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SITE INVESTIGATION REPORT

FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA

CONTRACT NO. 43A0012
TASK ORDER NO. 11-911175-PH

PREPARED FOR

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 11
SAN DIEGO, CALIFORNIA

PREPARED BY

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JUNE 2000

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ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS

Project No. 08900-06-10A
Task Order No. 11-911175-PH
June 21, 2000

Mr. Owen Chung
California Department of Transportation
District 11
2829 Juan Street
San Diego, California 92110

Subject: FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA
CONTRACT NO. 43A0012
TASK ORDER NO. 11-911175-PH
SITE INVESTIGATION REPORT

Dear Mr. Chung:

In accordance with Caltrans Contract No. 43A0012 and Task Order No. 11-911175-PH Geocon Consultants, Inc. (Geocon) has performed environmental engineering services at the property located southeast of the intersection of Taylor Street and Congress Street in Old Town San Diego, California (site). The accompanying report summarizes the services performed including a utility survey, advancement of ten strataprobe borings; advancement of three hollow-stem auger borings; limited soil sampling; completion of the borings as groundwater monitoring wells; monitoring and sampling of the wells; analysis of soil and groundwater samples; and preparation of this report. Please call us if you have any questions.

Sincerely,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Joel C. Kloth, RG 4628
Senior Project Geologist

REGISTERED GEOLOGIST
JOEL C. KLOTH
No. 4628
STATE OF CALIFORNIA

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(5) Addressee

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I. EXECUTIVE SUMMARY

In accordance with California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order (TO) No. 11-911175-PH, Geocon Consultants, Inc. (Geocon) performed an environmental site investigation of the former Caltrans motor pool located southeast of the intersection between Taylor Street and Congress Street in Old Town San Diego, California (site). Currently, the site is a park owned by the State Parks and Recreation Service.

The site referenced above was formerly a Standard Oil (Chevron) service station, which was acquired and operated by Caltrans as a motor pool facility from 1962 to 1978. According to information provided by Caltrans on-site underground storage tanks (USTs) were removed in 1978, and ownership of the property was transferred to the State Parks and Recreation Services in 1985. It was reported by the City of San Diego that dissolved petroleum hydrocarbons were encountered in groundwater in a sewer excavation located in the vicinity of Taylor Street and Congress Street during construction of the North Metro Interceptor Sewer Phase I in 1995. The City of San Diego has requested reimbursement of approximately $540,000 in costs associated with its testing and remediation of petroleum hydrocarbons detected around the excavation. As part of determining liability for the petroleum hydrocarbons and subsequent cleanup costs, Caltrans requested that Geocon perform assessment activities to evaluate the potential presence of petroleum hydrocarbons in soil and groundwater at the site.

The investigation consisted of performing a utility survey; advancing 10 Strataprobe borings to 15 feet below grade; drilling three borings to 19 feet below grade; installing three monitoring wells in the borings; soil and groundwater sampling and analysis for petroleum hydrocarbon constituents, fuel oxygenates, organic lead, and groundwater quality parameters; and preparation of this report. Results of the investigation at the site indicate that petroleum hydrocarbons are present in soil and groundwater beneath the site. The following conclusions and recommendations have been made regarding the site investigation:

- Groundwater quality beneath the site appears to be poor.
- The site is located approximately 500 feet from a non-beneficial groundwater use area.
- The groundwater gradient flowed to the west, toward non-beneficial use areas.
- The source of petroleum hydrocarbons detected in soil and groundwater at the site (i.e.: former underground storage tanks) appears to have been removed from the site.
- The lateral extent of petroleum hydrocarbons detected in soil has been assessed to the north, northwest, southwest, and south.
- The lateral extent of petroleum hydrocarbons detected in groundwater has been assessed to the southeast. Previous investigation in the site vicinity indicated that petroleum hydrocarbons in groundwater diminish toward the west and northwest. Due to the proximity to a non-beneficial use area, the lateral extent of petroleum hydrocarbons in groundwater has been adequately assessed.
- Benzene concentrations detected in a groundwater sample from a monitoring well located at the site slightly exceed the Maximum Concentration Limits for drinking water as prescribed by the California Department of Health Services.
- Due to the poor quality of groundwater at the site, the proximity of the site to a non-beneficial use area, the flow of groundwater toward the non-beneficial use area, the current use of the site as a park, and the lack of a UST source of petroleum hydrocarbons in soil and groundwater, further action at the site does not appear warranted.
- This report should be submitted to the County of San Diego Department of Environmental Health-Site Assessment and Mitigation Program for review.

SITE INVESTIGATION REPORT

1. INTRODUCTION

In accordance with Caltrans Contract No. 43A0012 and Task Order No. 11-911175-PH, Geocon Consultants, Inc. (Geocon) has performed site investigation activities at the former Caltrans motor pool, located southeast of the intersection between Taylor Street and Congress Street in Old Town San Diego, California (site). The approximate location of the site is depicted on the Vicinity Map, presented as Figure 1. Currently the site is a park owned by the State Parks and Recreation Service.

1.1 Background

The site was formerly a Standard Oil (Chevron) service station, which was acquired and operated by Caltrans as a motor pool facility from 1962 to 1978. According to information provided by Caltrans, on-site underground storage tanks (USTs), associated piping, and dispensers were removed in 1978, and ownership of the property was transferred to the State Parks and Recreation Services in 1985. It was reported that during construction of the North Metro Interceptor Sewer Phase I during 1995, the City of San Diego encountered groundwater with dissolved petroleum hydrocarbons at the intersection of Taylor Street and Congress Street.

A preliminary investigation performed by Environmental Business Solutions (EBS) included the drilling of four soil borings and the collection of three groundwater samples (B-2, B-3, and B-4). The groundwater sample collected from Boring B-2, located west of Congress Street (formerly San Diego Avenue) and within the Taylor Street right-of-way, exhibited detectable concentrations of benzene and toluene. A groundwater sample collected from borings B-3, located in Taylor Street between the North Metro Interceptor Sewer T-3 connector and the site exhibited detectable concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX). The groundwater sample collected from Boring B-4, located north of Calhoun Street and within the Taylor Street right-of-way, did not exhibit petroleum hydrocarbons. Copies of a site map and laboratory data from the above referenced EBS investigation are included in Appendix A.

In response to the above observed petroleum hydrocarbons, the City of San Diego initiated discussions with Caltrans representatives regarding the origin and potential responsibility for the observed petroleum hydrocarbons. As a result of the above referenced findings and correspondence with the City of San Diego, Caltrans requested that Geocon perform a site investigation.

1.2 Purpose and Scope of Work

The purpose of this investigation was to evaluate the potential presence of petroleum hydrocarbons in soil and groundwater beneath the site, in response to reports by the City of San Diego Sewer Department. The investigation included conducting a utility survey, advancing and backfilling 10 strataprobe borings, advancing three borings with hollow stem auger, completing the three borings as groundwater monitoring wells, collecting and testing of soil and groundwater samples, and preparing this report summarizing the results of the field activities. Geocon performed the scope of services outlined herein pursuant to Task Order 11-911175-PH. Activities completed for this task order are presented below:

1.2.1 Pre-Field Activities

- Attended task order meetings on April 15 and 28, 1999, to discuss issues such as field methods, strataprobe and boring/well locations, health and safety measures, landscaping issues, permitting and the completion schedule.
- Prepared a Health and Safety Plan dated October 12, 1999, providing guidelines on the use of personal protective equipment (PPE) and presented health and safety procedures to be implemented during the field activities.
- Contacted Underground Service Alert (USA) to notify utility companies of the field activities. Geocon was provided with USA Ticket Number 90224.
- Contracted ULS Services Corporation to perform a utility detection/location survey to attempt to locate underground utilities and potential underground anomalies in proximity to the proposed borings locations.
- Retained HP Laboratories, a Caltrans-approved Strataprobe contractor and a Caltrans-approved and California Department of Health Services (CDOHS)-certified mobile laboratory subcontractor, to perform the Strataprobe and mobile laboratory activities.
- Retained West Hazmat Drilling Corp., a Caltrans-approved and C-57 licensed subcontractor, to perform the drilling activities using a truck-mounted, hollow-stem auger-equipped drill rig.
- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and CDOHS-certified stationary laboratory to analyze the soil and groundwater samples collected during the field activities.

2. INVESTIGATIVE METHODS

2.1 Utility Survey

A utility survey was performed by ULS Services Corporation on April 5, 2000, to evaluate the potential presence of underground utilities and/or other buried structures at the proposed boring

locations. Underground utilities, USTs, or anomalies were not identified by the survey in the vicinity of the proposed strataprobe and boring/well locations on-site.

2.2 Strataprobe Soil Sampling

On April 6, 2000, Geocon personnel collected 39 soil samples from ten strataprobe borings (P1 through P10) advanced with a direct-push hydraulic rig. The soil samples were collected from depths of 1 foot, 5 feet, 10 feet, and 15 feet below the ground surface in each of the Strataprobe locations, with the exception of collecting a soil sample from strataprobe location P9 at 1 foot below grade. Soil samples were collected in stainless steel tubes, capped with plastic end caps and Teflon, labeled, and submitted to the on-site mobile laboratory for analysis. The approximate strataprobe locations are depicted on the Site Plan, Figure 2. Upon completion of sampling at each location, the strataprobe holes were backfilled with bentonite.

2.3 Boring Advancement, Soil Sampling, and Monitoring Well Installation

Three soil borings (MW-1 through MW-3) were drilled on April 7, 2000, using a truck-mounted drill rig equipped with 10-inch-diameter hollow-stem augers at the locations shown on Figure 2. Each boring was initiated by advancing a 3-inch diameter hand auger or post-hole digger to reduce the potential for encountering underground utilities.

The borings were drilled to depths of approximately 19 feet below grade. Soil samples were collected at 1-foot and 5-foot intervals thereafter, with a standard penetration test split-spoon sampler with stainless steel tubes from the bottom 6 inches. Soil sample sleeves were sealed with Teflon sheets, capped, labeled, and submitted to the on-site mobile laboratory for analysis. Geocon personnel collected a total of 15 soil samples from the borings. The borings were logged by field personnel using the Unified Soil Classification System. Soil descriptions, approximate sample depths, and sample collection times were recorded on the boring logs included as Appendix B. The cuttings were stored in 55-gallon drums on-site pending disposal.

Monitoring wells were then installed in borings MW-1 through MW-3. The wells were constructed of 4-inch polyvinyl chloride (PVC) casing, and extended to a depth of approximately 18 feet below grade. The wells consisted of an approximately 10-foot screened interval with 0.020-inch slots, and approximately 8 feet of blank casing. A filter pack consisting of sand was placed around the well screens to a depth approximately 2.5 feet above the top of the screened interval. Subsequent to placement of the filter pack, the well was developed for approximately 10 minutes using a surge block. Once well surging was complete, an approximately 3.5 foot thick seal consisting of hydrated bentonite chips was placed over the sand pack and the remaining annulus was sealed to a depth of

approximately 2 feet below grade with a bentonite grout. A traffic-rated, flush-mounted well cover was set in concrete over the well, and a locking cap was placed over the casing.

Quality assurance/quality control procedures (QA/QC) were implemented during sampling and monitoring well installation activities. The equipment was cleansed and rinsed prior to the collection of each soil sample by washing the equipment with a trisodium phosphate solution followed by subsequent tap water and deionized water rinses.

The monitoring wells were surveyed on May 3, 2000, for location and elevation by a licensed surveyor relative to an established City of San Diego benchmark. The benchmark used is located at the northeast corner of the intersection between Taylor Street/Rosecrans Street and Pacific Coast Highway. The survey information is provided in the table below.

Well ID	Northing (ft)	Easting (ft)	Elevation (ft above mean-sea-level)
MW-1	5028.50	5038.69	11.470
MW-2	5050.62	4992.16	10.727
MW-3	5020.99	4997.52	11.426

2.4 Laboratory Analytical Methods for Soil Samples

Soil samples submitted to the on-site mobile laboratory were analyzed for TPHg and total petroleum hydrocarbons as diesel (TPHd) following EPA Test Method 8015M, and BTEX and methyl tertiary butyl ether (MTBE) following EPA Test Method 8020.

Soil samples containing TPHg and TPHd concentrations detected in the mobile laboratory were transferred under chain-of-custody protocol to a stationary laboratory for further analysis. Soil samples submitted to the stationary laboratory were analyzed for volatile organic compounds (VOCs) following EPA Test Method 8260B, semi-volatile organic compounds (SVOCs) following EPA Test Method 8270C, and organic lead following the California Department of Health Services (CDOHS) Test Method. The stationary laboratory analyses were performed on a standard turn-around-time basis. Soil samples which had MTBE concentrations as reported by EPA Test Method 8020 were to be confirmed by EPA Test Method 8260B. Since MTBE was not detected in the soil samples by EPA Test Method 8020, further analysis by EPA Test Method 8260B was not performed.

2.5 Groundwater Monitoring and Sampling

On April 11, 2000, monitoring wells MW-1 through MW-3 were monitored, purged, and sampled. Well depths and depths to groundwater were measured in each well prior to well purging. Groundwater depth measurements were obtained using a battery-operated oil/water interface probe. Free product was not detected in the wells. The monitoring wells were purged using a 2-inch diameter submersible pump. The purging was documented on a Groundwater Sampling Worksheet, which included: a description of the technique used; date and duration of development; quantity of water purged; and pH, conductivity, and temperature of the purged groundwater. Due to the potential for unreliable groundwater depth measurements resulting from a leak in sprinkler lines on-site during well installation, a second set of groundwater depth measurements were obtained on May 8, 2000, which was used to calculate the groundwater gradient and flow. A copy of the Groundwater Sampling Worksheet is included in Appendix C. Purged water was stored on-site in 55-gallon drums, pending laboratory analysis.

After monitoring, groundwater samples were collected from each well using disposable polyethylene bailers. The samples were placed in laboratory-provided glass 40-milliliter VOA vials and 1-liter amber bottles, labeled, chilled, and delivered to a CDOHS-certified analytical stationary laboratory for analysis.

2.6 Laboratory Analytical Methods for Groundwater Samples

Analyses performed on groundwater samples collected from monitoring wells MW-1 through MW-3 included: TPHg, TPHd, and fuel oxygenates (MTBE, tertiary butanol, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME)) following modified EPA Test Method 8015; BTEX following EPA Test Method 8020; VOCs including MTBE following EPA Test Method 8260B; SVOCs following EPA Test Method 8270C, total dissolved solids (TDS) following EPA Test Method 160.1, salinity following SM 2520, and conductivity following EPA Test Method 120.1.

3. INVESTIGATIVE RESULTS

3.1 Site Geology and Hydrology

The approximately upper 8 to 10 feet of soil in borings MW-1 through MW-3 on-site appeared to be fill that consisted predominantly of moderately dense, humid, dark yellowish-brown to light olive fine to medium sand (SP). Beneath the fill, a loose to moderately dense, very dark gray, fine to medium silty sand with clay (SM) was encountered to the total depth of investigation, approximately 19 feet

below grade. This lithologic unit appeared to be associated with the Bay Point Formation. A generalized cross-section of the lithology and groundwater depth in the wells on-site is presented on the Cross Section A-A' and B-B' map, Figure 3.

According to California Division of Mines and Geology Bulletin 200 entitled *Geology of the San Diego Metropolitan Area*, dated 1975, the site is underlain by artificial fill, which is underlain by the Bay Point Formation. The Bay Point Formation consists of mostly marine and nonmarine poorly consolidated, fine to medium grained, pale brown, fossiliferous sandstone.

Groundwater was encountered in wells MW-1 through MW-3 on-site at approximately 11 feet below grade. The groundwater flow is to the west with a gradient of 0.002, as indicated on the Groundwater Gradient Map, Figure 4.

According to the California Regional Water Quality Control Board *Water Quality Control Plan for the San Diego Basin (9),* dated September 1994, the site is located in the Mission San Diego Hydrologic Subarea of the Lower San Diego Hydrologic Area of the San Diego Hydraulic Unit. Though existing beneficial uses include agricultural, industrial and process purposes with potential beneficial uses for municipal purposes, the site is located approximately 500 feet east (upgradient) of Interstate 5 which is an area considered non-beneficial (foot notes of Table 2-5 of the *Water Quality Control Plan for the San Diego Basin (9)*, dated September 8, 1994).

3.2 Soil Sample Analytical Results

Petroleum hydrocarbon compounds (either/or TPHg, TPHd, BTEX, VOCs, and SVOCs) were detected in soil samples collected from Strataprobe locations P2, P4, P5, P6, and P7, and in borings/wells MW-2 and MW-3. Petroleum hydrocarbons were detected exclusively in soil samples collected from the 10-foot depth in these sample locations, with the exception of Strataprobe location P5. In strataprobe location P5, petroleum hydrocarbons were also detected in the soil sample collected form a depth of 5 feet below grade. Petroleum hydrocarbon compounds were not detected above the respective laboratory detection limits in strataprobe locations P1, P3, P8, P9, and P10, and in boring/well MW-1.

Soil sample analytical results are presented in Tables I and II. Soil analytical results for TPHg, benzene, VOCs, and SVOCs in borings/wells MW-1 through MW-3 are presented on Cross Sections A-A' and B-B' (Figure 3). Soil Analytical results for TPHg, TPHd, BTEX, MTBE, VOCs, and SVOCs at a depth of 10 feet below grade in Strataprobe locations P1 through P10 and borings/wells MW-1 through MW-3 are presented on the Petroleum Hydrocarbons in Soil at 10 Feet map, Figure 5. Contours showing TPHg concentrations at 10 feet below grade are depicted on the TPH

Concentrations in Soil at 10 Feet map, Figure 6. Copies of the laboratory reports and chain-of-custody information are presented as Appendix D.

3.3 Groundwater Analytical Results

Petroleum hydrocarbon compounds (TPHg, TPHd, BTEX, fuel oxygenates, VOCs, and SVOCs) were detected in groundwater samples collected from monitoring wells MW-2 and MW-3. Petroleum hydrocarbon compounds (TPHg, TPHd, BTEX, fuel oxygenates, VOCs, and SVOCs) were not detected above the respective laboratory detection limits in monitoring well MW-1. Concentrations of TDS ranged from 3,490 to 3,530 µg/l, concentrations of salinity ranged from 3.6 to 3.7 µg/l, and conductivity ranged from 5,040 to 5,180 umhos/cm in groundwater samples collected from monitoring wells MW-1 through MW-3.

Groundwater analytical results are presented in Tables III and IV. Petroleum hydrocarbon concentrations in groundwater samples collected from wells on-site and benzene concentration contours are presented on the Dissolved Benzene Isocontours map, Figure 7. Copies of the laboratory reports and chain-of-custody information are presented as Appendix D.

3.4 Drummed Soil Cuttings and Water

Laboratory analytical results indicated that soil and water drums on-site required proper disposal. Seven drums containing soil and water were removed from the site for disposal on May 11, 2000. Waste disposal manifests and supporting documentation will be submitted as an addendum to this report when they are received.

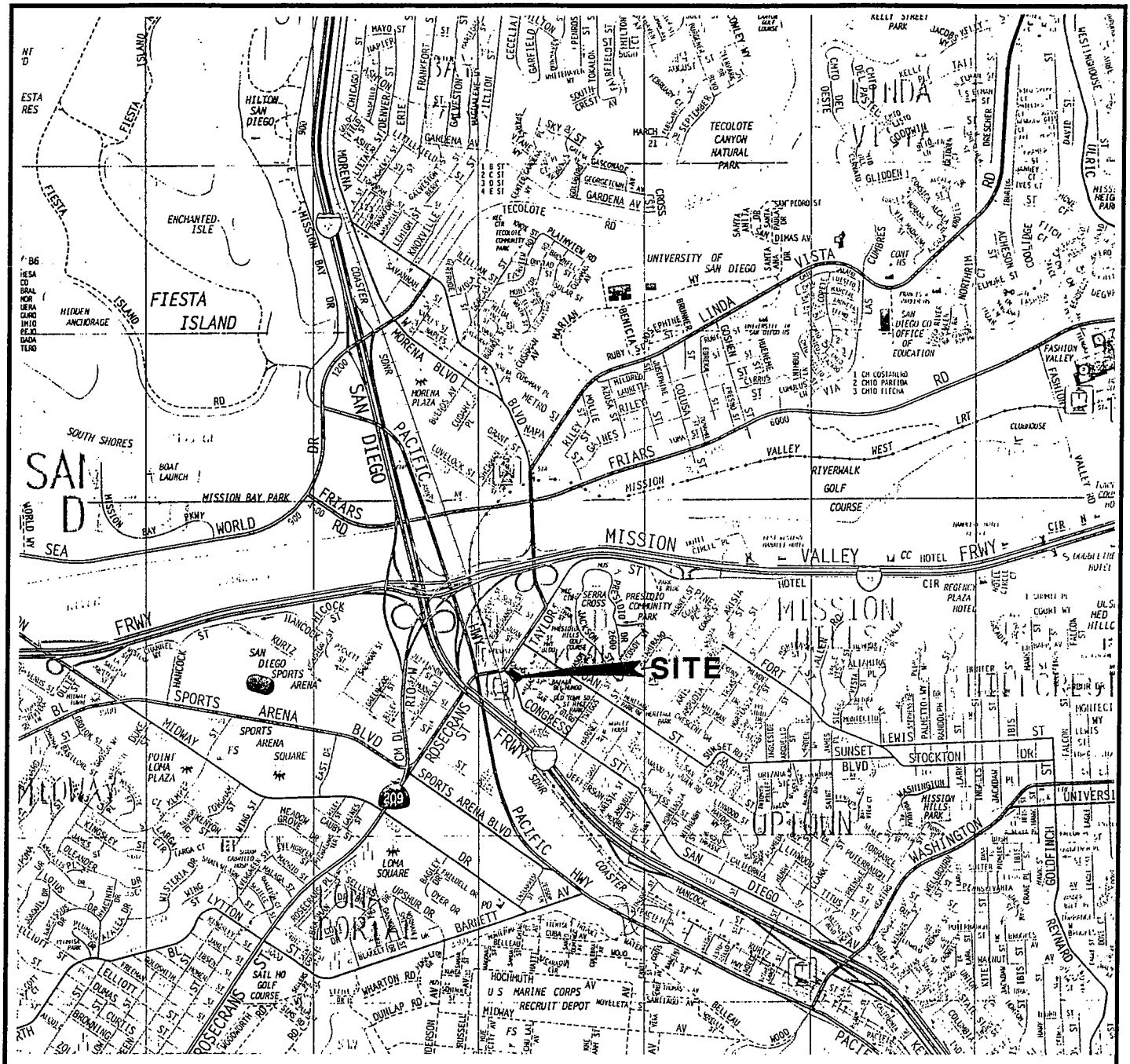
4. CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations have been made regarding the site investigation:

- Based on the TDS, salinity, and conductivity readings, the groundwater quality appears to be poor beneath the site.
- The site is located approximately 500 feet from a non-beneficial use area (the Interstate 5 freeway located to the west).
- The groundwater gradient at the site flowed to the west, toward non-beneficial use areas.
- The source of petroleum hydrocarbons detected in soil and groundwater at the site (former USTs) appears to have been removed from the site.
- The lateral extent of petroleum hydrocarbons (TPHg, TPHd, BTEX, VOCs, and SVOCs) detected in soil has been assessed to the north, northwest, southwest, and south.
- The lateral extent of petroleum hydrocarbons (TPHg, TPHd, BTEX, VOCs, and SVOCs) detected in groundwater has been assessed to the southeast. Previous investigation in the site vicinity indicated that petroleum hydrocarbons in groundwater diminish toward the west and northwest. Due to the proximity to a non-beneficial area, the lateral extent of petroleum hydrocarbons in groundwater has been adequately assessed.
- Benzene concentrations detected in a groundwater sample from well MW-2, located on-site slightly exceed the Maximum Concentration Limits for drinking water as prescribed by the California Department of Health Services.
- Due to the poor quality of groundwater at the site, the proximity of the site to a non-beneficial use area, the flow of groundwater toward the non-beneficial use area, the current use of the site as a park, and the lack of a UST source of petroleum hydrocarbons in soil and groundwater, further action at the site does not appear warranted.
- This report should be submitted to the County of San Diego Department of Environmental Health-Site Assessment and Mitigation Program for review.

5. REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. Caltrans should recognize that this report does not contain a comprehensive site characterization and should not be construed as such. Appropriate regulatory agencies may require additional environmental engineering services. The findings and conclusions as presented in this report are predicated on the results of the limited soil sampling, groundwater sampling, and laboratory analyses performed. In addition, the information obtained is not intended to address potential petroleum hydrocarbon related to sources other than those specified herein. Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either express or implied. Geocon performed the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



SOURCE : 2000 THOMAS BROTHERS MAP
SAN DIEGO COUNTY, CALIFORNIA

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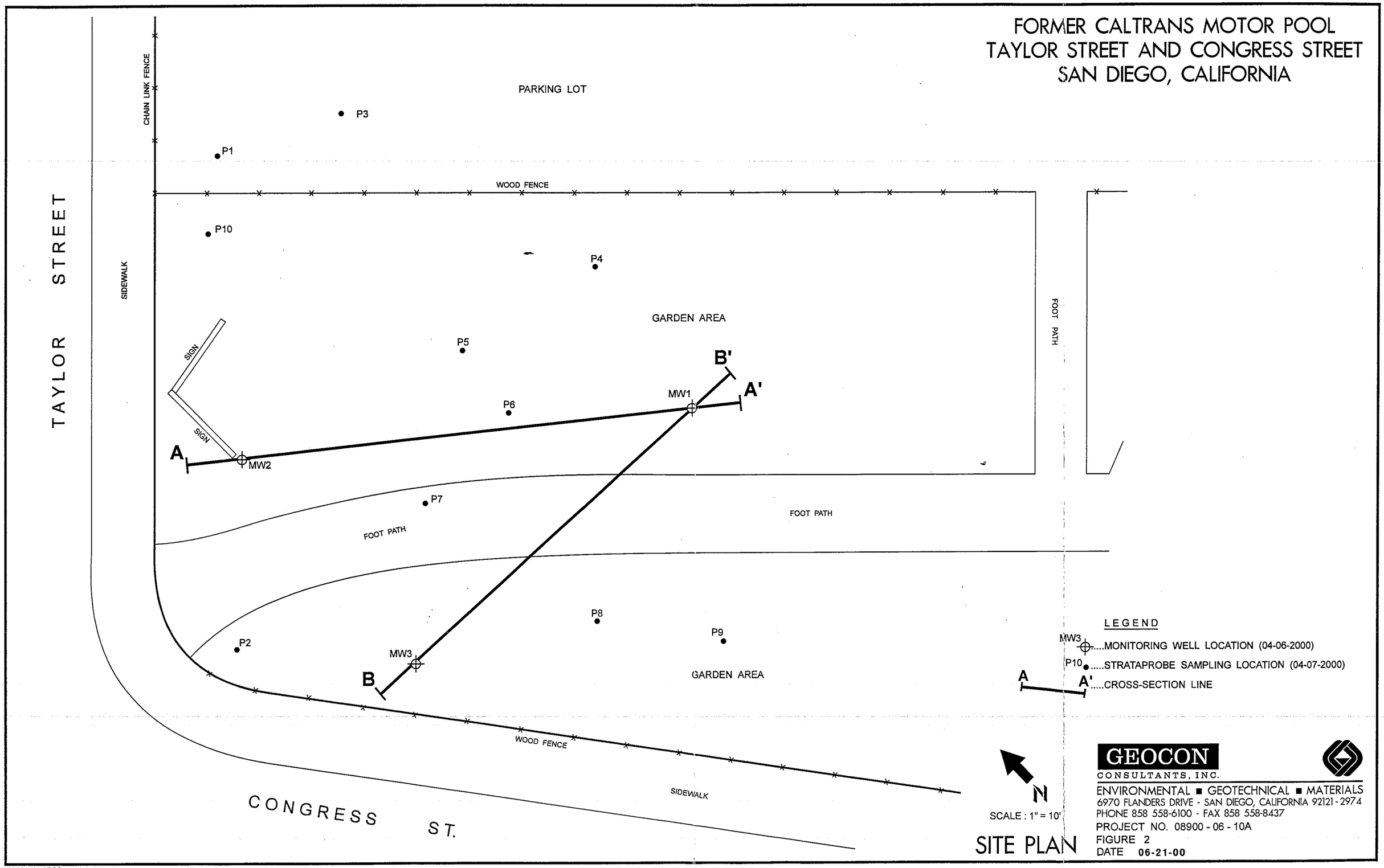
VICINITY MAP

FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA

DATE 06-21-00	PROJECT NO. 08900 - 06 - 10A	FIG. 1

1EVICMAP

FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA



SCALE : 1" = 10'

SITE PLAN

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FIGURE 2
DATE 06-21-00

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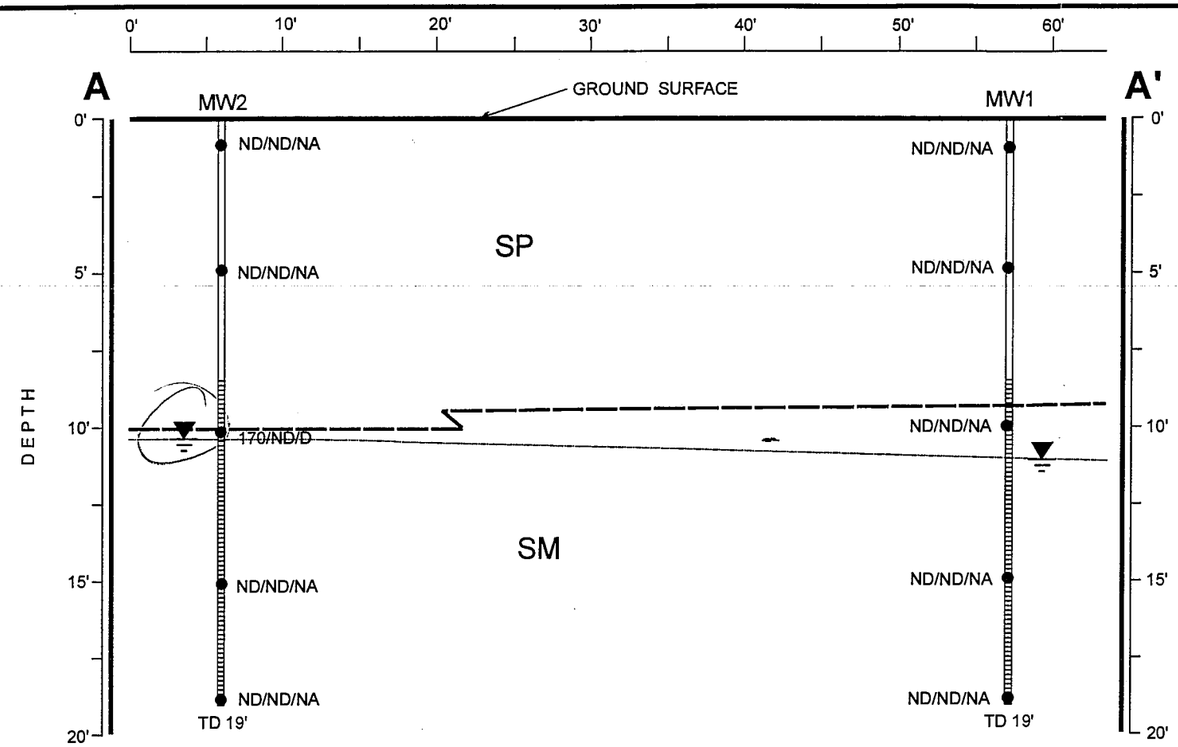
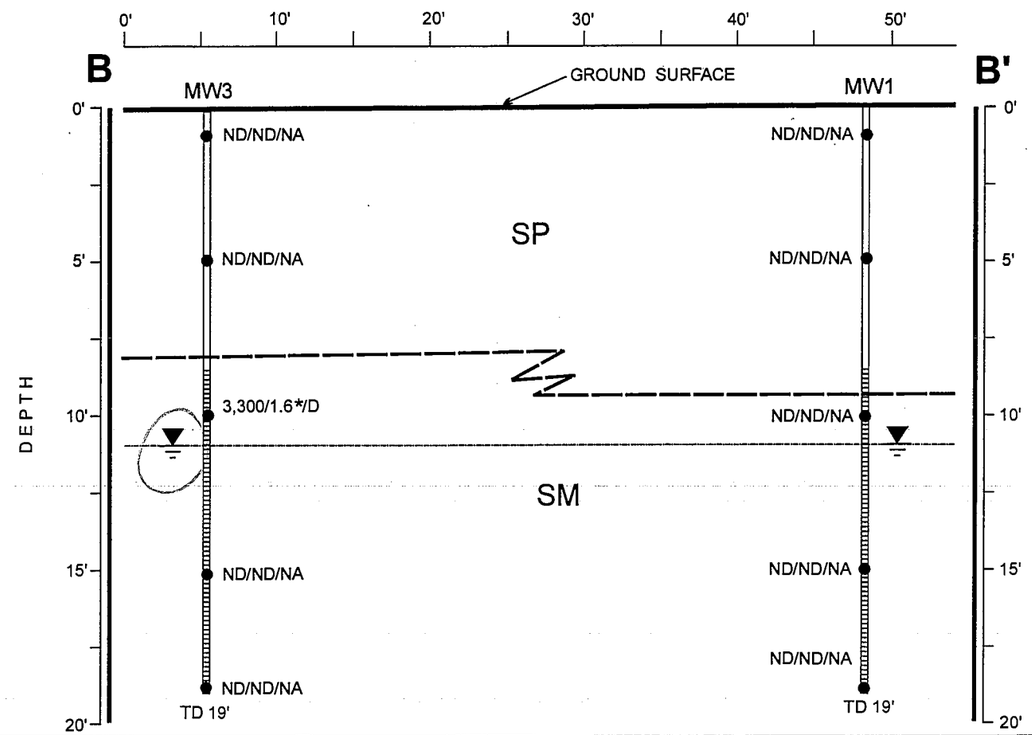
SAN DIEGO, CALIFORNIA





LEGEND

● = SOIL SAMPLING POINT

ND = NOT DETECTED

D = VOCs AND SVOCs DETECTED, SEE TABLE II FOR SPECIFIC COMPOUNDS

170/ND/D = TPHg/BENZENE/VOCs AND SVOCs

NA = NOT ANALYZED

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND BENZENE IN MILLIGRAMS PER KILOGRAM

VOCs = VOLATILE ORGANIC COMPOUNDS

SVOCs = SEMI-VOLATILE ORGANIC COMPOUNDS

* = SAMPLE DILUTED RESULTING IN AN INCREASED DETECTION LIMIT

= GROUNDWATER ELEVATION MEASURED ON 05-11-2000

SCALE : 1" = 10' (HORIZ.)
1" = 5' (VERT.)

CROSS-SECTIONS A-A' AND B-B'

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FIGURE 3
DATE 06-21-00

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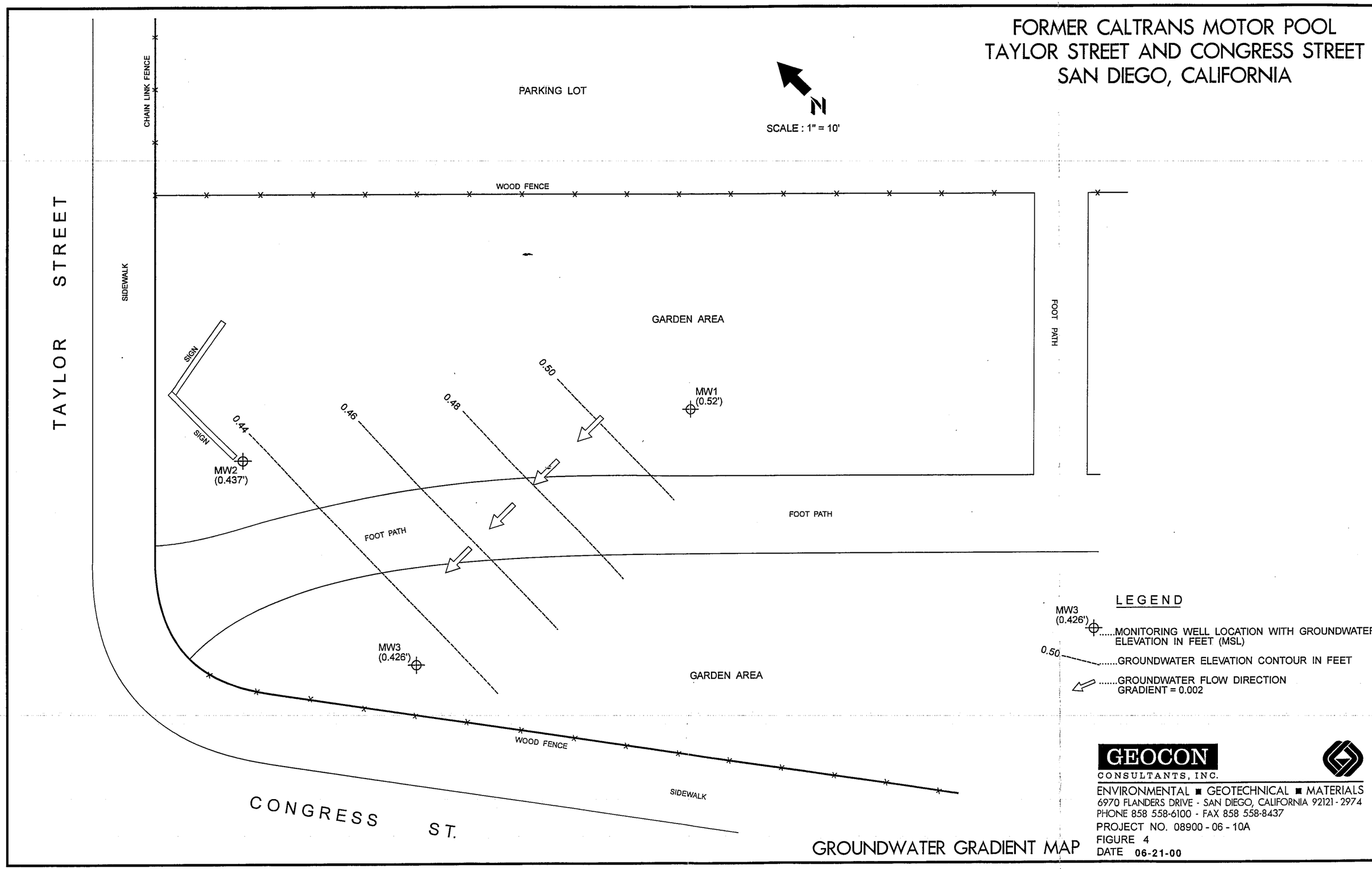
SAN DIEGO, CALIFORNIA



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PROJECT NO. 08900 - 06 - 10A
FIGURE 4
DATE 06-21-00

GROUNDWATER GRADIENT MAP

8900J10E / RSS

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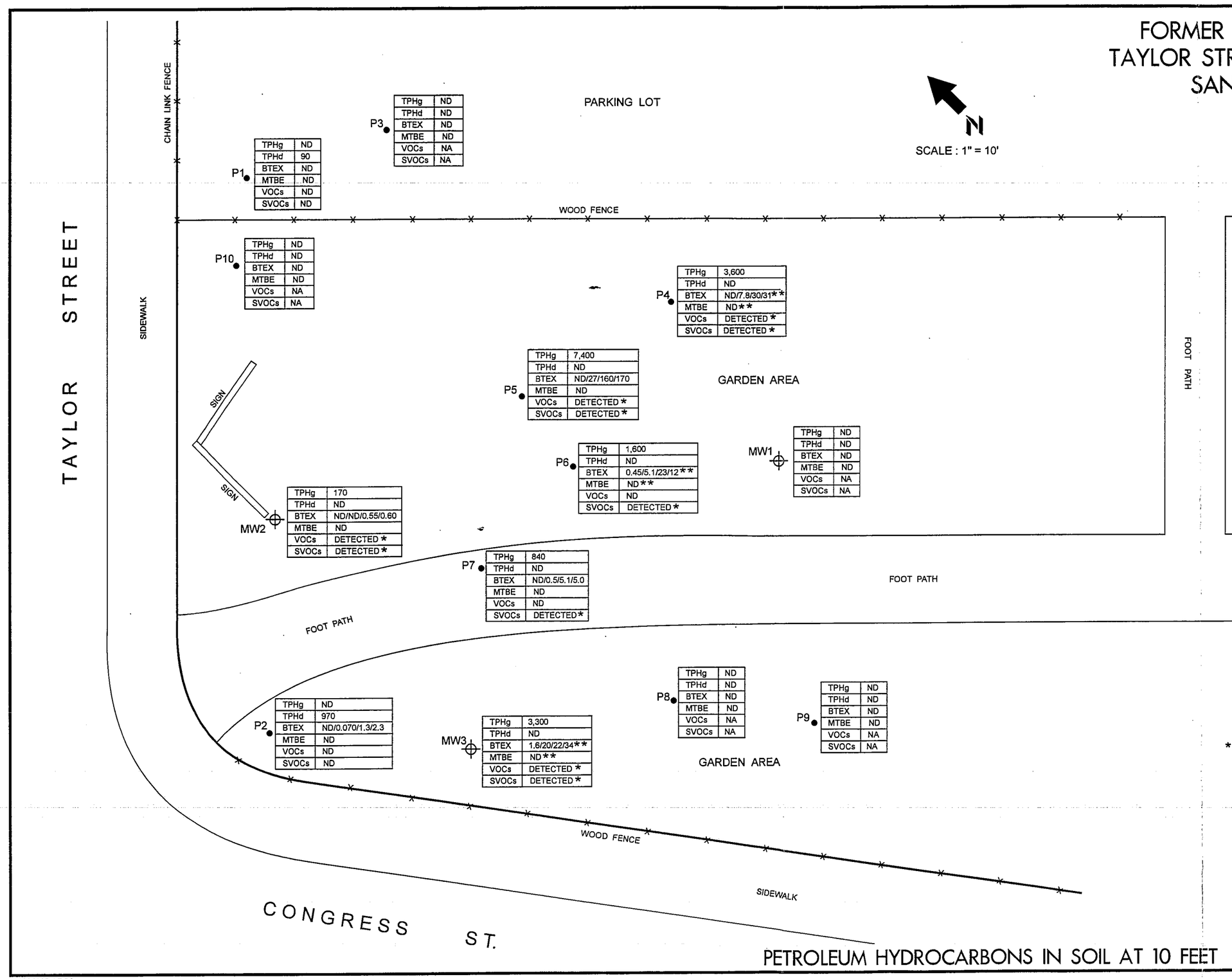
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA



LEGEND

MW3 .....MONITORING WELL LOCATION

P10 .....STRATAPROBE LOCATION

ND = NOT DETECTED

NA = NOT ANALYZED

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN MILLIGRAMS PER KILOGRAM

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL IN MILLIGRAMS PER KILOGRAM

BTEX = BENZENE, TOULENE, ETHYLBENZENE, XYLENES IN MILLIGRAMS PER KILOGRAM

MTBE = METHYL TERTIARY BUTYL ETHER IN MILLIGRAMS PER KILOGRAM

VOCs = VOLATILE ORGANIC COMPOUNDS

SVOCs = SEMI-VOLATILE ORGANIC COMPOUNDS

NOTE:

