

ENVIRONMENTAL
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SITE INVESTIGATION REPORT

FOR

HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA

1/96

PREPARED FOR

CALTRANS DISTRICT 4
P.O. BOX 23660
OAKLAND, CALIFORNIA

PREPARED BY

GEOCON ENVIRONMENTAL CONSULTANTS
SACRAMENTO, CALIFORNIA

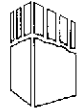
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 04-5T9000-01

GEOCON PROJECT NO. S8100-06-34

JANUARY 1996

GEOCON

Environmental Consultants Inc.



GEOTECHNICAL ENGINEERING AND ENVIRONMENTAL SCIENCES

Project No. S8100-06-34
January 23, 1996

California Department of Transportation
P.O. Box 23660
Oakland, California 94623

Attention: Mr. Ronald Dong

Subject: HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA
CONTRACT NO. 53W202
TASK ORDER NO. 04-5T9000-01
SITE INVESTIGATION REPORT

Dear Mr. Dong:

In accordance with Caltrans Contract No. 53W202 and Task Order No. 04-5T9000-01, Geocon Environmental Consultants has performed environmental engineering services at the subject site. This report summarizes the services performed including the drilling and sampling of soil borings, the installation of groundwater monitoring wells, and the collection and chemical analysis of soil and groundwater samples.

If you have any questions concerning the contents of this site investigation report, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS

Handwritten signature of Richard H. Walls in black ink.

Richard H. Walls, PE
Task Order Manager

Handwritten signature of Ian P. Moorhead in black ink.

Ian P. Moorhead
Project Geologist

IPM/RHW:mc

(5) Addressee

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1.0 INTRODUCTION

1.1 General Objectives

The objective of this Task Order was to provide information regarding the vertical and lateral extent of petroleum hydrocarbon soil and groundwater impacts in the vicinity of former gasoline and diesel underground storage tanks (USTs) at the project site. The site investigation work completed by Geocon was performed in general accordance with the Site Investigation Workplan dated September 7, 1995. The work requested by Caltrans consisted of the drilling and construction of five groundwater monitoring wells and the drilling of six soil borings to evaluate the current site conditions relative to potential soil and groundwater hydrocarbon impacts.

1.2 Project Location

The project site consists of the former Caltrans Hegenberger Maintenance Station. The site was utilized as a maintenance facility by Caltrans and the facility operated gasoline and diesel USTs for the refueling of maintenance vehicles. The USTs and the associate piping and pump island were removed from the site in September 1994. The site is currently inactive and is being utilized as a vehicle storage area by the adjacent General Motors Corporation Truck Center facility.

The project site is located east of Route 880 at 555 Hegenberger Road, Oakland, California. The approximate site location is depicted on the Vicinity Map, Figure 1. The site boundaries and current site improvements are shown on the Site Plan, Figure 2.

1.3 Previous Investigations

Between September 19, 1994 and September 22, 1994, four underground storage tanks (USTs) and the associated product piping and pump island were removed from the site under the supervision of GHH Engineering Incorporated (GHH). The USTs consisted of two 2,000-gallon diesel USTs and two 6,500-gallon gasoline USTs. At the direction of the Alameda County Environmental Health Department, GHH collected eight soil samples (TE1 through TE8) from the UST excavation and two soil samples (PI1 and PI2) beneath the pump island. Analytical results from the UST removal soil sampling are summarized on Table 1.

The excavation soil samples (TE1 through TE8) were collected at depths ranging from 2.4 to 5.5 meters (8 to 18 feet) below ground surface (bgs). Total petroleum hydrocarbon as gasoline (TPHg) concentrations ranged from below test method detection limits to 480 milligrams per kilogram (mg/kg), with the highest concentration detected in sample TE8 at a depth of 2.4 meters (8 feet) bgs. Total petroleum hydrocarbon as diesel (TPHd) was detected in samples TE1 and TE3 at concentrations of 27 mg/kg and 11 mg/kg, respectively. Samples TE1 through TE8 all contained oil and grease (O&G) with

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concentrations ranging from 70 mg/kg to 1,900 mg/kg. The highest O&G concentration was detected in sample TE1 at a depth of 2.4 meters (8 feet) bgs.

The pump island soil samples (PI1 and PI2) were collected at a depth of 1.2 meters (4 feet) bgs. Sample PI1, contained TPHd and O&G at concentrations of 380 mg/kg and 2,200 mg/kg, respectively.

Approximately 214 cubic meters (280 cubic yards) of stockpiled soil was transported for disposal to the BFI Vasco Road Landfill, a Class III facility, in Livermore, California.

2.0 SCOPE OF SERVICES

Outlined below is a summary of the scope of services performed by Geocon under Task Order 04-5T9000-01.

- A pre-work site visit was conducted on July 5, 1995, with the Caltrans contract manager, Mr. Ron Dong. At the pre-work site visit, the work areas were inspected and the Site Visit Checklist and Completion Schedule were discussed and signed by the Geocon project manager and the Caltrans contract manager.
- Obtained a well permit (Permit No. 95458) dated July 26, 1995 from the Alameda County Flood Control and Water Conservation District. A copy of the well permit is attached in Appendix A.
- Prepared a Health and Safety Plan dated September 11, 1995, to provide guidelines on the use of personal protective equipment (PPE) and the health and safety procedures to be implemented during the field activities.
- Contacted the local public utilities via Underground Service Alert (Ticket No. 206779), to attempt to delineate subsurface public utilities and conduits in proximity to the boring/well locations.
- Retained a licensed drilling subcontractor, West Hazmat Drilling, to drill six soil borings (BH1 through BH6) to depths of 6.1 meters (20 feet) bgs utilizing a truck-mounted drill rig equipped with 203.2-millimeter (eight-inch) diameter hollow-stem augers.
- Retained a subcontractor, West Hazmat Drilling, to drill five soil borings to be completed as groundwater monitoring wells (MW1 through MW5). The monitoring wells were advanced to a maximum depth of approximately 6.1 meters (20 feet) bgs utilizing a truck-mounted drill rig equipped with 254-millimeter (10-inch) diameter hollow stem augers.
- Submitted a minimum of two soil samples per boring/well to Sparger Technology, Incorporated (Sparger) for testing of TPHg and TPHd following EPA Test Method 8015 Modified, benzene, toluene, ethylbenzene and total xylenes (BTEX) following EPA Test Method 8020, O&G following EPA Test Method 5520F, and organolead.
- Developed the wells using a surge block to densify the sand pack prior to placement of the bentonite seal. The groundwater monitoring wells were developed by using an electric pump to withdraw groundwater and remove sediment that may have infiltrated the wells during construction.
- Surveyed the top of casing elevations for the groundwater monitoring wells relative

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to an arbitrary onsite datum.

- Measured the depths to groundwater and collected groundwater samples from groundwater monitoring wells MW-1 through MW-5.
- Submitted five groundwater samples to Sparger for chemical analyses of TPHg, TPHd, and TPH as motor oil (TPHmo) following EPA Test Method 8015 Modified, BTEX following EPA Test Method 8020, and O&G following EPA Test Method 5520F.

3.0 INVESTIGATIVE METHODS

3.1 Drilling and Soil Sample Collection

Six soil borings (BH1 through BH6) were advanced to depths of 6.1 meters (20 feet) bgs in an attempt to define the vertical and lateral extent of petroleum hydrocarbon impacts to soil surrounding the former UST excavation. Boring BH1 was located within the former UST excavation and boring BH6 was located within the former pump island to aid in determining the maximum petroleum hydrocarbon concentrations in soil beneath the former UST excavation and pump island, respectively.

Five additional borings were advanced to 6.1 meters (20 feet) bgs and completed as groundwater monitoring wells (MW1 through MW5). The groundwater monitoring wells were installed in order to evaluate the groundwater flow direction and gradient, to assess the groundwater quality, and to attempt to define the lateral limits of potential groundwater impacts in the vicinity of the former USTs. The locations of the soil borings, groundwater monitoring wells, and the UST removal soil samples are depicted on Figure 3, Soil Boring and Well Locations.

Soil samples were collected at approximate 1.5 meter (five foot) vertical intervals utilizing a 50.8-mm (two-inch) diameter split spoon sampler equipped with 152.4-mm-long by 50.8-mm (six-inch-long by two-inch) diameter stainless steel sample tubes to facilitate sample handling and storage. The borings were logged under the supervision of a California Certified Engineering Geologist utilizing the Unified Soil Classification System. The sample tubes were capped, labeled and chilled pending transport to an analytical laboratory. Soil samples were field screened with a photo-ionization detector (PID) to obtain a qualitative indication of the presence of volatile organic compounds within the sample matrix. The soil sample locations and PID readings are recorded on the attached boring/well logs presented in Appendix B. Drill cuttings generated from the drilling operations were stored onsite in DOT 17-H 55-gallon drums pending the receipt of analytical data and subsequent disposal following regulatory protocol.

Quality assurance/quality control procedures provided during the field exploration activities included cleansing/rinsing of the sampling equipment and steam cleaning the augers between borings. Cleansing/rinsing of the sampling equipment was performed 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.

3.2 Monitoring Well Construction

MW-1 through MW-5 were installed to a depth of approximately 6.1 meters (20 feet) bgs. The monitoring wells were constructed using 101.6-mm (four-inch) diameter Schedule 40 polyvinyl chloride (PVC) casing. The lower portion of the well was constructed using 4.0 meters (15 feet) of 0.5-mm (0.020-inch) slotted screen PVC casing placed between the

approximate depths of 1.5 to 6.1 meters (5 to 20 feet) bgs.

A filter pack consisting of No. 3 Monterey sand was placed around the screen from the bottom of the boring to an elevation of 0.3 meters (one foot) above the screen zone. A 0.6 meter (two foot) thick seal consisting of hydrated bentonite chips was placed above the filter pack. A 304.8-mm (twelve-inch) diameter, traffic-rated security wellhead cover set in a concrete pad was used to complete construction. Well construction details are recorded on the boring/well logs presented in Appendix B.

