug/l
3520	2-Hexanone	N.D.	10.	ug/l
35.22	Tetrachloroethene	N.D.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	· 5.	ug/l
3524	Toluene ·	N.D.	• 5.	ug/l
3525	Chlorobenzene	N.D.	5.	ug/l
3526	Ethylbenzene	N.D.	5.	ug/l
3528	Styrene	. N.D.	. 5.	ug/l
3529	Xylene (total)	. N.D.	5.	ug/l
, 5780	trans-1,2-Dichloroethene	N.D.	5.	ug/(
6268	cis-1,2-Dichloroethene	N.D.	5.	ug/l

Questions? Contact your Client Services Representative Kathering A. Klinefelter at (717) 656-2300

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Analysis Repor

LABORATORY CHRONICLE



Page: 3 of 3.

LLI Sample No. WW 2501540 collected: 04/26/90 by CC

Submitted: 04/27/96

5090C-NY-TB02-042696 Water Sample

SA: Phase III 00 50900 TB-02 SDG#: MDT05 15 TG*

CAT

O ANALYSIS NAME

METHOD

4592 [TCL Volatiles by 8:240 - Water | \$W-846 8240B

Account No: 07546

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200 Princeton, NJ 08540

· ANALYSIS

TRIAL ,DATE AND TIME

ANALYST

04/30/96 0801

David P. Chandler, Jr.

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Lancaster Laboratories



Page: 1 of

2500744 LLI Sample No. WW by cc Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

5/ 9/96 Discard:

5090C-NY-FB02-042596 Water Sample

SA: Phase III 02-50900 CFB02 SDG#: MDT05-09FB

CAT

4592

NO.

ANALYSIS NAME

TCL Volatiles by 8240 - Water

Account No: 07546

ENVIRON Corporation - NJ ' 214 Carnegie Center, Suite 200. Princeton NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED

LIMIT OF

RESULTS QUANTITATION

UNITS

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Questions? Contact your Client Services Representative at (717) 656-2300 Katherine A. Klinefelter 125758 513513 12:32:19 D 0002 0.00 00044200 ASR000

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Lancaster Laboratories

Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



2 of Page:

2500744 LLI Sample No. WW Collected: 4/25/96

Submitted: 4/26/96 Reported: 5/ 1/96

5/ 9/96 Discard:

5090C-NY-FB02-042596 Water Sample '

'SA: Phase III 02-5090C

CFB02 SDG#: MDT05-09F6

ANALYSIS NAME

1258

1257

3492

3494

3497

3498

3499

3500

3501 3503

3504

10316

3505

3506

5507 د

3508

3509 3516

3511

3512

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J 5510 518ذ

3521

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i 3522

3523 3524

13525 3526

3528

3529 5780

5268

ITCL Volatiles by 8240 - Water

ENVIRON Corporation - NJ Princeton NJ 08540

> LIMIT OF QUANTITATION

AS RECEIVED

RESULTS

Account No: 07546 214 Carnegie Center, Suite 200

UNITS .

P.O. 02-5090C Rel.

Chloromethane	N.D.	5.	ug/l
Bromomethane	a n.b.	5.	ug/l
Vinyl Chloride	Your E. N.DL	5.	ug/l
Chloroethane	The EgiNaDu	5.	ug/l
Methylene Chloride	W.D.	5.	ug/l
Acetone	- N.D.	20.	ug/l
Carbon Disulfide	" : N.D.	5.	ug/l
1.1-Dichloroethene	N.D.	5.	ug/l
1,1-Dichloroethane	N.D.	5 💂	ug/l
Chloroform	N.D.	5.	ug/l
1,2-Dichloroethane	N.D.	5.	ug/l
2-Butanone	H.D.	10.	ug/l
1,1,1-Trichloroethane	N.D.	5.	ug/l
Carbon Tetrachloride	" N.D.	5.	ug/l
Vinyl Acetate	H.D.	10.	ug/l
Bromodichloromethane	" ' N.D.	5.	ug/l
1,2-Dichloropropane	N.D.	5.	ug/l
cis-1,3-Dichloropropene	N.D.	5.	ug/l
Trichloroethene	" N.D.	5.	ug/l
Dibromochloromethane	. N.D.	5.	ug/l
1.1.2-Trichloroethane	N.D.	5.	ug/l
Benzene	N.D.	5.	ug/l
trans-1,3-Dichloropropene	N.D.	5.	ug/l
Bromoform	· N.D.	5.	ug/l
4-Methyl-2-pentanone	N.D.	10.	ug/l
2-Hexanone	. N.D.	10.	ug/l
Tetrachloroethene	N.D.	5.	ug/l
1,1,2,2-Tetrachloroethane	N.D.	. 5.	ug/l
Toluene	N.D.	5.	ug/l
Chlorobenzene	" ' N,D.	5.	ug/l
Ethylbenzene	N.D.	5.	ug/l
Styrene	" N.D.	5.	ug/l
Xylene (total)	₩.D.	5.	ug/l
trans-1,2-Dichloroethene	N.D.	5.	ug/l
cis-1,2-Dichloroethene	N.D.	5.	· ug/l

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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See reverse side for explanation of symbols and abbreviations



Page: 3 of 3

LLI Sample No. WW Collected: 04/25/96

Submitted: 04/26/96

5090C-NY-FB02-042596 Water Sample

4592 TCL Volatiles by 8240 - Water

SA: Phase III

02-5090C

CFB02 SDG#: MDT05-09FB

SW-846 8240B

ANALYSIS

TRIAL DATE AND TIME

ANALYST .

Account No: 07546 ENVIRON Corporation - NJ

Princeton NJ 08540

214 Carnegie Center, Suite 200

04/30/96 0328

Clark A. Dougherty

CAT

ANALYSIS NAME NO

MEMBER

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Page: 1 of 3

LILI Sample No. WW 2500745 collected: 4/25/96 by CC

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

5090C-NY-TB01-042596 Water Sample

SA: Phase'III . 02-5090C CTB01 SDG#: MDT05-10TB

CAT

NO. ANALYSIS NAME

592 | TCL Volatiles by 8240 - Water

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540 P.O. 02-5090C Rel.

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LIMIT OF.

ESULTS QUANTITATION UNITS

See Page 2

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 12:32:56 D 0002 7 125758 513513 050 0.00 00044200 ASR000

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2016 Rev 10/30/95



Account No: 07546

Princeton NJ 08540

ENVIRON Corporation - NJ

214 Carnegie Center, Suite 200

Page: 2 of 3

LLI Sample No. WW 2500745 collected: 4/25/96 by CC

Submitted: 4/26/96 Reported: 5/ 1/96

Discard: 5/ 9/96

5090C-NY-TB01-042596 Water Sample

SA: Phase III 02-509

CTB01 SDG#: MDT05-10TB

AS RECEIVED

CAT LIMIT OF NO. ANALYSIS NAME RESULTS QUANTITATION UNITS

TCL Volatiles by 8240 - Water

1258	Chloromethane		N.D.	5.	ug/l
1257 -	Bromomethane		N.D.	·5.	ug/l
3492	Vinyl Chloride		N.D.	5.	ug/l
3494	Chloroethane	. :.	N.D.	5	ug/l
3497	Methylene Chloride		N.D.	5.	ug/l
3498	Acetone		N.D.	20.	ug/l
3499	Carbon Disulfide-		ir " · N.D.	5.	ug/l
3500	1,1-Dichloroethene		N.D.	5.	ug/l
3501	1,1-Dichloroethane		N.D.	5.	ug/l
3503	Chloroform	•	N.D.	5 . .	ug/l
3504	1,2-Dichloroethane		N.D.	[,] 5.	ug/l
0316	2-Butanone		N.D.	10.	ug/l
3505	1,1,1-Trichloroethane		N.D.	5.	ug/l.
3506	Carbon Tetrachloride		N.D.	5.	ug/l
3507	Vinyl Acetate		N.D.	10.	ug/l
3508	Bromodichloromethage		N.D.	5.	ug/l
3509	1,2-Dichloropropane		N.D.	5. •	ug/l
3516	cis-1,3-Dichtoropropene		N.D.	5.	ug/l
3511	Trichloroethene		N.D.	5.	uġ/l
3512	Dibromochtoromethane		N.D.	5.	ug/l
3513	1,1,2-Trichloroethan≏		N.O.	5.	ug/l
3515	Benzene		N.D.	5.	ug/l
3510	trans-1,3-Dichloropr⊃pene		· N.D.	5.	ug/l
3518	Bromoform .		N.D.	5.	ug/l
3521	4-Methyl-2-pentanone	•	N.D.	10.	ug/l
3520	2-Hexanone	•	N.D.	10.	ug/l
3522	Tetrachloroethenc		N.D.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	•	. N.D.	5.	ug/l
3524	Toluene		N.D.	5.	ug/l
3525	Chlorobenzene		B N.D.	5	ug/l
3526	Ethylbenzene		N.D.	5.	ug/l
3528	Styrene		N.D.	5.	ug/l
3529	Xylene (total)	•	. N.D.	5.	ug/l
5780	trans-1,2-Dichloroethene		N.D.	5.	ug/l
6268	cis-1,2-Dichloroethene		N.D.	5.	ug/l

P.O. 02-5090C Rel.

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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.



3 of Page:

LLI Sample No. WW

2500745

Collected: 04/25/96

Submitted: 04/26/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200

Princeton NJ 08540.

5090C-NY-TB01-042596 Water Sample

SA: Phase III

02-50900

CTBO1 SDG#: MDT05-101B

CAT

The second secon

ANALYSIS

DATE AND TIME TRIAL

ANALYST

04/30/96 0404

See reverse side for explanation of symbols and abbreviations

Clark A. Dougherty

ANALYSIS NAME

4592 TCL Volatiles by 8240 - Water SW-846 8240B

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Page: 1 of

2499216 LLI Sample No. SW ьу сс Collected: 4/22/96

Submitted: 4/24/96 Reported: 4/30/96 Discard: 5/15/96

5090C-NY-MW07-SB01 Soil Sample SA: Phase III 02-5090C · MDT - Rochester, NY 7SBQ1 SDG#: MDT05-01

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED

LIMIT OF RESULTS MOITATITHAUD

UNITS

LIMIT OF RESULTS > QUANTITATION

DRY WEIGHT

TCL Volatiles by 8240

ANALYSIS NAME

4593 2111

See Page 13.8 0.5 Moisture "Moisture" represents the loss in weight of the sample after drying with an

infrared lamp at 150 degrees Celsius.

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 03:55:27 D 0002 3 125758 513119 40.00 00052450 ASR000

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Page: 2 of 3

DRY WEIGHT

LLI Sample No. SW 2499216 collected: 4/22/96 by CC.

Submitted: 4/24/96 Reported: 4/30/96

Discard: 5/15/96

5090C-NY-MW07-SB01 Soil Sample SA: Phase III 02-5090C

MDT - Rochester, NY 7SB01 SDG#: MDT05-01 Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

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CA	Γ	gy n. ·	LIMIT OF		444 C 3 197	LIMIT OF	
ON D	. ANALYSIS NAME	RESULTS	DUANTITATION	UNITS	RESULTS	MOITALILMEND	
י זרו	Volatiles by 8240						
. 102	votatites by dead						
434	Chloromethane	, N.D.	5.	ug/kg	. N.D.	6.	
3435		: . N.D.	5.	ug/kg	N.D.	6.	
8436		N.D.	5.	ug/kg	N.D	6.	
43	•	N.D.	5.	ug/kg	· N.D.	6.	
440		21.	5.,	ug/kg	25	6.	
		12.	J 20.	ug/kg	14.	23.	
4076	•	. N.D.	5.	ug/kg	N.D.	6.	
1180		N.D.	5.	ug/kg	N.D.	6.	
.442	•	· N.D.	5.	ug/kg	N.D.	6.	
444	•	". · 1.	J 5.	ug/kg		1 6.	
3445		N.D.	5.	ug/kg	N.D.	6.	
408		N.D.	10.	ug/kg	ATT STORMER	12.	
.446		N.D.	5.	ug/kg	N.D.	6.	
3 44		N.D.	5.	ug/kg	N.D.	6.	
-09		N.D.	10.	ug/kg	N.D.	12.	
3448		N.D.	5.	ug/kg·	e egiba NiΩ je	6.	
:: 1450		N.C.	`5.	ug/kg	N.D	6.	
1454	• •	N.D.	5.	ug/kg	N.D.	6.	
181		. 1១.	5.	ug/kg	12.	6.	
3452		N.D.	5.	ug/kg	N.D.	6. ·	
4453		N.D.	5.	ug/kg	N.D.	6.	
1187		N.D.	5.	ug/kg	N.D.	6.	
45		N.D.	5.	ug/kg	N.D.	6.	
456 🤃		. N.D.	. 5.	ug/kg	PER NID.	6.	
¥108		N.D.	10.	ug/kg	N.D.	12.	
::: v107		N.D.	10.	ug/kg		12.	
45	7 Tetrachloroethene	N.D.	5.	ug/kg	N.O.A.	6.	
449	1,1,2,2-Tetrachloroethane	N.D.	5.	ug/kg		6.	
1183		N.D.	5.	ug/kg	N.D.	6.	
1184	4 Chlorobenzene	N.D.	5.	ug/kg	N.D.	۶.	
458		N.D.	5.	ug/kg	N.Dr	6.	
∰ ² 117		N.D.	5.	ug/kg	N.D.	. 6.	
35. ا		W.D.	5.	ug/kg	Min NiDe	6.	
` ի187		N.D.	5.	ug/kg	: N.D.	6.	
;⊹ \$27°	7 cis-1,2-Dichloroethene	10.	5.	ug/kg	11.	6.	

AS RECEIVED

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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Page: 3 of



LLI Sample No. SW 2499216 Collected: 04/22/90 Collected: 04/22/96

Submitted: 04/24/96 .

5090C-NY-MW07-SB01 Suil Sample SA: Phase III 02-5090C MDT - Rochester, NY 7SB01 SDG#: MDT05-01

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

CAT ANALYSIS NAME

METHOD

ANALYSIS TRIAL DATE AND TIME ' ANALYST .

4593 TCL Volatiles by 8240

SW-846 8240B

04/26/96 2316

See reverse side for explanation of symbols and abbreviations

Lawrence M. Taylor

2111 Moisture.

EPA 160.3 modified

04/25/96 0340

Lee L. Munro

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1 of

LLI Sample No. SW Collected: 4/22/96 by CC

Submitted: 4/24/96 Reported: 4/30/96

5/15/90 Discard:

ANALYSIS NAME

NO.

5090C-NY-MW07-SB02 Soil Sample SA: Phase III 02-5090C MDT - Rochester, NY 7SB02 SDG#: MDT05-02

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

P.O. 02-5090C Rel.

AS RECEIVED

LIMIT OF RESULTS QUANTITATION

See Page

TCL Volatiles by 8240 0.5 10.2 % by wt. Moisture "Moisture" represents the loss in weight of the sample after drying with an

infrared lamp at 150 degrees Celsius.

DRY WEIGHT

RESULTS LIMIT OF ., QUANTITATION

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ATTN: Mr. Arthur Bozza

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300 03:55:49 D 0002 3 125758 513119 0.00 00048450 ASR000

> Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles

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. 2216 Re. 10/30/95

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Information



2 of Page:

DRY WEIGHT

2499217 LLI Sample No. SW Collected: 4/22/96

Submitted: 4/24/96 Reported: 4/30/96

5/15/96 Discard:

5090C-NY-MW07-SB02 Soil Sample SA: Phase III 02-5090C MDT - Rochester, NY 7SB02 SDG#: MDT05-02

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200' Princeton NJ 08540

. P.O. 02-5090C Rel.

, CAT	ANALYSIS NAME	RESULTS .	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
, NO.	ANALISIS NAME	" VEDATIO .	HOLLALLINAOD	ONITS	··· vebhria	MOTIVALLINAUP
tcl v	olatiles by 8240					
	Chloromethane	70 . N.D.	5.	ug/kg .	W.D.	6.
- 3435	Bromomethane .	N.D.	5.	ug/kg	LOS POR MADER	6.
3436	Vinyl Chloride	N.D.	5.	ug/kg		6.
3437	Chloroethane	"" N.D.	5.	ug/kg		6.
11440	Methylene Chloride		5.	ug/kg	1 s align \$2 - [61]	. 6.
4074	Acetone	. , -	J 20.	ug/kg	10. J	22.
4076	Carbon Disulfide	g : " N.D.	5.	ug/kg	on the State of the Design	٠6.
1180	1,1-Dichloroethene	W.D.	5.	ug/kg	N.D.	6.
442	1,1-Dichloroethane	· p. · · N.D.	5.	ug/kg ·	1 (1) (N, D., L.)	6.
: 444	Chloroform	ALD.	5.	ug/kg		6.
3445	1,2-Dichloroethane	N.D.	5.	ug/kg		6.
÷ 085	2-Butanone	N.D.	10.	ug/kg	. The state of NLD.	11.
1446	1,1,1-Trichloroethane	· N.D.	5.	ug/kg	N. D.	6.
,447	Carbon Tetrachloride	N.D.	5.	ug/kg	N.D.	6.
4091	Vinyl Acetate		10.	ug/kg	1 "N.D. "	11.
3448	Bromodichloromethane	N.D.	5.	ug/kg	n in in N.D.	6.
450	1,2-Dichloropropane	N.D.	5.	ug/kg	N,D.	6.
:454	cis-1,3-Dichloropropene	N.D.	5.	ug/kg	N.D.	6.
⁵ 181	Trichloroethene	6.	5.	ugi/kg	· · · · · · · · · · · · · · · · · · ·	6.
3452	- Dibromochloromethane	··· N.D.	5.	ug/kg·	N.Ó.	6.
<u>-</u> }453	1,1,2-Trichloroethane	n.o.	5.	ug/kg	N.D.	6.
182	Benzene	N.D.	5.	ug/kg	N.D.	6.
ji 1451	trans-1,3-Dichloropropene	· N.D.	5.	ug/kg	* ¹¹ *** N. D.,™	6.
3456	Bromoform	N.D.	5.	ug/kg	N.D.,	6.
4108	4-Methyl-2-pentanone	N.D.	10.	ug/kg	N.D.	11.
: 107	2-Hexanone	N.D.	10.	ug/kg	. N.D.	11.
\$457	Tetrachloroethene	N.D.	5.	ug/kg	и.в.,	٠ 6.
7 ,449	1,1,2,2-Tetrachloroethane	· N.D.	5.	ug/kg	N.D.	6.
1183	Toluene	N.D.	5.	ug/kg	N.D.	6.
1184	Chlorobenzene	N.D.	5.	ug/kg	N,D.	. 6∴
458	· Ethylbenzene	N.D.	5.	ug/kg	N.D.	6.
, 5117	Styrene	N.D.	5.	ug/kg	N.D.	6.
3355	Xylene (total)	N.D.	5.	ug/kg	N.D.	6.
6187	trans-1,2-Dichloroethene	" N.D.	5.	ug/kg	N.D.	6.
\$277	cis-1,2-Dichloroethene	. 16.	5.	ug/kg	18.	6.

AS RECEIVED

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax 717-656-2681

Analysis Repor

LABORATORY CHRONICLE



Page: 3 of

LLI Sample No. SW Collected: 04/22/96

Submitted: 04/24/96

5090C-NY-MW07-SB02 Soil Sample SA: Phase III 02-5090C MDT - Rochester, NY 7SBQ2 SDG#: MDT05-02

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

ANALYSIS NAME

METHOD

ANALYSIS

DATE AND TIME TRIAL

ANALYST

4593 TCL Volatiles by 8240

SW-846 8240B

04/26/96 2358

L. Alberto Rodgiguez

2111 Moisture

EPA 160.3 modified

04/25/96 0353

Lee L. Munro

7-656-7300 Fax 217-6

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Information



Page: 2 of 3

LLI Sample No. SW 2499218 collected: 4/22/96 by cc

Submitted: 4/24/96 Reported: 4/30/96

Discard: 5/15/96

5090C-NY-MW07-SB03 Soil Sample SA: Phase III 02-5090C MDT - Rochester, NY 7SB03 SDG#: MDT05-03 Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540 P.O. 02-5090C Rel.

AS RECEIVED DRY WEIGHT
LIMIT OF LIMIT OF
ANALYSIS NAME RESULTS QUANTITATION UNITS RESULTS QUANTITATION

TCI	Volatiles	hv	R240
ILL	volatites	Dγ	0640

. {	•	_						
3434	Chloromethane		N.D.	5.	ug/kg	N.D.	6.	
3435	Bromomethane	÷ ;	N.D.	5.	ug/kg	Part Land N.D.	6.	
. 1 3436	Vinyl Chloride	4	N.D.	. 5 .	ug/kg	e. Pr NuD⊊E	6.	
3437	Chloroethane		, N.D.	5.	ug/kg	1 (1) N.D. (1)	6.	
3440	Methylene Chloride		4.]	5	ug/kg	5.1.574 J	6.	
4074	Acetone	·	71. J	20.	ug/kg	الى 13.	2 2.	
4076	Carbon Disulfide		N.D.	5.	ug/kg	N.D.	6.	
1180	1.1-Dichloroethene	•	N.D.	5.	ug/kg' ·	N.D.	6.	
3442	1,1-Dichloroethane		N.D.	5.	ug/kg	N.D.,	6.	
3444	Chloroform		N.D.	5.	ug/kg ·	N.D.	6.	
3445	1,2-Dichloroethane	• • • • • • • • • • • • • • • • • • • •	N.D.	5.	ug/kg	N.D.	6.	
14085	2-Butanone		N.D.	10.	ug/kg	N.D.	11.	
13446	1,1,1-Trichloroethane	•	N.D.	5.	ug/kg .	₩.D.	6.	
3447	Carbon Tetrachloride	•••	и.р.	5.	ug/kg	N.D.	6.	
4091	Vinyl Acetate	• • •	N.D.	10.	ug/kg	N.D.	11.	
3448	Bromodichloromethane		N.D.	5.	ug/kg	₩.D.	6.	
. 3450	1,2-Dichloropropane	; •	N.D.	5.	ug/kg	N,D.	, 6 .	
3454	cis-1,3-Dichloropropene		N.D.	5.	ug/kg	N.D.	. 6.	
1181	Trichloroethene	•	15.	5.	ug/kg	17.	6.	
3452	Dibromochloromethane		N.D.	5.	ug/kg	¥.0:	6.	
13453	1,1,2-Trichloroethane	· · ·	N.D.	5.	ug/kg	N.D., ;	6.	
1182	Benzene		N.D.	5.	ug/kg	N.D.	6.	
3451	trans-1,3-Dichloropropene	٠,٠	N.D.	5.	ug/kg	N.D.	6.	
3456	Bromoform		N.D.	5.	ug/kg	N.D.	6.	
4108	4-Methyl-2-pentanone	•	N.D.	10.	ug/kg	N.D.	11.	
i 4107	2. Hexanone	; ·	N.D.	10.	ug/ky	N.D.	11.	
3457	Tetrachloroethene	•	N.D.	5.	ug/kg	N,D,	. 6.	
3449	1,1,2,2.Tetrachloroethane	٠.	N.D.	.5.	uġ/kg	H.D.	6.	
1183	Toluene		N.D.	٠ 5.	ug/kg .	, N.D.	6.	
1184	Chlorobenzene		N.D.	5.	ug/kg · ·	· N.D	. 6 .	
3458	Ethylbenzene	·	N.D.	5.	ug/kg	N.D.	6.	
4117	Styrene		N.D.	5.	ug/kg	N.D.	6.	
3355	Xylene (total)		N.D.	5.	ug/kg .	, N.D.	6.	
, 6187	trans-1,2-Dichloroethene		N.D.	5.	ug/kg	N.D.	6.	
6277	cis-1,2-Dichloroethene		15.	. 5.	ug/kg	17.	6.	

Questions? Contact your Client Services Representative Katherine A. Klinefelter at (717) 656-2300

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Respectfully Submitted Michele McClarin, B.A. Group Leader, GC/MS Volatiles



2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 117-656-2300 Fax 217-656-2681

Lancaster Laboratories



Page: 3 of 3

LLI Sample No. SW by CC

Collected: 04/22/96

Submitted: 04/24/96

Account No: 07546 ENVIRON Corporation - NJ 214 Carnegie Center, Suite 200 Princeton NJ 08540

5090C-NY-MW07-SB03 Soil Sample SA: Phase III 02-50900 MDT - Rochester, NY 7SB03 SDG#: MD105-03

ANALYSIS NAME

METHOD

ANALYSIS

DATE AND TIME TRIAL

ANALYST .

4593 TCL Volatiles by 8240

SW-846 8240B

04/27/96 0032

L. Alberto Rodgiguez

2111 Moisture

EPA 160.3 modified

04/25/96 0403

Lee L. Munro

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