* FOR SPECIFIC VOC AND SVOC COMPOUNDS SEE TABLE II

** SAMPLE DILUTED, RESULTING IN AN INCREASED DETECTION LIMIT

DATA REFLECTS SOIL SAMPLES FROM A DEPTH OF 10 FEET

GEOCON
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PROJECT NO. 08900-06-10A

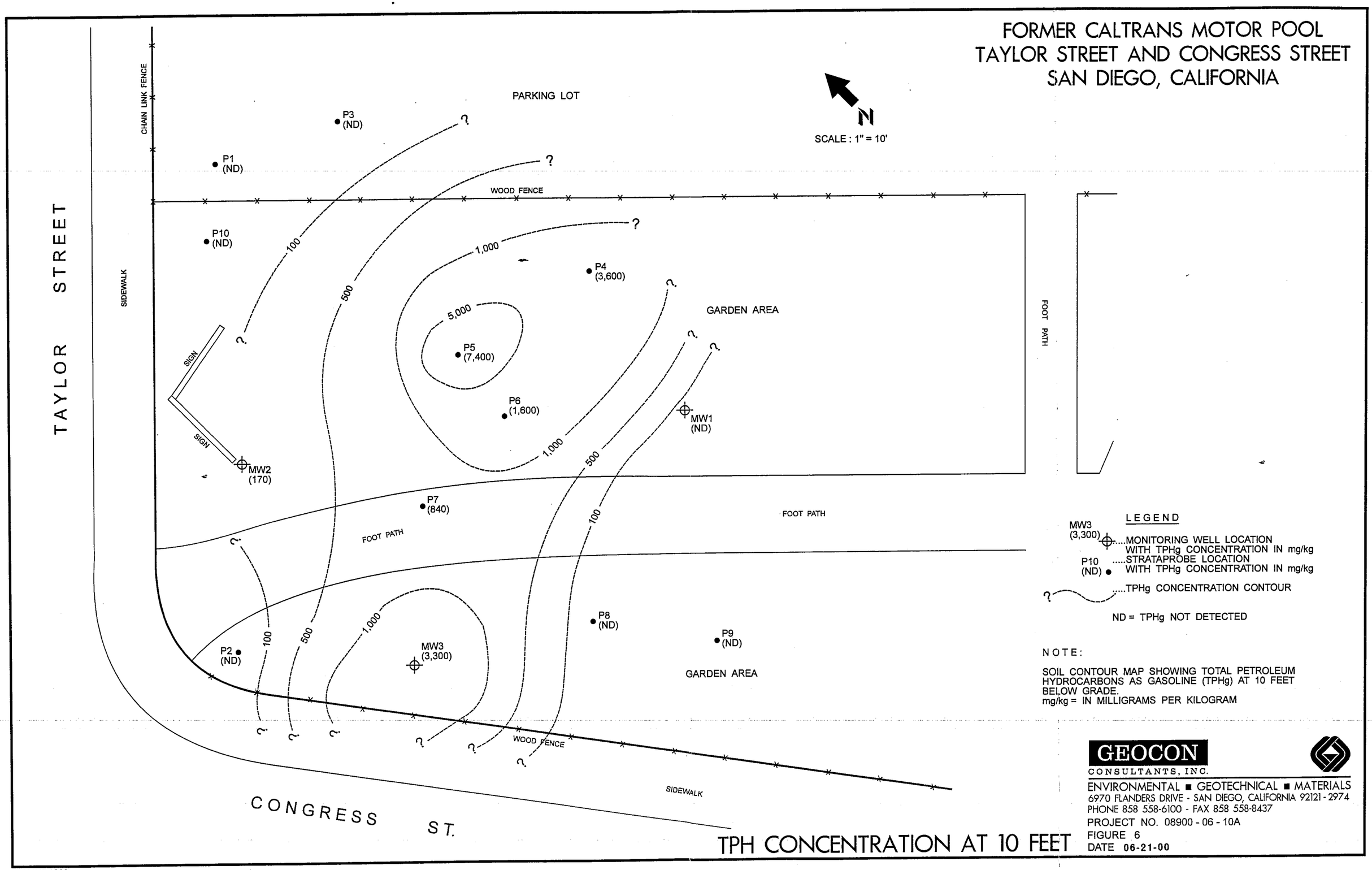
FIGURE 5

DATE 06-21-00

PETROLEUM HYDROCARBONS IN SOIL AT 10 FEET

8900J10B / RSS

FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA



TPH CONCENTRATION AT 10 FEET

GEOCON
CONSULTANTS, INC.
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6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
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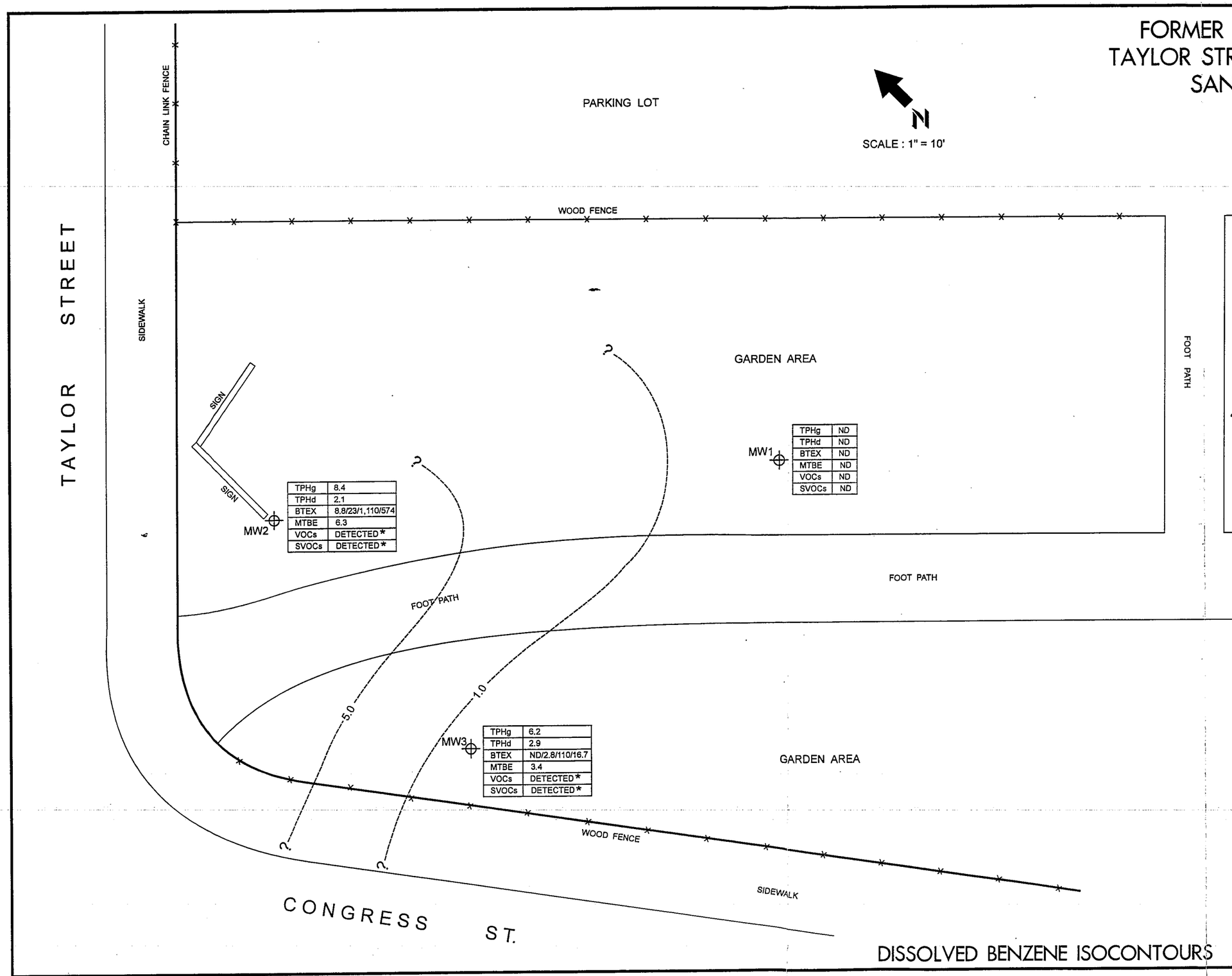
PROJECT NO. 08900 - 06 - 10A
FIGURE 6
DATE 06-21-00

8900J10D / RSS

FORMER CALTRANS MOTOR POOL
TAYLOR STREET AND CONGRESS STREET
SAN DIEGO, CALIFORNIA



LEGEND

MW3 .....MONITORING WELL LOCATION

.....BENZENE CONCENTRATION CONTOUR

ND = NOT DETECTED

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN MICROGRAMS PER LITER

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL IN MICROGRAMS PER LITER

BTEX = BENZENE, TOULENE, ETHYLBENZENE, XYLENES IN MICROGRAMS PER LITER

MTBE = METHYL TERTIARY BUTYL ETHER IN MICROGRAMS PER LITER

VOCs = VOLATILE ORGANIC COMPOUNDS

SVOCs = SEMI-VOLATILE ORGANIC COMPOUNDS

*NOTE:

FOR SPECIFIC VOC AND SVOC COMPOUNDS SEE TABLE IV

DISSOLVED BENZENE ISOCONTOURS

GEOCON
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858 558-6100 - FAX 858 558-8437

PROJECT NO. 08900-06-10A
FIGURE 7
DATE 06-21-00

8900J10C / RSS

TABLE I
SUMMARY OF SOIL ANALYTICAL RESULTS (TPHg, TPHd, BTEX, MTBE, ORGANIC LEAD, VOCs, and SVOCs)

Sample ID (with depth in feet)	TPHg EPA 8015M (mg/kg)	TPHd EPA 8015M (mg/kg)	Benzene EPA 8020 (mg/kg)	Toluene EPA 8020 (mg/kg)	Ethyl-Benzene EPA 8020 (mg/kg)	Xylenes EPA 8020 (mg/kg)	MTBE EPA 8020 (mg/kg)	Organic Lead (mg/kg)	VOCs EPA 8260 (µg/kg)	SVOCs EPA 8270 (µg/kg)
P1-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
P1-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P1-10	ND	90***	ND	ND	ND	ND	ND	ND	ND	ND
P1-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P2-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P2-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P2-10	ND	970***	ND	0.070	1.3	2.3	ND	ND	ND	ND
P2-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P3-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
P3-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P3-10	ND	ND	ND	ND	ND	ND	ND	---	---	---
P3-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P4-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P4-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P4-10	3,600	ND	ND****	7.8****	30****	31****	ND****	ND	*	**
P4-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P5-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P5-5	310	ND	0.22	0.60	4.5	22	ND	ND	*	**
P5-10	7,400	ND	ND	27	160	170	ND	5.5	*	**
P5-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P6-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P6-5	ND	ND	ND	ND	ND	ND	ND	---	---	---

TABLE I (Continued)
SUMMARY OF SOIL ANALYTICAL RESULTS (TPHg, TPHd, BTEX, MTBE, ORGANIC LEAD, VOCs, and SVOCs)

Sample ID (with depth in feet)	TPHg EPA 8015M (mg/kg)	TPHd EPA 8015M (mg/kg)	Benzene EPA 8020 (mg/kg)	Toluene EPA 8020 (mg/kg)	Ethyl-Benzene EPA 8020 (mg/kg)	Xylenes EPA 8020 (mg/kg)	MTBE EPA 8020 (mg/kg)	Organic Lead (mg/kg)	VOCs EPA 8260 (µg/kg)	SVOCs EPA 8270 (µg/kg)
P6-10	1,600	ND	0.45****	5.1****	23****	12****	ND****	ND	ND	**
P6-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P7-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
P7-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P7-10	840	ND	ND	0.50	5.1	5.0	ND	ND	ND	**
P7-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P8-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P8-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P8-10	ND	ND	ND	ND	ND	ND	ND	---	---	---
P8-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P9-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P9-10	ND	ND	ND	ND	ND	ND	ND	---	---	---
P9-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
P10-S	ND	ND	ND	ND	ND	ND	ND	---	---	---
P10-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
P10-10	ND	ND	ND	ND	ND	ND	ND	---	---	---
P10-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW1-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW1-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW1-10	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW1-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW1-18	ND	ND	ND	ND	ND	ND	ND	---	---	---

TABLE I (Continued)
SUMMARY OF SOIL ANALYTICAL RESULTS (TPHg, TPHd, BTEX, MTBE, ORGANIC LEAD, VOCs, and SVOCs)

Sample ID (with depth in feet)	TPHg EPA 8015M (mg/kg)	TPHd EPA 8015M (mg/kg)	Benzene EPA 8020 (mg/kg)	Toluene EPA 8020 (mg/kg)	Ethyl-Benzene EPA 8020 (mg/kg)	Xylenes EPA 8020 (mg/kg)	MTBE EPA 8020 (mg/kg)	Organic Lead (mg/kg)	VOCs EPA 8260 (µg/kg)	SVOCs EPA 8270 (µg/kg)
MW2-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW2-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW2-10	170	ND	ND	ND	0.55	0.60	ND	ND	*	**
MW2-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW2-18	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW3-1	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW3-5	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW3-10	3,300	ND	1.6****	20****	22****	34****	ND****	7.1	*	**
MW3-15	ND	ND	ND	ND	ND	ND	ND	---	---	---
MW3-18	ND	ND	ND	ND	ND	ND	ND	---	---	---

Notes:

P1-1	=	boring number-depth in feet below grade
*	=	volatile organic compounds detected above the laboratory detection limits, see Table II for a list of compounds
**	=	semi-volatile organic compounds detected above the laboratory detection limits, see Table II for a list of compounds
***	=	laboratory report notation "hydrocarbon compounds detected in diesel-kerosene range, quantified versus diesel standard."
****	=	the laboratory detection limits were increased due to the sample dilution, see laboratory reports for detection limits
---	=	not analyzed
µg/kg	=	micrograms per kilogram
mg/kg	=	milligrams per kilogram
ND	=	not detected above the respective laboratory detection limit
MTBE	=	methyl tertiary butyl ether
TPHg	=	total petroleum hydrocarbons as gasoline
TPHd	=	total petroleum hydrocarbons as diesel
EPA	=	United States Environmental Protection Agency

TABLE II
SUMMARY OF SOIL ANALYTICAL RESULTS (VOCs and SVOCs)

VOCs EPA 8260 (µg/kg)	P1-10	P2-10	P4-10	P5-5	P5-10	P6-10	P7-10	MW2-10	MW3-10
ethylbenzene	ND	ND	ND	423	163,850	ND	ND	2,670	1,560
m, p-xylenes	ND	ND	ND	1,408	173,850	ND	ND	936	ND
o-xylenes	ND	ND	ND	613	ND	ND	ND	ND	ND
isopropylbenzene	ND	ND	ND	129	29,600	ND	ND	1,360	1,940
n-propylbenzene	ND	ND	27	480	99,000	ND	ND	5,940	7,310
tert-butylbenzene	ND	ND	ND	499	68,300	ND	ND	ND	ND
1,3,5-trimethylbenzene	ND	ND	78	1,175	180,350	ND	ND	2,520	ND
1,2,4-trimethylbenzene	ND	ND	203	2,930*	540,100	ND	ND	2,870	ND
sec-butylbenzene	ND	ND	ND	94	ND	ND	ND	1,470	2,040
4-isopropyltoluene	ND	ND	ND	68	ND	ND	ND	914	359
n-butlybenzene	ND	ND	ND	ND	ND	ND	ND	6,540	7,290
naphthalene	ND	ND	46	1,200	174,000	ND	ND	17,500	20,500
SVOCs EPA 8270 (µg/kg)	**P1-10**	**P2-10**	**P4-10**	**P5-5**	**P5-10**	**P6-10**	**P7-10**	**MW2-10**	**MW3-10**
2-methylnaphthalene	ND	ND	12,200	3,910	51,900	5,100	448	15,100	14,200
naphthalene	ND	ND	8,070	2,430	57,300	ND	ND	11,500	17,000

Notes:

P1-10 = boring number-depth in feet below grade
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
µg/kg = micrograms per kilogram
ND = not detected above the respective laboratory detection limit
EPA = United States Environmental Protection Agency
* = dilution factor of 50

VOC and SVOC compounds not mentioned in this table and tabulated in the laboratory reports were not detected above the respective laboratory detection limits for the soil samples analyzed.

TABLE III
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (TPHg, TPHd, BTEX, MTBE, VOCs, and SVOCs)

Sample ID (with depth in feet)	TPHg EPA 8015M (mg/l)	TPHd EPA 8015M (mg/l)	Benzene EPA 8020 (µg/l)	Toluene EPA 8020 (µg/l)	Ethyl-Benzene EPA 8020 (µg/l)	Xylenes EPA 8020 (µg/l)	MTBE EPA 8020 (µg/l)	TBA/DIPE/ETBE/ TAME EPA 8020 (µg/l)	VOCs EPA 8260 (µg/l)	SVOCs EPA 8270 (µg/l)
MW-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	8.4***	2.1****	8.8	23	1,110	574	6.3	5,780/35/159/186	*	**
MW-3	6.2***	2.9****	ND	2.8	110	16.7	3.4	1,890/12/76/157	*	**

Notes:

MW-1	=	well number
*	=	volatile organic compounds detected above the laboratory detection limits, see Table IV for a list of compounds
**	=	semi-volatile organic compounds detected above the laboratory detection limits, see Table IV for a list of compounds
***		= laboratory report notation "Sample contains hydrocarbons that do not match the gasoline pattern. However, quantitation is based on a gasoline standard."
****		= laboratory report notation "Sample contains hydrocarbons that are greater than diesel. However, quantitation is based on a diesel standard."
---	=	not analyzed
µg/l	=	micrograms per liter
mg/l	=	milligrams per liter
ND	=	not detected above the respective laboratory detection limit
VOCs	=	volatile organic compounds
SVOCs	=	semi-volatile organic compounds
MTBE	=	methyl tertiary butyl ether
TPHg	=	total petroleum hydrocarbons as gasoline
TPHd	=	total petroleum hydrocarbons as diesel
TBA	=	tert-butanol
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tert-butyl ether
TAME	=	tert amyl methyl ether
EPA	=	United States Environmental Protection Agency

TABLE IV
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (VOCs and SVOCs)

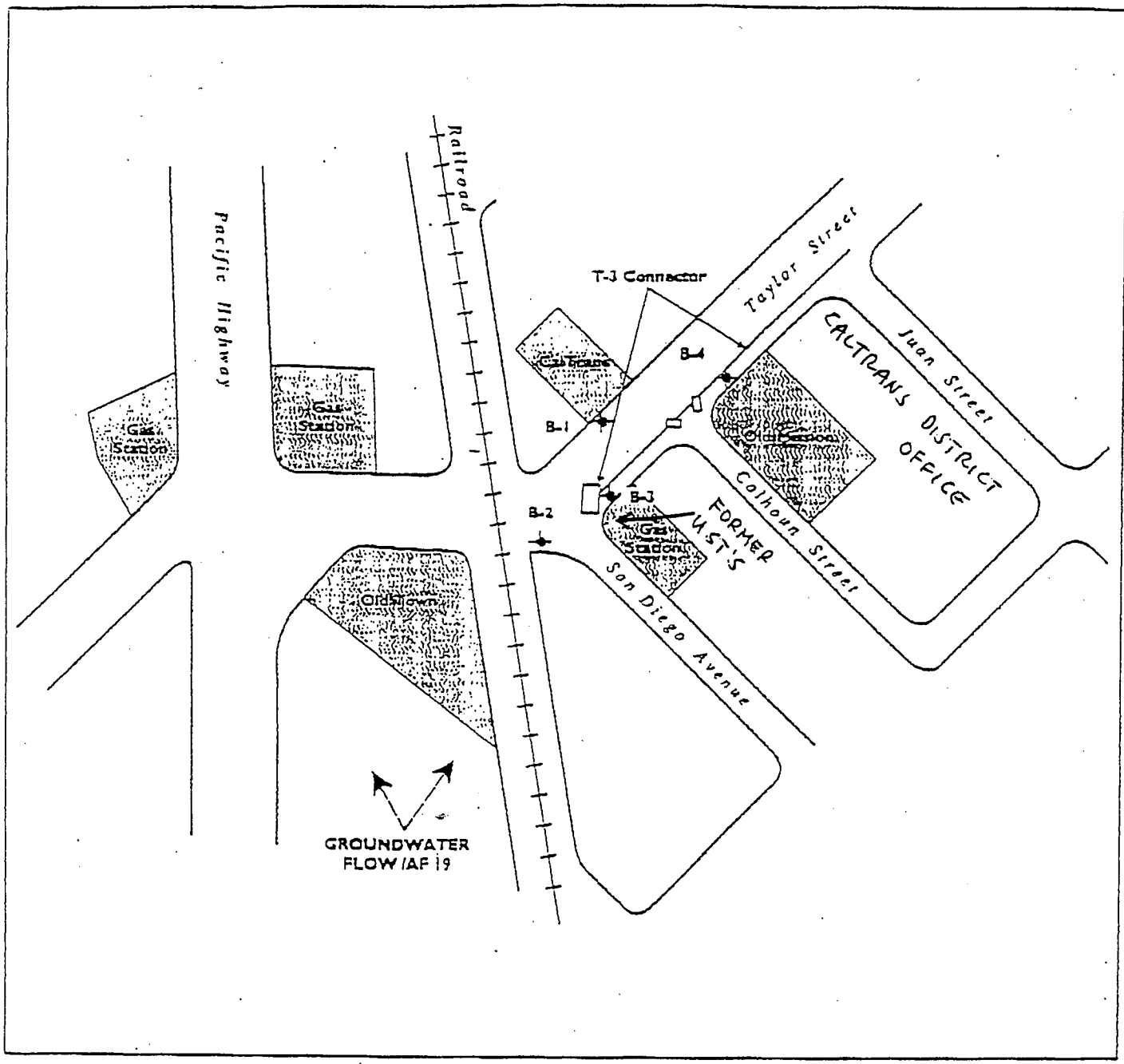
VOCs EPA 8260 (µg/l)	MW-1	MW-2	MW-3
ethylbenzene	ND	997	108
m,p-xylenes	ND	485	9.3
o-xylenes	ND	8.8	ND
Isopropylbenzene	ND	77	142
n-propylbenzene	ND	173	314
toluene	ND	21	ND
1,3,5-trimethylbenzene	ND	97	ND
1,2,4-trimethylbenzene	ND	81	ND
Sec-butylbenzene	ND	9.4	22
4-isopropyltoluene	ND	5.7	7.3
n-butlybenzene	ND	19	38
naphthalene	ND	341	548*
SVOCs EPA 8270 (µg/l)	**MW-1**	**MW-2**	**MW-3**
2-methylnaphthalene	ND	76	79
naphthalene	ND	245	212

Notes:

MW-1	=	well number
VOCs	=	volatile organic compounds
SVOCs	=	semi-volatile organic compounds
µg/l	=	micrograms per liter
ND	=	not detected above the respective laboratory detection limit
EPA	=	United States Environmental Protection Agency
*	=	dilution factor of 10

VOC and SVOC compounds not listed in this table and tabulated in the laboratory reports were not detected above the respective laboratory detection limits.

APPENDIX A



EXPLANATION

B-1 Location and Designation of Soil Boring.

North
No Scale

Disclaimer: This figure is an interpretation based on available data. Actual conditions may differ. All locations and dimensions are approximate.

ENVIRONMENTAL BUSINESS SOLUTIONS, Inc.

"Providing Economic Environmental Solutions to the Business Community"

SITE MAP
City of San Diego - T-3 Connector
San Diego, California

Project No.
96E1479.7

Figure 1

PRELIMINARY DATA PRELIMINARY DATA PRELIMINARY DATA

EBS PROJECT #
OLD TOWN
OLD TOWN
SAN DIEGO, CA

TEG Project #980527-8

TPH (DOHS EPA Method 8015 Modified) & BTEX (EPA Method 8020 Modified) ANALYSES OF WATERS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (ug/l)	TPH-DIESEL C12-C24 (ug/l)	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYLBENZ (ug/l)	XYLENES (ug/l)	SURROGATE (%REC)
METHOD BLANK	5/28/98	ND	ND	ND	ND	ND	ND	98.00%
B-2	5/28/98	ND	ND	6.5	2.1	ND	ND	100.0%
B-3	5/28/98	2,576	ND	31.0	6.2	47.0	75.0	98.0%
B-4	5/28/98	ND	ND	ND	ND	ND	ND	67.0%
DETECTION LIMITS		500	500	0.5	0.5	0.5	0.5	53%-145%

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)

ANALYSES PERFORMED BY: MS. KATALIN LOVAS

DATA REVIEWED BY:

Post-it® Fax Note 7671	Date 5/28	# of pages ▸ 1
To Barry Pulver	From [illegible]	
Co./Dept. EBS	Co. TEG	
Phone #	Phone # 793-0401	
Fax # 571-5357	Fax # 793-0404	

APPENDIX B

PROJECT NO. 08900-06-10A

BORING/WELL NO. MW 1

DATE DRILLED 4/7/00 WATER LEVEL (ATD) 12.0'

EQUIPMENT CME-75 DRILLER WHZMT

DEPTH IN FEET	PENETRAT. RESIST. BLWS/FT.	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	WELL CONSTRUCTION	HEADSPACE (PPM)
1, 2, 3, 4	19	MW1-1 7:53		Moderately dense, humid, dark yellowish-brown (10yr 3/6) fine to medium SAND, trace clay (SP)		
5, 6, 7, 8, 9	20	MW1-5 7:58		Moderately dense, humid, light olive (2.5yr 5/6), fine to medium SAND, trace silt (SP)		
10, 11, 12, 13, 14	9	MW1-10 8:02		**BAY POINT FORMATION** Loose, moist, very dark gray (2.5yr 3/1), Silty micaceous fine to medium SAND with clay (SM) ▼ -Becomes wet, black with Clayey SILT at 12 feet (2.5 yr 2.5/1)		
15, 16, 17	8	MW1-15 8:10		-Becomes loose and saturated at 15 feet		
18, 19	9	MW1-18 8:16				
20, 21, 22, 23, 24				BORING TERMINATED AT APPROX. 19 FEET		

Figure A-1, log of Boring MW 1

CFMP

CASING ELEVATION:		QUANTITY OF FILTER MATERIAL:	**4.5-100lb bags**
DIAMETER & TYPE OF CASING:	**4-inch, PVC**	WELL SEAL & INTERVAL:	**Bentonite Chips, 2-6 feet**
CASING INTERVAL:	**0-8 feet**	WELL SEAL QUANTITY:	**2-60lb bags**
WELL SCREEN:	**0.020-inch Slotted**	ANNULUS SEAL/INTERVAL:	**Concrete, 0-2 feet**
SCREEN INTERVAL:	**8-18 feet**	ADDITIVES:	**Tap Water**
WELL COVER:	**Flushmout**	WELL DEPTH:	**18 feet**
FILTERPACK/INTERVAL:	**#3 Silica Sand/6-18 ft**	ENGINEER/GEOLOGIST:	**RLM**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. 08900-06-10A

BORING/WELL NO. MW 2

DATE DRILLED 4/7/00 WATER LEVEL (ATD) 12.0'

EQUIPMENT CME-75 DRILLER WHZMT

DEPTH IN FEET	PENETRAT. RESIST. BLWS/FT.	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	WELL CONSTRUCTION	HEADSPACE (PPM)
1	25	MW2-1 8:25		Moderately dense, humid, dark yellowish-brown (10yr 3/6), fine to medium SAND, trace clay (SP)		
2						
3						
4						
5	16	MW2-5 8:29		Moderately dense, humid, light olive (2.5yr 5/6), fine to medium SAND, trace silt (SP)		
6						
7						
8						
9						
10	10	MW2-10 8:35		**BAY POINT FORMATION** Loose, moist, very dark gray (2.5yr 2.5/1), fine to medium, micaceous Silty SAND with clay (SM)		
11						
12				Becomes wet, black (2.5 yr 2.5/1) with Clayey SILT at 12 feet		
13						
14						
15	20	MW2-15 8:38		-Becomes moderately dense at 15 feet		
16						
17						
18	18	MW2-18 8:41				
19				BORING TERMINATED AT APPROX. 19 FEET		
20						
21						
22						
23						
24						

Figure A-2, log of Boring MW 2

CFMP

CASING ELEVATION:		QUANTITY OF FILTER MATERIAL:	**4.5-100lb bags**
DIAMETER & TYPE OF CASING:	**4-inch, PVC**	WELL SEAL & INTERVAL:	**Bentonite Chips, 2-6 feet**
CASING INTERVAL:	**0-8 feet**	WELL SEAL QUANTITY:	**2-60lb bags**
WELL SCREEN:	**0.020-inch Slotted**	ANNULUS SEAL/INTERVAL:	**Concrete, 0-2 feet**
SCREEN INTERVAL:	**8-18 feet**	ADDITIVES:	**Tap Water**
WELL COVER:	**Flushmout**	WELL DEPTH:	**18 feet**
FILTERPACK/INTERVAL:	**#3 Silica Sand/6-18 ft**	ENGINEER/GEOLOGIST:	**RLM**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. 08900-06-10A

BORING/WELL NO. MW 3

DATE DRILLED 4/7/00 WATER LEVEL (ATD) 12.0'

EQUIPMENT CME-75 DRILLER WHZMT

DEPTH IN FEET	PENETRAT. RESIST. BLWS/FT.	SAMPLE NO.	LITHOLOGY	SOIL DESCRIPTION	WELL CONSTRUCTION	HEADSPACE (PPM)
1	21	MW3-1 1:30		Moderately dense, humid, dark yellowish-brown (10yr 3/6), fine to medium SAND, trace clay (SP)		
2						
3						
4						
5	19	MW3-5 1:35				
6						
7						
8				**BAY POINT FORMATION** Moderately dense, damp, very dark gray (2.5yr 2.5/1), fine to medium, Silty SAND with clay (SM)		
9						
10	15	MW3-10 1:40				
11						
12				-Wet at 12 feet -Becomes saturated at 12.5 feet		
13						
14						
15	20	MW3-15 1:45				
16						
17						
18	6	MW3-18 1:51		-Becomes loose at 18 feet		
19				BORING TERMINATED AT APPROX. 19 FEET		
20						
21						
22						
23						
24						

Figure A-3, log of Boring MW 3

CFMP

CASING ELEVATION:		QUANTITY OF FILTER MATERIAL:	**4.5-100lb bags**
DIAMETER & TYPE OF CASING:	**4-inch, PVC**	WELL SEAL & INTERVAL:	**Bentonite Chips, 2-6 feet**
CASING INTERVAL:	**0-8 feet**	WELL SEAL QUANTITY:	**2.5-60lb bags**
WELL SCREEN:	**0.020-inch Slotted**	ANNULUS SEAL/INTERVAL:	**Concrete, 0-2 feet**
SCREEN INTERVAL:	**8-18 feet**	ADDITIVES:	**Tap Water**
WELL COVER:	**Flushmout**	WELL DEPTH:	**18 feet**
FILTERPACK/INTERVAL:	**#3 Silica Sand/6-18 ft**	ENGINEER/GEOLOGIST:	**RLM**

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

APPENDIX C

GROUNDWATER SAMPLING WORKSHEET

Project Name: Former Caltrans Motor Pool
Project Number: 08900-06-10A
Date: 04-11-2000 (* water depths taken on 05/08/00 after surveying performed)

	MW-1	MW-2	MW-3
Casing Diameter (ft)	0.34	0.34	0.34
Borehole Diameter (ft)	0.83	0.83	0.83
Well Depth (ft)	18	18	18
Casing Elevation (ft above mean sea level)	11.470	10.727	11.426
Initial Water Depth (ft)	10.96/10.95*	11.04/10.29*	11.35/11.00*
Saturated Borehole Volume (gal)	10.38	10.26	11.35

Start Purging Time	10:15	13:35	11:25
End Purging Time	10:35	14:10	11:40
Total Volume Purged (gal)	25	18	19
Water Depth after Purging (ft)	11.28	10.84	14.18
Water Depth at 80% Recharge (ft)	11.02	10.38	11.08
Water Depth at Sampling (ft)	11.02	10.36	11.08
Sampling Time	11:15	14:25	11:55
pH at Sampling	7.92	7.83	7.91
Conductivity at Sampling (mmhos)	5.43	5.72	5.42
Turbidity Units (NTU) at Sampling	NA	NA	NA
Temperature at Sampling ©	24.3	23.3	24.7

Well Purging Method: Purge pump. Wells MW-1, MW-2, and MW-3 were purged until water was clear.

Decontamination Procedures: Washed pump and tubing in a trisodium phosphate solution Followed by successive rinses in tap and deionized water between each well purging event. Groundwater samples were collected utilizing disposable polyethylene bailers.

Field QA/QC Methods: Completed chain-of-custody documentation for water samples. Relinquished to the laboratory and cleaned the sampling equipment prior to introduction into the Monitoring wells following the decontamination procedures described above.

Sample Preservation: Placed the sample containers in a cooler with ice.

APPENDIX D

HP Labs

GEOCON PROJECT #098900-06-10A
NEW STATE PARKS BUILDING
TAYLOR STREET
OLD TOWN, CA

HP Labs Project #2K0406T3
TPH (DOHS EPA Method 8015 Modified) & BTEX, MTBE (EPA Method 8020 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZ (mg/kg)	XYLENES (mg/kg)	SURROGATE (%REC)
METHOD BLANK	4/6/2000	ND	ND	ND	ND	ND	ND	ND	100%
METHOD BLANK	4/6/2000	ND	ND	ND	ND	ND	ND	ND	98%
P1-10'	4/6/2000	ND	90 *	ND	ND	ND	ND	ND	104%
P1-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	95%
P2-S	4/6/2000	ND	ND	ND	ND	ND	ND	ND	87%
P2-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	88%
P2-10'	4/6/2000	ND	970 *	ND	ND	0.070	1.3	2.3	104%
P2-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	95%
P3-1'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	104%
P3-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	90%
P3-10'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	94%
P3-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	96%
P5-S	4/6/2000	ND	ND	ND	ND	ND	ND	ND	102%
P5-5'	4/6/2000	310	ND	ND	0.22	0.60	4.5	22	114%
P5-10'	4/6/2000	7,400	ND	ND ****	ND ****	27 ****	160 ****	170 ****	*****
P5-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	100%
P4-10'	4/6/2000	3,600	ND	ND ***	ND ***	7.8 ***	30 ***	31 ***	*****
P4-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	93%
P6-S	4/6/2000	ND	ND	ND	ND	ND	ND	ND	98%
P6-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	92%
P6-10'	4/6/2000	1,600	ND	ND **	0.45 **	5.1 **	23 **	12 **	*****
P6-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	87%
P7-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	84%
P7-10'	4/6/2000	840	ND	ND	ND	0.50	5.1	5.0	101%
P7-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	100%
P8-10'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	98%
P8-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	85%
P9-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	86%
P9-10'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	98%
P9-15	4/6/2000	ND	ND	ND	ND	ND	ND	ND	98%
P10-S	4/6/2000	ND	ND	ND	ND	ND	ND	ND	99%
P10-5'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	88%
P10-10'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	95%
P10-15'	4/6/2000	ND	ND	ND	ND	ND	ND	ND	89%
DETECTION LIMITS		10	10	0.050	0.050	0.050	0.050	0.050	65%-135%

* HYDROCARBON COMPOUNDS DETECTED IN DIESEL-RANGE SIGNATURE OF KEROSENE, QUANTIFIED VERSUS DIESEL
** DETECTION LIMIT INCREASED 5 TIMES DUE TO SAMPLE DILUTION
*** DETECTION LIMIT INCREASED 10 TIMES DUE TO SAMPLE DILUTION
**** DETECTION LIMIT INCREASED 100 TIMES DUE TO SAMPLE DILUTION
***** SURROGATE RECOVERY NOT AVAILABLE DUE TO SAMPLE DILUTION
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Blayne Hartman 4-14-2000

HP Labs

GEOCON PROJECT #098900-06-10A
NEW STATE PARKS BUILDING
TAYLOR STREET
OLD TOWN, CA

HP Labs Project #2K0406T3

TPH (DOHS EPA Method 8015 Modified) & BTEX, MTBE (EPA Method 8020 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZ (mg/kg)	XYLENES (mg/kg)	SURROGATE (%REC)
METHOD BLANK	4/7/2000	ND	ND	ND	ND	ND	ND	ND	100%
P1-1'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	90%
P1-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	93%
P4-S	4/7/2000	ND	ND	ND	ND	ND	ND	ND	104%
P4-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	100%
P7-1'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	94%
P8-S	4/7/2000	ND	ND	ND	ND	ND	ND	ND	96%
P8-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	88%
DETECTION LIMITS		10	10	0.050	0.050	0.050	0.050	0.050	65%-135%

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY:

Wayne Hartman
4-14-2000

HP Labs

QA/QC REPORT - CALIBRATION DATA

HP Labs Project #2K0406T3
DAILY CALIBRATION DATE : 04/06/00

COMPOUND	CALIBRATION RANGE SOIL (ppm)	CALIBRATION RANGE WATER (ppb)	INITIAL CALIB DATE	INITIAL RF	%RSD	OPENING AREA	OPENING RF	OPENING %DIFF	CLOSING / LCS AREA	CLOSING / LCS RF	CLOSING / LCS %DIFF
TPH GASOLINE - FID1	20-20000	660-660000	2/21/00	0.833	11.6%	248	0.806	3.2%	241	0.830	0.4%
TPH GASOLINE - FID3	20-20000	660-660000	2/21/00	0.982	11.0%	208	0.962	2.1%	227	0.881	10.3%
TPH DIESEL - FID1	50 - 50000	1650 - 1650000	2/21/00	1.703	3.4%	318	1.572	7.7%	305	1.639	3.8%
TPH DIESEL - FID3	50 - 50000	1650 - 1650000	2/21/00	2.649	7.5%	214	2.336	11.8%	214	2.336	11.8%
MTBE	0.1 - 25	NA	1/4/2000	54.26	4.4%	263	52.600	3.1%	259	51.800	4.5%
BENZENE	0.05-10	NA	1/4/2000	61.36	3.2%	205	68.333	11.4%	181	60.333	1.7%
TOLUENE	0.05-10	NA	1/4/2000	51.27	8.0%	161	53.667	4.7%	143	47.667	7.0%
ETHYLBENZENE	0.05-10	NA	1/4/2000	44.33	9.9%	153	51.000	15.0%	139	46.333	4.5%
m&p-XYLENES	0.05-10	NA	1/4/2000	54.03	12.9%	372	62.000	14.8%	332	55.333	2.4%
o-XYLENES	0.05-10	NA	1/4/2000	47.68	5.6%	148	49.333	3.5%	136	45.333	4.9%

INITIAL RF - AVERAGE RESPONSE FACTOR FROM MULTIPOINT CALIBRATION CURVE
% RSD - LINEARITY OF MULTIPOINT CALIBRATION CURVE (+/- 20% ACCEPTABLE LIMITS)
AREA - AREA COUNTS FROM DAILY CALIBRATION STANDARD
RF - DETECTOR RESPONSE FACTOR FROM MID-POINT CALIBRATION STANDARD
% DIFF - DIFFERENCE, IN PERCENT, BETWEEN THE AVERAGE RF AND THE OPENING OR CLOSING RF
OPENING - MID-POINT CALIBRATION STANDARD ANALYZED BEFORE SAMPLE ANALYSES BEGIN
CLOSING - MID-POINT CALIBRATION STANDARD ANALYZED AFTER SAMPLES ANALYSES ARE COMPLETE

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Wayne Chartman
4-14-2000

HP Labs

QA/QC REPORT - CALIBRATION DATA

HP Labs Project #2K0406T3
DAILY CALIBRATION DATE : 04/07/00

COMPOUND	CALIBRATION RANGE SOIL (ppm)	CALIBRATION RANGE WATER (ppb)	INITIAL CALIB DATE	INITIAL RF	INITIAL %RSD	OPENING AREA	OPENING RF	OPENING %DIFF	CLOSING / LCS AREA	CLOSING / LCS RF	CLOSING / LCS %DIFF
TPH GASOLINE - FID1	20-20000	660-660000	2/21/00	0.833	11.6%	254	0.787	5.5%	242	0.826	0.8%
TPH GASOLINE - FID3	20-20000	660-660000	2/21/00	0.982	11.0%	198	1.010	2.9%	208	0.962	2.1%
TPH DIESEL - FID1	50 - 50000	1650 - 1650000	2/21/00	1.703	3.4%	290	1.724	1.2%	326	1.534	10.0%
TPH DIESEL - FID3	50 - 50000	1650 - 1650000	2/21/00	2.649	7.5%	204	2.451	7.5%	204	2.451	7.5%
MTBE	0.1 - 25	NA	1/4/2000	54.26	4.4%	265	53.000	2.3%	257	51.400	5.3%
BENZENE	0.05-10	NA	1/4/2000	61.36	3.2%	190	63.333	3.2%	188	62.667	2.1%
TOLUENE	0.05-10	NA	1/4/2000	51.27	8.0%	145	48.333	5.7%	149	49.667	3.1%
ETHYLBENZENE	0.05-10	NA	1/4/2000	44.33	9.9%	138	46.000	3.8%	144	48.000	8.3%
m&p-XYLENES	0.05-10	NA	1/4/2000	54.03	12.9%	336	56.000	3.6%	347	57.833	7.0%
o-XYLENES	0.05-10	NA	1/4/2000	47.68	5.6%	134	44.667	6.3%	140	46.667	2.1%

INITIAL RF - AVERAGE RESPONSE FACTOR FROM MULTIPOINT CALIBRATION CURVE
% RSD - LINEARITY OF MULTIPOINT CALIBRATION CURVE (+/- 20% ACCEPTABLE LIMITS)
AREA - AREA COUNTS FROM DAILY CALIBRATION STANDARD
RF - DETECTOR RESPONSE FACTOR FROM MID-POINT CALIBRATION STANDARD
% DIFF - DIFFERENCE, IN PERCENT, BETWEEN THE AVERAGE RF AND THE OPENING OR CLOSING RF
OPENING - MID-POINT CALIBRATION STANDARD ANALYZED BEFORE SAMPLE ANALYSES BEGIN
CLOSING - MID-POINT CALIBRATION STANDARD ANALYZED AFTER SAMPLES ANALYSES ARE COMPLETE

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Dwayne Hartman 4-14-2000

HP Labs

QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 04/06/00
HP Labs Project #2K0406T3

COMPOUND	SPK CONC (mg/kg)	MS CONC (mg/kg)	%REC MS	MSD CONC (mg/kg)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE RECOVERY
MTBE	5.0	4.7	94.0%	4.6	92.0%	2.2%	15%	75% - 110%
TPH GASOLINE	200	214	107.0%	202	101.0%	5.8%	15%	82% - 122%
TPH DIESEL	500	549	109.8%	560	112.0%	2.0%	15%	72% - 112%
BENZENE	1.000	0.960	96.0%	0.940	94.0%	2.1%	15%	77% - 109%
TOLUENE	1.000	0.880	88.0%	0.880	88.0%	0.0%	15%	75% - 112%
ETHYLBENZENE	1.000	0.990	99.0%	0.980	98.0%	1.0%	15%	74% - 110%
TOTAL XYLENES	3.000	2.840	94.7%	2.780	92.7%	2.1%	15%	81% - 109%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Wayne Hoffman
4-14-2000

HP Labs

QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 04/06/00
HP Labs Project #2K0406T3

COMPOUND	SPK CONC (mg/kg)	MS CONC (mg/kg)	%REC MS	MSD CONC (mg/kg)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE RECOVERY
MTBE	5.0	4.8	96.0%	4.6	92.0%	4.3%	15%	75% - 110%
TPH GASOLINE	200	200	100.0%	198	99.0%	1.0%	15%	82% - 122%
TPH DIESEL	500	553	110.6%	547	109.4%	1.1%	15%	72% - 112%
BENZENE	1.000	0.930	93.0%	0.960	96.0%	3.2%	15%	77% - 109%
TOLUENE	1.000	0.880	88.0%	0.920	92.0%	4.4%	15%	75% - 112%
ETHYLBENZENE	1.000	0.980	98.0%	1.020	102.0%	4.0%	15%	74% - 110%
TOTAL XYLENES	3.000	2.830	94.3%	2.880	96.0%	1.8%	15%	81% - 109%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Blayne Hartman
4-14-2000

HP Labs

QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 04/07/00

HP Labs Project #2K0406T3

COMPOUND	SPK CONC (mg/kg)	MS CONC (mg/kg)	%REC MS	MSD CONC (mg/kg)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE RECOVERY
MTBE	5.0	4.9	98.0%	4.9	98.0%	0.0%	15%	75% - 110%
TPH GASOLINE	200	212	106.0%	205	102.5%	3.4%	15%	82% - 122%
TPH DIESEL	500	550	110.0%	560	112.0%	1.8%	15%	72% - 112%
BENZENE	1.000	0.990	99.0%	0.990	99.0%	0.0%	15%	77% - 109%
TOLUENE	1.000	0.960	96.0%	0.920	92.0%	4.3%	15%	75% - 112%
ETHYLBENZENE	1.000	1.030	103.0%	1.040	104.0%	1.0%	15%	74% - 110%
TOTAL XYLENES	3.000	2.960	98.7%	2.980	99.3%	0.7%	15%	81% - 109%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Blaque Hartman
4-14-2000

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(858) 793-0401 Fax: (858) 793-0404

Chain of Custody Record

TEG Project #: 2K0406T3

Outside Lab:

Client: GEOCON

Address: 6970 FLANDERS DRIVE

Phone: 858-558-6100, Fax:

Date: 4-6-2000 Page 1 Of 3

Client Project #: Project Manager:

Location:

Collector: Cory / Jeff Date of Collection: 4/6/000

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8082	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals					Field Notes	Total # of containers
P1-1	1'	9:03	4/6	Soil	tube				X	X	X														1
P1-5	5'	9:05																							1
P1-10	10'	9:14																							1
P1-15	15'	9:20																							1
P3-1	1'	9:38																							1
P3-5	5'	9:42																							1
P3-10	10'	9:45																							1
P3-15	15'	9:55																							1
P2-5	–	10:15			4oz j																				1
P2-5	5'	10:30			tube																				1
P2-10	10'	10:34																							1
P2-15	15'	10:40																							1
P5-5 RCH	–	10:51			4oz j																				1
P5-~~4.5~~ 5.0	4.5'	11:37			tube																				1
P5-10.~~5~~ RCH	10.5'	11:48																							1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	4/6 4:25	[signature]	4/6 17:00
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 15

Chain of Custody seals Y/N/NA

Seals intact? Y/N/NA

Received good condition/cold

Notes:

Turn around time: on-site

Sample disposal instructions: X TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(858) 793-0401 Fax: (858) 793-0404

Chain of Custody Record

TEG Project #: 2K04 0673

Outside Lab:

Client: Geocon

Address:

Phone: Fax:

Date: 4/6/2000 Page 2 Of 3

Client Project #: Project Manager:

Location:

Collector: Cory / Jeff Date of Collection: 4/6/2000

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8082	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals					Field Notes	Total # of containers
P5-15	15'	12:00	4/6	Soil	A. tube				X	X	X														1
P4-5	—	12:08			4oz																				1
P4-5'	5'	12:15			A tube																				1
P4-10	10'	12:22																							1
P4-15	15'	12:25																							1
P6-5	—	12:55			4oz																				1
P6-5	5'	12:50			A. tube																				1
P6-10	10'	12:56																							1
P6-15	15'	13:02																							1
P7-1'	1'	13:21																							1
P7-5	5'	13:25																							1
P7-10	10'	13:32																							1
P7-15	15'	13:38																							1
P8-5	—	14:10			4oz																				1
P8-5	5'	14:21			A. tube																				1

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

4/6 4:25

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

4/6/7:00

Total # of containers: 15

Chain of Custody seals Y/N/NA

Seals intact? Y/N/NA

Received good condition/cold

Turn around time: on-site

Notes:

Sample disposal instructions: X TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(858) 793-0401 Fax: (858) 793-0404

Chain of Custody Record

TEG Project #: 2K0406T3

Outside Lab:

Client: Geocon

Address:

Phone: Fax:

Date: 4/6/2000 Page 3 Of 3

Client Project #: Project Manager:

Location:

Collector: Cory / Jeff Date of Collection: 4/6/2000

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8082	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals					Field Notes	Total # of containers
P8-10'	10'	14:28	4/6	Soil	A. tube				X	X	X														1
P8-15	15'	14:34																							1
P9-5	5'	14:46																							1
P9-10	10'	14:51																							1
P9-15	15'	15:00																							1
P10-5	—	15:18			4oz																				1
P10-5	5'	15:28			A. tube																				1
P10-10	10'	15:34																							1
P10-15	15'	15:40																							1

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

4/6/4:25 4/6/00 17:00

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Total # of containers: 9

Chain of Custody seals Y/N/NA

Seals intact? Y/N/NA

Received good condition/cold

Turn around time: on site

Notes:

Sample disposal instructions: ✓ TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

HP Labs

GEOCON PROJECT #098900-06-10A
FORMER CALTRANS MOTORPOOL
TAYLOR STREET
OLD TOWN, CA

HP Labs Project #2K0406T3A

TPH (DOHS EPA Method 8015 Modified) & BTEX, MTBE (EPA Method 8020 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZ (mg/kg)	XYLENES (mg/kg)	SURROGATE (%REC)
METHOD BLANK	4/7/2000	ND	ND	ND	ND	ND	ND	ND	100%
MW1-1'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	91%
MW1-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	91%
MW1-10'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	92%
MW1-15'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	86%
MW1-18'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	92%
MW2-1'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	74%
MW2-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	83%
MW2-10'	4/7/2000	170	ND	ND	ND	ND	0.55	0.60	70%
MW2-15'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	100%
MW2-18'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	102%
MW3-1'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	101%
MW3-5'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	96%
MW3-10'	4/7/2000	3,300	ND	ND *	1.6 *	20 *	22 *	34 *	**
MW3-15'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	97%
MW3-18'	4/7/2000	ND	ND	ND	ND	ND	ND	ND	93%
DETECTION LIMITS		10	10	0.050	0.050	0.050	0.050	0.050	65%-135%

* DETECTION LIMIT INCREASED 10 TIMES DUE TO SAMPLE DILUTION
** SURROGATE RECOVERY NOT AVAILABLE DUE TO SAMPLE DILUTION
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Wayne Hartman
4-14-2000

HP Labs

QA/QC REPORT - CALIBRATION DATA

HP Labs Project #2K0406T3A
DAILY CALIBRATION DATE : 04/07/00

COMPOUND	CALIBRATION RANGE SOIL (ppm)	CALIBRATION RANGE WATER (ppb)	INITIAL CALIB DATE	INITIAL RF	%RSD	OPENING AREA	OPENING RF	OPENING %DIFF	CLOSING / LCS AREA	CLOSING / LCS RF	CLOSING / LCS %DIFF
TPH GASOLINE - FID1	20-20000	660-660000	2/21/00	0.833	11.6%	254	0.787	5.5%	242	0.826	0.8%
TPH GASOLINE - FID3	20-20000	660-660000	2/21/00	0.982	11.0%	198	1.010	2.9%	208	0.962	2.1%
TPH DIESEL - FID1	50 - 50000	1650 - 1650000	2/21/00	1.703	3.4%	290	1.724	1.2%	326	1.534	10.0%
TPH DIESEL - FID3	50 - 50000	1650 - 1650000	2/21/00	2.649	7.5%	204	2.451	7.5%	204	2.451	7.5%
MTBE	0.1 - 25	NA	1/4/2000	54.26	4.4%	265	53.000	2.3%	257	51.400	5.3%
BENZENE	0.05-10	NA	1/4/2000	61.36	3.2%	190	63.333	3.2%	188	62.667	2.1%
TOLUENE	0.05-10	NA	1/4/2000	51.27	8.0%	145	48.333	5.7%	149	49.667	3.1%
ETHYLBENZENE	0.05-10	NA	1/4/2000	44.33	9.9%	138	46.000	3.8%	144	48.000	8.3%
m&p-XYLENES	0.05-10	NA	1/4/2000	54.03	12.9%	336	56.000	3.6%	346	57.667	6.7%
o-XYLENES	0.05-10	NA	1/4/2000	47.68	5.6%	134	44.667	6.3%	140	46.667	2.1%

INITIAL RF - AVERAGE RESPONSE FACTOR FROM MULTIPOINT CALIBRATION CURVE
% RSD - LINEARITY OF MULTIPOINT CALIBRATION CURVE (+/- 20% ACCEPTABLE LIMITS)
AREA - AREA COUNTS FROM DAILY CALIBRATION STANDARD
RF - DETECTOR RESPONSE FACTOR FROM MID-POINT CALIBRATION STANDARD
% DIFF - DIFFERENCE, IN PERCENT, BETWEEN THE AVERAGE RF AND THE OPENING OR CLOSING RF
OPENING - MID-POINT CALIBRATION STANDARD ANALYZED BEFORE SAMPLE ANALYSES BEGIN
CLOSING - MID-POINT CALIBRATION STANDARD ANALYZED AFTER SAMPLES ANALYSES ARE COMPLETE

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Wayne Harbman
4-14-2000

HP Labs

QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 04/07/00
HP Labs Project #2K0406T3A

COMPOUND	SPK CONC (mg/kg)	MS CONC (mg/kg)	%REC MS	MSD CONC (mg/kg)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE RECOVERY
MTBE	5.0	4.9	98.0%	4.9	98.0%	0.0%	15%	75% - 110%
TPH GASOLINE	200	212	106.0%	205	102.5%	3.4%	15%	82% - 122%
TPH DIESEL	500	550	110.0%	560	112.0%	1.8%	15%	72% - 112%
BENZENE	1.000	0.990	99.0%	0.990	99.0%	0.0%	15%	77% - 109%
TOLUENE	1.000	0.960	96.0%	0.920	92.0%	4.3%	15%	75% - 112%
ETHYLBENZENE	1.000	1.030	103.0%	1.040	104.0%	1.0%	15%	74% - 110%
TOTAL XYLENES	3.000	2.960	98.7%	2.980	99.3%	0.7%	15%	81% - 109%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED ON-SITE IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1317)
ANALYSES PERFORMED BY: MS. KATALIN LOVAS
DATA REVIEWED BY: Wayne Hartman
4-14-2000

Transglobal Environmental Geochemistry
432 N. Cedros Avenue
Solana Beach, CA 92075
(858) 793-0401 Fax: (858) 793-0404

Chain of Custody Record

2nd. day

TEG Project #: 2K0406T3A

Outside Lab:

Client: Geocon

Address:

Phone: Fax:

Date: 4/7/2000 Page 1 Of 1

Client Project #: 08900-06-10A Project Manager:

Location: Taylor St. - Former Caltrans Motorpool

Collector: RLM Date of Collection: 4/7/2000

Sample #	Depth	Time	Date	Sample Type	Container Type	VOA 8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (gas & diesel)	VOA 8020 (BTEX)	VOA 8020 (MTBE)	TRPH 418.1	PEST/PCB's 8082	VOC 8260	Semi Vol 8270	PNA 8310/8270	Organic Lead	Total Lead	Metals						Field Notes	Total # of containers
MW1-1	1'	7:52	4/7	Soil	B/S tube				X	X	X															1
MW1-5	5'	7:58							X	X	X															1
MW1-10	10'	8:02																								1
MW1-15	15'	8:12																								1
MW1-18	18'	8:16																								1
MW2-1	1'	8:23																								1
MW2-10	10'	8:35																								1
MW2-5	5'	8:35																								1
MW2-15	15'	8:38																								1
MW2-18	18'	8:41																								1
MW3-1	1	130																								1
-5	5	135																								1
-10	10	140																								1
-15	15	146																								1
-18	18	151																								1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	4/7 1554	[signature]	4/7/2000 16:05
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 15

Chain of Custody seals Y/N/NA

Seals intact? Y/N/NA

Received good condition/cold

Notes:

Turn around time: OK - [illegible]

Sample disposal instructions: X TEG Disposal @ $2.00 each ___ Return to client ___ Pickup

APR 28 2000

April 20, 2000

ELAP No.: 1838

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A
Lab No.: 43194-001/009

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Cheryl De Los Reyes
Technical Operations Manager
CDR/jh

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Advanced Technology Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B											
Lab No.:		Method Blank		43194-001		43194-002		43194-005		43194-006	
Client Sample I.D.:		--		P1@10'		P2@10'		P4@10'		P6@10'	
Date Sampled:		--		04/06/00		04/06/00		04/06/00		04/06/00	
QC Batch #:		P00VOCS111		P00VOCS111		P00VOCS111		P00VOCS111		P00VOCS111	
Date Analyzed:		04/17/2000		04/17/2000		04/17/2000		04/17/2000		04/17/2000	
Analyst Initials:		JPC		JPC		JPC		JPC		JPC	
Dilution Factor:		1		1		5		5		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
benzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
bromobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
bromodichloromethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
bromoform	5	5	ND	5	ND	25	ND	25	ND	5	ND
bromomethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
n-butylbenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
sec-butylbenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
tert-butylbenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
carbon tetrachloride	5	5	ND	5	ND	25	ND	25	ND	5	ND
chlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
chloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
chloroform	5	5	ND	5	ND	25	ND	25	ND	5	ND
chloromethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
2-chlorotoluene	5	5	ND	5	ND	25	ND	25	ND	5	ND
4-chlorotoluene	5	5	ND	5	ND	25	ND	25	ND	5	ND
dibromochloromethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2-dibromo-3-chloropropane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2-dibromoethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
dibromomethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2-dichlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,3-dichlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,4-dichlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
dichlorodifluoromethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1-dichloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2-dichloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1-dichloroethene	5	5	ND	5	ND	25	ND	25	ND	5	ND
cis-1,2-dichloroethene	5	5	ND	5	ND	25	ND	25	ND	5	ND
trans-1,2-dichloroethene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2-dichloropropane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,3-dichloropropane	5	5	ND	5	ND	25	ND	25	ND	5	ND
2,2-dichloropropane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1-dichloropropene	5	5	ND	5	ND	25	ND	25	ND	5	ND
ethylbenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
hexachlorobutadiene	5	5	ND	5	ND	25	ND	25	ND	5	ND

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B

Lab No.:		Method Blank		43194-001		43194-002		43194-005		43194-006	
Client Sample I.D.:		--		P1@10'		P2@10'		P4@10'		P6@10'	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
isopropylbenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
4-isopropyltoluene	5	5	ND	5	ND	25	ND	25	ND	5	ND
methylene chloride	5	5	ND	5	ND	25	ND	25	ND	5	ND
naphthalene	5	5	ND	5	ND	25	ND	25	46	5	ND
n-propylbenzene	5	5	ND	5	ND	25	ND	25	27	5	ND
styrene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1,1,2-tetrachloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1,2,2-tetrachloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
tetrachloroethene	5	5	ND	5	ND	25	ND	25	ND	5	ND
toluene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2,3-trichlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2,4-trichlorobenzene	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1,1-trichloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,1,2-trichloroethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
trichloroethene	5	5	ND	5	ND	25	ND	25	ND	5	ND
trichlorofluoromethane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2,3-trichloropropane	5	5	ND	5	ND	25	ND	25	ND	5	ND
1,2,4-trimethylbenzene	5	5	ND	5	ND	25	ND	25	203	5	ND
1,3,5-trimethylbenzene	5	5	ND	5	ND	25	ND	25	78	5	ND
vinyl chloride	5	5	ND	5	ND	25	ND	25	ND	5	ND
o-xylene	5	5	ND	5	ND	25	ND	25	ND	5	ND
m,p-xylene	5	5	ND	5	ND	25	ND	25	ND	5	ND

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:	043194-007A-SAMP		043194-007A-MS		043194-007A-MSD					
QC Batch Number:	P00VOCS111		P00VOCS111		P00VOCS111					
ANALYTE	DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
1,1-dichloroethene	5	ND	115	115	129	129	<1	58-156	20	100
benzene	5	ND	100	100	113	113	12 *	72-134	12	100
trichloroethene	5	ND	105	105	118	118	12	55-145	16	100
toluene	5	ND	105	105	116	116	10	73-127	16	100
chlorobenzene	5	ND	104	104	115	115	10	80-119	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
* = Out of Limits. Batch validated by LCS. LCS compounds within control limits.

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B

Lab No.:		Method Blank		43194-003		43194-003Dup		43194-004		LCS	
Client Sample I.D.:		--		P5@5'		P5@5'		P5@10'		--	
Date Sampled:		--		04/06/00		04/06/00		04/06/00		--	
QC Batch #:		P00VOCS115		P00VOCS115		P00VOCS115		P00VOCS115		P00VOCS115	
Date Analyzed:		04/20/2000		04/20/2000		04/20/2000		04/20/2000		04/20/2000	
Analyst Initials:		JPC		JPC		JPC		JPC		JPC	
Dilution Factor:		1		5		5		5000		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	Limits	% Recovery
benzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	104
bromobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	111
bromodichloromethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	94
bromoform	5	5	ND	25	ND	25	ND	25000	ND	21-175	107
bromomethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	119
n-butylbenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	111
sec-butylbenzene	5	5	ND	25	94	25	102	25000	ND	21-175	115
tert-butylbenzene	5	5	ND	25	499	25	523	25000	68300	21-175	118
carbon tetrachloride	5	5	ND	25	ND	25	ND	25000	ND	21-175	113
chlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	115
chloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	102
chloroform	5	5	ND	25	ND	25	ND	25000	ND	21-175	92
chloromethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	79
2-chlorotoluene	5	5	ND	25	ND	25	ND	25000	ND	21-175	109
4-chlorotoluene	5	5	ND	25	ND	25	ND	25000	ND	21-175	108
dibromochloromethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	109
1,2-dibromo-3-chloropropane	5	5	ND	25	ND	25	ND	25000	ND	21-175	86
1,2-dibromoethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	106
dibromomethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	107
1,2-dichlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	109
1,3-dichlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	110
1,4-dichlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	111
dichlorodifluoromethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	60
1,1-dichloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	89
1,2-dichloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	88
1,1-dichloroethene	5	5	ND	25	ND	25	ND	25000	ND	21-175	120
cis-1,2-dichloroethene	5	5	ND	25	ND	25	ND	25000	ND	21-175	110
trans-1,2-dichloroethene	5	5	ND	25	ND	25	ND	25000	ND	21-175	98
1,2-dichloropropane	5	5	ND	25	ND	25	ND	25000	ND	21-175	100
1,3-dichloropropane	5	5	ND	25	ND	25	ND	25000	ND	21-175	101
2,2-dichloropropane	5	5	ND	25	ND	25	ND	25000	ND	21-175	92
1,1-dichloropropene	5	5	ND	25	ND	25	ND	25000	ND	21-175	117
ethylbenzene	5	5	ND	25	423	25	408	25000	163850	21-175	109
hexachlorobutadiene	5	5	ND	25	ND	25	ND	25000	ND	21-175	103

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B

Lab No.:		Method Blank		43194-003		43194-003Dup		43194-004		LCS	
Client Sample I.D.:		--		P5@5'		P5@5'		P5@10'		--	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	Limits	% Recovery
isopropylbenzene	5	5	ND	25	129	25	128	25000	29600	21-175	115
4-isopropyltoluene	5	5	ND	25	68	25	75	25000	ND	21-175	119
methylene chloride	15	15	ND	75	ND	75	90	75000	ND	21-175	83
naphthalene	5	5	ND	25	1200	25	1415	25000	174000	21-175	106
n-propylbenzene	5	5	ND	25	480	25	478	25000	99000	21-175	114
styrene	5	5	ND	25	ND	25	ND	25000	ND	21-175	112
1,1,1,2-tetrachloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	112
1,1,2,2-tetrachloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	110
tetrachloroethene	5	5	ND	25	ND	25	ND	25000	ND	21-175	112
toluene	5	5	ND	25	ND	25	ND	25000	ND	21-175	112
1,2,3-trichlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	100
1,2,4-trichlorobenzene	5	5	ND	25	ND	25	ND	25000	ND	21-175	99
1,1,1-trichloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	100
1,1,2-trichloroethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	107
trichloroethene	5	5	ND	25	ND	25	ND	25000	ND	21-175	119
trichlorofluoromethane	5	5	ND	25	ND	25	ND	25000	ND	21-175	112
1,2,3-trichloropropane	5	5	ND	25	ND	25	ND	25000	ND	21-175	100
1,2,4-trimethylbenzene	5	5	ND	25	~ 2930	25	~ 2900	25000	540100	21-175	113
1,3,5-trimethylbenzene	5	5	ND	25	1175	25	1225	25000	180350	21-175	115
vinyl chloride	5	5	ND	25	ND	25	ND	25000	ND	21-175	95
o-xylene	5	5	ND	25	613	25	631	25000	ND	21-175	108
m,p-xylene	5	5	ND	25	1408	25	1389	25000	173850	21-175	109

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:	043194-003A-SAMP		043194-003A-MS		043194-003A-MSD					
QC Batch Number:	P00VOCS115		P00VOCS115		P00VOCS115					
ANALYTE	DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limit	Amount
1,1-dichloroethene	25	ND	133	133	144	144	8	58-156	20	100
benzene	25	ND	118	118	128	128	8	72-134	12	100
trichloroethene	25	ND	129	129	138	138	7	55-145	16	100
toluene	25	ND	124	124	131 *	131	5	73-127	16	100
chlorobenzene	25	ND	122 *	122	128 *	128	5	80-119	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
~ = Dilution factor of 50. Dilution analyzed on 04/20/00.
* = Out of Limits. Batch validated by LCS. LCS compounds within control limits.

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B

Lab No.:		43194-007		43194-007Dup		43194-008		43194-009		LCS	
Client Sample I.D.:		P7@10'		P7@10'		MW2@10'		MW3@10'		--	
Date Sampled:		04/06/00		04/06/00		04/07/00		04/07/00		--	
QC Batch #:		P00VOCS111		P00VOCS111		P00VOCS111		P00VOCS111		P00VOCS111	
Date Analyzed:		04/17/2000		04/17/2000		04/17/2000		04/17/2000		04/17/2000	
Analyst Initials:		JPC		JPC		JPC		JPC		JPC	
Dilution Factor:		1		1		50		500		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	Limits	% Recovery
benzene	5	5	ND	5	ND	250	ND	250	ND	21-175	105
bromobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	108
bromodichloromethane	5	5	ND	5	ND	250	ND	250	ND	21-175	98
bromoform	5	5	ND	5	ND	250	ND	250	ND	21-175	108
bromomethane	5	5	ND	5	ND	250	ND	250	ND	21-175	111
n-butylbenzene	5	5	ND	5	ND	250	6540	250	7290	21-175	111
sec-butylbenzene	5	5	ND	5	ND	250	1470	250	2040	21-175	110
tert-butylbenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	115
carbon tetrachloride	5	5	ND	5	ND	250	ND	250	ND	21-175	110
chlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	113
chloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	98
chloroform	5	5	ND	5	ND	250	ND	250	ND	21-175	91
chloromethane	5	5	ND	5	ND	250	ND	250	ND	21-175	83
2-chlorotoluene	5	5	ND	5	ND	250	ND	250	ND	21-175	108
4-chlorotoluene	5	5	ND	5	ND	250	ND	250	ND	21-175	109
dibromochloromethane	5	5	ND	5	ND	250	ND	250	ND	21-175	109
1,2-dibromo-3-chloropropane	5	5	ND	5	ND	250	ND	250	ND	21-175	91
1,2-dibromoethane	5	5	ND	5	ND	250	ND	250	ND	21-175	100
dibromomethane	5	5	ND	5	ND	250	ND	250	ND	21-175	100
1,2-dichlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	104
1,3-dichlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	107
1,4-dichlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	108
dichlorodifluoromethane	5	5	ND	5	ND	250	ND	250	ND	21-175	66
1,1-dichloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	90
1,2-dichloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	94
1,1-dichloroethene	5	5	ND	5	ND	250	ND	250	ND	21-175	100
cis-1,2-dichloroethene	5	5	ND	5	ND	250	ND	250	ND	21-175	101
trans-1,2-dichloroethene	5	5	ND	5	ND	250	ND	250	ND	21-175	98
1,2-dichloropropane	5	5	ND	5	ND	250	ND	250	ND	21-175	105
1,3-dichloropropane	5	5	ND	5	ND	250	ND	250	ND	21-175	106
2,2-dichloropropane	5	5	ND	5	ND	250	ND	250	ND	21-175	96
1,1-dichloropropene	5	5	ND	5	ND	250	ND	250	ND	21-175	110
ethylbenzene	5	5	ND	5	ND	250	2670	250	1560	21-175	113
hexachlorobutadiene	5	5	ND	5	ND	250	ND	250	ND	21-175	109

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Matrix: SOIL
Units: UG/KG

EPA Method 8260B

Lab No.:		43194-007		43194-007Dup		43194-008		43194-009		LCS	
Client Sample I.D.:		P7@10'		P7@10'		MW2@10'		MW3@10'		--	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	Limits	% Recovery
isopropylbenzene	5	5	ND	5	ND	250	1360	250	1940	21-175	110
4-isopropyltoluene	5	5	ND	5	ND	250	914	250	359	21-175	116
methylene chloride	5	5	ND	5	ND	250	ND	250	ND	21-175	76
naphthalene	5	5	ND	5	ND	250	17500	250	20500	21-175	104
n-propylbenzene	5	5	ND	5	ND	250	5940	250	7310	21-175	113
styrene	5	5	ND	5	ND	250	ND	250	ND	21-175	111
1,1,1,2-tetrachloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	111
1,1,2,2-tetrachloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	102
tetrachloroethene	5	5	ND	5	ND	250	ND	250	ND	21-175	118
toluene	5	5	ND	5	ND	250	ND	250	ND	21-175	109
1,2,3-trichlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	100
1,2,4-trichlorobenzene	5	5	ND	5	ND	250	ND	250	ND	21-175	102
1,1,1-trichloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	99
1,1,2-trichloroethane	5	5	ND	5	ND	250	ND	250	ND	21-175	104
trichloroethene	5	5	ND	5	ND	250	ND	250	ND	21-175	111
trichlorofluoromethane	5	5	ND	5	ND	250	ND	250	ND	21-175	106
1,2,3-trichloropropane	5	5	ND	5	ND	250	ND	250	ND	21-175	103
1,2,4-trimethylbenzene	5	5	ND	5	ND	250	2870	250	ND	21-175	110
1,3,5-trimethylbenzene	5	5	ND	5	ND	250	2520	250	ND	21-175	112
vinyl chloride	5	5	ND	5	ND	250	ND	250	ND	21-175	100
o-xylene	5	5	ND	5	ND	250	ND	250	ND	21-175	113
m,p-xylene	5	5	ND	5	ND	250	936	250	ND	21-175	115

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:		043194-007A-SAMP		043194-007A-MS		043194-007A-MSD					
QC Batch Number:		P00VOCS111		P00VOCS111		P00VOCS111					
ANALYTE		DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
1,1-dichloroethene		5	ND	115	115	129	129	11	58-156	20	100
benzene		5	ND	100	100	113	113	12 *	72-134	12	100
trichloroethene		5	ND	105	105	118	118	12	55-145	16	100
toluene		5	ND	105	105	116	116	10	73-127	16	100
chlorobenzene		5	ND	104	104	115	115	10	80-119	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
* = Out of Limits. Batch validated by LCS. LCS compounds within control limits.

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:		Method Blank		43194-001		43194-002		43194-005		43194-006		43194-007	
Client Sample I.D.:		--		P1@10'		P2@10'		P4@10'		P6@10'		P7@10'	
Date Sampled:		--		04/06/00		04/06/00		04/06/00		04/06/00		04/06/00	
QC Batch #:		S008270S117		S008270S117		S008270S117		S008270S117		S008270S117		S008270S117	
Date Extracted:		04/14/00		04/14/00		04/14/00		04/14/00		04/14/00		04/14/00	
Date Analyzed:		04/17/00		04/17/00		04/17/00		04/18/00		04/18/00		04/17/00	
Analyst Initials:		MH		MH		MH		MH		MH		MH	
Dilution Factor:		1		1		1		5*		2*		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Phenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
bis (2-Chloroethyl)ether	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2-Chlorophenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
1,3-Dichlorobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
1,4-Dichlorobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzyl Alcohol	660	660	ND	660	ND	660	ND	3300	ND	1320	ND	660	ND
1,2-Dichlorobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2-Methylphenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
bis(2-chloroisopropyl)ether	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
n-Nitroso-di-n-propylamine	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Methylphenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Hexachloroethane	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Nitrobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Isophorone	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2-Nitrophenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2,4-Dimethylphenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
bis(2-Chloroethoxy)methane	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2,4-Dichlorophenol	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
Benzoic Acid	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
1,2,4-Trichlorobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Naphthalene	330	330	ND	330	ND	330	ND	1650	8070	660	ND	330	ND
4-Chloroaniline	660	660	ND	660	ND	660	ND	3300	ND	1320	ND	660	ND
Hexachlorobutadiene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Chloro-3-methylphenol	660	660	ND	660	ND	660	ND	3300	ND	1320	ND	660	ND
2-Methylnaphthalene	330	330	ND	330	ND	330	ND	1650	12200	660	5100	330	448
Hexachlorocyclopentadiene	660	660	ND	660	ND	660	ND	3300	ND	1320	ND	660	ND
2,4,6-Trichlorophenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2,4,5-Trichlorophenol	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2-Chloronaphthalene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2-Nitroaniline	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
Dimethylphthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Acenaphthylene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2,6-Dinitrotoluene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
3-Nitroaniline	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

* = Dilution due to presence of hydrocarbons.

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:		Method Blank		43194-001		43194-002		43194-005		43194-006		43194-007	
Client Sample I.D.:		--		P1@10'		P2@10'		P4@10'		P6@10'		P7@10'	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Acenaphthene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
2,4-Dinitrophenol	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
Dibenzofuran	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Nitrophenol	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
2,4-Dinitrotoluene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Fluorene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Diethylphthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Chlorophenyl-phenyl ether	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Nitroaniline	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
4,6-Dinitro-2-methylphenol	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
n-Nitrosodiphenylamine	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
4-Bromophenyl-phenyl ether	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Hexachlorobenzene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Pentachlorophenol	1700	1700	ND	1700	ND	1700	ND	8500	ND	3400	ND	1700	ND
Phenanthrene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Anthracene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Di-n-butylphthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Fluoranthene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Pyrene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Butylbenzylphthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzo[a]anthracene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
3,3'-Dichlorobenzidine	660	660	ND	660	ND	660	ND	3300	ND	1320	ND	660	ND
Chrysene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
bis(2-Ethylhexyl)phthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Di-n-octylphthalate	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzo[b]fluoranthene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzo[k]fluoranthene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzo[a]pyrene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Indeno[1,2,3-cd]pyrene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Dibenz[a,h,]anthracene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND
Benzo[g,h,i]perylene	330	330	ND	330	ND	330	ND	1650	ND	660	ND	330	ND

Surrogate Recovery

Surrogate Recovery		%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits
2-Fluorophenol		75	19-114	73	19-114	62	19-114	56	19-114	58	19-114	61	19-114
Phenol-d6		74	18-116	73	18-116	64	18-116	55	18-116	58	18-116	63	18-116
2-Chlorophenol-d5		77	19-114	74	19-114	65	19-114	60	19-114	60	19-114	64	19-114
1,2-Dichlorobenzene-d4		69	17-97	64	17-97	56	17-97	52	17-97	52	17-97	55	17-97
Nitrobenzene-d5		67	20-100	66	20-100	55	20-100	55	20-100	68	20-100	54	20-100
2-Fluorobiphenyl		68	21-114	68	21-114	59	21-114	49	21-114	54	21-114	57	21-114
2,4,6-Tribromophenol		81	20-130	97	20-130	91	20-130	61	20-130	68	20-130	80	20-130
Terphenyl-d14		107	17-130	103	17-130	93	17-130	70	17-130	81	17-130	93	17-130

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

Approved/Reviewed By: Compton Persaud
Department Supervisor

Date: 04/24/00

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:	Method Blank			43194-003		43194-004		LCS					
Client Sample I.D.:	--			P5@5'		P5@10'		--					
Date Sampled:	--			04/06/00		04/06/00		--					
QC Batch #:	S008270S120			S008270S120		S008270S120		S008270S120					
Date Extracted:	04/19/00			04/19/00		04/19/00		04/19/00					
Date Analyzed:	04/20/00			04/21/00		04/21/00		04/20/00					
Analyst Initials:	MH			MH		MH		MH					
Dilution Factor:	1			5*		30**		1					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	Limits	%Rec	DLR	Results	DLR	Results
Phenol	330	330	ND	1650	ND	9900	ND	11-182	84				
bis (2-Chloroethyl)ether	330	330	ND	1650	ND	9900	ND	11-182	63				
2-Chlorophenol	330	330	ND	1650	ND	9900	ND	11-182	84				
1,3-Dichlorobenzene	330	330	ND	1650	ND	9900	ND	11-182	75				
1,4-Dichlorobenzene	330	330	ND	1650	ND	9900	ND	11-182	75				
Benzyl Alcohol	660	660	ND	3300	ND	19800	ND	11-182	84				
1,2-Dichlorobenzene	330	330	ND	1650	ND	9900	ND	11-182	75				
2-Methylphenol	330	330	ND	1650	ND	9900	ND	11-182	84				
bis(2-chloroisopropyl)ether	330	330	ND	1650	ND	9900	ND	11-182	93				
n-Nitroso-di-n-propylamine	330	330	ND	1650	ND	9900	ND	11-182	99				
4-Methylphenol	330	330	ND	1650	ND	9900	ND	11-182	87				
Hexachloroethane	330	330	ND	1650	ND	9900	ND	11-182	75				
Nitrobenzene	330	330	ND	1650	ND	9900	ND	11-182	81				
Isophorone	330	330	ND	1650	ND	9900	ND	11-182	81				
2-Nitrophenol	330	330	ND	1650	ND	9900	ND	11-182	84				
2,4-Dimethylphenol	330	330	ND	1650	ND	9900	ND	11-182	84				
bis(2-Chloroethoxy)methane	330	330	ND	1650	ND	9900	ND	11-182	78				
2,4-Dichlorophenol	1700	1700	ND	8500	ND	51000	ND	11-182	87				
Benzoic Acid	1700	1700	ND	8500	ND	51000	ND	11-182	87				
1,2,4-Trichlorobenzene	330	330	ND	1650	ND	9900	ND	11-182	84				
Naphthalene	330	330	ND	1650	2430	9900	57300	11-182	81				
4-Chloroaniline	660	660	ND	3300	ND	19800	ND	11-182	78				
Hexachlorobutadiene	330	330	ND	1650	ND	9900	ND	11-182	78				
4-Chloro-3-methylphenol	660	660	ND	3300	ND	19800	ND	11-182	87				
2-Methylnaphthalene	330	330	ND	1650	3910	9900	51900	11-182	90				
Hexachlorocyclopentadiene	660	660	ND	3300	ND	19800	ND	11-182	45				
2,4,6-Trichlorophenol	330	330	ND	1650	ND	9900	ND	11-182	84				
2,4,5-Trichlorophenol	330	330	ND	1650	ND	9900	ND	11-182	87				
2-Chloronaphthalene	330	330	ND	1650	ND	9900	ND	11-182	81				
2-Nitroaniline	1700	1700	ND	8500	ND	51000	ND	11-182	87				
Dimethylphthalate	330	330	ND	1650	ND	9900	ND	11-182	90				
Acenaphthylene	330	330	ND	1650	ND	9900	ND	11-182	69				
2,6-Dinitrotoluene	330	330	ND	1650	ND	9900	ND	11-182	87				
3-Nitroaniline	1700	1700	ND	8500	ND	51000	ND	11-182	102				

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

* = Dilution due to presence of hydrocarbons

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:		Method Blank		43194-003		43194-004		LCS					
Client Sample I.D.:		--		P5@5'		P5@10'		--					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	Limits	%Rec	DLR	Results	DLR	Results
Acenaphthene	330	330	ND	1650	ND	9900	ND	11-182	81				
2,4-Dinitrophenol	1700	1700	ND	8500	ND	51000	ND	11-182	72				
Dibenzofuran	330	330	ND	1650	ND	9900	ND	11-182	87				
4-Nitrophenol	1700	1700	ND	8500	ND	51000	ND	11-182	78				
2,4-Dinitrotoluene	330	330	ND	1650	ND	9900	ND	11-182	87				
Fluorene	330	330	ND	1650	ND	9900	ND	11-182	84				
Diethylphthalate	330	330	ND	1650	ND	9900	ND	11-182	87				
4-Chlorophenyl-phenyl ether	330	330	ND	1650	ND	9900	ND	11-182	90				
4-Nitroaniline	1700	1700	ND	8500	ND	51000	ND	11-182	105				
4,6-Dinitro-2-methylphenol	1700	1700	ND	8500	ND	51000	ND	11-182	87				
n-Nitrosodiphenylamine	330	330	ND	1650	ND	9900	ND	11-182	99				
4-Bromophenyl-phenyl ether	330	330	ND	1650	ND	9900	ND	11-182	102				
Hexachlorobenzene	330	330	ND	1650	ND	9900	ND	11-182	90				
Pentachlorophenol	1700	1700	ND	8500	ND	51000	ND	11-182	87				
Phenanthrene	330	330	ND	1650	ND	9900	ND	11-182	96				
Anthracene	330	330	ND	1650	ND	9900	ND	11-182	90				
Di-n-butylphthalate	330	330	ND	1650	ND	9900	ND	11-182	93				
Fluoranthene	330	330	ND	1650	ND	9900	ND	11-182	96				
Pyrene	330	330	ND	1650	ND	9900	ND	11-182	99				
Butylbenzylphthalate	330	330	ND	1650	ND	9900	ND	11-182	87				
Benzo[a]anthracene	330	330	ND	1650	ND	9900	ND	11-182	93				
3,3'-Dichlorobenzidine	660	660	ND	3300	ND	19800	ND	11-182	126				
Chrysene	330	330	ND	1650	ND	9900	ND	11-182	102				
bis(2-Ethylhexyl)phthalate	330	330	ND	1650	ND	9900	ND	11-182	105				
Di-n-octylphthalate	330	330	ND	1650	ND	9900	ND	11-182	102				
Benzo[b]fluoranthene	330	330	ND	1650	ND	9900	ND	11-182	102				
Benzo[k]fluoranthene	330	330	ND	1650	ND	9900	ND	11-182	108				
Benzo[a]pyrene	330	330	ND	1650	ND	9900	ND	11-182	101				
Indeno[1,2,3-cd]pyrene	330	330	ND	1650	ND	9900	ND	11-182	105				
Dibenz[a,h,]anthracene	330	330	ND	1650	ND	9900	ND	11-182	99				
Benzo[g,h,i]perylene	330	330	ND	1650	ND	9900	ND	11-182	93				

Surrogate Recovery

Surrogate Recovery		%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits				
2-Fluorophenol		74	19-114	69	19-114	8*	19-114	75	19-114				
Phenol-d6		72	18-116	65	18-116	48	18-116	78	18-116				
2-Chlorophenol-d5		74	19-114	73	19-114	65	19-114	77	19-114				
1,2-Dichlorobenzene-d4		69	17-97	66	17-97	66	17-97	71	17-97				
Nitrobenzene-d5		72	20-100	58	20-100	68	20-100	75	20-100				
2-Fluorobiphenyl		71	21-114	63	21-114	56	21-114	76	21-114				
2,4,6-Tribromophenol		81	20-130	61	20-130	35	20-130	92	20-130				
Terphenyl-d14		110	17-130	82	17-130	72	17-130	96	17-130				

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

* = Diluted out.

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:	43194-008			43194-009		43194-008Dup		LCS					
Client Sample I.D.:	MW2@10'			MW3@10'		MW2@10'		—					
Date Sampled:	04/07/00			04/07/00		04/07/00		—					
QC Batch #:	S008270S117			S008270S117		S008270S117		S008270S117					
Date Extracted:	04/14/00			04/14/00		04/14/00		04/14/00					
Date Analyzed:	04/18/00			04/18/00		04/18/00		04/17/00					
Analyst Initials:	MH			MH		MH		MH					
Dilution Factor:	5*			5*		5*		1					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	Limits	%Rec	DLR	Results	DLR	Results
Phenol	330	1650	ND	1650	ND	1650	ND	11-182	78				
bis (2-Chloroethyl)ether	330	1650	ND	1650	ND	1650	ND	11-182	66				
2-Chlorophenol	330	1650	ND	1650	ND	1650	ND	11-182	78				
1,3-Dichlorobenzene	330	1650	ND	1650	ND	1650	ND	11-182	69				
1,4-Dichlorobenzene	330	1650	ND	1650	ND	1650	ND	11-182	69				
Benzyl Alcohol	660	3300	ND	3300	ND	3300	ND	11-182	87				
1,2-Dichlorobenzene	330	1650	ND	1650	ND	1650	ND	11-182	69				
2-Methylphenol	330	1650	ND	1650	ND	1650	ND	11-182	75				
bis(2-chloroisopropyl)ether	330	1650	ND	1650	ND	1650	ND	11-182	87				
n-Nitroso-di-n-propylamine	330	1650	ND	1650	ND	1650	ND	11-182	78				
4-Methylphenol	330	1650	ND	1650	ND	1650	ND	11-182	81				
Hexachloroethane	330	1650	ND	1650	ND	1650	ND	11-182	69				
Nitrobenzene	330	1650	ND	1650	ND	1650	ND	11-182	72				
Isophorone	330	1650	ND	1650	ND	1650	ND	11-182	72				
2-Nitrophenol	330	1650	ND	1650	ND	1650	ND	11-182	75				
2,4-Dimethylphenol	330	1650	ND	1650	ND	1650	ND	11-182	75				
bis(2-Chloroethoxy)methane	330	1650	ND	1650	ND	1650	ND	11-182	72				
2,4-Dichlorophenol	1700	8500	ND	8500	ND	8500	ND	11-182	78				
Benzoic Acid	1700	8500	ND	8500	ND	8500	ND	11-182	81				
1,2,4-Trichlorobenzene	330	1650	ND	1650	ND	1650	ND	11-182	81				
Naphthalene	330	1650	11500	1650	17000	1650	12500	11-182	72				
4-Chloroaniline	660	3300	ND	3300	ND	3300	ND	11-182	72				
Hexachlorobutadiene	330	1650	ND	1650	ND	1650	ND	11-182	69				
4-Chloro-3-methylphenol	660	3300	ND	3300	ND	3300	ND	11-182	81				
2-Methylnaphthalene	330	1650	15100	1650	14200	1650	16500	11-182	78				
Hexachlorocyclopentadiene	660	3300	ND	3300	ND	3300	ND	11-182	54				
2,4,6-Trichlorophenol	330	1650	ND	1650	ND	1650	ND	11-182	81				
2,4,5-Trichlorophenol	330	1650	ND	1650	ND	1650	ND	11-182	78				
2-Chloronaphthalene	330	1650	ND	1650	ND	1650	ND	11-182	75				
2-Nitroaniline	1700	8500	ND	8500	ND	8500	ND	11-182	81				
Dimethylphthalate	330	1650	ND	1650	ND	1650	ND	11-182	81				
Acenaphthylene	330	1650	ND	1650	ND	1650	ND	11-182	63				
2,6-Dinitrotoluene	330	1650	ND	1650	ND	1650	ND	11-182	81				
3-Nitroaniline	1700	8500	ND	8500	ND	8500	ND	11-182	96				

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

* = Dilution due to presence of hydrocarbons.

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street., #8900-06-10A
Date Received: 04/13/00
Matrix: Soil
Units: µg/kg
Extraction Method: 3550B

EPA Method 8270C

Lab No.:		43194-008		43194-009		43194-008Dup		LCS					
Client Sample I.D.:		MW2@10'		MW3@10'		MW2@10'		---					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	Limits	%Rec	DLR	Results	DLR	Results
Acenaphthene	330	1650	ND	1650	ND	1650	ND	11-182	75				
2,4-Dinitrophenol	1700	8500	ND	8500	ND	8500	ND	11-182	78				
Dibenzofuran	330	1650	ND	1650	ND	1650	ND	11-182	81				
4-Nitrophenol	1700	8500	ND	8500	ND	8500	ND	11-182	75				
2,4-Dinitrotoluene	330	1650	ND	1650	ND	1650	ND	11-182	84				
Fluorene	330	1650	ND	1650	ND	1650	ND	11-182	75				
Diethylphthalate	330	1650	ND	1650	ND	1650	ND	11-182	81				
4-Chlorophenyl-phenyl ether	330	1650	ND	1650	ND	1650	ND	11-182	81				
4-Nitroaniline	1700	8500	ND	8500	ND	8500	ND	11-182	105				
4,6-Dinitro-2-methylphenol	1700	8500	ND	8500	ND	8500	ND	11-182	84				
n-Nitrosodiphenylamine	330	1650	ND	1650	ND	1650	ND	11-182	87				
4-Bromophenyl-phenyl ether	330	1650	ND	1650	ND	1650	ND	11-182	93				
Hexachlorobenzene	330	1650	ND	1650	ND	1650	ND	11-182	81				
Pentachlorophenol	1700	8500	ND	8500	ND	8500	ND	11-182	78				
Phenanthrene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Anthracene	330	1650	ND	1650	ND	1650	ND	11-182	81				
Di-n-butylphthalate	330	1650	ND	1650	ND	1650	ND	11-182	84				
Fluoranthene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Pyrene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Butylbenzylphthalate	330	1650	ND	1650	ND	1650	ND	11-182	84				
Benzo[a]anthracene	330	1650	ND	1650	ND	1650	ND	11-182	87				
3,3'-Dichlorobenzidine	660	3300	ND	3300	ND	3300	ND	11-182	123				
Chrysene	330	1650	ND	1650	ND	1650	ND	11-182	90				
bis(2-Ethylhexyl)phthalate	330	1650	ND	1650	ND	1650	ND	11-182	93				
Di-n-octylphthalate	330	1650	ND	1650	ND	1650	ND	11-182	87				
Benzo[b]fluoranthene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Benzo[k]fluoranthene	330	1650	ND	1650	ND	1650	ND	11-182	90				
Benzo[a]pyrene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Indeno[1,2,3-cd]pyrene	330	1650	ND	1650	ND	1650	ND	11-182	57				
Dibenz[a,h,]anthracene	330	1650	ND	1650	ND	1650	ND	11-182	87				
Benzo[g,h,i]perylene	330	1650	ND	1650	ND	1650	ND	11-182	87				

Surrogate Recovery

Surrogate Recovery		%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits				
2-Fluorophenol		55	19-114	60	19-114	66	19-114	70	19-114				
Phenol-d6		55	18-116	60	18-116	66	18-116	72	18-116				
2-Chlorophenol-d5		60	19-114	65	19-114	71	19-114	73	19-114				
1,2-Dichlorobenzene-d4		50	17-97	58	17-97	61	17-97	66	17-97				
Nitrobenzene-d5		53	20-100	70	20-100	65	20-100	65	20-100				
2-Fluorobiphenyl		53	21-114	55	21-114	65	21-114	68	21-114				
2,4,6-Tribromophenol		54	20-130	63	20-130	70	20-130	85	20-130				
Terphenyl-d14		65	17-130	74	17-130	79	17-130	88	17-130				

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report - sOIL (µG/Kg)

Method : D:\HPCHEM\1\METHODS\S000417.M (RTE Integrator)
Title : EPA 8270C Advanced Technology Laboratory
Last Update : Tue Apr 18 10:45:57 2000
Response via : Initial Calibration

Non-Spiked Sample: S0420011.D

	Spike Sample	Spike Duplicate Sample
File ID :	S0420019.D	S0420020.D
Sample :	000420MS,MS,	000420MSD,MSD,
Acq Time:	20 Apr 2000 6:41 pm	20 Apr 2000 7:17 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	100	68	67	67	66	1	19	37-92
2-Chlorophenol	0.0	100	83	83	83	83	0	20	33-94
1,4-Dichlorobenzene	0.0	50	32	32	65	64	1	22	43-91
N-Nitroso-di-n-propy	0.0	50	38	37	76	74	2	24	25-112
1,2,4-Trichlorobenze	0.0	50	35	34	70	67	4	19	47-104
4-Chloro-3-methylphe	0.0	100	60	58	60	58	3	19	33-106
Acenaphthene	0.0	50	35	35	70	70	0	19	39-103
4-Nitrophenol	0.0	100	85	82	85	82	4	21	22-117
2,4-Dinitrotoluene	0.0	50	35	34	71	69	3	21	46-106
Pentachlorophenol	0.0	100	89	86	89	86	4	24	11-120
Pyrene	0.0	50	39	37	76	74	3	17	24-124

QCBATCH#S008270S120

Reviewed / Approved by: C. Persaud Date: 04/24/00
Compton Persaud
Department Supervisor

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor Street, #8900-06-10A

Date Received: 04/13/00
Date Sampled: 04/06&07/00

Lab No.	Sample I.D.	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
43194-001	P1@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-002	P2@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-003	P5@5'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-004	P5@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	5.5	Soil, mg/kg	0.50	0.50	HP
43194-005	P4@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-006	P6@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-007	P7@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-008	MW2@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	ND	Soil, mg/kg	0.50	0.50	HP
43194-009	MW3@10'	Title 22 Appendix XI (Organic Lead)	04/19/00	7.1	Soil, mg/kg	0.50	0.50	HP

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: E. Parsons
Cheryl de los Reyes
Technical Operations Manager

Date: 04/24/00

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report

Method: Title 22 Appendix XI org lead
Analyst: HP
Data File: 00419S-1
QA File: 0110-1

Date Analyzed: 4/19/00
Date Extracted: 4/19/00
ANALYTE ORG LEAD
Matrix: Soil
QC Batch No: OP000419S-1

SAMPLE #	UNITS	LCS Conc	LCS Res	% Rec	METH BLK	SPL C	SPK ADDED	MS RSLT	MSD RSLT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	MDL
BLK	mg/kg	25	26	104	ND	ND	25	25	26	100	104	50-150	4	50	0.5

Approved by: Cheryl De Los Reyes
Technical Operations Manager

Date: 04/24/00

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CHAIN OF CUSTODY RECORD

Pg ___ of ___

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

Batch #: ___ D.O. # ___
P.O.#: ___
Logged By: ___ Date: ___ Time: ___

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Attn: Joel Kloth
Address: 6970 Flanders Drive
City: San Diego State: CA Zip Code: 92121
TEL: (619) 558-6100
FAX: (619) 558-8437

Project Name: Taylor Street Project #: 8900-06-10A Sampler: (Printed Name) R. Manrique (Signature)

Relinquished by: (Signature and Printed Name) R. Manrique Date: 4-13-00 Time: 15:00 Received by: (Signature and Printed Name) Date: 4/13/00 Time: 15:00
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

SHIP TO LAB: (SUB CONTRACT) ___
TEST: ___
ATL #: ___
DATE: ___
CLIENT I.D. ___

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Robert L Manrique Date: 4 13 2000
Print Name
Signature

Send Report To:
Attn: ___
Co: SAME
Address ___
City ___ State ___ Zip ___

Special Instructions/Comments: FAX RESULTS

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other ___
☐ Return To: ___
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240 (Volatiles-GC/MS); 8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); ORGANIC Lead

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER ___

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	601/8010	602/8020	608/8080	624/8240	8260	625/8270	8015M TPHG/BTEX	8015M TPH/D	418.1	Metals-Total	ORGANIC Lead			SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	L13194-001	P1 @ 10'	4/6	914					X	X					X			X							E	1	T P		
	-002	P2 @ 10'		1034																					E	1			
	-003	P5 @ 5'		~~1057~~ 1137	4/18/00																				E	1			
	-004	P5 @ 10'		~~1137~~ 1148																						1			
	-005	P4 @ 10'		1122																						1			
	-006	P6 @ 10'		1256																						1			
	-007	P7 @ 10'		1332																						1			
	-008	MW2 @ 10'	4/7	835																						1			
	-009	MW3 @ 10'	4/7	140																						1			

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER

EPA Method 8015(M)8020

Lab No.:			Method Blank		43151-001		43151-001Dup		43151-002		43151-003	
Client Sample I.D.:			--		MW1		MW1		MW3		MW2	
Date Sampled:			--		04/11/00		04/11/00		04/11/00		04/11/00	
QC Batch #:			E008G20W092		E008G20W092		E008G20W092		E008G20W092		E008G20W092	
Date Analyzed:			04/12/2000		04/12/2000		04/12/2000		04/12/2000		04/13/2000	
Analyst Initials:			IMG		IMG		IMG		IMG		IMG	
Dilution Factor:			1		1		1		1		1	
ANALYTE	MDL	Units	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Gasoline	0.05	mg/L	0.05	ND	0.05	ND	0.05	ND	0.05	6.2*	0.05	8.4*
Benzene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	8.8
Toluene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	2.8	0.5	23
Ethylbenzene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	110	0.5	1110
m,p-Xylene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	16	0.5	560
o-Xylene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	0.7	0.5	14
MTBE	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	3.4	0.5	6.3
Tert-Butanol	100	ug/L	100	ND	100	ND	100	ND	100	1890	100	5780
Di-isopropyl ether	5	ug/L	5	ND	5	ND	5	ND	5	12	5	35
Ethyl tert-butyl ether	5	ug/L	5	ND	5	ND	5	ND	5	76	5	159
Tert-amyl methyl ether	5	ug/L	5	ND	5	ND	5	ND	5	157	5	186

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:	MBLK		BLANK MS		BLANK MSD					
QC Batch Number:	E008G20W092		E008G20W092		E008G20W092					
ANALYTE	DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
Gasoline	0.05	ND	1.0	95	0.9	94	1	54-135	18	1
Benzene	0.5	ND	5.2	109	5.3	110	1	59-134	7	4.8
Toluene	0.5	ND	28	103	27	100	4	59-146	15	27

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor

*Sample contains hydrocarbons that do not match the gasoline pattern. However, quantitation is based on a gasoline stadard.

Approved/Reviewed By: [signature] for Compton ~~Peraud~~ Department Supervisor

Date: 5/2/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER

EPA Method 8015(M)8020

Lab No.:			43151-004		LCS							
Client Sample I.D.:			MWX		--							
Date Sampled:			04/11/00		--							
QC Batch #:			E008G20W092		E008G20W092							
Date Analyzed:			04/12/2000		04/13/2000							
Analyst Initials:			IMG		IMG							
Dilution Factor:			1		1							
ANALYTE	MDL	Units	DLR	Results	Limits	%Rec.						
Gasoline	0.05	mg/L	0.05	ND	57-129	93						
Benzene	0.5	ug/L	0.5	ND	46-132	105						
Toluene	0.5	ug/L	0.5	ND	46-132	97						
Ethylbenzene	0.5	ug/L	0.5	ND	46-132	94						
m,p-Xylene	0.5	ug/L	0.5	ND	46-132	108						
o-Xylene	0.5	ug/L	0.5	ND	46-132	98						
MTBE	0.5	ug/L	0.5	ND	30-156	106						
Tert-Butanol	100	ug/L	100	ND	NS	NS						
Di-Isopropyl ether	5	ug/L	5	ND	NS	NS						
Ethyl tert-butyl ether	5	ug/L	5	ND	NS	NS						
Tert-amyl methyl ether	5	ug/L	5	ND	NS	NS						

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:		MBLK		BLANK MS		BLANK MSD					
QC Batch Number:		E008G20W092		E008G20W092		E008G20W092					
ANALYTE		DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
Gasoline		0.05	ND	1.0	95	0.9	94	1	54-135	18	1
Benzene		0.5	ND	5.2	109	5.3	110	1	59-134	7	4.8
Toluene		0.5	ND	28	103	27	100	4	59-146	15	27

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NS = Not Spiked

Approved/Reviewed By: for Compton Persaud
Departement Supervisor

Date: 5/2/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Client:	Geocon Environmental	QC Batch #:	L008015DW175
Attn:	Joel Kloth	Date Sampled:	04/11/00
		Date Received:	04/12/00
		Date Extracted:	04/13/00
		Date Analyzed:	04/18/00
Client's Project:	Taylor St., #08900-06-10A	Extraction Method:	3510C
Matrix:	Water	Extraction Material:	Methylene Chloride
Analyst Initials:	AP		

Method 8015B (M)/TPH (Diesel)

Lab No.:	Sample ID:	Results, mg/L	DLR, mg/L	Dilution Factor
Method Blank	—	ND	0.05	1.0
43151-001	MW1	ND	0.05	1.0
43151-002	MW3	2.9*	0.05	1.0
43151-003	MW2	2.1*	0.05	1.0
43151-004	MWX	ND	0.05	1.0
		%Rec	Limits	
LCS		84	31-129	

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
* = Sample contains hydrocarbons that are greater than diesel. However, quantitation is based on diesel standard.

Reviewed/Approved By: C. Persaud Date: 04/24/00
Compton Persaud
Department Supervisor

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories 1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report - WATER (mg/L)

Method : C:\HPCHEM\2\METHODS\LD000228.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 19 07:17:09 2000
Response via : Initial Calibration

Non-Spiked Sample: L0418007.D

	Spike Sample	Spike Duplicate Sample
File ID :	L0418027.D	L0418029.D
Sample :	000418BLKW1,MS,SW624008	000418BLKW1,MSD,SW624008
Acq Time:	18 Apr 2000 6:02 pm	18 Apr 2000 6:28 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Diesel	0.0	1000	1048	1077	102	105	3	23	42-142

QCBATCH#L008015DW175

Reviewed/Approved by: C. Persaud Date: 04/24/00
Compton Persaud
Department Supervisor

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report - WATER (µg/L)

Method : D:\HPCHEM\1\METHODS\S000417.M (RTE Integrator)
Title : EPA 8270C Advanced Technology Laboratory
Last Update : Tue Apr 18 10:45:57 2000
Response via : Initial Calibration

Non-Spiked Sample: S0419004.D

	Spike Sample	Spike Duplicate Sample
File ID :	S0419006.D	S0419007.D
Sample :	000419MS,MBLK,	000419MSD,MBLK,
Acq Time:	19 Apr 2000 9:59 am	19 Apr 2000 10:35 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	100	19	19	19	19	0	21	12- 78
2-Chlorophenol	0.0	100	59	59	59	59	0	24	30- 91
1,4-Dichlorobenzene	0.0	50	20	20	40	39	1	18	36- 87
N-Nitroso-di-n-propy	0.0	50	29	29	57	57	0	21	31-114
1,2,4-Trichlorobenze	0.0	50	21	21	43	42	2	18	38-100
4-Chloro-3-methylphe	0.0	100	50	49	50	49	2	16	35-102
Acenaphthene	0.0	50	24	25	48	50	3	17	46- 94
4-Nitrophenol	0.0	100	34	32	34	32	5	58	10- 91
2,4-Dinitrotoluene	0.0	50	25	24	51	48	5	20	42-115
Pentachlorophenol	0.0	100	61	60	61	60	1	51	8-125
Pyrene	0.0	50	27	27	53	54	2	16	36-114

QCBATCH#S008270W116

Reviewed / Approved by: C. Persaud Date: 04/24/00
Compton Persaud
Department Supervisor

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report - WATER (µg/L)

Method : C:\HPCHEM\1\METHODS\R000414.M (RTE Integrator)
Title : 8270C Advanced Technology Laboratory
Last Update : Tue Apr 18 12:17:57 2000
Response via : Initial Calibration

Non-Spiked Sample: R0418013.D

	Spike Sample	Spike Duplicate Sample
File ID :	R0418015.D	R0418016.D
Sample :	000418BLKW1,MS	000418BLKW1,MSD
Acq Time:	18 Apr 2000 4:36 pm	18 Apr 2000 5:15 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Phenol	0.0	100	20	21	20	20	1	21	12- 78
2-Chlorophenol	0.0	100	61	62	61	62	0	24	30- 91
1,4-Dichlorobenzene	0.0	50	20	20	40	41	2	18	36- 87
N-Nitroso-di-n-propy	0.0	50	27	28	54	56	3	21	31-114
1,2,4-Trichlorobenze	0.0	50	23	23	45	45	0	18	38-100
4-Chloro-3-methylphe	0.0	100	57	58	57	58	2	16	35-102
Acenaphthene	0.0	50	25	26	50	51	3	17	46- 94
4-Nitrophenol	0.0	100	21	18	20	17	15	58	10- 91
2,4-Dinitrotoluene	0.0	50	26	26	52	53	0	20	42-115
Pentachlorophenol	0.0	100	51	49	51	49	4	51	8-125
Pyrene	0.0	50	28	28	56	55	1	16	36-114

QCBATCH#R008270W116

Reviewed / Approved by: C. Persaud Date: 04/24/00
Compton Persaud
Department Supervisor

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Date Sampled: 04/11/00

Lab No.	Sample I.D.	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
43151-001	MW1	EPA 160.1 (TDS)	04/12/00	3590	Water, mg/L	10	10	HLP
43151-002	MW3	EPA 160.1 (TDS)	04/12/00	3530	Water, mg/L	10	10	HLP
43151-003	MW2	EPA 160.1 (TDS)	04/12/00	3490	Water, mg/L	10	10	HLP
43151-001	MW1	SM 2520 (Salinity)	04/12/00	3.6	Water, mg/L	---	---	HLP
43151-002	MW3	SM 2520 (Salinity)	04/12/00	3.6	Water, mg/L	---	---	HLP
43151-003	MW2	SM 2520 (Salinity)	04/12/00	3.7	Water, mg/L	---	---	HLP
43151-001	MW1	EPA 120.1 (Conductivity)	04/12/00	5040	Water, umhos/cm	---	---	HLP
43151-002	MW3	EPA 120.1 (Conductivity)	04/12/00	5040	Water, umhos/cm	---	---	HLP
43151-003	MW2	EPA 120.1 (Conductivity)	04/12/00	5180	Water, umhos/cm	---	---	HLP

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: C. Reyes
Cheryl de los Reyes
Technical Operations Manager

Date: 04/24/00

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☑

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: GEOCON ENVIRONMENTAL - SAN DIEGO
Attn: Joel Kloth
Address: 6970 Flanders Drive
City: San Diego State: CA Zip Code: 92121
TEL: (619) 558-6100
FAX: (619) 558-8437

Project Name: Taylor Street Project #: 08900-06-10A Sampler: (Printed Name) MARC BARTON (Signature)

Relinquished by: (Signature and Printed Name) Marc Barton Date: 4/11/00 Time: 1430 Received by: (Signature and Printed Name) Date: 4/11/00 Time: 18:00

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: MARC BARTON 4/11/00
Print Name Date
Signature

Send Report To:
Attn: \
Co: Same
Address \
City _____ State _____ Zip _____

Bill To:
Attn: \
Co: Same
Address \
City _____ State _____ Zip _____

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatile-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (CAC-6010 / 7000); 8015M TPH/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8015 8270

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatile-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (CAC-6010 / 7000)	8015M TPH/BTEX (COMBINATION)	8015M TPHD (Diesel-GC)	8015 8270	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	4315 - 004	MW X	4/11	1430					X	X				X					E	2	L	6	C
		[illegible]	[illegible]	[illegible]																			

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #00900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:		Method Blank		43151-002		43151-002Dup		43151-003		43151-004	
Client Sample I.D.:				MW3		MW3		MW2		MWX	
Date Sampled:				04/11/00		04/11/00		04/11/00		04/11/00	
QC Batch #:		Q00VOCW079		Q00VOCW079		Q00VOCW079		Q00VOCW079		Q00VOCW079	
Date Analyzed:		04/18/2000		04/18/2000		04/18/2000		04/18/2000		04/18/2000	
Analyst Initials:		DJK		DJK		DJK		DJK		DJK	
Dilution Factor:		1		1		1		1		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
benzene	5	5	ND	5	ND	5	ND	5	8.1	5	ND
bromobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
bromodichloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
bromoform	5	5	ND	5	ND	5	ND	5	ND	5	ND
bromomethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
n-butylbenzene	5	5	ND	5	38	5	41	5	19	5	ND
sec-butylbenzene	5	5	ND	5	22	5	22	5	9.4	5	ND
tert-butylbenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
carbon tetrachloride	5	5	ND	5	ND	5	ND	5	ND	5	ND
chlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
chloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
chloroform	5	5	ND	5	ND	5	ND	5	ND	5	ND
chloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
2-chlorotoluene	5	5	ND	5	ND	5	ND	5	ND	5	ND
4-chlorotoluene	5	5	ND	5	ND	5	ND	5	ND	5	ND
dibromochloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2-dibromo-3-chloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2-dibromoethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
dibromomethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2-dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,3-dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,4-dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
dichlorodifluoromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1-dichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2-dichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1-dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND
cis-1,2-dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND
trans-1,2-dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2-dichloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,3-dichloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND
2,2-dichloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1-dichloropropene	5	5	ND	5	ND	5	ND	5	ND	5	ND
ethylbenzene	5	5	ND	5	108	5	108	50	997~	5	ND
hexachlorobutadiene	5	5	ND	5	ND	5	ND	5	ND	5	ND

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
~ = Dilution Factor is 10.

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Jool Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:	Method Blank			43151-002		43151-002Dup		43151-003		43151-004	
Client Sample I.D.:				MW3		MW3		MW2		MWX	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
isopropylbenzene	5	5	ND	5	142	5	136	5	77	5	ND
4-isopropyltoluene	5	5	ND	5	7.3	5	7.4	5	5.7	5	ND
methylene chloride	5	5	ND	5	ND	5	ND	5	ND	5	ND
naphthalene	5	5	ND	50	548*	50	619*	5	341	5	ND
n-propylbenzene	5	5	ND	5	314	5	306	5	173	5	ND
styrene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1,1,2-tetrachloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1,2,2-tetrachloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
tetrachloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND
toluene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2,3-trichlorobenzene	5	5	ND	5	ND	5	ND	5	21	5	ND
1,2,4-trichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1,1-trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,1,2-trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
trichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND
trichlorofluoromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2,3-trichloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,2,4-trimethylbenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND
1,3,5-trimethylbenzene	5	5	ND	5	ND	5	ND	5	81	5	ND
vinyl chloride	5	5	ND	5	ND	5	ND	5	97	5	ND
o-xylene	5	5	ND	5	ND	5	ND	5	ND	5	ND
m,p-xylene	5	5	ND	5	0.3	5	9.5	5	8.8	5	ND
Methyl tert-Butyl Ether	5	5	ND	5	ND	5	ND	5	485	5	ND
Tert-Butanol	100	100	ND	100	ND	100	ND	100	ND	100	ND
Ethyl tert-Butyl Ether	5	5	ND	5	ND	5	ND	5	ND	5	NA
Di-isopropyl Ether	5	5	ND	5	ND	5	ND	5	ND	5	NA
Tert-Amyl methyl Ether	5	5	ND	5	ND	5	ND	5	ND	5	NA

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:	Method Blank		Blank MS		Blank MSD					
QC Batch Number:	Q00VOCW079		Q00VOCW079		Q00VOCW079					
ANALYTE	DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
1,1-dichloroethene	5	ND	92	92	97	97	5	61-151	21	100
benzene	5	ND	100	100	99	99	1	73-131	15	100
trichloroethene	5	ND	98	98	98	98	0	72-128	15	100
toluene	5	ND	100	100	101	101	1	63-140	14	100
chlorobenzene	5	ND	96	96	93	93	3	81-115	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
* = Dilution factor of 10 analyzed on 04/20/2000.

Approved/Reviewed By: Compton Persaud
Department Supervisor

Date: 04/28/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #00900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:		LCS									
Client Sample I.D.:		--									
Date Sampled:		--									
QC Batch #:		Q00VOCW079									
Date Analyzed:		04/18/2000									
Analyst Initials:		DJK									
Dilution Factor:		1									
ANALYTE	MDL	Limits	% Rec	DLR	Results	DLR	Results	DLR	Results	DLR	Results
benzene	5	21-175	101								
bromobenzene	5	21-175	99								
bromodichloromethane	5	21-175	100								
bromoform	5	21-175	108								
bromomethane	5	21-175	110								
n-butylbenzene	5	21-175	101								
sec-butylbenzene	5	21-175	106								
tert-butylbenzene	5	21-175	101								
carbon tetrachloride	5	21-175	104								
chlorobenzene	5	21-175	98								
chloroethane	5	21-175	99								
chloroform	5	21-175	96								
chloromethane	5	21-175	89								
2-chlorotoluene	5	21-175	107								
4-chlorotoluene	5	21-175	98								
dibromochloromethane	5	21-175	102								
1,2-dibromo-3-chloropropane	5	21-175	103								
1,2-dibromoethane	5	21-175	98								
dibromomethane	5	21-175	103								
1,2-dichlorobenzene	5	21-175	97								
1,3-dichlorobenzene	5	21-175	99								
1,4-dichlorobenzene	5	21-175	99								
dichlorodifluoromethane	5	21-175	81								
1,1-dichloroethane	5	21-175	93								
1,2-dichloroethane	5	21-175	97								
1,1-dichloroethene	5	21-175	76								
cis-1,2-dichloroethene	5	21-175	99								
trans-1,2-dichloroethene	5	21-175	96								
1,2-dichloropropane	5	21-175	106								
1,3-dichloropropane	5	21-175	99								
2,2-dichloropropane	5	21-175	99								
1,1-dichloropropene	5	21-175	105								
ethylbenzene	5	21-175	98								
hexachlorobutadiene	5	21-175	114								

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:		LCS									
Client Sample I.D.:		–									
ANALYTE	MDL	Limits	% Rec	DLR	Results	DLR	Results	DLR	Results	DLR	Results
isopropylbenzene	5	21-175	103								
4-isopropyltoluene	5	21-175	104								
methylene chloride	5	21-175	92								
naphthalene	5	21-175	108								
n-propylbenzene	5	21-175	105								
styrene	5	21-175	103								
1,1,1,2-tetrachloroethane	5	21-175	100								
1,1,2,2-tetrachloroethane	5	21-175	97								
tetrachloroethene	5	21-175	100								
toluene	5	21-175	100								
1,2,3-trichlorobenzene	5	21-175	108								
1,2,4-trichlorobenzene	5	21-175	103								
1,1,1-trichloroethane	5	21-175	98								
1,1,2-trichloroethane	5	21-175	101								
trichloroethene	5	21-175	99								
trichlorofluoromethane	5	21-175	73								
1,2,3-trichloropropane	5	21-175	94								
1,2,4-trimethylbenzene	5	21-175	100								
1,3,5-trimethylbenzene	5	21-175	101								
vinyl chloride	5	21-175	103								
o-xylene	5	21-175	100								
m,p-xylene	5	21-175	102								
Methyl tert-Butyl Ether	5	21-175	99								
Tert-Butanol	100	NS	NS								
Ethyl tert-Butyl Ether	5	NS	NS								
Di-isopropyl Ether	5	NS	NS								
Tert-Amyl methyl Ether	5	NS	NS								

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:		Method Blank		Blank MS		Blank MSD					
QC Batch Number:		Q00VOCW079		Q00VOCW079		Q00VOCW079					
ANALYTE		DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
1,1-dichloroethene		5	ND	92	92	97	97	5	61-151	21	100
benzene		5	ND	100	100	99	99	1	73-131	15	100
trichloroethene		5	ND	98	98	98	98	0	72-128	15	100
toluene		5	ND	100	100	101	101	1	63-140	14	100
chlorobenzene		5	ND	96	96	93	93	3	81-115	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NS = Not Spiked

Approved/Reviewed By: Compton Persaud
Department Supervisor

Date: 04/28/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER

EPA Method 8015(M)8020

Lab No.:			Method Blank		43151-001		43151-001Dup		43151-002		43151-003	
Client Sample I.D.:			--		MW1		MW1		MW3		MW2	
Date Sampled:			--		04/11/00		04/11/00		04/11/00		04/11/00	
QC Batch #:			E008G20W092		E008G20W092		E008G20W092		E008G20W092		E008G20W092	
Date Analyzed:			04/12/2000		04/12/2000		04/12/2000		04/12/2000		04/13/2000	
Analyst Initials:			IMG		IMG		IMG		IMG		IMG	
Dilution Factor:			1		1		1		1		1	
ANALYTE	MDL	Units	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Gasoline	0.05	mg/L	0.05	ND	0.05	ND	0.05	ND	0.05	6.2*	0.05	8.4*
Benzene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	8.8
Toluene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	2.8	0.5	23
Ethylbenzene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	110	0.5	1110
m,p-Xylene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	16	0.5	560
o-Xylene	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	0.7	0.5	14
MTBE	0.5	ug/L	0.5	ND	0.5	ND	0.5	ND	0.5	3.4	0.5	6.3
Tert-Butanol	100	ug/L	100	ND	100	ND	100	ND	100	1890	100	5780
Di-isopropyl ether	5	ug/L	5	ND	5	ND	5	ND	5	12	5	35
Ethyl tert-butyl ether	5	ug/L	5	ND	5	ND	5	ND	5	76	5	159
Tert-amyl methyl ether	5	ug/L	5	ND	5	ND	5	ND	5	157	5	186

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:	MBLK		BLANK MS		BLANK MSD					
QC Batch Number:	E008G20W092		E008G20W092		E008G20W092					
ANALYTE	DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
Gasoline	0.05	ND	1.0	95	0.9	94	1	54-135	18	1
Benzene	0.5	ND	5.2	109	5.3	110	1	59-134	7	4.8
Toluene	0.5	ND	28	103	27	100	4	69-146	15	27

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor

*Sample contains hydrocarbons that do not match the gasoline pattern. However, quantitation is based on a gasoline stadard.

Approved/Reviewed By: C. Persaud
Compton Persaud
Department Supervisor

Date: 04/28/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4010

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER

EPA Method 8015(M)8020

Lab No.:			43151-004		LCS							
Client Sample I.D.:			MWX		--							
Date Sampled:			04/11/00		--							
QC Batch #:			E008G20W092		E008G20W092							
Date Analyzed:			04/12/2000		04/13/2000							
Analyst Initials:			IMG		IMG							
Dilution Factor:			1		1							
ANALYTE	MDL	Units	DLR	Results	Limits	%Rec.						
Gasoline	0.05	mg/L	0.05	ND	57-129	93						
Benzene	0.5	ug/L	0.5	ND	46-132	105						
Toluene	0.5	ug/L	0.5	ND	46-132	97						
Ethylbenzene	0.5	ug/L	0.5	ND	46-132	94						
m,p-Xylene	0.5	ug/L	0.5	ND	46-132	108						
o-Xylene	0.5	ug/L	0.5	ND	46-132	98						
MTBE	0.5	ug/L	0.5	ND	30-156	106						
Tert-Butanol	100	ug/L	100	ND	NS	NS						
Di-isopropyl ether	5	ug/L	5	ND	NS	NS						
Ethyl tert-butyl ether	5	ug/L	5	ND	NS	NS						
Tert-amyl methyl ether	5	ug/L	5	ND	NS	NS						

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:		MBLK		BLANK MS		BLANK MSD					
QC Batch Number:		E008G20W092		E008G20W092		E008G20W092					
ANALYTE		DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
Gasoline		0.05	ND	1.0	95	0.9	94	1	54-135	18	1
Benzene		0.5	ND	5.2	109	5.3	110	1	59-134	7	4.8
Toluene		0.5	ND	28	103	27	100	4	59-146	15	27

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NS = Not Spiked

Approved/Reviewed By: C. Persaud
Compton Persaud
Departement Supervisor

Date: 04/28/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:		Method Blank		43151-001		LCS					
Client Sample I.D.:		--		MW1		--					
Date Sampled:		--		04/11/00		--					
QC Batch #:		Q00VOCW086		Q00VOCW086		Q00VOCW086					
Date Analyzed:		04/26/2000		04/26/2000		04/26/2000					
Analyst Initials:		DJK		DJK		DJK					
Dilution Factor:		1		1		1					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
benzene	5	5	ND	5	ND	5	109				
bromobenzene	5	5	ND	5	ND	5	99				
bromodichloromethane	5	5	ND	5	ND	5	113				
bromoform	5	5	ND	5	ND	5	113				
bromomethane	5	5	ND	5	ND	5	105				
n-butylbenzene	5	5	ND	5	ND	5	84				
sec-butylbenzene	5	5	ND	5	ND	5	98				
tert-butylbenzene	5	5	ND	5	ND	5	99				
carbon tetrachloride	5	5	ND	5	ND	5	113				
chlorobenzene	5	5	ND	5	ND	5	100				
chloroethane	5	5	ND	5	ND	5	113				
chloroform	5	5	ND	5	ND	5	104				
chloromethane	5	5	ND	5	ND	5	99				
2-chlorotoluene	5	5	ND	5	ND	5	90				
4-chlorotoluene	5	5	ND	5	ND	5	96				
dibromochloromethane	5	5	ND	5	ND	5	107				
1,2-dibromo-3-chloropropane	5	5	ND	5	ND	5	115				
1,2-dibromoethane	5	5	ND	5	ND	5	111				
dibromomethane	5	5	ND	5	ND	5	116				
1,2-dichlorobenzene	5	5	ND	5	ND	5	99				
1,3-dichlorobenzene	5	5	ND	5	ND	5	101				
1,4-dichlorobenzene	5	5	ND	5	ND	5	100				
dichlorodifluoromethane	5	5	ND	5	ND	5	117				
1,1-dichloroethane	5	5	ND	5	ND	5	102				
1,2-dichloroethane	5	5	ND	5	ND	5	109				
1,1-dichloroethene	5	5	ND	5	ND	5	106				
cis-1,2-dichloroethene	5	5	ND	5	ND	5	107				
trans-1,2-dichloroethene	5	5	ND	5	ND	5	101				
1,2-dichloropropane	5	5	ND	5	ND	5	116				
1,3-dichloropropane	5	5	ND	5	ND	5	96				
2,2-dichloropropane	5	5	ND	5	ND	5	104				
1,1-dichloropropene	5	5	ND	5	ND	5	115				
ethylbenzene	5	5	ND	5	ND	5	99				
hexachlorobutadiene	5	5	ND	5	ND	5	105				

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Geocon Environmental
Attn: Joel Klotz

Client's Project: Taylor St., #08900-06-10A

Date Received: 04/12/00
Matrix: WATER
Units: UG/L

EPA Method 8260B

Lab No.:		Method Blank		43151-001		LCS					
Client Sample I.D.:		--		MW1		--					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
isopropylbenzene	5	5	ND	5	ND	5	102				
4-isopropyltoluene	5	5	ND	5	ND	5	95				
methylene chloride	5	5	ND	5	ND	5	105				
naphthalene	5	5	ND	5	ND	5	102				
n-propylbenzene	5	5	ND	5	ND	5	106				
styrene	5	5	ND	5	ND	5	105				
1,1,1,2-tetrachloroethane	5	5	ND	5	ND	5	102				
1,1,2,2-tetrachloroethane	5	5	ND	5	ND	5	96				
tetrachloroethene	5	5	ND	5	ND	5	100				
toluene	5	5	ND	5	ND	5	113				
1,2,3-trichlorobenzene	5	5	ND	5	ND	5	100				
1,2,4-trichlorobenzene	5	5	ND	5	ND	5	94				
1,1,1-trichloroethane	5	5	ND	5	ND	5	103				
1,1,2-trichloroethane	5	5	ND	5	ND	5	111				
trichloroethene	5	5	ND	5	ND	5	110				
trichlorofluoromethane	5	5	ND	5	ND	5	120				
1,2,3-trichloropropane	5	5	ND	5	ND	5	96				
1,2,4-trimethylbenzene	5	5	ND	5	ND	5	85				
1,3,5-trimethylbenzene	5	5	ND	5	ND	5	89				
vinyl chloride	5	5	ND	5	ND	5	118				
o-xylene	5	5	ND	5	ND	5	101				
m,p-xylene	5	5	ND	5	ND	5	102				

Matrix Spike and Matrix Spike Duplicate Report #

Lab No.:		043394-006A		043394-006A MS		043394-006A MSD					
QC Batch Number:		Q00VOCW086		Q00VOCW086		Q00VOCW086					
ANALYTE		DLR	Results	Results	%Rec.	Results	%Rec.	RPD %	Rec. Limits	RPD Limits	Amount
1,1-dichloroethene		5	ND	91	91	85	85	7	61-151	21	100
benzene		5	ND	95	95	87	87	9	73-131	15	100
trichloroethene		5	ND	97	97	87	87	11	72-126	15	100
toluene		5	ND	99	99	91	91	8	63-140	14	100
chlorobenzene		5	ND	88	88	81	81	8	81-115	11	100

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor

Approved/Reviewed By: for Compton Persaud
Department Supervisor

Date: 5/2/00

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.
The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A
Date Received: 04/12/00
Matrix: Water
Units: µg/l
Extraction Method: 3510C

EPA Method 8270C

Lab No.:		Method Blank		43151-001		43151-002		43151-003		43151-004		LCS	
Client Sample I.D.:		--		MW1		MW3		MW2		MWX		--	
Date Sampled:		--		04/11/00		04/11/00		04/11/00		04/11/00		--	
QC Batch #:		R008270W116		R008270W116		S008270W116		S008270W116		R008270W116		R008270W116	
Date Extracted:		04/14/00		04/14/00		04/14/00		04/14/00		04/14/00		04/14/00	
Date Analyzed:		04/18/00		04/18/00		04/19/00		04/19/00		04/18/00		04/18/00	
Analyst Initials:		MH		MH		MH		MH		MH		MH	
Dilution Factor:		1		1		2*		2*		1		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Phenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	26
bis (2-Chloroethyl)ether	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	53
2-Chlorophenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	62
1,3-Dichlorobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	51
1,4-Dichlorobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	52
Benzyl Alcohol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	53
1,2-Dichlorobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	55
2-Methylphenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	53
bis(2-chloroisopropyl)ether	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	73
n-Nitroso-di-n-propylamine	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	68
4-Methylphenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	48
Hexachloroethane	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	47
Nitrobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	59
Isophorone	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	60
2-Nitrophenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	63
2,4-Dimethylphenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	58
bis(2-Chloroethoxy)methane	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	60
2,4-Dichlorophenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	62
Benzoic Acid	50	50	ND	50	ND	100	ND	100	ND	50	ND	9-147	14
1,2,4-Trichlorobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	66
Naphthalene	10	10	ND	10	ND	20	212	20	245	10	ND	9-147	60
4-Chloroaniline	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	74
Hexachlorobutadiene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	51
4-Chloro-3-methylphenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	65
2-Methylnaphthalene	10	10	ND	10	ND	20	79	20	76	10	ND	9-147	67
Hexachlorocyclopentadiene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	30
2,4,6-Trichlorophenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	66
2,4,5-Trichlorophenol	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	69
2-Chloronaphthalene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	64
2-Nitroaniline	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	66
Dimethylphthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	71
Acenaphthylene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	54
2,6-Dinitrotoluene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	68
3-Nitroaniline	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	143

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

* = Dilution due to presence of hydrocarbons.

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Joel Kloth

Client's Project: Taylor St., #08900-06-10A
Date Received: 04/12/00
Matrix: Water
Units: µg/l
Extraction Method: 3510C

EPA Method 8270C

Lab No.:		Method Blank		43151-001		43151-002		43151-003		43151-004		LCS	
Client Sample I.D.:		--		MW1		MW3		MW2		MWX		--	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Acenaphthene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	64
2,4-Dinitrophenol	20	20	ND	20	ND	40	ND	40	ND	20	ND	9-147	77
Dibenzofuran	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	70
4-Nitrophenol	20	20	ND	20	ND	40	ND	40	ND	20	ND	9-147	23
2,4-Dinitrotoluene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
Fluorene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	67
Diethylphthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	69
4-Chlorophenyl-phenyl ether	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	73
4-Nitroaniline	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	96
4,6-Dinitro-2-methylphenol	20	20	ND	20	ND	40	ND	40	ND	20	ND	9-147	73
n-Nitrosodiphenylamine	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	73
4-Bromophenyl-phenyl ether	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	79
Hexachlorobenzene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	70
Pentachlorophenol	20	20	ND	20	ND	40	ND	40	ND	20	ND	9-147	58
Phenanthrene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
Anthracene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	69
Di-n-butylphthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
Fluoranthene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	73
Pyrene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	75
Butylbenzylphthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	69
Benzo[a]anthracene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
3,3'-Dichlorobenzidine	20	20	ND	20	ND	40	ND	40	ND	20	ND	9-147	117
Chrysene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
bis(2-Ethylhexyl)phthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	70
Di-n-octylphthalate	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	70
Benzo[b]fluoranthene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	68
Benzo[k]fluoranthene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	81
Benzo[a]pyrene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	69
Indeno[1,2,3-cd]pyrene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	72
Dibenz[a,h]anthracene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	70
Benzo[g,h,i]perylene	10	10	ND	10	ND	20	ND	20	ND	10	ND	9-147	67

Surrogate Recovery

Surrogate Recovery	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits	%Rec.	Limits
2-Fluorophenol	31	16-71	31	16-71	32	16-71	33	16-71	29	16-71	30	16-71
Phenol-d6	21	9-55	22	9-55	21	9-55	22	9-55	20	9-55	21	9-55
2-Chlorophenol-d5	58	27-101	56	27-101	53	27-101	55	27-101	54	27-101	59	27-101
1,2-Dichlorobenzene-d4	50	24-93	49	24-93	50	24-93	51	24-93	46	24-93	55	24-93
Nitrobenzene-d5	54	18-118	53	18-118	53	18-118	54	18-118	50	18-118	55	18-118
2-Fluorobiphenyl	56	27-113	54	27-113	51	27-113	51	27-113	52	27-113	58	27-113
2,4,6-Tribromophenol	62	24-130	65	24-130	63	24-130	68	24-130	60	24-130	70	24-130
Terphenyl-d14	68	19-115	66	19-115	72	19-115	74	19-115	67	19-115	74	19-115

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL x Dilution Factor
NA = Not Analyzed

Approved/Reviewed By: Co. Persaud
Compton Persaud
Department Supervisor

Date: 04/24/00

The cover letter is an integral part of this analytical report.