3.3 Well Survey

The location for the nearest City of Oakland benchmark was obtained from the Department of Public Works (DPW). Benchmark 1661A was to be located west of the site in a Pacific Gas and Electric (PG&E) right-of-way along the I-880 onramp, however, this benchmark could not be located. Therefore, the top of casing elevations were surveyed by a Geokon Registered Engineer relative to an onsite datum point of 100 feet. The well casing relative elevations are included on Table 2.

3.4 Well Development and Groundwater Sampling

The monitoring wells were developed using a surge block to densify the sand pack prior to placement of the bentonite seal. Pumping to remove sediment and groundwater was accomplished using a 50.8-mm (two-inch) diameter Grundfos electric submersible pump. A depth to groundwater measurement was obtained from each monitoring well prior to well purging. Groundwater depth measurements were obtained using a battery operated water level meter with measurements obtained from the top of each well casing.

Prior to groundwater collection, three to five well volumes of groundwater were purged to allow fresh formation water to infiltrate the wells. MW-5 was purged dry and was determined to be a slow recharging well, therefore, only two well volumes were purged. During purging, the Ph, temperature, and electrical conductivity of the groundwater was measured and the purging was considered adequate when these parameters stabilized to within ten percent.

Groundwater samples were collected utilizing disposable polyethylene bailers. The samples were placed in laboratory provided volatile organics analysis (VOA) vials and one-liter amber bottles, labeled, chilled, and delivered to a California certified hazardous waste testing laboratory, following standard chain-of-custody procedures. Well development and purged groundwater was placed in DOT 17-H 55-gallon drums and stored onsite pending the receipt of analytical data and subsequent disposal following regulatory protocol.

3.5 Laboratory Analytical Methods

Soil samples were submitted for the analyses of TPHg and TPHd following EPA Test

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Method 8015 modified, BTEX following EPA Test Method 8020, O&G following EPA Test Method 5520F, and organolead. Groundwater samples were tested for TPHg, TPHd, and TPHmo following EPA Test Method 8015 modified, BTEX following EPA Test Method 8020, and O&G following EPA Test Method 5520F.

4.0 INVESTIGATIVE RESULTS

4.1 Site Geology

Soils encountered during the drilling operations consisted of fill material overlying silty clay and clay alluvial deposits that extend to depths of approximately 3.7 meters (12 feet) bgs which overly stratigraphic units of silty sands, clayey sands, and clayey gravels to the maximum depth drilled of 6.1 meters (20 feet) bgs. Generalized east-west and north-south trending geological cross sections A-A' and B-B', respectively, are presented as Figure 4. Copies of boring logs and well completion diagrams are included in Appendix B.

4.2 Site Hydrogeology

The depths to groundwater measured within the investigation area on October 11, 1995 ranged from 1.96 to 2.01 meters (6.42 to 6.88 feet) bgs. The groundwater flow direction was towards the north with a gradient of 0.007. A site plan depicting groundwater elevation contours and the groundwater flow direction and gradient is presented as Figure 5.

4.3 Soil Analytical Results

TPHg was detected in soil sample MW5-5 at a depth of 1.8 meters (6 feet) bgs with a concentration of 1.6 mg/kg. TPHg was not detected in any of the other soil samples collected during the investigation. TPHd noted as "weathered diesel" was detected at 1.8 and 3.4 meters (6 and 11 feet) bgs in BH6 at concentrations of 24 mg/kg and 16 mg/kg, respectively. TPHd was not reported in the other soil borings or well locations, however, four soil samples were reported to contain petroleum hydrocarbons in the motor oil range with concentrations of 58 mg/kg (BH3-5), 41 mg/kg (MW2-5), 7.5 mg/kg (MW4-10), and 20 mg/kg (MW5-5). O&G was detected in borings BH3, BH4, BH6, MW2, MW4 and MW5 at concentrations ranging from 55 mg/kg (BH4 at 3.0 meters [10 feet] bgs) to 80 mg/kg (BH6 at 1.5 meters [5 feet] bgs).

Soil analytical results for this investigation are summarized on Table I with TPHg, TPHd and O&G data depicted on Cross Sections A-A' and B-B' (Figure 4). Laboratory reports and chain-of-custody records are presented in Appendix C.

4.4 Groundwater Analytical Results

Groundwater samples were collected from the five new monitoring wells and were tested for TPHg, TPHd, TPHmo, BTEX, and O&G. Groundwater analytical data from this site investigation is summarized on Table II. Concentrations of petroleum hydrocarbons in groundwater are presented on Figure 6. Laboratory reports and chain-of-custody records are presented in Appendix D.

TPHd, TPHmo, and O&G were not detected above the test method detection limits in

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groundwater during this investigation. TPHg, TPHd, TPHmo, and O&G were not detected above the test method detection limits in cross-gradient well MW-2.

TPHg and BTEX were detected in four monitoring wells (MW-1 and MW-3 through MW-5). TPHg concentrations ranged from 720 micrograms per liter (ug/L) in MW-1 to 1,300 ug/L in downgradient well MW-3. BTEX concentrations ranged from 1.0 ug/L to 660 ug/L benzene, below detection to 15 ug/L toluene, below detection to 4.7 ug/L ethylbenzene, and below detection to 6.1 ug/L total xylenes, respectively.

5.0 DATA EVALUATION AND DISCUSSION

The initial soil samples collected beneath the former USTs and pump island contained petroleum hydrocarbons as O&G with maximum concentrations of 1,900 mg/kg beneath the former USTs and 2,200 mg/kg beneath the former pump island. The maximum concentrations of TPHg and TPHd detected beneath the former USTs or pump island were 480 mg/kg and 380 mg/kg, respectively. The absence of detectable TPHg and TPHd in all borings excluding MW5 and BH6 indicates that gasoline and diesel fuel impacted soil is limited to the immediate vicinity of the former excavation (UST and pump island) sidewalls and/or bases.

Test results from EPA Test Method 5520F reported O&G at soil concentrations ranging from 65 to 80 mg/kg. A review of the laboratory reports for the EPA 8015 analyses for TPHd indicates that motor oil range hydrocarbons were quantified in only three soil samples at concentrations ranging from 7.5 to 41 mg/kg. The differences in the range of hydrocarbon concentrations reported via each of these test methods suggests that the majority of the hydrocarbons in soil reported as O&G may be naturally occurring organics associated with the clay based alluvium beneath the site. The similarities in the magnitude of the O&G concentrations reported in soil also support this observation. A plume of motor oil range petroleum hydrocarbons in soil would normally be represented by a much wider range of concentrations with the impacts increasing in magnitude at locations closer toward the known source location. These characteristics do not exist for the O&G concentrations reported.

TPHg and BTEX were detected in groundwater sampled from wells MW1 and MW3 through MW-5. The highest detectable TPHg was reported in well MW3 at a concentration of 1,300 ug/L. The highest detectable benzene was reported in well MW1 at a concentration of 660 ug/L; however the reported TPHg concentration reported for MW1 was 720 ug/L which appears anomalously low given the reported benzene value for MW1. TPHg and benzene in groundwater is not delineated in the north, west and south directions leading away from the former USTs.

TPHd and O&G were not reported in groundwater at detection limits of 50 ug/L and 5,000 ug/L, respectively. In addition, motor oil range hydrocarbons were not reported in the TPHd analyses, further supporting the observation that the majority of the O&G reported in soil may be naturally occurring organic matter.

** Then pass thru silica gel before analysis*

6.0 CONCLUSIONS

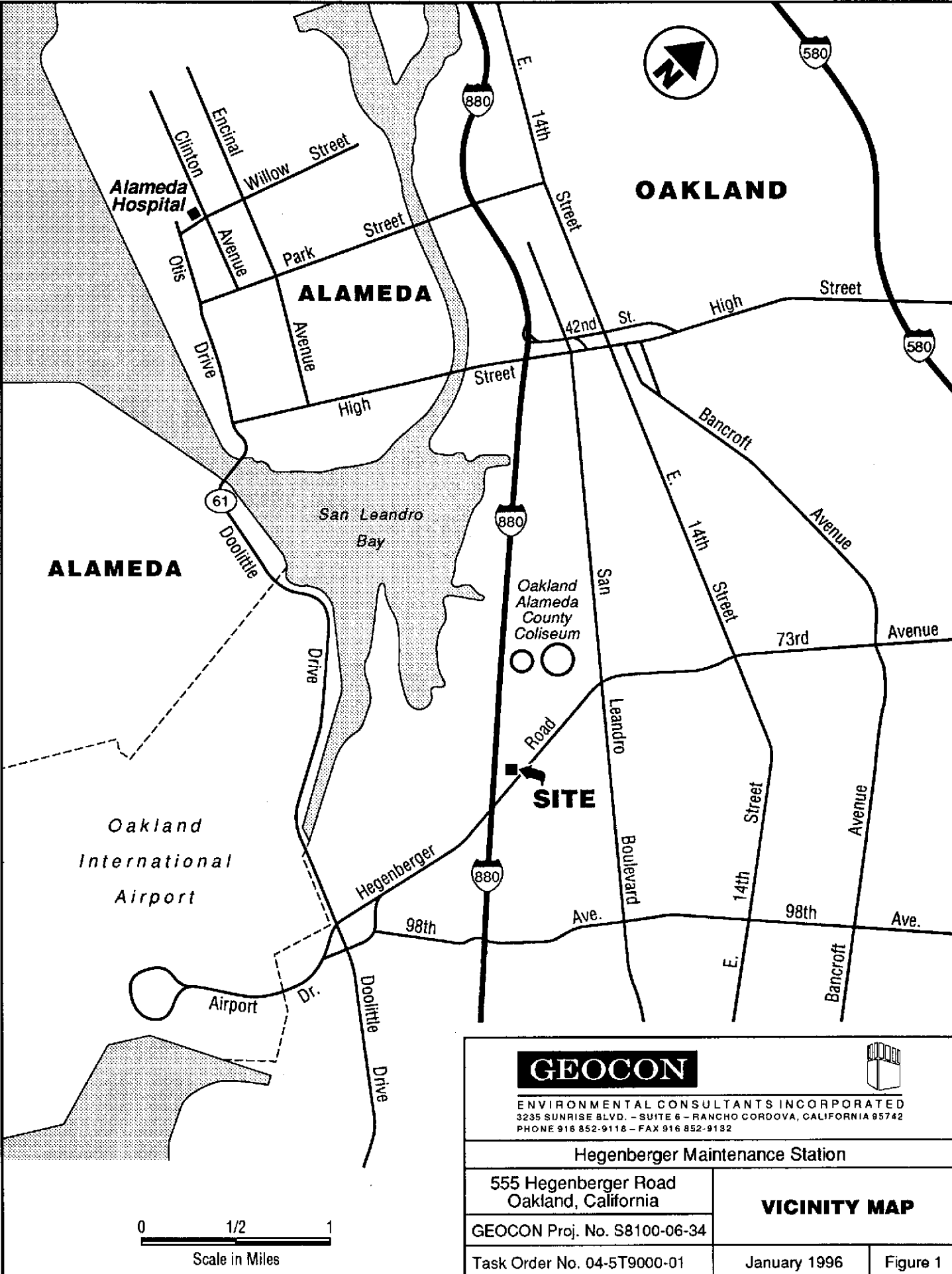
Utilizing the data acquired during the site investigation, a summary of the soil and groundwater conditions beneath the site as of October 1995 is presented below:

- Soil samples collected from native soil at the perimeter of the UST excavation indicated that releases of petroleum hydrocarbons into the surrounding soils had occurred. The initial UST removal soil samples contained TPHg and O&G at maximum concentrations of 480 mg/kg and 1,900 mg/kg, respectively.
- Soil analytical data obtained from the 11 borings drilled indicate that a limited amount of soil in the immediate vicinities of the former USTs and pump island is impacted with gasoline and motor oil range hydrocarbons.
- Evaluation of the distribution of the reported O&G concentrations in soil combined with a comparison of the O&G and TPHd analytical data suggests that the reported O&G may be naturally occurring organic matter.
- Groundwater exits beneath the project boundaries at a depth of approximately 2.05 meters (6.75 feet) bgs with a general flow direction towards the north-northwest at a gradient of 0.007.
- Groundwater quality data indicates that dissolved TPHg and benzene exist beneath the site at maximum reported concentrations of 1,300 ug/L TPHg and 660 ug/L benzene, respectively.
- Based on the absence of detectable TPHd and O&G in groundwater, it appears that the motor oil impacted soil that remains at the bases of the UST and pump island excavations have not affected groundwater quality beneath the site.
- The lateral limits of dissolved TPHg and benzene in groundwater have not been delineated in the north, west and south directions leading away from the former USTs.
- Additional investigation would be required to further delineate the lateral extent of TPHg and benzene impacted groundwater. The installation of four or five additional groundwater monitoring wells is recommended to attempt to establish the lateral extent of groundwater impacts.

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7.0 RECOMMENDATIONS

Geocon recommends that additional site investigation be performed at the site to establish the lateral extent of TPHg and benzene impacts to groundwater. The installation of five additional groundwater monitoring wells is recommended to attempt to establish the lateral extent of hydrocarbon impacts to groundwater. It is also recommended that quarterly groundwater monitoring be performed to evaluate changes in the groundwater flow direction and changes in the distribution of dissolved TPHg in groundwater.



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Hegenberger Maintenance Station

555 Hegenberger Road
 Oakland, California

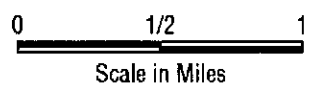
VICINITY MAP

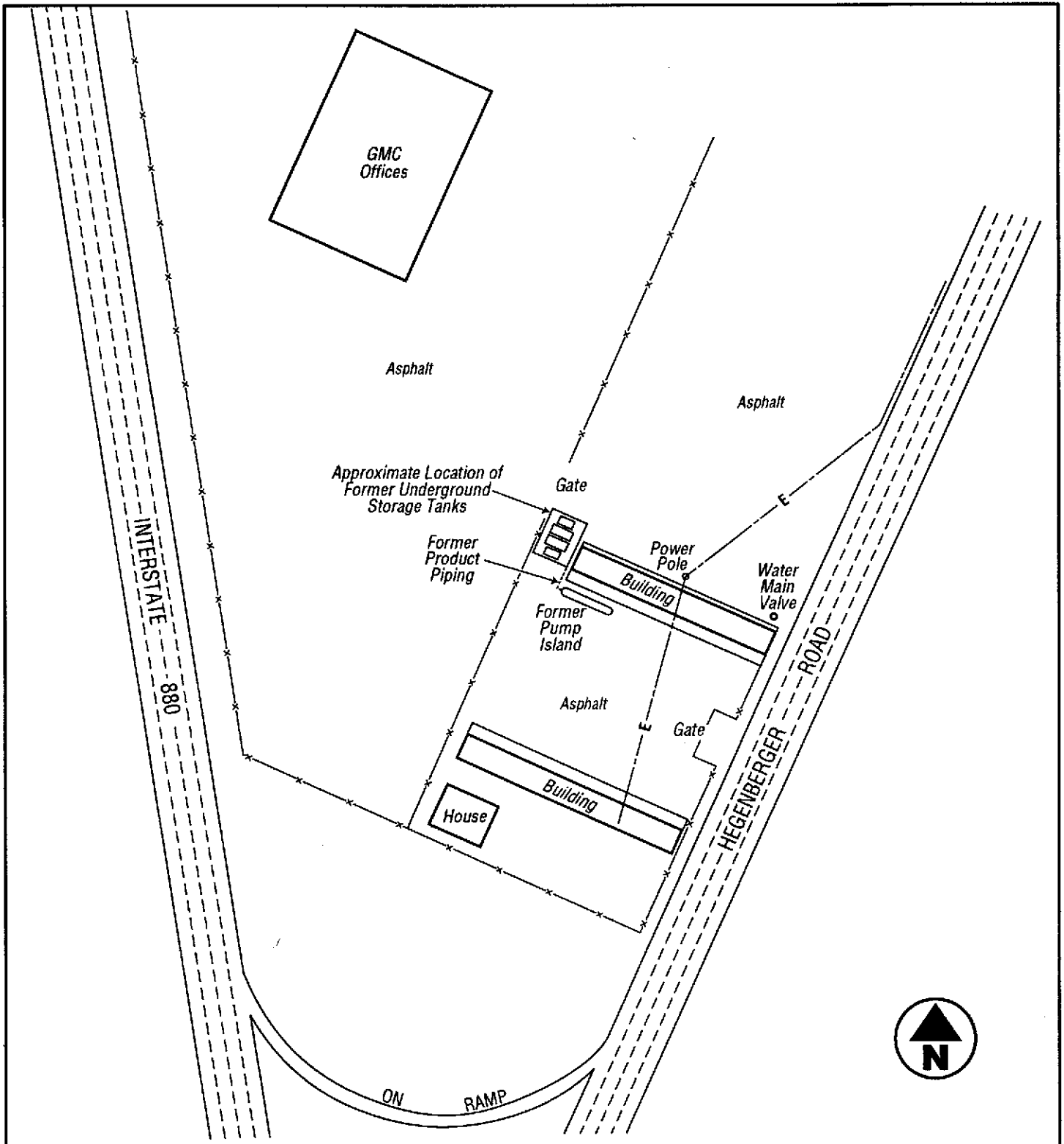
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January 1996

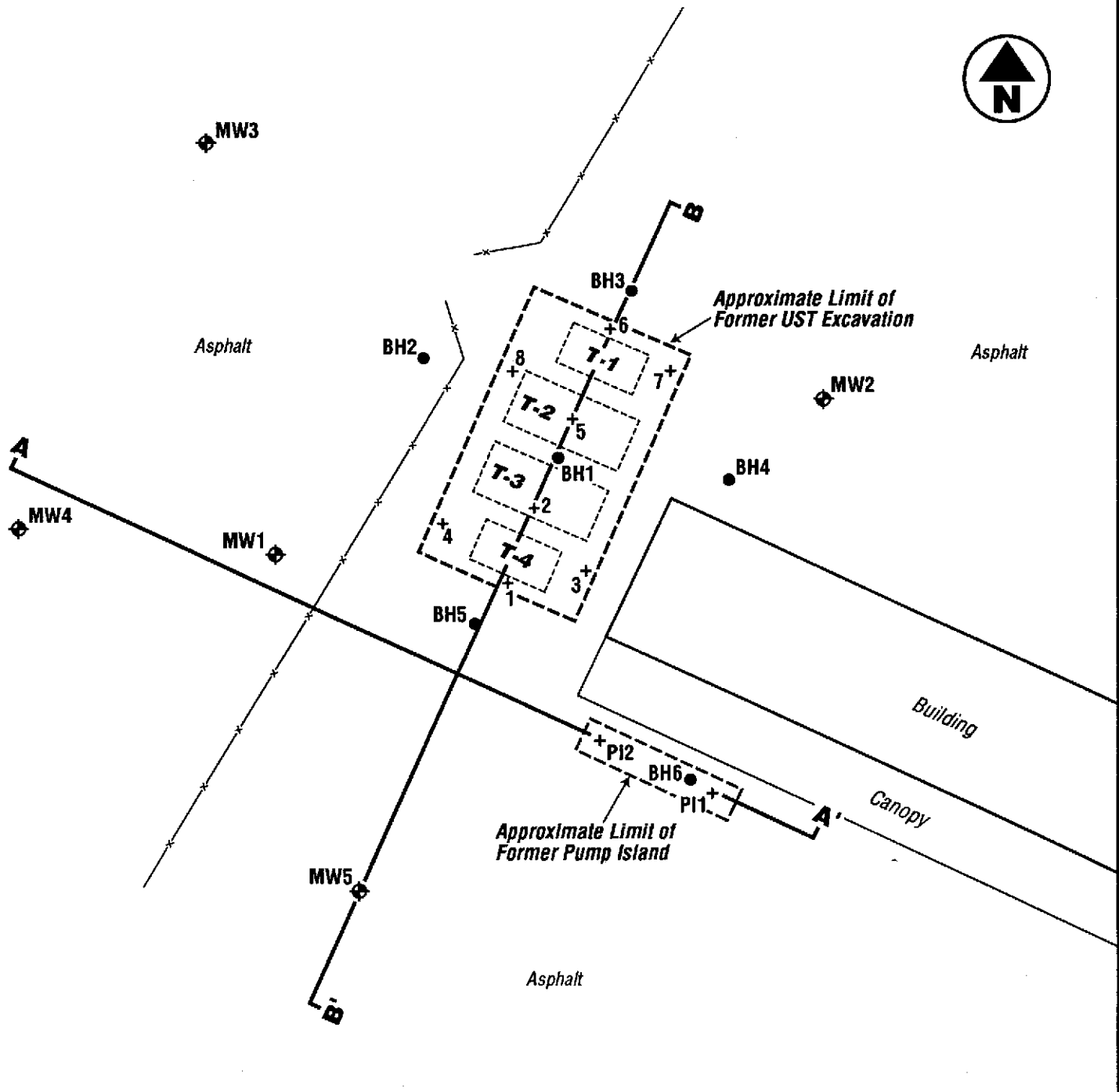
Figure 1





NOT TO SCALE

 <small>ENVIRONMENTAL CONSULTANTS INCORPORATED 3235 SUNRISE BLVD. - SUITE 6 - RANCHO CORDOVA, CALIFORNIA 95742 PHONE 916 852-9118 - FAX 916 852-9132</small>		
Hegenberger Maintenance Station		
555 Hegenberger Road Oakland, California		SITE PLAN
GEOCON Proj. No. S8100-06-34		
Task Order No. 04-5T9000-01	January 1996	Figure 2



LEGEND:



Location of Former UST



Approximate Location of UST & Product Line Removal Grab Soil Samples, GHH Engineering, Sept. 94



Location of Soil Boring, GEOCON, Sept. 95



Location of Groundwater Monitoring Well, GEOCON, Sept. 95



Cross Section A - A'



Cross Section B - B'



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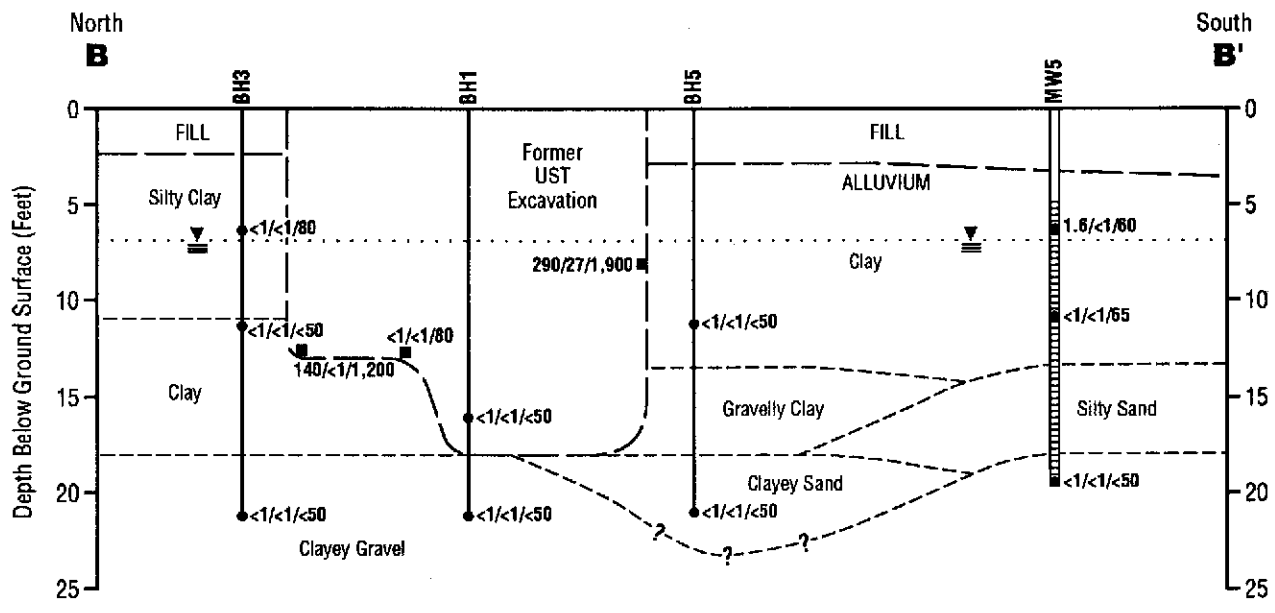
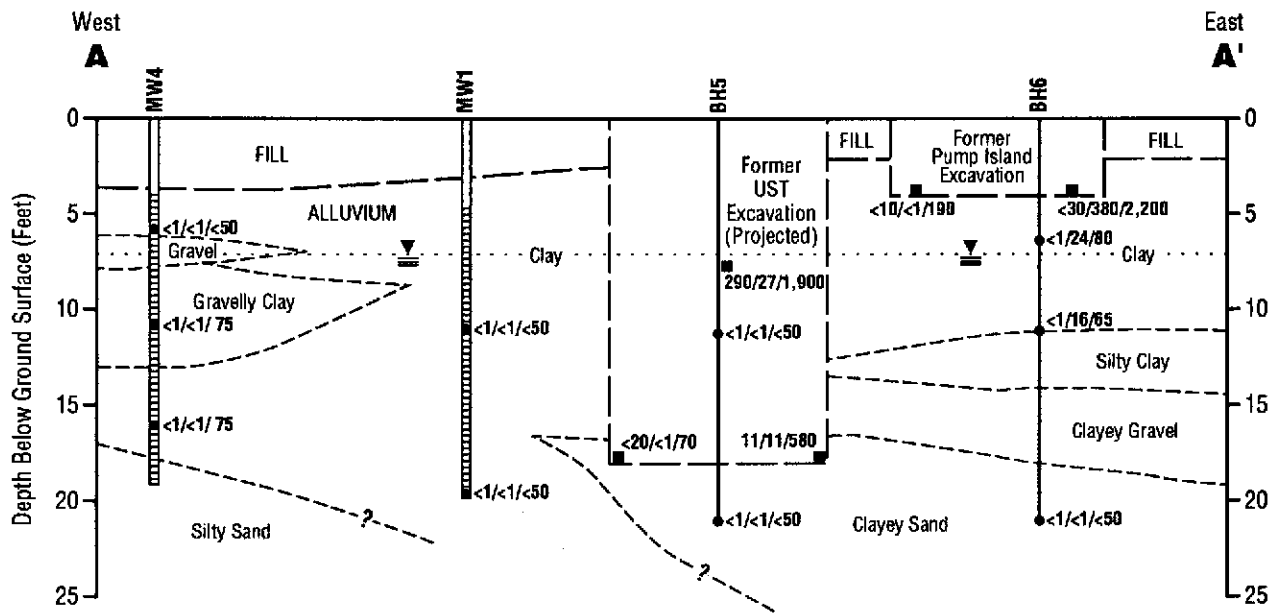
SOIL BORING AND WELL LOCATIONS

GEOCON Proj. No. S8100-06-34

Task Order No. 04-5T9000-01

January 1996

Figure 3



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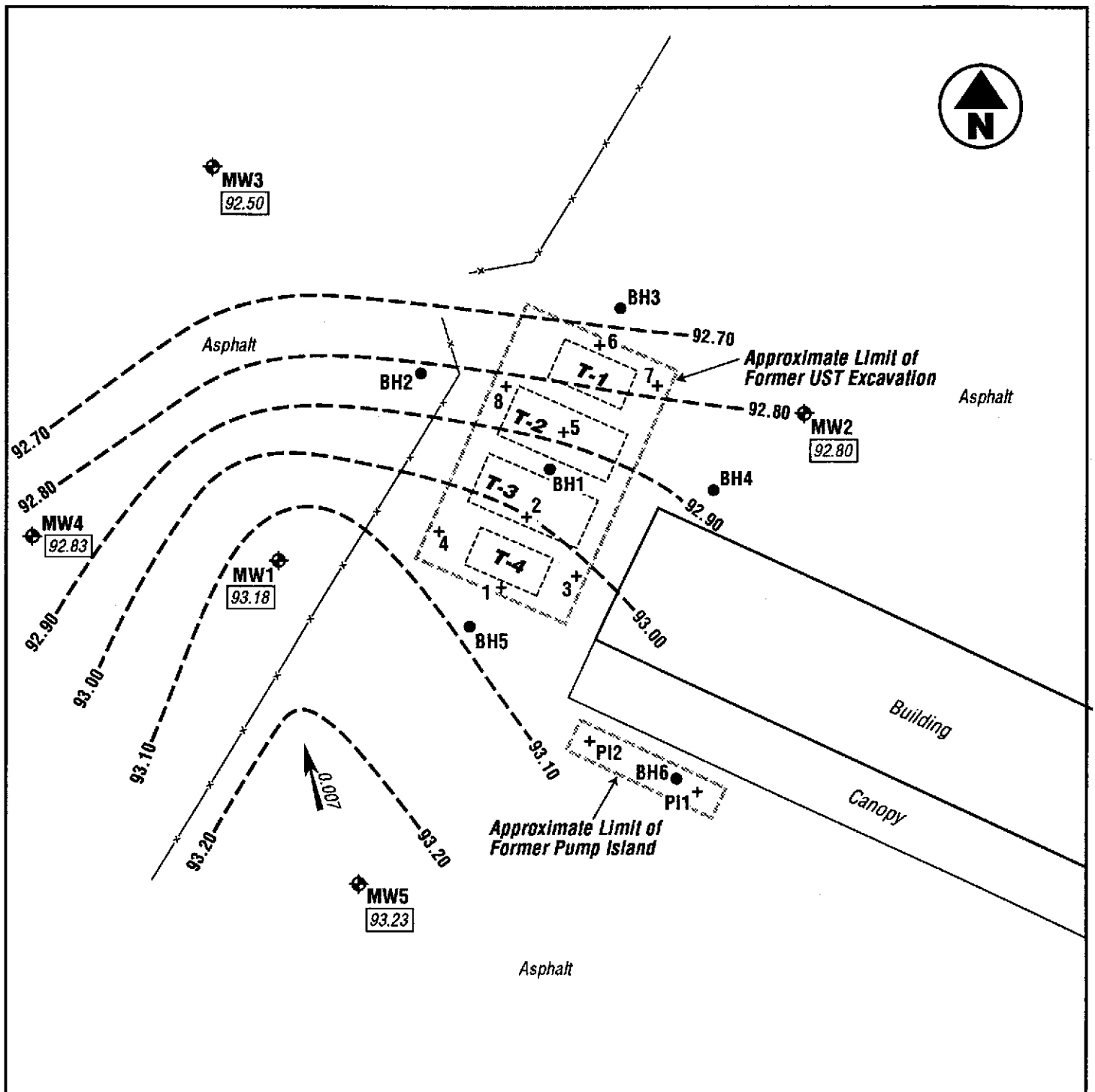
- Boring Location
 - Concentration of TPHg/TPHd/O & G in Mg/Kg (ppm)
 - Excavation Grab Soil Sample Location
 - Approximate Depth to Groundwater
 - Approximate Geologic Contact
 - Approximate Stratigraphic Contact
- TPHg = Total Petroleum Hydrocarbons as Gasoline
 TPHd = Total Petroleum Hydrocarbons as Diesel
 O & G = Oil & Grease

Scale: 1" = 20' (Horizontal)
 1" = 10' (Vertical)

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Hegenberger Maintenance Station		
555 Hegenberger Road Oakland, California		CROSS SECTIONS A-A' / B-B'
GEOCON Proj. No. S8100-06-34		
Task Order No. 04-5T9000-01	January 1996	Figure 4

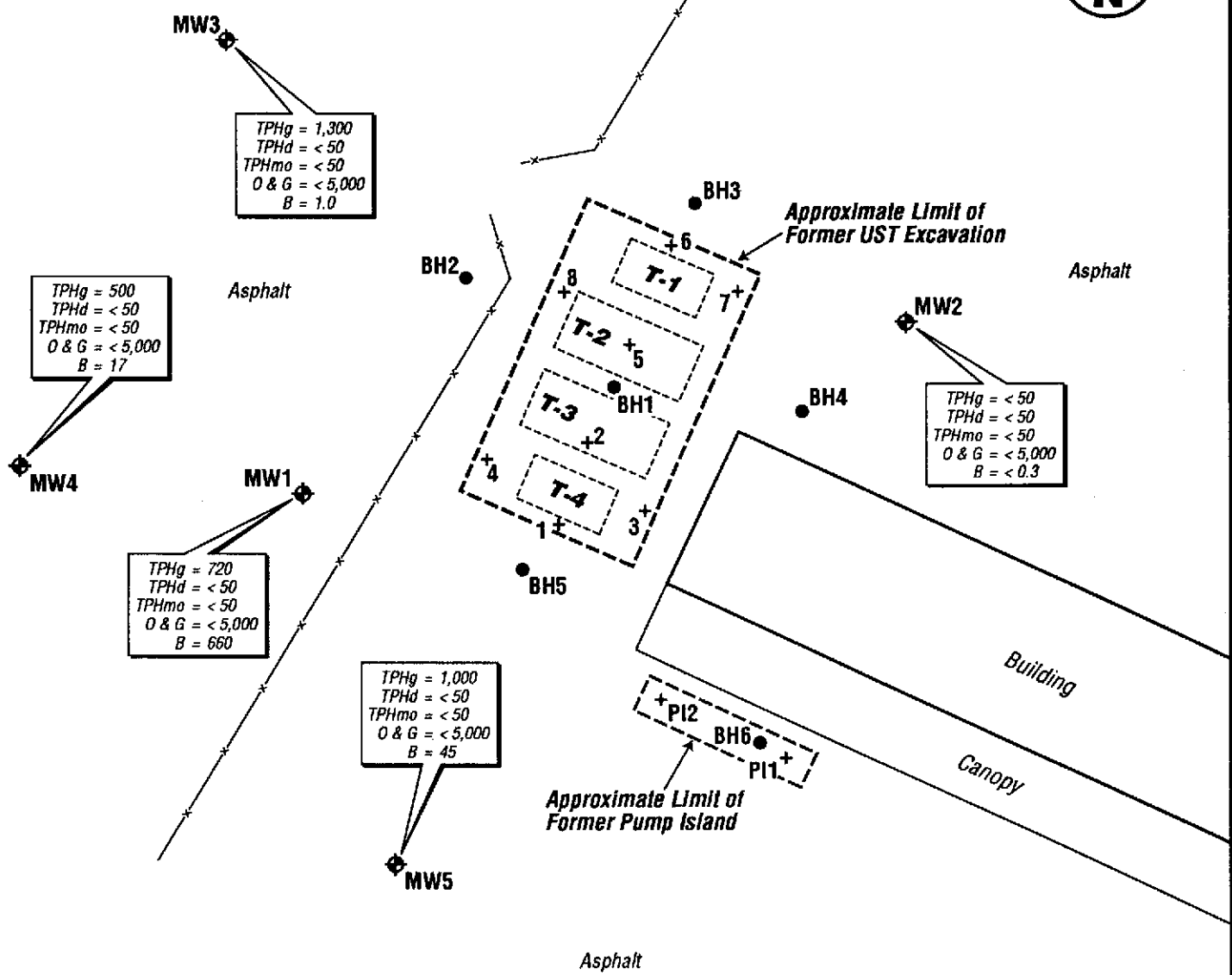


LEGEND:

- Location of Former UST
- 1+ Approximate Location of UST & Product Line Removal Grab Soil Samples, GHH Engineering, Sept. 94
- BH1 ● Location of Soil Boring, GEOCON, Sept. 95
- MW1 ◆ Location of Groundwater Monitoring Well, GEOCON, Sept. 95
- Groundwater Elevation Contour (Interval = 0.1 Ft.)
- 93.18 Relative Elevation of Groundwater Measured 10/11/95
- ↖ *0.007* Approximate Groundwater Gradient



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Hegenberger Maintenance Station		
555 Hegenberger Road Oakland, California		GROUNDWATER ELEVATION MAP - 10/11/95
GEOCON Proj. No. S8100-06-34		
Task Order No. 04-5T9000-01	January 1996	Figure 5



LEGEND:



Location of Former UST



Approximate Location of UST & Product Line Removal Grab Soil Samples, GHH Engineering, Sept. 94



Location of Soil Boring, GEOCON, Sept. 95



Location of Groundwater Monitoring Well, GEOCON, Sept. 95

TPHg = Total Petroleum Hydrocarbons as Gasoline
 TPHd = Total Petroleum Hydrocarbons as Diesel
 TPHmo = Total Petroleum Hydrocarbons as Motor Oil
 O & G = Oil & Grease
 B = Benzene

All Concentrations in Micrograms Per Liter (ppb)



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Hegenberger Maintenance Station

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**PETROLEUM
 HYDROCARBONS
 IN GROUNDWATER-
 10/11/95**

GEOCON Proj. No. S8100-06-34

Task Order No. 04-5T9000-01

January 1996

Figure 6

TABLE I
 SUMMARY OF SOIL ANALYTICAL LABORATORY RESULTS
 HEGENERBERGER MAINTENANCE STATION
 OAKLAND, CALIFORNIA
 TASK ORDER NO. 04-5T9000-01
 PAGE 1 OF 2

SAMPLE ID	DATE	DEPTH (feet)	TPHg (mg/kg)	TPHd (mg/kg)	O&G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	LEAD (mg/kg)	ORGANIC LEAD (mg/kg)	COMMENTS
PI-1	09/22/94	4.0	<20	380	2,200	<0.10	<0.10	0.18	<0.10	13	---	PI
PI-2	09/22/94	4.0	<10	<1.0	190	0.076	<0.05	<0.05	<0.05	13	---	PI
TE-1	09/22/94	8.0	290	27	1,900	2.0	<0.5	0.74	1.2	18	---	UST/GHH
TE-2	09/22/94	18.0	<1.0	<1.0	200	<0.005	<0.005	<0.005	<0.005	12	---	UST/GHH
TE-3	09/22/94	18.0	11	11	580	0.03	0.014	0.020	0.022	8.8	---	UST/GHH
TE-4	09/22/94	18.0	<20	<1.0	70	<0.10	<0.10	<0.10	<0.10	7.6	---	UST/GHH
TE-5	09/22/94	13.0	<1.0	<1.0	80	<0.005	<0.005	<0.005	<0.005	9.5	---	UST/GHH
TE-6	09/22/94	13.0	140	<1.0	1,200	0.13	<0.10	0.51	0.30	11	---	UST/GHH
TE-7	09/22/94	8.0	400	<1.0	530	0.83	<0.50	0.62	1.2	14	---	UST/GHH
TE-8	09/22/94	8.0	480	<1.0	100	1.8	0.51	7.6	8.7	8.9	---	UST/GHH
BH1-15	09/26/95	16.0	<1.0	<1.0	<50	<0.005	<0.005	0.006	0.021	---	<5.0	GEOCON
BH1-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH2-10	09/26/95	11.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH2-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH3-5	09/26/95	6.0	<1.0	<1.0 ^a	80	<0.005	<0.005	<0.005	<0.005	---	---	GEOCON
BH3-10	09/26/95	11.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH3-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH4-10	09/26/95	11.0	<1.0	<1.0	55	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH4-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH5-10	09/26/95	11.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH5-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH6-5	09/26/95	6.0	<1.0	24 ^b	80	<0.005	<0.005	<0.005	<0.005	---	---	GEOCON
BH6-10	09/26/95	11.0	<1.0	16 ^b	65	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
BH6-20	09/26/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW1-10	09/27/95	11.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW1-20	09/27/95	19.5	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW2-5	09/27/95	6.0	<1.0	<1.0 ^c	75	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW2-20	09/27/95	21.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW3-8	09/27/95	7.5	<1.0	<1.0	<50	0.012	<0.005	<0.005	<0.005	---	---	GEOCON
MW3-10	09/27/95	11.0	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW3-20	09/27/95	21.0	<1.0	<1.0	<50	0.030	0.028	0.030	0.058	---	<5.0	GEOCON

TABLE I
 SUMMARY OF SOIL ANALYTICAL LABORATORY RESULTS
 HEGENBERGER MAINTENANCE STATION
 OAKLAND, CALIFORNIA
 TASK ORDER NO. 04-5T9000-01
 PAGE 1 OF 2

SAMPLE ID	DATE	DEPTH (feet)	TPHg (mg/kg)	TPHd (mg/kg)	O&G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	LEAD (mg/kg)	ORGANIC LEAD (mg/kg)	COMMENTS
MW4-5	09/27/95	5.5	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	---	GEOCON
MW4-10	09/27/95	11.0	<1.0	<1.0 ^d	75	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW4-15	09/27/95	16.0	<1.0	<1.0	75	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW5-5	09/27/95	6.0	1.6	<1.0 ^e	60	<0.005	0.020	0.028	0.088	---	---	GEOCON
MW5-10	09/27/95	11.0	<1.0	<1.0	65	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON
MW5-20	09/27/95	19.5	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	---	<5.0	GEOCON

Notes: mg/kg = milligrams per kilogram
 TPHg = total petroleum hydrocarbons as gasoline
 TPHd = total petroleum hydrocarbons as diesel
 O&G = oil and grease
 BTEX = benzene, toluene, ethylbenzene and total xylenes
 < = less than laboratory method detection limit
 --- = not tested
 PI = pump island sample
 UST/GHH = UST excavation sample collected by GHH Engineering
^a = total petroleum hydrocarbons as motor oil (TPHmo) detected at a concentration of 58 mg/kg
^b = weathered TPHd
^c = TPHmo detected at a concentration of 41 mg/kg
^d = TPHmo detected at a concentration of 7.5 mg/kg
^e = TPHmo detected at a concentration of 20 mg/kg

Project No. S8100-06-34
 January 23, 1996

TABLE II
 SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL LABORATORY RESULTS
 HEGENBERGER MAINTENANCE STATION
 OAKLAND, CALIFORNIA
 TASK ORDER NO. 04-5T9000-01
 PAGE 1 OF 1

SAMPLE ID	DATE	TOC ELEVATION	GROUNDWATER DEPTH	GROUNDWATER ELEVATION	TPHg (ug/l)	TPHd (ug/l)	TPHmo (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	O&G (ug/l)
MW-1	10/11/95	99.73	6.55	93.18	720	<50	<50	660	13	4.7	2.8	<5,000
MW-2	10/11/95	99.68	6.88	92.80	<50	<50	<50	<0.3	<0.3	<0.3	<0.3	<5,000
MW-3	10/11/95	98.92	6.42	92.50	1,300 ¹	<50	<50	1.0	<0.3	<0.3	<0.3	<5,000
MW-4	10/11/95	99.46	6.63	92.83	500	<50	<50	17	1.1	<0.3	0.48	<5,000
MW-5	10/11/95	99.91	6.68	93.23	1,000	<50	<50	45	15	1.9	6.1	<5,000

Notes: TOC = top of casing elevation referenced to arbitrary onsite datum
 depths measured in feet
 ug/l = micrograms per liter
 TPHg = total petroleum hydrocarbon as gasoline
 TPHd = total petroleum hydrocarbon as diesel
 TPHmo = total petroleum hydrocarbon as motor oil
 BTEX = benzene, toluene, ethylbenzene and total xylenes
 O&G = oil and grease
¹ = laboratory report notation "weathered gas detected"



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588-5127

Phone (510) 484-2600 Fax (510) 462-3914

26 July 1995

Mr. Richard Walls
Geocon Environmental
3235 Sunrise Boulevard
Rancho Cordova, CA 95742

Dear Mr. Walls:

Enclosed is drilling permit 95458 for a monitoring well construction project at 555 Hegenberger Road in Oakland for Caltrans.

Please note that permit condition A-2 requires that a Well Construction Report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact Wyman Hong at extension 235 or me at extension 233.

Very truly yours,

Craig A. Mayfield
Craig A. Mayfield
Water Resources Engineer III

WH:ab
Enc.

RECEIVED
JUL 31 1995



ZONE WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600
FAX (510) 462-3914

ATTN: Wyman Hong

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 555 Hagenberger Rd
Oakland CA

PERMIT NUMBER 95458
LOCATION NUMBER _____

CLIENT Name Caltrans DISTRICT 4
Address PO Box 23400 Voice Pan Dong 510-286-5631
City Oakland CA Zip 94623-1445

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT Name Geocon Environmental
Richard Walls Fax 916 852 9132
Address 3235 Sunrise Blvd Voice 916 852-9117
City Renoche Carsons CA Zip 95742

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination <input checked="" type="checkbox"/>
Monitoring <input checked="" type="checkbox"/>	Well Destruction

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic Industrial Other
Municipal Irrigation

DRILLING METHOD:

Mud Rotary Air Rotary Hollow Stem Auger
Cable Other

DRIILLER'S LICENSE NO. 552198

WELL PROJECTS

Drill Hole Diameter	<u>10</u> in.	Maximum	
Casing Diameter	<u>4</u> in.	Depth	<u>20</u> ft.
Surface Seal Depth	<u>5</u> ft.	Number	<u>5</u>

GEOTECHNICAL PROJECTS

Number of Borings _____ Maximum Depth _____ ft.
Hole Diameter _____ in.

ESTIMATED STARTING DATE 7/31/95
ESTIMATED COMPLETION DATE 8/2/95

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 26 Jul 95
Wyman Hong

APPLICANT'S SIGNATURE Richard Walls Date 7/12/95

DEPTH IN FEET	PENETRAT. RESIST. BLMS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 1</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)
				DATE DRILLED <u>9/26/96</u>	WATER LEVEL (ATD) <u>17.0'</u>		
				EQUIPMENT <u>MOBILE B-57 HSA</u>	DRILLER <u>HAZMAT</u>		
SOIL DESCRIPTION							
1				3" ASPHALT			
2				Sandy Gravel base material			
3				FILL			
4				Stiff, moist, yellow-brown, Gravelly CLAY (CL)			
5							
6							
7							
8							
9							
10							
11		BH1-10		-No sample			
12		1140					
13				-Becomes gray, strong odor			
14							
15	30	BH1-15		Stiff, very moist, gray, Silty CLAY, trace gravel (CL)			2
16		1145					
17							
18				Dense, wet, brown, fine grained, rounded, poorly graded GRAVEL (GP)			
19				ALLUVIUM			
20	75	BH1-20		Very dense, wet, brown, Clayey, fine to coarse GRAVEL (fine to coarse gravel with clay matrix) (GC)			<1
21		1155					
22				BORING TERMINATED AT 21.5 FEET			
23							
24							

Figure A-1, log of Boring BH 1

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLMS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 2</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED <u>9/26/96</u>	WATER LEVEL (ATD) <u>8.0'</u>			
				EQUIPMENT <u>MOBILE B-57 HSA</u>	DRILLER <u>HAZMAT</u>			
SOIL DESCRIPTION								
1				3" ASPHALT				
2				Sandy GRAVEL base material				
3				ALLUVIUM				
4				Stiff, moist, black, clay, medium to high plasticity (CL)				
5	95	BH2-5		Oil staining - strong odor				
6		1515					1252	
7				Very dense, wet, black, Clayey, fine to coarse GRAVEL (GC)				
8				Strong odor				
9								
10	29	BH2-10					88	
11		1520		Stiff, wet, dark brown to black, CLAY, medium to high plasticity (CL)				
12								
13								
14								
15	34	BH2-15		Medium dense, wet, olive-brown, Clayey, fine grained SAND (SC)			19.5	
16		1525		Very weak odor				
17								
18								
19								
20	27	BH2-20		Medium dense, saturated, olive brown, Silty SAND, trace gravel (SM)			1.0	
21		1530						
22	BORING TERMINATED AT 21.5 FEET							
23								
24								

Figure A-2, log of Boring BH 2

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLMS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 3</u>		WELL CONSTRUCTION	FID HEADSPACE (PPM)	
				DATE DRILLED <u>9/26/95</u>	WATER LEVEL (ATD) <u>9.0'</u>			
				EQUIPMENT <u>MOBILE B-57 HSA</u> DRILLER <u>HAZMAT</u>				
SOIL DESCRIPTION								
1			3" ASPHALT					
2			Sandy GRAVEL base material					
3			ALLUVIUM					
4			Stiff, moist, black, Silty CLAY, strong odor, trace gravel (CL)					
5	16	BH3-5 1335	Oil staining - Strong odor				400	
6								
7								
8			-Higher gravel content (10-20%)					
9			-Becomes wet					
10	22	BH3-10 1340					74	
11			Stiff, wet, gray to olive brown, mottled, CLAY, moderate odor (CL)					
12								
13								
14								
15	17	BH3-15 1345					26	
16			-Very weak odor					
17								
18								
19			Loose, saturated, brown, Clayey, fine to coarse GRAVEL (gravel with clay matrix) (GC)					
20	8	BH3-20 1350					8	
21								
22			BORING TERMINATED AT 21.5 FEET					
23								
24								

Figure A-3, log of Boring BH 3

HBCR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLHS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 4</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED <u>9/28/95</u>	WATER LEVEL (ATD) <u>10.0'</u>			
				EQUIPMENT <u>MOBILE B-87 HSA</u>	DRILLER <u>HAZMAT</u>			
SOIL DESCRIPTION								
1			3" ASPHALT					
2			FILL					
3			Coarse angular GRAVEL, with sand matrix (GP)					
4			ALLUVIUM					
5	8	BH4-5 1420	Stiff, moist, black, CLAY, trace silt, trace gravel, medium to high plasticity (CL) Strong odor				22	
6								
7								
8								
9								
10	22	BH4-10 1425	▼ -Becomes wet -Weak odor				1.0	
11								
12								
13								
14			Dense, wet, yellow-brown, Clayey, fine to coarse GRAVEL (fine to coarse gravel with clay matrix) (GC)					
15	43	BH4-15 1430					<1	
16								
17								
18								
19			Very dense, saturated, brown, poorly graded, fine to coarse GRAVEL, trace silt, clay (GP) (>50% fine gravel)					
20	63	BH4-20 1435					<1	
21								
22			BORING TERMINATED AT 21.5 FEET					
23								
24								

Figure A-4, log of Boring BH 4

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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. S8100-06-34

DEPTH IN FEET	PENETRAT. RESIST. BLKS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 5</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED <u>9/26/95</u>	WATER LEVEL (ATD) <u>18.0'</u>			
				EQUIPMENT <u>MOBILE B-67 HSA</u>	DRILLER <u>HAZMAT</u>			
SOIL DESCRIPTION								
1			3" ASPHALT					
2			Sandy GRAVEL base material					
3			ALLUVIUM					
4			Stiff, moist, black, CLAY, trace gravel, strong odor (CL)					
5	24	BH5-5		-Becomes black and gray, mottled			513	
6		1045		-Higher gravel content (10%)				
7								
8								
9				Stiff, very moist, gray, CLAY, moderate odor (CL)				
10	21	BH5-10					22	
11		1050						
12								
13								
14				Stiff, very moist, yellow-brown, fine to coarse Gravelly CLAY (CL)				
15	55	BH5-15					2.5	
16		1058						
17								
18								
19				Dense, wet, yellow-brown, Clayey, fine to coarse SAND (>50% fine sand) trace gravel (SC)				
20	49	BH5-20					<1	
21		1105						
22	BORING TERMINATED AT 21.5 FEET							
23								
24								

Figure A-5, log of Boring BH 5

HBCR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLMS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>BH 6</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED <u>9/26/95</u>	WATER LEVEL (ATD) <u>8.0'</u>			
				EQUIPMENT <u>MOBILE B-67 HSA</u>		DRILLER <u>HAZMAT</u>		
SOIL DESCRIPTION								
1			3" ASPHALT					
2			Sandy GRAVEL base material					
3			FILL SOIL					
4			Stiff, moist, black, gravelly CLAY, medium high plasticity, strong odor (CL)					
5	11	BH6-5 0938	ALLUVIUM				6	
6			Stiff, moist, black, CLAY, medium high plasticity (CL)					
7			-Oil staining, strong odor					
8			▽					
9			-Becomes wet					
10	31	BH6-10 0945					4	
11			Stiff, saturated, gray, Silty CLAY, trace gravel, strong odor (CL)					
12								
13								
14								
15	60	BH6-15 1000					<1	
16			Stiff, saturated, dark yellow-brown, Clayey, fine to coarse GRAVEL (gravel with clay matrix) weak odor (GC)					
17								
18								
19								
20	65	BH6-20 1005					<1	
21			Very dense, saturated, brown, Clayey, fine to coarse SAND, trace gravel (fine to coarse SAND with clay matrix) (SC)					
22			BORING TERMINATED AT 21.5 FEET					
23								
24								

Figure A-6, log of Boring BH 6

HBCR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL:
DIAMETER & TYPE OF CASING:	WELL SEAL & INTERVAL:
CASING INTERVAL:	WELL SEAL QUANTITY:
WELL SCREEN:	ANNULUS SEAL/INTERVAL: Cement Bent. 0-21.5 ft.
SCREEN INTERVAL:	ADDITIVES:
WELL COVER:	WELL DEPTH:
FILTERPACK/INTERVAL:	ENGINEER/GEOLOGIST: IAN MOORHEAD

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. S8100-06-34

DEPTH IN FEET	PENETRAT. RESIST. BLMS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. MW 1		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED 9/27/95	WATER LEVEL (ATD) 13.0'			
				EQUIPMENT	MOBILE B-57	DRILLER	HAZMAT	
SOIL DESCRIPTION								
1				3" ASPHALT				
2				FILL SOIL				
3				Sandy GRAVEL base material				
4				Medium dense, moist, brown, Clayey, fine to coarse GRAVEL (GC)				
5	40	MW1-5		ALLUVIUM				
6		1015		Stiff, moist, black, CLAY, 10% gravel, medium plasticity, oil staining, strong odor (CL)			1356	
7								
8								
9								
10	13	MW1-10					22	
11		1025		-Becomes very moist, rootlets, very weak odor				
12								
13								
14				Stiff, wet, olive brown, brown mottled CLAY, medium to high plasticity, trace weathered gravel clasts (CL)				
15	18	MW1-15					<1	
16		1035						
17								
18								
19	21	MW1-20					<1	
20		1050						
21	BORING TERMINATED AT 20 FEET							
22								
23								
24								

Figure A-7, log of Boring MW 1

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL: 8 - 100lb Bags
DIAMETER & TYPE OF CASING: 4" Dia. PVC	WELL SEAL & INTERVAL: Bentonite Chips 2-4.0 ft.
CASING INTERVAL: 0 - 4.5 ft.	WELL SEAL QUANTITY: 1.0 - 50lb Bag
WELL SCREEN: 0.02"	ANNULUS SEAL/INTERVAL: Cement Bent. 0-2.0 ft.
SCREEN INTERVAL: 4.5 to 19.5 ft.	ADDITIVES: None
WELL COVER: 12" Traffic Rated Cover	WELL DEPTH: 19.5 ft.
FILTERPACK/INTERVAL: #3 Sand 4.0 to 19.5 ft.	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLKS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. MW 2		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED 9/27/95	WATER LEVEL (ATD) 13.6'			
				EQUIPMENT	MOBILE B-57	DRILLER	HAZMAT	
SOIL DESCRIPTION								
1			3" ASPHALT					
2			Sandy GRAVEL base material					
3			ALLUVIUM					
4			Stiff, moist, black, CLAY, trace of fine to coarse GRAVEL, strong odor (CL)					
5	13	MW2-5					8	
6		1600						
7								
8			-Becomes dark gray					
9								
10	15	MW2-10						
11		1605						
12			-No recovery					
13								
14			Dense, wet, olive brown and orange brown, Silty SAND, very weak odor (SM)					
15	35	MW2-15					1	
16		1615						
17								
18			Dense, saturated, brown, medium coarse SAND trace silt (SP)					
19	32	MW2-20					<1	
20		1625						
21	BORING TERMINATED AT 20 FEET							
22								
23								
24								

Figure A-8, log of Boring MW 2

HBCR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL: 6.5 - 100lb Bags
DIAMETER & TYPE OF CASING: 4" Dia. PVC	WELL SEAL & INTERVAL: Bentonite Chips 2-4.0 ft.
CASING INTERVAL: 0 - 5.0 ft.	WELL SEAL QUANTITY: 1.0 - 50lb Bag
WELL SCREEN: 0.02"	ANNULUS SEAL/INTERVAL: Cement Bent. 0-2.0 ft.
SCREEN INTERVAL: 5 to 20 ft.	ADDITIVES: None
WELL COVER: 12" Traffic Rated Cover	WELL DEPTH: 20 ft.
FILTERPACK/INTERVAL: #3 Sand 4.0 to 20 ft.	ENGINEER/GEOLOGIST: IAN MOORHEAD

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. S8100-06-34

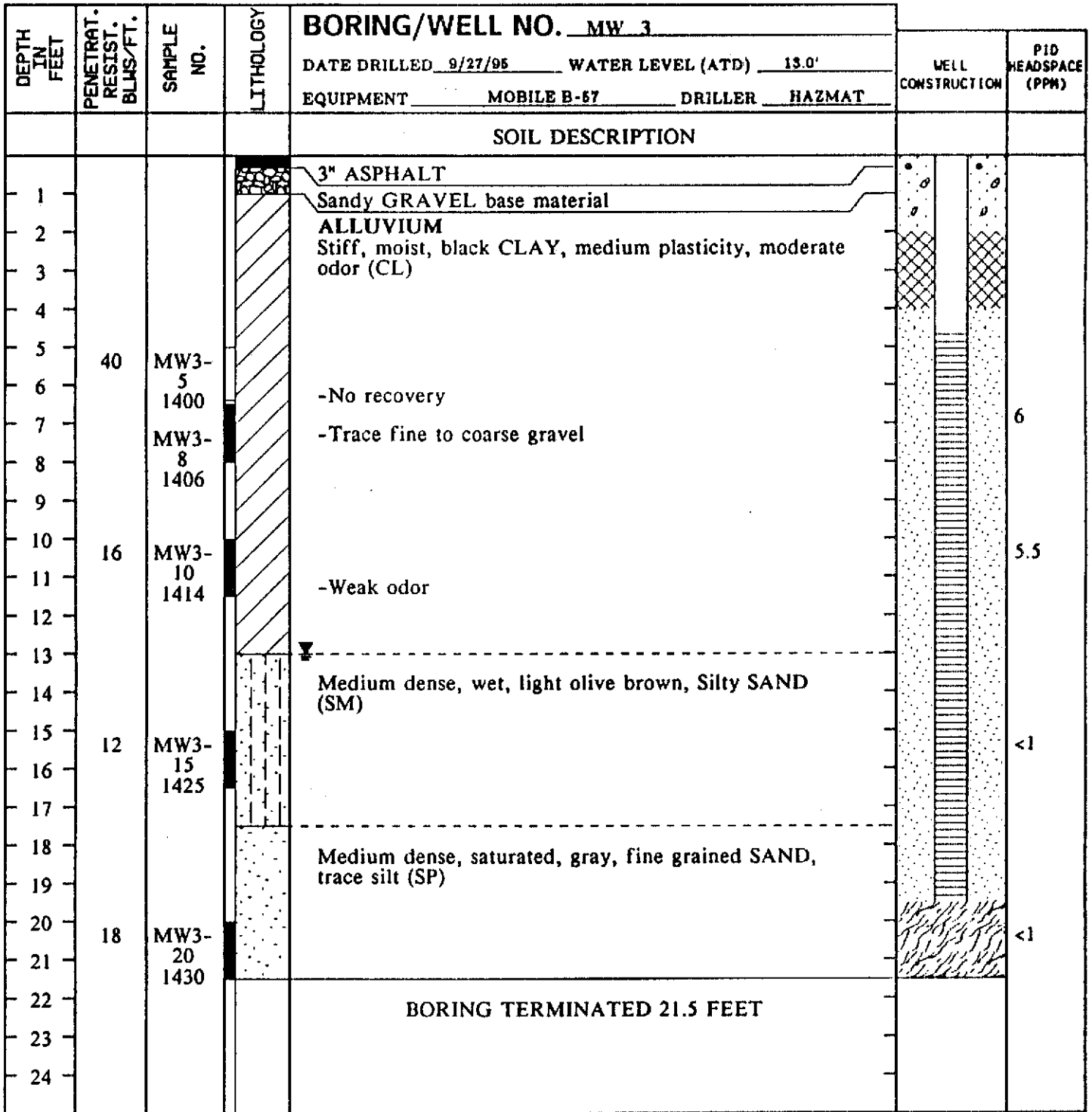


Figure A-9, log of Boring MW 3

HBCR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL: 7 - 100lb Bags
DIAMETER & TYPE OF CASING: 4" Dia. PVC	WELL SEAL & INTERVAL: Bentonite Chlps 2-4.0 ft.
CASING INTERVAL: 0 - 4.5 ft.	WELL SEAL QUANTITY: 1.0 - 50lb Bag
WELL SCREEN: 0.02"	ANNULUS SEAL/INTERVAL: Cement Bent. 0-2.0 ft.
SCREEN INTERVAL: 4.5 to 19.5 ft.	ADDITIVES: None
WELL COVER: 12" Traffic Rated Cover	WELL DEPTH: 19.5 ft.
FILTERPACK/INTERVAL: #3 Sand 4.0 to 19.5 ft.	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.

DEPTH IN FEET	PENETRAT. RESIST. BLHS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. <u>MW 4</u>		WELL CONSTRUCTION	PID HEADSPACE (PPM)
				DATE DRILLED <u>9/27/95</u>	WATER LEVEL (ATD) <u>13.0'</u>		
				EQUIPMENT <u>MOBILE B-57</u>	DRILLER <u>HAZMAT</u>		
SOIL DESCRIPTION							
1			3" ASPHALT				
2			FILL SOIL				
3			Medium dense, moist, brown, Clayey, fine to coarse subangular gravel				
4			ALLUVIUM				
5	50/6"	MW4-5	Stiff, very moist, orange-brown and gray, mottled CLAY, medium-high plasticity (CL)				
6		0805					
7			Dense, wet, gray-black, Clayey, fine to coarse GRAVEL, strong odor (gravel with clay matrix) (GC)				
8							
9			Stiff, wet, black, gravelly CLAY, strong odor (CL)				
10	23	MW4-10					
11		0816					
12							
13							
14			Stiff, wet dark olive-brown CLAY, medium to high plasticity, trace of gravel, pinhole structures, very weak odor (CL)				
15	25	MW4-15					
16		0824					
17							
18							
19			Medium dense, saturated, brown, Silty SAND, trace clay (SM)				
20							
21	14	MW4-20					
22		0832	-Very poor recovery (slough)				
23			BORING TERMINATED AT 21.5 FEET				
24							

Figure A-10, log of Boring MW 4

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL: 7 - 100lb Bags
DIAMETER & TYPE OF CASING: 4" Dia. PVC	WELL SEAL & INTERVAL: Bentonite Chips 2-3.5 ft.
CASING INTERVAL: 0 - 4.0 ft.	WELL SEAL QUANTITY: 1.0 - 50lb Bag
WELL SCREEN: 0.02"	ANNULUS SEAL/INTERVAL: Cement Bent. 0-2.0 ft.
SCREEN INTERVAL: 4.0 to 19.0 ft.	ADDITIVES: None
WELL COVER: 12" Traffic Rated Cover	WELL DEPTH: 19.0 ft.
FILTERPACK/INTERVAL: #3 Sand 3.5 to 19.0 ft.	ENGINEER/GEOLOGIST: IAN MOORHEAD

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. S8100-06-34

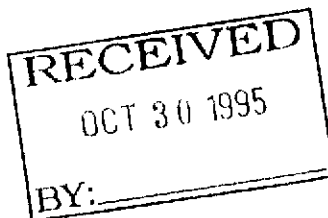
DEPTH IN FEET	PENETRAT. RESIST. BLUS/FT.	SAMPLE NO.	LITHOLOGY	BORING/WELL NO. MW 5		WELL CONSTRUCTION	PID HEADSPACE (PPM)	
				DATE DRILLED 9/27/96	WATER LEVEL (ATD) 18.0'			
				EQUIPMENT MOBILE B-57 DRILLER HAZMAT				
SOIL DESCRIPTION								
1			2" ASPHALT					
2			FILL Sandy GRAVEL base material					
3			Stiff, moist, black, fine to coarse gravelly CLAY, strong odor (CL)					
4			ALLUVIUM					
5	12	MW5-5 0915	Stiff, moist, black, CLAY, medium high plasticity, trace gravel, strong odor (CL)					
6								
7								
8								
9								
10	12	MW5-10 0918	-Becomes olive-brown, higher gravel content (10%) very weak odor				<1	
11								
12								
13								
14								
15	27	MW5-15 0925	Medium dense, very moist, olive brown and yellow brown, Silty SAND (SM)				<1	
16								
17								
18								
19	27	MW5-20 0933	Medium dense, wet, brown, Clayey, Sandy GRAVEL (Sandy gravel with clay matrix) (GC)				<1	
20								
21			BORING TERMINATED AT 20 FEET					<1
22								
23								
24								

Figure A-11, log of Boring MW 5

HBGR

CASING ELEVATION:	QUANTITY OF FILTER MATERIAL: 6-3/4 - 100lb Bags
DIAMETER & TYPE OF CASING: 4" Dia. PVC	WELL SEAL & INTERVAL: Bentonite Chlps 2-4.0 ft.
CASING INTERVAL: 0 - 5.0 ft.	WELL SEAL QUANTITY: 1.0 - 50lb Bag
WELL SCREEN: 0.02"	ANNULUS SEAL/INTERVAL: Cement Bent. 0-2.0 ft.
SCREEN INTERVAL: 5.0 to 20.0 ft.	ADDITIVES: None
WELL COVER: 12" Traffic Rated Cover	WELL DEPTH: 20.0 ft.
FILTERPACK/INTERVAL: #3 Sand 4.0 to 20.0 ft.	ENGINEER/GEOLOGIST: IAN MOORHEAD

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.



October 25, 1995

Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Dear Mr. Walls:

Enclosed is the report for the twenty seven (27) soil samples. The samples were received at Sparger Technology Analytical Lab on September 28, 1995.

The samples were received in twenty seven (27) brass tubes. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

- I. Sample Description
- II. Analysis Request
- III. Quality Control Report
- IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "R. L. James".

R. L. James
Principal Chemist

I Sample Description

See attached Samples Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested:

<u>Lab ID</u>	<u>Your ID</u>	<u>Analysis Description</u>
ST95-09-1767A	BH6-5	TPHgas & BTEX
ST95-09-1768A	BH6-5	TPHdiesel
ST95-09-1769A	BH6-5	Total Oil & Grease
ST95-09-1770A	BH6-10	TPHgas & BTEX
ST95-09-1771A	BH6-10	TPHdiesel
ST95-09-1772A	BH6-10	Total Oil & Grease
ST95-09-1773A	BH6-10	Organic Lead
ST95-09-1775A	BH6-20	TPHgas & BTEX
ST95-09-1776A	BH6-20	TPHdiesel
ST95-09-1777A	BH6-20	Total Oil & Grease
ST95-09-1778A	BH6-20	Organic Lead
ST95-09-1780A	BH5-10	TPHgas & BTEX
ST95-09-1781A	BH5-10	TPHdiesel
ST95-09-1782A	BH5-10	Total Oil & Grease
ST95-09-1783A	BH5-10	Organic Lead
ST95-09-1785A	BH5-20	TPHgas & BTEX
ST95-09-1786A	BH5-20	TPHdiesel
ST95-09-1787A	BH5-20	Total Oil & Grease
ST95-09-1788A	BH5-20	Organic Lead
ST95-09-1789A	BH1-15	TPHgas & BTEX
ST95-09-1790A	BH1-15	TPHdiesel
ST95-09-1791A	BH1-15	Total Oil & