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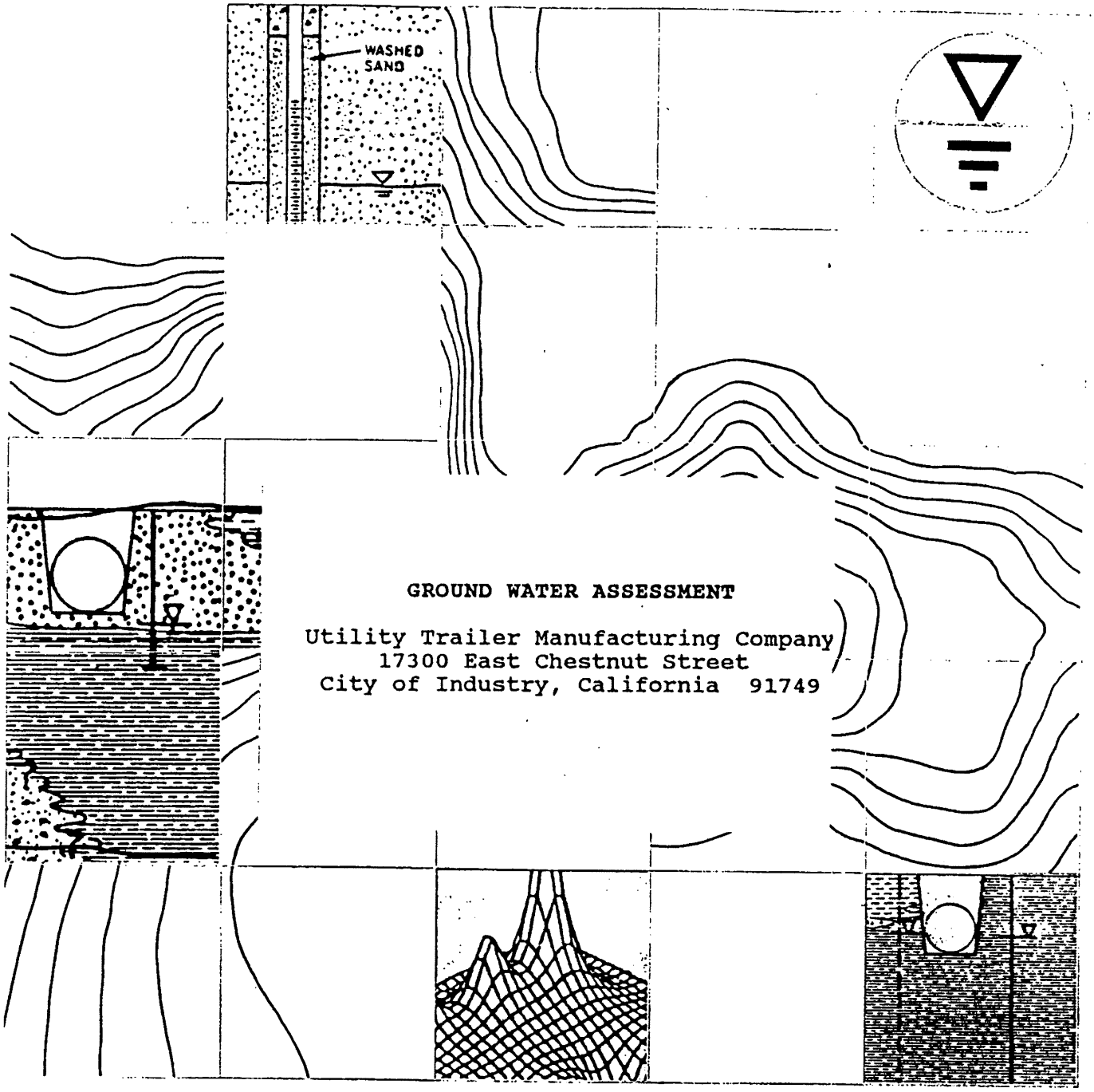

GROUND WATER ASSESSMENT

Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California 91749

HYDRO-FLUENT, INC.

geology • engineering • environmental services

UTM 000270

Ground Water Assessment (June 1989)

Hydro-Fluent, Inc.

UTM 000271

Prepared for:

Utility Trailer Manufacturing, Inc.
P.O. Box 1299
City of Industry, California 91749

Attention: Mr. Gary Little

GROUND WATER ASSESSMENT

Utility Trailer Manufacturing Company
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Project Number 1614-04

June 9, 1989

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GROUND WATER ASSESSMENT
17300 EAST CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

1.0 EXECUTIVE SUMMARY

A ground water and soil site assessment was performed to determine if Utility Trailer Manufacturing, Inc. has contributed volatile halogenated or aromatic hydrocarbons to the soil and/or ground water at their City of Industry manufacturing site. Five ground water monitoring wells were constructed. A total of 24 soil samples and five ground water samples were collected and analyzed for volatile halogenated and aromatic hydrocarbons.

Chemical analyses indicated soil samples were not significantly impacted by volatile halogenated or aromatic hydrocarbons. Ground water beneath the Site has been impacted by halogenated hydrocarbons, predominantly Tetrachloroethene, 1,1,1 Trichloroethane, and Trichloroethene.

Ground water samples collected from monitoring well MW-2, located down-gradient from a drainage conduit at the northwestern portion of the site contained higher concentrations of volatile halogenated hydrocarbons when compared to samples collected from up-gradient wells. Tetrachloroethene was detected at concentrations of 1100 parts per billion at this location. Previous investigations and documented releases of hydrocarbon-bearing effluent have suggested that the drainage conduit is a possible source of halogenated hydrocarbons to the soil and ground water at the northern portion of the site. The new data contained in this assessment supports this theory, but is not conclusive evidence.

2.0 INTRODUCTION

This report presents the findings of a site assessment completed for Utility Trailer Manufacturing, Incorporated. The purpose of this investigation is to determine if Utility Trailer Manufacturing, Inc. has contributed volatile halogenated or aromatic hydrocarbons to the soil and/or ground water at their City of Industry manufacturing site (the "Site").

2.1 Site Description

The Site is located at 17300 East Chestnut Street, in the City of Industry, Los Angeles County, California (Figure 1).

Site is bounded by Chestnut Street and San Jose Creek to the north, Los Angeles Water Company to the east, Somitex Prints of California, Inc. to the south and a vacant dirt field adjacent to Azusa Road to the west (Figure 2). The Site is currently occupied by a main manufacturing building, plant operations building and numerous small operational support buildings. The property is paved with asphalt and concrete, except for two unpaved areas located on the north and west portions of the Site. The northern area is used as an employee parking lot. The western area is used as a quality assurance test track. In the past, the Site has been used for raising livestock and other agricultural activities.

Surface drainage at the Site is by sheet flow to existing drainage conduits and swales. All surface drainage is directed north towards the San Jose flood control channel.

Surface drainage from the adjacent Somitex Prints facility flows across the Site in a northerly direction. This drainage is contained within a concrete-lined conduit from the southern Site boundary until it reaches the northern portion of the Site. Recently, this northern area was paved; however, prior to paving effluent from the conduit was able to seep into the surrounding soil.

2.2 Background

In response to the California Regional Water Quality Control Board's (CRWQCB) request for a subsurface assessment, Utility Trailer Manufacturing, Inc. contracted Triad Engineering to perform a soil characterization. HYDRO-FLUENT, INC. was contracted to construct one two inch diameter discovery well (MW-1) and collect ground water samples for analysis.

Triad Engineering conducted two separate studies in which soil samples were collected from six soil borings which were drilled to a depth of three feet. The borings were located on the northwestern portion of the property adjacent to MW-1 and MW-2 in an area where effluent from the drainage conduit had seeped into the soil. Chemical analysis of the soil samples detected moderate concentrations of volatile halogenated organics from borings located directly adjacent to the drainage conduit, and lower concentrations in the samples collected further away from the conduit, suggesting that effluent originating from the conduit was the source of the hydrocarbons. Grab samples of effluent reportedly originating from the Somitex Prints facility were collected on several occasions by Utility Trailer Manufacturing personnel. Chemical analysis of these samples detected moderate concentrations of volatile halogenated organics. A visit to Somitex Prints by CRWQCB staff is detailed in a report entitled "Subsurface Investigation Work Plan Required", dated March 4, 1988 (CRWQCB File No. AB 105.257). During this inspection water samples were obtained from a puddle at the Somitex/Utility Trailer Manufacturing, Inc. fence line, where the drainage conduit enters the Site. Chemical analysis of this sample detected Tetrachloroethene and hydrocarbons with chain lengths up to C13.

Results of these assessments, were submitted to the CRWQCB and summarized in the HYDRO-FLUENT, INC. report entitled "Discovery Well Assessment", dated December 30, 1988. Subsequent to CRWQCB's review of the report, Utility Trailer Manufacturing requested a meeting to discuss the report and set forth a proposal for additional site assessment. During the proceedings, Utility Trailer Manufacturing agreed to construct four strategically located ground water monitoring wells at the Site. A work plan entitled "Ground Water Assessment and Monitoring Well Construction Workplan", dated February 16, 1989 was prepared by HYDRO-FLUENT, INC. and submitted to the CRWQCB. Subsequent to review of the work plan, the CRWQCB requested installation of an additional ground water monitoring well between the offices and main manufacturing building (Figure 2).

This ground water assessment report discusses the construction, development, and sampling of these five monitoring wells, and the analytical testing of ground water and soil samples obtained from them.

3.0 GEOLOGY

3.1 Regional Geology

The Site is located in the Puente Valley between the San Jose Hills to the north and the Puente Hills to the south. The Site is part of the Peninsular Range physiographic province, and lies within the Northeastern structural block as defined by United States Geological Survey Professional Paper 420-A. The region consists of Quaternary aged sediments and moderately thick Tertiary aged sedimentary strata overlying crystalline basement rocks.

The Tertiary aged sequence consists of fine to coarse-grained marine clastic sedimentary rocks which have been divided into three formational units, the Puente, Repetto, and Pico Formations. The Puente Formation is the oldest Tertiary aged unit and the Pico Formation the youngest.

Quaternary aged sediments consists of unconsolidated to semi-consolidated alluvial and terrace deposits. Recent alluvium consists of coarse boulders, gravels, sand, silts, and some clay. Thickness of the alluvium ranges from a few inches to 100 feet depending upon the distance from the local hills. The thicker deposits occur at the center of the valley. Sediments are generally finer grained with increase distance from the local hills.

The Site overlies the Puente ground water Basin. Water bearing zones exist in the upper member of the Pico Formation and the alluvium deposits. Ground water flow is generally east to west towards the Whittier Narrows area, and generally follows the San Jose Creek flood control channel. Hydraulic conductivity values for the Puente Basin range from 100 to 300 feet per day near the hills, and decrease to 10 to 50 feet per day in the central valley areas.

3.2 Site Geology

The Site is located adjacent to San Jose Creek within Quaternary aged alluvium underlain by Tertiary aged marine sediments. Clayey silts and sandy silts comprise the majority of sediments between the ground surface and 12 feet. Sands interbedded with silty clay predominate the sediments from 12 to 50 feet. The sands range fine- to coarse-grained and commonly contain some clay sized particles. Coarser-grained sands generally occur at a lower depth within the borings and commonly contain approximately ten percent irregular shaped, angular gravel

ranging from one to three inches in diameter. The MW-3 and MW-6 borings were terminated in a suspected impermeable silty clay.

3.3 Local Hydrogeology

The local ground water gradient direction, calculated from ground water elevation data collected for this investigation (Table 1), is to the west-northwest and is shown on Figure 2.

4.0 SOIL BORINGS

On March 2, 3, and 4, 1989 a total of five soil borings ranging from depths of 38 feet to 54.5 feet were drilled by H-F Drilling, Inc. using a 11 inch outer diameter hollow stem auger Mobile B-53 drill rig. Due to drilling difficulties, initial 7 inch diameter pilot borings were drilled to the depth at which ground water was encountered for borings MW-2, MW-5, and MW-6. These borings were re-drilled to their total depth using the 11 inch outer diameter hollow stem auger. All soil borings were converted to monitoring wells.

A geologist under the supervision of a Certified Engineering Geologist was on-site at all times during the soil sampling and monitoring well construction. Discrete relatively undisturbed soil samples were obtained at five foot intervals within the bore hole using a Modified California Split Spoon Sampler. Soil sampling procedures ceased in each boring at the depth at which ground water was encountered. Additional soil samples were collected, below the depth at which ground water was encountered, to verify the presence of suspected impermeable clay horizons.

Soil samples collected for analytical testing had their ends covered with aluminum foil and plastic caps. Each sample was immediately labeled, sealed in a ziplock bag, placed in an ice chest, and chilled to four degrees centigrade before shipment to BCL Associates, Inc. Laboratory, an analytical laboratory certified by the State of California for hazardous waste analysis.

Soil samples were described using the Unified Soil Classification System. A copy of the Unified Soil Classification System and boring logs are presented in Appendix A, chain of custody forms and laboratory analysis results are presented in Appendix B and sample collection handling procedures are presented in Appendix C.

5.0 MONITORING WELLS

Ground water monitoring wells were designed to monitor the ground water quality and to establish a local ground water gradient. Placement of the wells was based on estimated regional and local ground water gradients and was approved by the CRWQCB prior to their installation.

5.1 Monitoring Well Construction

All of the soil borings were completed as ground water monitoring wells by installing 4-inch outer diameter, schedule 40, flush-threaded, PVC well casings through the hollow-stem of the auger. The lower 30 feet of the well casings were factory slotted with 0.010-inch slots. When possible, slotted casing was installed 20 feet below to 10 feet above the depth at which ground water was encountered. Blank schedule 40 PVC casing was installed above the slotted casing to the ground surface.

The casing was suspended above the bottom of the boring with one to two feet of clean Monterey sand in the bottom of the boring. No solvent-based cements of any description were used in well construction and all well casings were steam-cleaned prior to installation. A sand filter pack consisting of No. 0/30 Monterey sand was placed in the well annulus around the casing screen to a point approximately three feet above the slotted casing.

The hollow-stem auger was used as a tremie pipe for emplacement of the filter pack to preclude any bridging of the sand. Development of monitoring well MW-1, the initial two inch outer diameter PVC discovery well, presented problems associated with the amount of fine-grained silt and clay present in the local sediments. Prior to installation of the bentonite seal, wells MW-2 through MW-6 were surged a minimum of 15 minutes using a tight-fitting, four inch diameter surge block to preclude any similar development problems. Surging enabled the sand to settle, forming a "tighter" filter pack. Additional sand was added to a minimum height of three feet above the top of the slotted casing. Sand filter pack was sealed by at least four feet of chipped bentonite (Hole Plug). Bentonite was hydrated in place with bottled distilled water prior to installing the remainder of the annular seal. The remaining annular space was sealed with a cement grout.

The monitoring wells were located in areas where vehicular access was required; therefore, the wells were completed flush with the ground surface and protected by cast-

aluminum boxes with lockable, water-tight lids. Each well box was constructed in manner which allows drainage away from the box.

Monitoring wells were surveyed for elevation and location by California state licensed surveyors from the Anacal Engineering Company, the results of which are presented in Appendix D. The location of all monitoring wells installed for this investigation were identified utilizing California co-ordinates and are listed on Table 1. Reference elevations were determined for the top of the well box for each monitoring well measured from a local bench mark elevation. Depths to ground water in each well were measured using a Well Wizard Water Level Meter Model 6000 electric well sounding instrument.

5.2 Well Development

Ground water monitoring wells were fully developed four to six days after installation to remove fine-grained sediments which were lodged in the sand pack and had accumulated in the bottoms of the wells. Well development included surging using tight-fitting, 4-inch diameter surge blocks and bailing to remove those fine sediments drawn into the well from over-pumping. Development procedures consisted of surging using the drill rig surge block, initial bailing using the drill rig 3.5 inch diameter stainless steel bailer and subsequent bailing by HYDRO-FLUENT, INC. personnel using a 3.5 inch diameter PVC bailer. All surge tools and bailers were steam cleaned prior to use at each well.

The main objective of well development is to achieve turbidity of less than 10 nephelometric turbidity units (NTU). A Nalgene 1,000 ml. graduated Imhoff Cone was used in the field to measure turbidity to a limit of .5 ml per 1,000 ml (approximately part per million). During the development phase, a minimum of seven well volumes of ground water were removed from each well.

5.3 Ground Water Sampling

Prior to sampling, the wells were purged a minimum of three well volumes to remove standing water from the well casing and to promote the flow of water from the surrounding formation into the well casing. Well purging was accomplished through the use of a teflon bailer. Well volumes were calculated based on the height of the water column in the well casing and the casing diameter. All purging equipment was thoroughly steam cleaned and washed

using an aqueous solution of Alconox and double rinsed in bottled distilled water before being placed into a well.

Purge water was collected by lowering the bailer to the mid-point of the screened interval of each well. The wells were purged until the pH, electric conductance (EC) and temperature stabilized. A Presto-Tek model DspH-3 pH and conductivity meter was used to measure pH and EC, and a Taylor Instruments pocket mercury thermometer was used to measure temperature.

Water samples were collected using a clean teflon bailer. The teflon bailer was properly steam cleaned, washed with an aqueous solution of Alconox and double rinsed in distilled water prior to the each use. For the purpose of quality control, a field blank was collected and designated MW-7. This sample consisted of water which had been used for the final rinse of the sampling equipment. Chemical analysis of this sample is presented in Appendix B.

The VOC samples were collected in 40-ml, "zero head-space" glass vials with teflon septa. The pre-cleaned vials were filled such that a positive (upward) meniscus resulted. The caps were secured and the vial inverted and tapped on a hard surface. When air bubbles were observed, the sample was discarded and the sampling procedure repeated.

Ground water samples were immediately labeled, placed into an ice chest with blue ice and chilled to 4 degrees Centigrade. Samples were delivered to a California state certified laboratory for analysis.

5.4 Monitoring Well Abandonment

Due to difficulties associated with the obtaining of a "non-turbid" ground water sample and at the request of the CRWQCB, monitoring well MW-1 was abandoned and replaced with MW-2. MW-2 was located 30 feet west of MW-1's location (Figure 2).

Abandonment was achieved by drilling the well casing with a 11 inch outer diameter hollow-stem auger Mobile B-53 drill rig. Filter pack sand and fragments of well casing were brought up with drill cuttings from the base of the boring. The presence of these fragments provided evidence for the complete destruction of the casing. The boring was back-filled and sealed with chipped bentonite (Hole Plug) from the base of the boring to the top of the ground water surface. The hollow-stem auger was used as a tremie for emplacement of the bentonite to preclude any bridging

of the seal. The auger was removed from the hole and bentonite slurry grout was pressure injected into the remainder of the boring. The upper 1.5 feet of the boring was sealed with cement.

6.0 ANALYTICAL TESTING

Subsequent to the collection and proper labeling of each soil or water sample, a HYDRO-FLUENT, INC. Chain Of Custody Form was utilized to properly document the samples' date and time of collection, field conditions and identification number and/or location. Upon the completion of each day's field work, samples were transported under chain of custody to BCL Associates, Inc. Laboratory, a California State Certified Laboratory, for chemical analysis by EPA established test methods. Two soil samples were sent to Earth Technologies, Inc. for physical properties analyses. All testing procedures are described in Section 6.2 Analytical Methods.

6.1 Field Testing

Soil samples were analyzed in the field with a Bacharach Instruments Threshold Limit Value (TLV) combustible gas meter for the presence of hydrocarbon vapors. A portion of each sample is placed into a 2.5 inch diameter by 3 inches long stainless steel ring sealed on both ends by plastic end caps. Head space readings are measured by inserting the devices sampling probe through an opening in one of the plastic end caps.

Organic vapors are drawn into the TLV meter and analyzed for combustible gas on a heated catalytic platinum element. Results of the analysis are given in parts per million, and are used only as a qualitative field measure for the presence of hydrocarbons.

6.2 Analytical Methods

All soil samples were analyzed utilizing EPA Method 8240 (Method 8240). Ground water samples were analyzed utilizing EPA Method 624 (Method 624). Both methods identify halogenated volatile organics and volatile aromatic hydrocarbons, utilizing a gas chromatograph as a separator and a mass spectrometer as a detector. The mass spectrometer is considered one of the better "tools" for environmental investigations due to its superior ability to accurately identify different chemical compounds and unknowns.

6.3 Analytical Results

6.3.1 Soil Analytical Results

All soil samples were analyzed for volatile halogenated organics and aromatic hydrocarbons utilizing Method 8240.

Monitoring well MW-2 is located on the northwestern corner of the Site and was drilled to a depth of 44 feet. Soil samples collected at 5, 10, 15, and 20 feet did not contain levels of volatile halogenated organics or aromatic hydrocarbons above detectable trace amounts (Table 2).

Monitoring well MW-3 is located on the eastern property boundary adjacent to the Los Angeles Water Company. This well was drilled to a depth of 38 feet. Soil samples collected at 5, 10, 15, and 21 feet did not contain levels of volatile halogenated organics or aromatic hydrocarbons above detectable trace amounts.

Monitoring well MW-4 is located on the southern Site boundary adjacent to the Somitex Prints of California facility. This well was drilled to a depth of 54.5 feet. Soil collected at 10, 15, 20 feet did not contain levels of volatile halogenated organics or aromatic hydrocarbons above detectable trace amounts. Chemical analysis of MW-4, 5 feet detected 140 ppb (parts per billion) of 2-Butanone (MEK), and 120 ppb of 4-Methyl-2-pentanone. Analysis of MW-4, 25' and MW-4, 30' detected Tetrachloroethene (PCE) concentrations of 21 ppb and 30 ppb, respectively.

Monitoring well MW-5 is located on the western portion of the the Site and was drilled to a depth of 45.5 feet. Soil samples collected at 5, 10, 15, and 20 feet did not contain levels of volatile halogenated organics or aromatic hydrocarbons above detectable trace amounts. Chemical analysis of MW-5, 25 feet detected 5 ppb of PCE.

Monitoring well MW-6 is centrally located on the property between the offices and the main manufacturing building, down gradient from the latter. MW-6 was drilled to a depth of 40 feet. Chemical analysis of MW-6, 5 feet detected 10 ppb of 1,1,1 Trichloroethane (TCA), and 7 ppb of PCE. Soil samples collected at 10, 15, 20, and 39 feet did not contain concentrations of volatile halogenated organics or aromatic hydrocarbons greater than detectable trace amounts.

Soil samples of suspected impermeable clay horizons were collected and analyzed for grain size and vertical hydraulic conductivity properties. These clay samples collected at a depth of 39 feet from MW-3 and MW-6 exhibited hydraulic conductivities of 7.60×10^{-10} cm/s (centimeters per second) and 1.13×10^{-8} cm/s, respectively. Detailed results of these analyses are presented in Appendix B.

6.3.2 Ground Water Analytical Results

All ground water samples were analyzed for volatile halogenated organic and aromatic hydrocarbons utilizing EPA Method 624.

The ground water sample collected from monitoring well MW-2 contained the highest observed concentrations of volatile halogenated organics and aromatic hydrocarbons at the Site. Chemical analysis of this sample detected 480 ppb of 1,1 Dichloroethene (DCE), 72 ppb of 1,1 Dichloroethane (DCA), 240 ppb of TCA, 74 ppb of Trichloroethene (TCE), and 1100 ppb of PCE (Table 3).

Ground water samples collected from monitoring wells MW-3, MW-4, MW-5, and MW-6 contained lower concentrations of these compounds. Chemical analysis of these samples detected concentrations of Trichlorofluoromethane ranging from non-detected to 5 ppb, DCE concentrations ranging from 17 to 58 ppb, DCA concentrations ranging from trace amounts to 18 ppb, TCA concentrations ranging from 30 to 89 ppb, TCE concentrations ranging from 5 to 63 ppb, and PCE concentrations ranging from 48 to 120 ppb.

7.0 Summary of Findings

7.1 Field Observations

Neither significant hydrocarbon odors nor soil discoloration were observed. Field measurements of hydrocarbon vapors obtained from soil samples ranged from non-detected to 80 ppm (parts per million). Ground water was encountered in monitoring wells MW-2, MW-3, and MW-6 at 23 feet below grade. Ground water was encountered in monitoring well MW-4 and MW-5 at 33 and 27 feet, respectively.

7.2 Analytical Observations

Soil samples collected from MW-4 and MW-6 were the only shallow soil samples which contained concentrations of detectable hydrocarbons. Ketones were detected in the 5

foot sample collected from MW-4 and halogenated hydrocarbons were detected in the 5 foot sample collected from MW-6. Specifically, 140 ppb of MEK and 120 ppb of 4-Methyl-2-pentanone were detected in MW-4, 5 feet; Whereas, MW-6, 5 feet contained 10 ppb of TCA and 7 ppb of PCE.

Soil samples collected at deeper depths from monitoring well MW-4 and MW-5 contained detectable concentrations of PCE. These samples were collected from the vadose zone, close to the depth at which ground water was encountered. The maximum value of PCE detected in these samples was 30 ppb.

Volatile halogenated hydrocarbons were revealed by Method 624 analysis of the ground water. Values of detected halogenated hydrocarbons were higher in ground water samples obtained from monitoring well MW-2 than samples obtained from up-gradient wells. The highest detected concentration from this sample was 1100 ppb of PCE. Ground water samples from all other Site wells contained lower amounts of halogenated hydrocarbons with a maximum observed value of 120 ppb of PCE from MW-4. Ketones observed in shallow soil samples collected from MW-4 were not detected in the ground water.

8.0 CONCLUSIONS

Soil samples collected from Site borings have not been significantly impacted by volatile halogenated organics or aromatic hydrocarbons. Ketones were detected in low to moderate concentrations from shallow soil samples at one Site location but were not detected in the ground water.

Site ground water has been impacted by halogenated hydrocarbons, predominantly PCE, TCA, and TCE. Chemical analyses of ground water samples collected from monitoring wells MW-5 and MW-6, located directly down-gradient from Utility Trailer's manufacturing operations, did not indicate increased concentrations of volatile halogenated hydrocarbons when compared to samples collected from wells MW-3 and MW-4, which are up-gradient from the facility.

Ground water samples collected from monitoring well MW-2 exhibited an increase in the concentrations of detectable volatile halogenated organics as compared to samples collected from monitoring well MW-3. MW-2 is located directly down-gradient from the drainage conduit shown on Figure 2 and discussed in the introduction of this report (Section 2.2 Background).

Documented releases of hydrocarbon-bearing effluent and previous investigations have suggested that this drainage conduit is a possible source of halogenated hydrocarbons to the soil and ground water at the northern portion of the Site.

9.0 RECOMMENDATIONS

In order to establish conclusively whether the drainage conduit is the source of the increased concentrations of halogenated hydrocarbons detected in MW-2, relative to MW-3, HYDRO-FLUENT, INC. recommends the installation of a monitoring well between MW-2 and MW-3 and up-gradient from the conduit.

10.0 LIMITATIONS

10.1 Report

Services performed by the Consultant under this Agreement were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions and in similar locations.

Client recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys, or explorations are made by the Consultant and that the data, interpretations and recommendations of the Consultant are based solely on the information available to him. The Consultant shall not be responsible for the interpretation by others of the information developed.

The interpretations and conclusions of this report are based in part on data supplied by others, (previous investigation performed by others, laboratory analysis results, and toxicology or health information supplied by others). Such information, prepared by professionals, and in the case of the laboratory, certified by the State of California and using test methods established by the Environmental Protection Agency, are presumed correct and representative. The consultant has no control over or involvement in such testing or analysis, and does not possess a means of confirming accuracy of test results. Therefore, the consultant disclaims any responsibility for inaccuracy of information supplied by others in the preparation of this report.

Samples, sample analyses and observations used in the preparation of this report are inferred to be representative of the study area, however, geologic and

hydrogeologic conditions revealed by future work at the site may disagree with preliminary findings. If conditions are different from those presented in the preliminary findings, the designs and plans may be re-evaluated and adjusted by the project engineer or geologist.

The findings in this report are valid as of the date presented. Site conditions may alter with time due to natural or man-made changes on this or adjacent property. Additionally, changes in governmental regulations applicable to the site may occur. The findings of this report may be partially, or wholly invalidated by changes beyond the consultant's control.

Respectfully submitted,

HYDRO-FLUENT, INC.

for Anthony Silva
Project Manager

Stan Popelar
Stan Popelar
Project Geologist

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TABLES

TABLE 1

MONITORING WELL LOCATION AND ELEVATION

MONITORING WELL NUMBER	WELL LOCATION CALIFORNIA CO-ORDINATES NORTHINGS/EASTINGS	* SURVEYED ELEVATION (FEET ABOVE MEAN SEA LEVEL)	DEPTH TO GROUND WATER 6/1/89 (FEET)	GROUND WATER ELEVATION 6/1/89 (FEET ABOVE MEAN SEA LEVEL)
MW-2	4,115,173.6537 / 4,310,197.4018	377.16	23.45	353.71
MW-3	4,115,111.4010 / 4,310,822.4422	378.56	22.30	356.26
MW-4	4,114,197.0643 / 4,310,242.6061	383.57	27.70	355.87
MW-5	4,114,527.5265 / 4,310,068.9473	381.15	26.25	354.90
MW-6	4,114,687.7317 / 4,310,297.7964	380.20	24.45	355.75

* ELEVATION SURVEYED TO TOP EDGE OF WELL BOX

TABLE 2

SOIL ANALYTICAL RESULTS
EPA METHOD 8240
ug/kg (ppb)

SAMPLE NO.	1,2 DICHLOROETHANE	2-BUTANONE	1,1,1 TRICHLOROETHANE	BROMO-DICHLOROMETHANE	TRICHLOROETHENE	4-METHYL-2-PENTANONE	TETRA-CHLOROETHENE	1,1,2,2 TETRACHLOROETHANE
MW-2 @ 5'	ND (5.0)	ND (10.0)	TR (2.0)	ND (5.0)	TR (0.2)	ND (10.0)	TR (4.0)	TR (0.1)
MW-2 @ 10'	ND (5.0)	ND (10.0)	TR (0.3)	TR (0.1)	ND (5.0)	ND (10.0)	ND (5.0)	ND (5.0)
MW-2 @ 15'	ND (5.0)	ND (9.0)	TR (0.1)	ND (5.0)	ND (5.0)	ND (9.0)	ND (5.0)	ND (5.0)
MW-2 @ 20'	ND (5.0)	ND (10.0)	TR (0.4)	TR (0.1)	ND (5.0)	ND (10.0)	TR (4.0)	ND (5.0)
MW-3 @ 5'	TR (0.3)	ND (10.0)	TR (0.7)	ND (5.0)	ND (5.0)	ND (10.0)	TR (2.0)	ND (5.0)
MW-3 @ 10'	ND (5.0)	ND (10.0)	TR (0.4)	ND (5.0)	ND (5.0)	ND (10.0)	TR (0.3)	ND (5.0)
MW-3 @ 15'	TR (0.8)	ND (10.0)	TR (0.7)	ND (5.0)	ND (5.0)	ND (10.0)	ND (5.0)	ND (5.0)
MW-3 @ 21'	TR (0.7)	ND (9.0)	TR (0.6)	ND (5.0)	ND (5.0)	ND (9.0)	ND (5.0)	ND (5.0)
MW-4 @ 5'	TR (0.6)	140.0	TR (0.6)	ND (5.0)	TR (0.1)	120.0	TR (5.0)	TR (0.6)
MW-4 @ 10'	TR (0.4)	ND (10.0)	TR (0.6)	ND (5.0)	TR (0.4)	ND (10.0)	TR (2.0)	ND (5.0)
MW-4 @ 15'	TR (0.4)	ND (9.0)	TR (0.6)	ND (5.0)	ND (5.0)	ND (9.0)	TR (2.0)	ND (5.0)
MW-4 @ 20'	TR (0.4)	ND (10.0)	TR (0.5)	ND (5.0)	ND (5.0)	ND (10.0)	TR (0.6)	ND (5.0)
MW-4 @ 25'	ND (5.0)	ND (10.0)	TR (0.4)	ND (5.0)	TR (0.4)	ND (10.0)	21.0	ND (5.0)
MW-4 @ 30'	TR (0.6)	ND (9.0)	TR (1.0)	ND (5.0)	TR (0.5)	ND (9.0)	30.0	ND (5.0)
MW-5 @ 5'	ND (5.0)	ND (10.0)	TR (4.0)	ND (5.0)	ND (5.0)	ND (10.0)	TR (7.0)	ND (5.0)
MW-5 @ 10'	ND (5.0)	ND (10.0)	TR (1.0)	ND (5.0)	ND (5.0)	ND (10.0)	ND (5.0)	ND (5.0)
MW-5 @ 15'	ND (5.0)	ND (10.0)	TR (1.0)	ND (5.0)	ND (5.0)	ND (10.0)	ND (5.0)	ND (5.0)
MW-5 @ 20'	ND (5.0)	ND (9.0)	TR (2.0)	ND (5.0)	ND (5.0)	ND (9.0)	TR (0.5)	ND (5.0)
MW-5 @ 25'	ND (5.0)	ND (9.0)	TR (2.0)	ND (5.0)	ND (5.0)	ND (9.0)	5.0	ND (5.0)
MW-6 @ 5'	ND (5.0)	ND (10.0)	10.0	ND (5.0)	ND (5.0)	ND (10.0)	7.0	ND (5.0)
MW-6 @ 10'	ND (5.0)	ND (11.0)	TR (3.0)	ND (5.0)	ND (5.0)	ND (11.0)	TR (2.0)	ND (5.0)
MW-6 @ 15'	ND (5.0)	ND (9.0)	TR (1.0)	ND (5.0)	ND (5.0)	ND (9.0)	TR (0.3)	ND (5.0)
MW-6 @ 20'	ND (5.0)	ND (9.0)	TR (2.0)	ND (5.0)	TR (0.3)	ND (9.0)	TR (0.9)	ND (5.0)
MW-6 @ 39'	ND (5.0)	ND (10.0)	TR (2.0)	ND (5.0)	ND (5.0)	ND (10.0)	TR (1.0)	ND (5.0)

ND -NON DETECTED, DETECTION LIMIT SHOWN IN PARENTHESIS
TR -TRACE DETECTED, ESTIMATED AMOUNT SHOWN IN PARENTHESIS

TABLE 3

GROUND WATER ANALYTICAL RESULTS

EPA METHOD 624

ug/l (ppb)

SAMPLE NO.	VINYL CHLORIDE	TRICHLORO-FLUOROMETHANE	1,1 DICHLOROETHENE	1,1 DICHLOROETHANE	1,1,1 TRICHLOROETHANE	TRICHLOROETHENE	TETRACHLOROETHENE
MW-2	TR (3.0)	ND (10.0)	480.0	72.0	240.0	74.0	1100.0
MW-3	ND (10.0)	5.0	28.0	18.0	89.0	63.0	100.0
MW-4	ND (10.0)	ND (10.0)	25.0	TR (2.0)	30.0	5.0	120.0
MW-5	ND (10.0)	ND (10.0)	17.0	TR (2.0)	32.0	6.0	48.0
MW-6	ND (10.0)	ND (10.0)	58.0	5.0	79.0	10.0	77.0

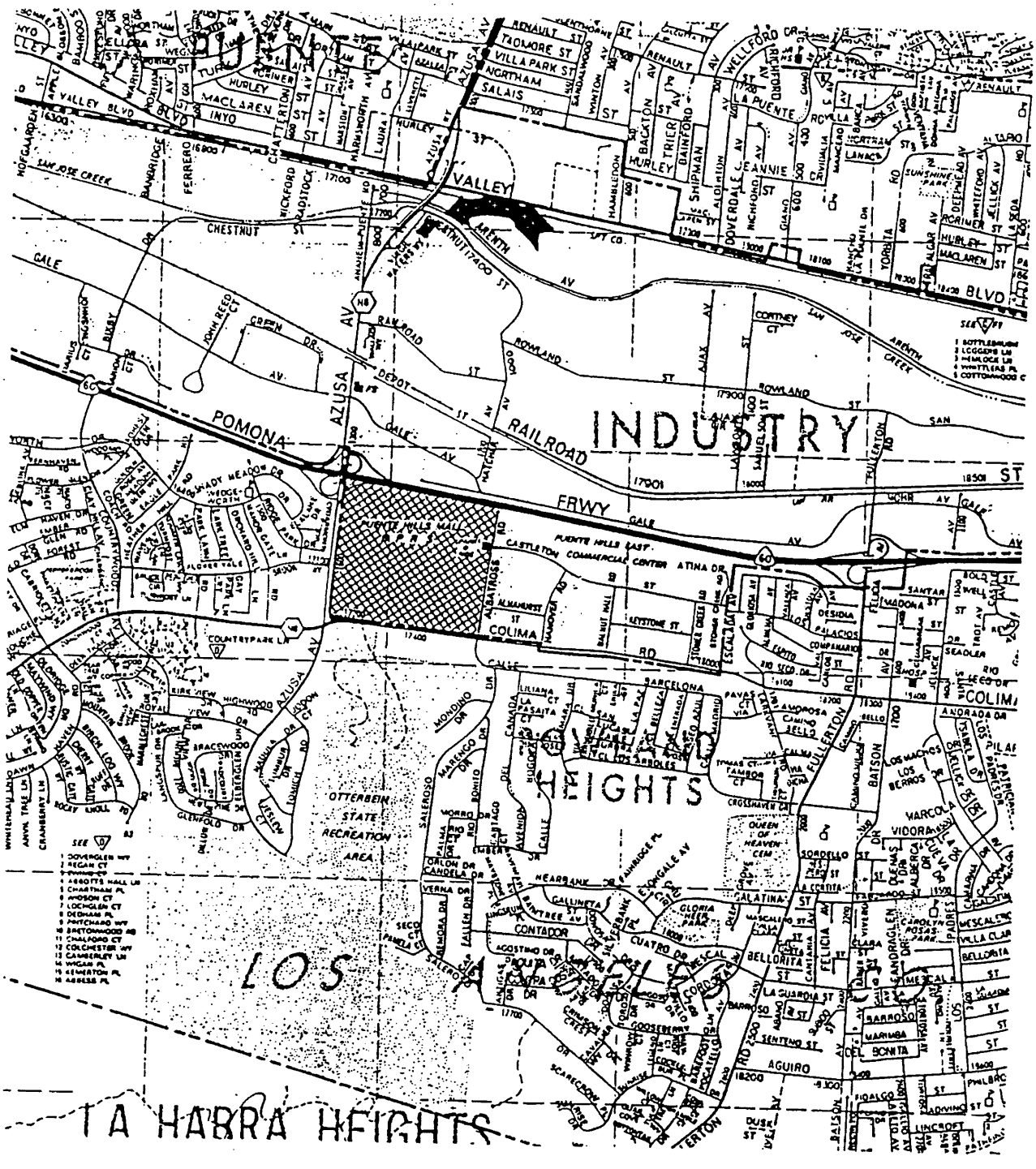
ND -NON DETECTED, DETECTION LIMIT SHOWN IN PARENTHESIS

TR -TRACE DETECTED, ESTIMATED AMOUNT SHOWN IN PARENTHESIS

FIGURES

121648

SITE LOCATION MAP



UTM 000296

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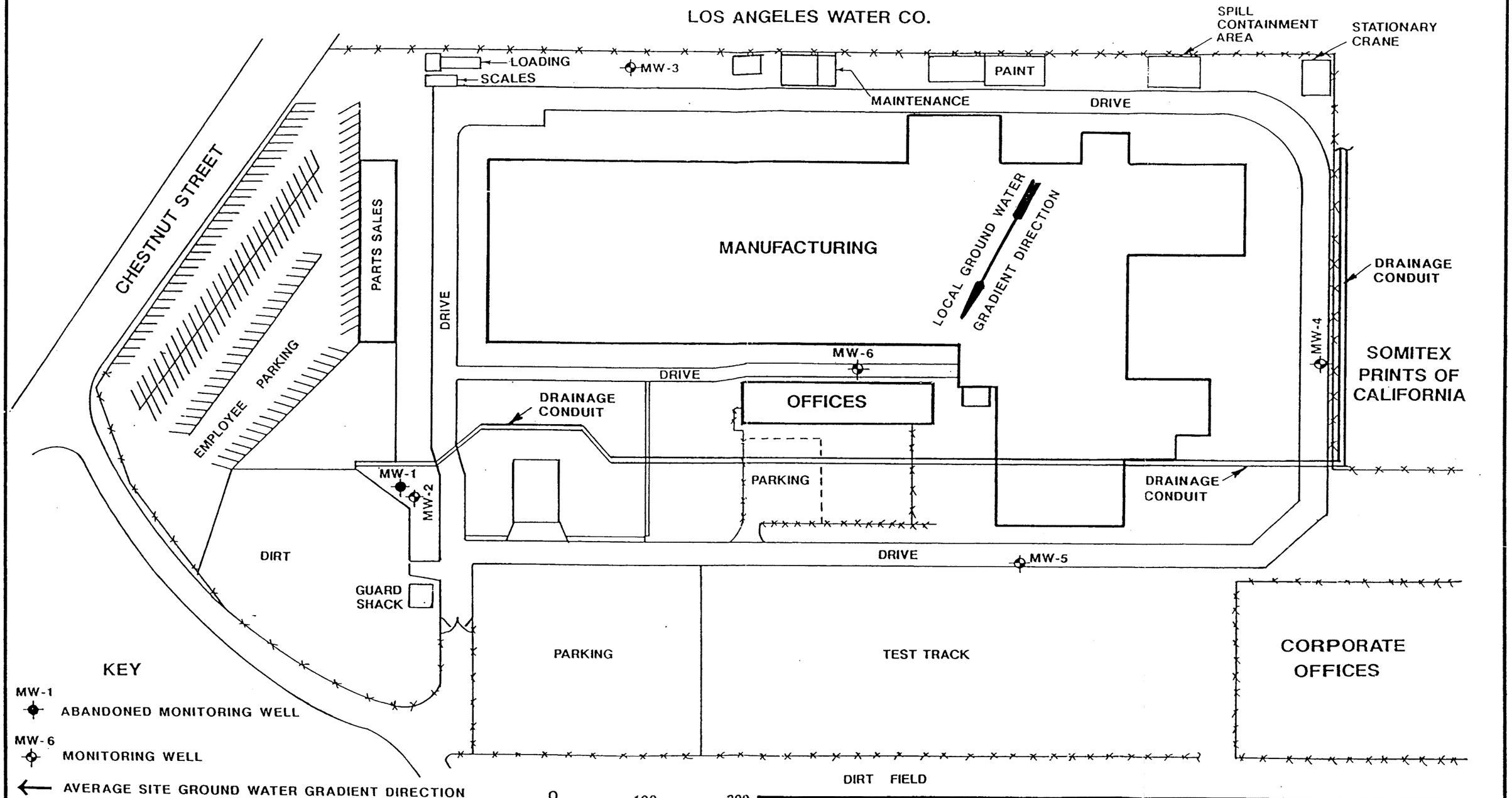
UTILITY TRAILER MANUFACTURING CO
1730 E CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-04

Figure No.: 1

PLOT PLAN W/ WELL LOCATIONS

LOS ANGELES WATER CO.



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CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-04

Figure No.: 2

APPENDIX A

UNIFIED SOIL CLASSIFICATION SYSTEM
AND
BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOLS	DESCRIPTIONS
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size.)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size.)	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravels, gravel-sand mixtures, little or no fines.
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)	GM	Silty gravels, gravel-sand-silt mixtures.
			GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size.)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand-silt mixtures.
			SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size.)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

PARTICLE SIZE LIMITS

SILT or CLAY	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

No. 200 — No. 40 — No. 10 — No. 4 — 3/4 in. — 3 in. — 12 in.

U. S. STANDARD SIEVE SIZE

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UTM 000299

Project No.:

Figure No.:

LOG OF BORING

Drill Rig:	Boring Diameter:	Boring Elevation:	Boring Number:
B-53	11 inches		MW-2

Drilling Date:	Logger:	Registered Geologist:	
5/4/89			This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
		TLV PPM						ML	8" of concrete
		10	8:19a	8-12-16	5				CLAYEY SILT: dark brown, moist, medium dense
		10	8:25a	8-12-18	10				CLAYEY SILT: brown, moist, medium dense - grey mottling - numerous porous openings
		9.5	8:32a	8-22-26	15			SM	SAND: fine-grained, brown, moist dense - contains some silt
		15	8:38a	10-12-25	20				SAND: fine-grained, brown, moist, dense - contains some silt
		20	8:45a	12-22-28	25				SAND: coarse-grained, brown, saturated, dense - contains 10% subangular gravel up to 1 inch in diameter, averaging 0.5 inch diameter
		25	10:07a	12-33-50	30				
		-	10:24a	9-10-16	35				CLAYEY SAND: medium-grained, brown/green, wet, very dense - orange mottling - contains clay lenses, 40% of total sample
					40				SAND: medium to coarse-grained, brown, saturated, medium dense - contains minor silt and clay lenses

NOTES
- Ground water encountered at 23'
- Driller reports strata from 32.5' to 38' is difficult to drill because of increased clay content.
- TD at 44'

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Project Number:	Figure Number:
1614-04	A-

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-3
Drilling Date: 5/2/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
		TLV PPM						SM	8" of concrete
		20	7:53a	5-10-14	5				**SILTY SAND:** fine-grained, dark brown, moist, medium dense - contains some 0.5" diameter pebbles
		45	8:04a	5-7-14	10				**SILTY SAND:** fine-grained, light brown, moist, medium dense - mottled - numerous porous openings - abundant root fragments
		40	8:15a	5-7-12	15			CL	**CLAYEY SAND:** fine-grained, light brown
		40	8:40a	10-12-23	20			SM	**SANDY CLAY:** light brown, moist, very stiff - contains numerous 1/4" to 1/2" diameter angular pebbles
			8:45a	8-10-12	25				**SILTY CLAY:** light brown, moist - moderate to high plasticity
					30				**SAND:** coarse-to medium-grained, with 10% gravel, brown, wet, dense - contains cobbles up to 3" in diameter
					35				**SAND:** coarse to medium-grained, with 5% gravel, brown, saturated, medium dense.
			9:25a	12-16-18				CL	**SILTY SAND:** fine-to medium-grained, brown, saturated
			9:30a	10-12-18					**SILTY CLAY:** brown/green, moist, very stiff - moderate to high plasticity - black mottling

NOTES:
- No sample obtained at 20', cobble stuck in end of sampler
- Ground water encountered at 23'
- Driller reports cobbles encountered at 25' to

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Project Number:	Figure Number:
1614-04	A-a

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-3
Drilling Date: 5/2/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
									30' - Samples taken at 36' and 38'with 1" OD sampler - TD at 38', sample taken from 38' to 39.5' to verify clay horizon at that depth

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Project Number:	Figure Number:
1614-04	A-b

LOG OF BORING

Drill Rig:	Boring Diameter:	Boring Elevation:	Boring Number:
B-53	11 inches		MW-4

Drilling Date:	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.
5/2/89			

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS (TLV PPM)	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
								ML	2" asphalt.
		0	1:53p	5-7-20	5				**SANDY SILT:** dark brown, moist, medium dense - minor amounts of angular pebbles
		35	2:14p	10-16-28	10				**SANDY SILT:** dark brown, moist, dense - contains a moderate amount of clay - numerous light grey fissures filled with calcium carbonate
		60	2:40p	8-10-16	15				**CLAYEY SILT:** dark brown, moist, very stiff - contains a minor amount of sand - numerous light grey fissures filled with calcium carbonate
		80	3:00p	8-10-14	20			SM	**SAND:** fine-grained, brown, moist, medium dense - minor amount of fines
		40	3:15p	5-7-14	25			CL SM	**SILTY CLAY:** dark brown, moist, moderately plastic
		40	3:25p	12-16-23	30			CL	**SILTY SAND:** fine-grained, dark brown, moist, medium dense - orange mottling
		75	3:46p	5-10-15	35			SM	**SAND:** fine-grained, brown/green with orange staining, wet, dense
					40				**SILTY CLAY:** brown/green with orange staining, moist - contains some fine sand
					45				**CLAYEY SAND:** fine-grained, dark brown, saturated, medium dense - moderate plasticity
					50				**SAND:** coarse-grained, brown, saturated,

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Project Number:	Figure Number:
1614-04	A-1a

UTM 000303

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-4
Drilling Date: 5/2/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE: BULK	SAMPLE: TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
									medium dense - contains abundant 0.25" to 0.5" diameter pebbles - sample interval normally graded

NOTES:

- perched water encountered at 29.5'
- ground water encountered at 33'
- driller reports cobbles encountered at 41' to TD
- sample taken at 50' with 1" diameter tool
- TD at 54.5'

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Project Number:	Figure Number:
1614-04	A-1b

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-5
Drilling Date: 5/3/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS TLV PPM	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
								CL	4" asphalt
		10	8:00a	6-15-22	5				**SILTY CLAY:** dark brown, moist to dry, dense
		20	8:05a	8-11-13	10			SM	**SILTY SAND:** fine-grained, brown, moist, medium dense
		5	8:10a	9-13-16	15				**SILTY SAND:** fine-grained, brown, moist, medium dense - porous openings - root fragments - some interbedded lenses of sandy silt
		5	8:15a	8-8-30	20				**SILTY SAND:** fine-grained, wet, medium dense - porous openings
		5	8:20a	5-8-13	25				**SAND:** fine-grained, brown, saturated, medium dense
		5	8:25a	6-12-17	30			GW	**SANDY GRAVEL:** with pebbles, graded fine-to-coarse
			9:30a	5-5-10	35			SM	**SILTY SAND:** fine-grained, with some pebbles, brown, saturated, medium dense.
			10:00a	16-26-30	40			SC	**CLAYEY SAND:** fine-grained, brown, saturated, very dense - moderately plastic
					45				

NOTES:
- ground water encountered at 27'
- sampler driven to 47' but unable to obtain a representative sample

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Project Number:	Figure Number:
1614-04	A-1a

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-5
Drilling Date: 5/3/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
									- TD at 45.5'

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Project Number:	Figure Number:
1614-04	A-1b

LOG OF BORING

Drill Rig: B-53	Boring Diameter: 11 inches	Boring Elevation:	Boring Number: MW-6
Drilling Date: 5/3/89	Logger:	Registered Geologist:	This log is a representation of subsurface conditions at the time and place of drilling. The passage of time or other locations may cause consequential changes in conditions.

SAMPLE BULK	SAMPLE TUBE	VAPOR READINGS	TIME	BLOW COUNTS	DEPTH, FEET	WELL CONSTRUCTION DETAIL	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION AND REMARKS
		TLV PPM						ML	8" concrete
		10	12:50p	9-12-13	5				**CLAYEY SILT:** dark brown, moist, medium dense
		20	12:58p	8-16-17	10				**CLAYEY SILT:** dark brown, moist, dense - grey mottling
		45	1:08p	6-9-13	15			SM	**SILTY SAND:** fine-grained, brown, moist, medium dense - contains some clay - numerous porous openings
		34	1:15p	5-8-12	20				**CLAYEY SAND:** fine-grained, brown, moist, medium dense - contains some silt - orange mottling
		45	1:24p	8-28-38	25				**SAND:** coarse-grained, brown, saturated, very dense - contains minor amounts of silt - contains minor amounts of gravel
					30				
					35				
			2:55p 3:15p	14-27-32	40			CL	**CLAY:** green/brown, wet, hard - high plasticity - contains moderate amounts of silt - contains minor amounts of sand

NOTES:
ground water encountered at 23'
sample taken at 25' saved for sieve analysis
driller reports rocks at 32'
TD at 40'

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UTM 000307

Project Number:	Figure Number:
1614-04	A-1

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01222

CHAIN OF CUSTODY FORM

Sheet 1 of 1

Project No.	Project Name	Samplers (Signatures)
1614-04	Utility Trailer	Greg Pitassi

Sampling Method	Field Conditions
Teflon Bailer	Partly Cloudy

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
5/11/89	10:15	MW 4	H_2O	VOA	Cool 4°	624
↓	11:30	MW 3	↓	↓	↓	624
↓	1:00	MW 7	↓	↓	↓	624

Comments Please forward results to Anthony Silva. Do not analyze duplicates.

Total Number of Containers 3 + Back-ups

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
	5/11/89	1420					

Relinquished By:	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)

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CHAIN OF CUSTODY FORM

Sheet 1 Of 1

Project No.	Project Name	Samplers (Signatures)
1614-04	UTILITY TRAILER	Stan Popelar Stan Popelar

Sampling Method	Field Conditions
Split Spoon	Sunny & Warm

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
5-2-89	7:53 AM	MW 3 @ 5'	SOIL	STAINLESS	ICE	8240
	8:04 AM	@ 10'				
	8:15 AM	@ 15'				
	8:32 AM	@ 21'				
	1:53 PM	MW 4 @ 5'				
	2:14 PM	@ 10'				
	2:40 PM	@ 15'				
	3:00 PM	@ 20'				
	3:15 PM	@ 25'				
	3:25 PM	@ 30'				

UTM 000310

Comments

Total Number of Containers: 10

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
Stan Popelar	5/2/89	5:25 pm			5/2/89	8:30am	Jeff Ritter
Relinquished By:	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
					5-3-89	0918	

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CHAIN OF CUSTODY FORM

Sheet 1 Of 1

Project No.	Project Name	Samplers (Signatures)
1614-04	UTILITY TRAILER	Stan Popelar

Sampling Method	Field Conditions
Spilt Spoon	Sunny & Warm

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
5/3/89	8:00 AM	MW5 @ 5'	SOIL	STAINLESS	ICE	8240
	8:05 AM	@ 10'				
	8:10 AM	@ 15'				
	8:15 AM	@ 20'				
	8:20 AM	@ 25'				
	12:50 PM	MW6 @ 5'				
	12:58 PM	@ 10'				
	1:08 PM	@ 15'				
	1:15 PM	@ 20'				
	2:55 PM	@ 39'				
		MW5 @ 30'				archive

Comments REQUEST ATTN. ANTHONY SILVA

Total Number of Containers 11

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
Stan Popelar	5/3/89	350 PM	[illegible]	[illegible]	5/3/89	1705	[illegible]
Relinquished By:	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)

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CHAIN OF CUSTODY FORM

Sheet 1 Of 1

Project No.	Project Name	Samplers (Signatures)
1614-04	UTILITY TRAILER	Stan Popelar

Sampling Method	Field Conditions
Split Spoon	Overcast & cool

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
5/4/89	8:19 AM	MW 2 @ 5'	Soil	STAINLESS	BLUE ICE	8240
	8:25 AM	10'				
	8:32 AM	15'				
	8:38 AM	20'				
		~~25~~				

Comments

Total Number of Containers

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
Stan Popelar	5/4/89	1140 AM	Jeffrey J. Potter	Jeff Potter	5/4/89	1:45 pm	Chris Mendell
Relinquished By:	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
	5-4-89	14:16	Lynn Fawcett				

UTM 000312

HYDRO-FLUENT, INC.

01218

geology • engineering • environmental services

701 E. BALL ROAD, SUITE 105, ANAHEIM, CA. 92805 714-772-1220

CHAIN OF CUSTODY FORM

Sheet 1 Of 1

Project No.	Project Name	Samplers (Signatures)
1614-04	UTILITY TRAILER	GREG PITASSI

Sampling Method	Field Conditions
TEFLON BAILER	CLOUDY

Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
5/10/89	11:15	MW 2	H_2O	VOA	Cool 4°	624
↓	1:15	MW 6	↓	↓	↓	624
↓	3:00	MW 5	↓	↓	↓	624

Comments REPORT RESULTS TO ANTHONY SILVA. DO NOT ANALYZE BACK-UPS.

Total Number of Containers 3 + BACK UPS

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
	5/10/89	1630					
Relinquished By:	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW2-5

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1185-001

Data File: >2AJI7

Sample wt/vol: 5.1119 G

Analyst: MANNY

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/04/89

Date Analyzed: 5/17/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	2.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.2	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	4.	■T
79-34-5	1,1,2,2-Tetrachloroethane	.1	■T
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW2-10

Lab Name: BCL ASSOCIATES

CL Lab No.: 1185-002

Client: HYDROFLU

Data File: >2AJI8

Matrix: SOIL

ample wt/vol: 5.1436 G

Date Received: 05/04/89

Analyst: MANNY

Date Analyzed: 5/17/89

ilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.3	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	.1	■T
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW2-15

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1185-003

Data File: >2AJI9

Sample wt/vol: 5.3665 G

Analyst: MANNY

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/04/89

Date Analyzed: 5/17/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	.1	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW2-20

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1185-004

Data File: >2AJJ4

Sample wt/vol: 5.0877 G

Analyst: MANNY

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/04/89

Date Analyzed: 5/17/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.4	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	.1	■T
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	4.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW3-5

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1171-001

Data File: >2AJF5

Sample wt/vol: 5.2653 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/15/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.3	■T
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.7	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	2.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW3-10

Lab Name: BCL ASSOCIATES

CL Lab No.: 1171-002

Client: HYDROFLU

Data File: >2AJF6

Matrix: SOIL

ample wt/vol: 5.0855 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/15/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.4	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	.3	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW3-15

Lab Name: BCL ASSOCIATES

CL Lab No.: 1171-003

Client: HYDROFLU

Data File: >2AJF7

Matrix: SOIL

ample wt/vol: 5.2207 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/15/89

ilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.8	■T
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.7	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW3-21

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1171-004

Data File: >2AJF8

Sample wt/vol: 5.3772 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/15/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.7	■T
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	.6	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-5

Lab Name: BCL ASSOCIATES

CL Lab No.: 1171-005

Client: HYDROFLU

Data File: >2AJF9

Matrix: SOIL

ample wt/vol: 5.2044 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/15/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.6	■T
78-93-3	2-Butanone	140.	■
71-55-6	1,1,1-Trichloroethane	.6	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.1	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	120.	■
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	■T
79-34-5	1,1,2,2-Tetrachloroethane	.6	■T
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-10

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1171-006

Data File: >2AJG0

Sample wt/vol: 5.0136 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/16/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.4	■T
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.6	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.4	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	2.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-15

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1171-007

Data File: >2AJG1

Sample wt/vol: 5.3312 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/16/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.4	■T
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	.6	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	2.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-20

Lab Name: BCL ASSOCIATES

CL Lab No.: 1171-008

Client: HYDROFLU

Data File: >2AJG2

Matrix: SOIL

ample wt/vol: 5.2337 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/16/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.4	■T
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.5	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	.6	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-25

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1171-009

Client: HYDROFLU

Data File: >2AJG3

Matrix: SOIL

Sample wt/vol: 5.05 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/16/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	.4	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.4	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	21.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW4-30

Lab Name: BCL ASSOCIATES

CL Lab No.: 1171-010

Client: HYDROFLU

Data File: >2AJG4

Matrix: SOIL

ample wt/vol: 5.3694 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/15/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	.6	■T
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	1.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.5	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	30.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW5-5

Lab Name: BCL ASSOCIATES

CL Lab No.: 1179-001

Client: HYDROFLU

Data File: >2AJH3

Matrix: SOIL

ample wt/vol: 5.1292 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/16/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	4.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	7.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW5-10

Lab Name: BCL ASSOCIATES

CL Lab No.: 1179-002

Client: HYDROFLU

Data File: >2AJH4

Matrix: SOIL

ample wt/vol: 5.2027 G

Date Received: 05/03/89

nalyst: JANET

Date Analyzed: 5/16/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	1.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW5-15

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1179-003

Data File: >2AJH5

Sample wt/vol: 5.1463 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/16/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	1.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW5-20

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1179-004

Data File: >2AJH6

Sample wt/vol: 5.3444 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/16/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	2.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	.5	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW5-25

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1179-005

Client: HYDROFLU

Data File: >2AJH7

Matrix: SOIL

Sample wt/vol: 5.3870 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/16/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	2.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	5.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	9.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	■
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW6-5

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1179-006

Data File: >2AJH8

Sample wt/vol: 5.2006 G

Analyst: JANET

Dilution Factor: 1.00000

Client: HYDROFLU

Matrix: SOIL

Date Received: 05/03/89

Date Analyzed: 5/17/89

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	7.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW6-10

Lab Name: BCL ASSOCIATES

CL Lab No.: 1179-007

Client: HYDROFLU

Data File: >2AJH9

Matrix: SOIL

ample wt/vol: 4.8088 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/17/89

ilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	11.	U
67-64-1	Acetone	11.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	3.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	11.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	2.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW6-15

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1179-008

Client: HYDROFLU

Data File: >2AJI0

Matrix: SOIL

Sample wt/vol: 5.3308 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/17/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	1.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	.3	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW6-20

Lab Name: BCL ASSOCIATES

CL Lab No.: 1179-009

Client: HYDROFLU

Data File: >2AJI1

Matrix: SOIL

ample wt/vol: 5.3442 G

Date Received: 05/03/89

Analyst: JANET

Date Analyzed: 5/17/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl Chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	9.	U
67-64-1	Acetone	9.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	2.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	.3	■T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	.9	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 8240

CLIENT SAMPLE NO.

MW6-39

Lab Name: BCL ASSOCIATES

CL Lab No.: 1179-010

Client: HYDROFLU

Data File: >2AJI4

Matrix: SOIL

ample wt/vol: 4.99 G

Date Received: 05/03/89

nalyst: JANET

Date Analyzed: 5/17/89

ilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	2.	■T
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	1.	■T
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW2

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1218-001

Client: HYDROFLU

Data File: >2AJK5

Matrix: WATER

Sample wt/vol: 0.1 ml

Date Received: 05/10/89

Analyst: JANET

Date Analyzed: 5/18/89

Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	3.	■T
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	480.	■
75-34-3	1,1-Dichloroethane	72.	■
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	240.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	74.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	1100.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW-3

Lab Name: BCL ASSOCIATES

CL Lab No.: 1222-002

Client: HYDROFLU

Data File: >2AJJ9

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/11/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	5.	■
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	28.	■
75-34-3	1,1-Dichloroethane	18.	■
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	89.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	63.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	100.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

BW-4

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1222-001

Client: HYDROFLU

Data File: >2AJJ8

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/11/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	25.	■
75-34-3	1,1-Dichloroethane	2.	■T
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	30.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	120.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW5

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1218-003

Client: HYDROFLU

Data File: >2AJJ7

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/10/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	17.	■
75-34-3	1,1-Dichloroethane	2.	■T
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	32.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	6.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	48.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW6

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1218-002

Client: HYDROFLU

Data File: >2AJJ6

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/10/89

Analyst: MANNY

Date Analyzed: 5/17/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	58.	■
75-34-3	1,1-Dichloroethane	5.	■
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	79.	■
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	10.	■
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	77.	■
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW-7

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1222-003

Client: HYDROFLU

Data File: >2AJK0

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/11/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW-7

Lab Name: BCL ASSOCIATES

BCL Lab No.: 1222-003

Client: HYDROFLU

Data File: >2AJK0

Matrix: WATER

Sample wt/vol: 5 ml

Date Received: 05/11/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

MW-7

Lab Name: BCL ASSOCIATES

CL Lab No.: 1222-003

Client: HYDROFLU

Data File: >2AJK0

Matrix: WATER

ample wt/vol: 5 ml

Date Received: 05/11/89

Analyst: MANNY

Date Analyzed: 5/18/89

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
■ = Compound was found in sample.

TABLE 1

SUMMARY OF VERTICAL HYDRAULIC CONDUCTIVITY TEST (FLEXIBLE WALL PERMEAMETER)

PROJECT NAME: Utility Trailer

PROJECT NO.: 1614-04

DATE: June 1989

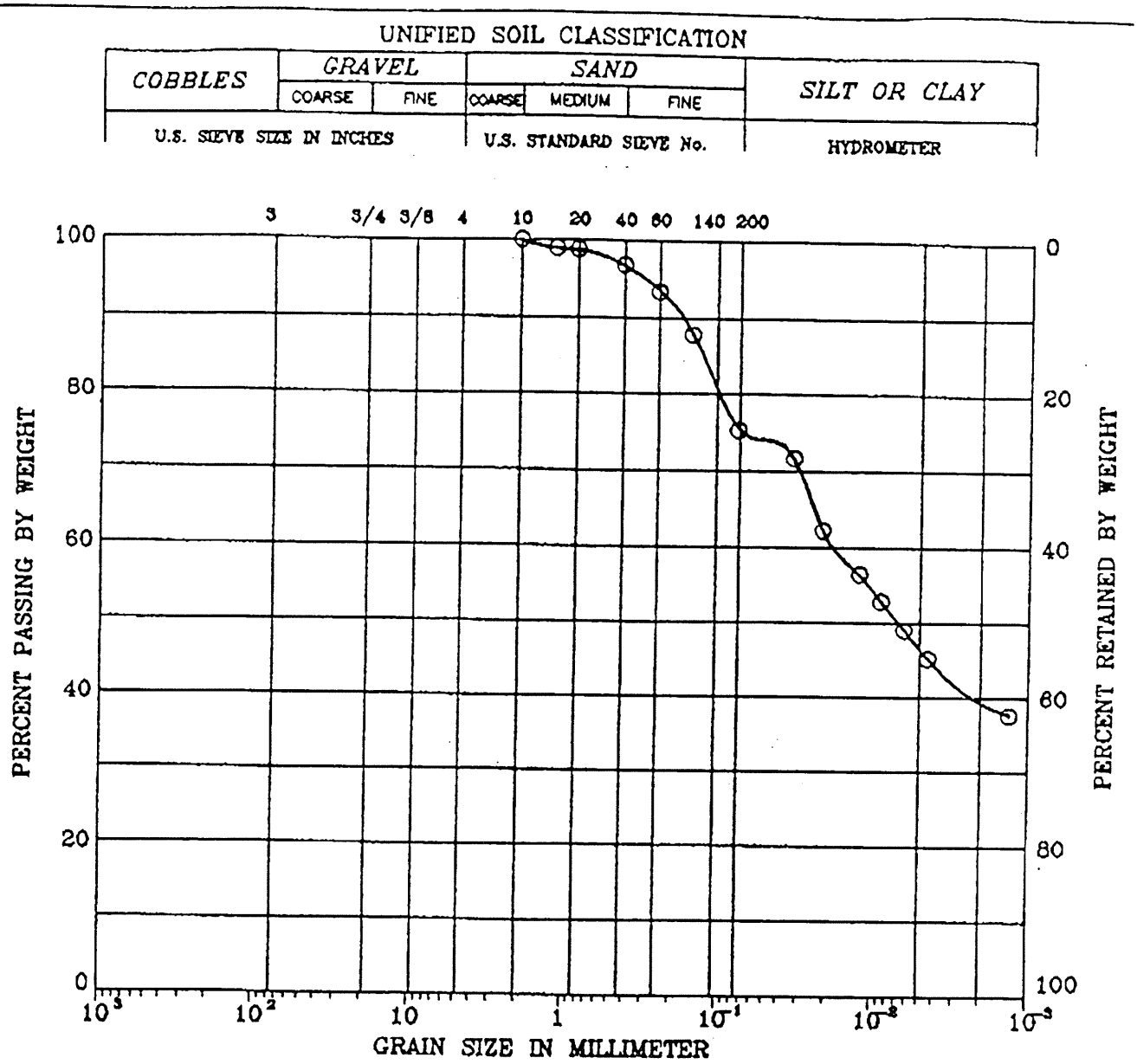
TETC #: 89-220-8502

CLIENT: Hydro - Fluent, Inc.

SUMMARIZED BY: S. Poolperm

SAMPLE NO.	DEPTH (ft)	PRE-TEST MEASUREMENT				BACK PRESSURE (psi)	B VALUE (%)	POST TEST		EFFECTIVE STRESS (psi)	HYDRAULIC GRADIENT (h/L)	HYDRAULIC CONDUCTIVITY (cm/s)
		MOISTURE CONTENT(%)	DRY DENSITY (pcf)	VOID * RATIO	DEGREE OF * SATURATION (%)			MOISTURE CONTENT	DEGREE OF * SATURATION (%)			
MW-3	39.0	22.0	101.5	0.663	89.5	69.0	96	N/A	N/A	32.5	250	7.60E-10
MW-6	39.0	25.5	96.4	0.748	92.0	60.0	98	N/A	N/A	32.5	93	1.13E-08

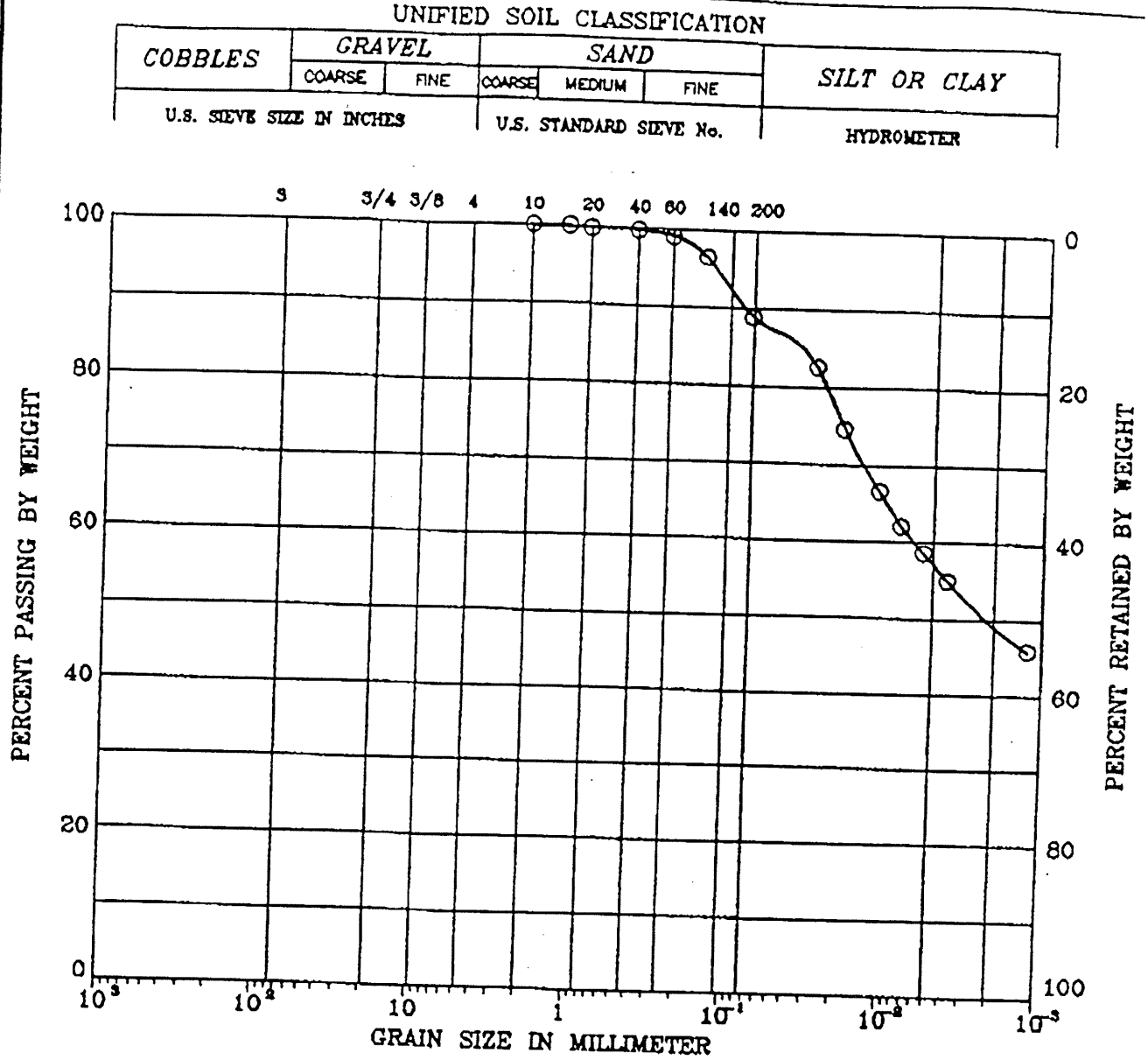
* Assuming specific gravity = 2.70



SYMBOL	BORING	DEPTH (ft)	LL (%)	PI (%)	DESCRIPTION
○	MW-3	39.0			FAT CLAY (CH) WITH FINE SAND DARK GREY

HYDRO FLUENT,INC.

UTILITY TRAILER Project No.1614-04	*The Earth Technology Corporation*	GRAIN SIZE DISTRIBUTION Figure No.1



SYMBOL	BORING	DEPTH (ft)	LL (%)	PI (%)	DESCRIPTION
○	MW-6	39.0			FAT CLAY (CH) WITH FINE SAND DARK GREY

HYDRO FLUENT,INC.

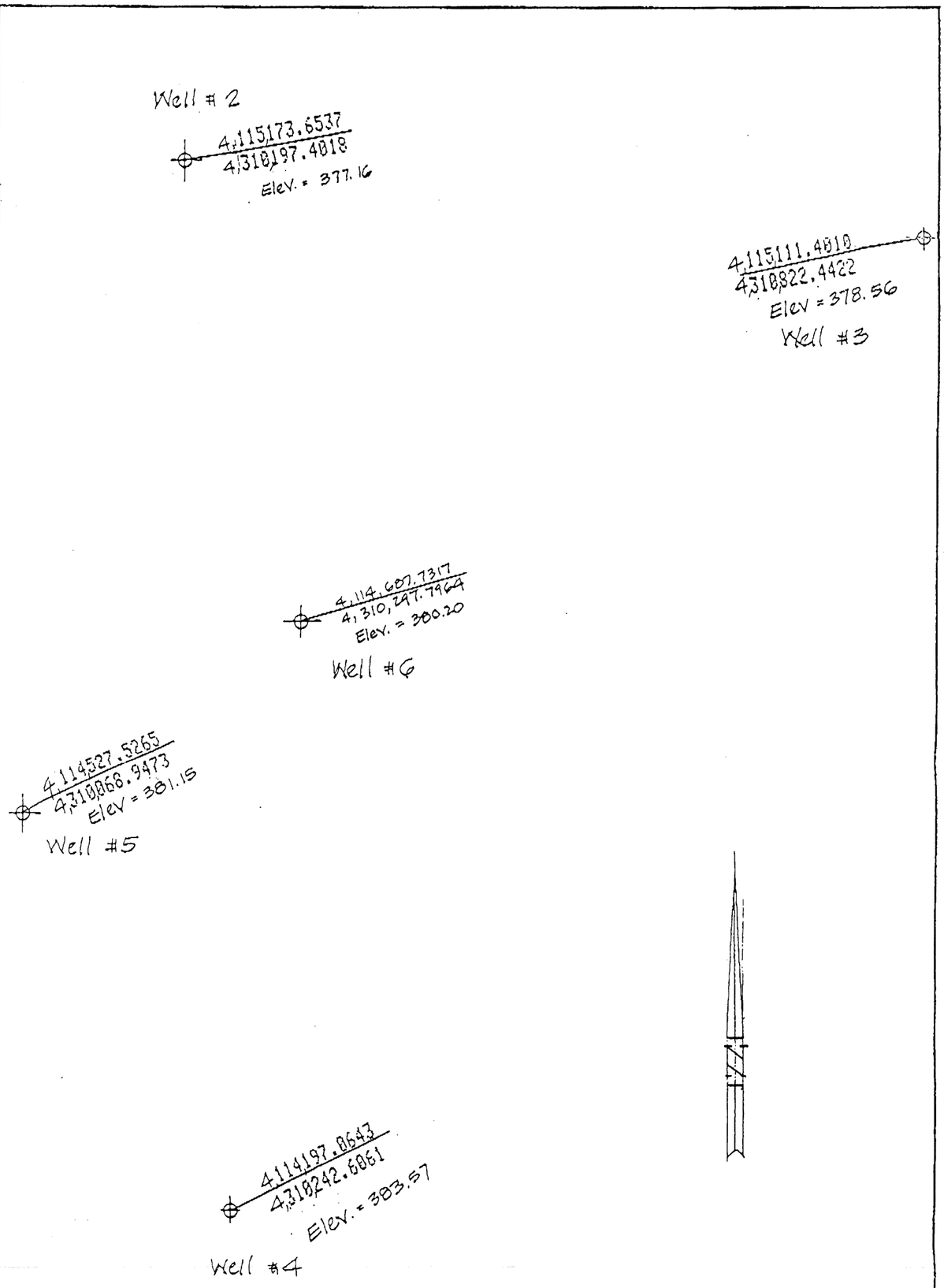
UTILITY TRAILER Project No.1814-04	*The Earth Technology Corporation*	GRAIN SIZE DISTRIBUTION Figure No.2

APPENDIX C

SAMPLE COLLECTION AND HANDLING PROCEDURES

APPENDIX D

MONITORING WELL
LOCATION SURVEY



By: TAK Date: 6-1-89		ANACAL ENGINEERING CO. 1900 East La Palma Ave., Suite 202 P. O. Box 3668 Anaheim, California 92803-3668 (714) 774-1763	LOCATION: Utility Trailer Manu. Co., City of Industry OWNER: SHEET NO. 1 of 1
SCALE: 1" = 100'	F. B. #		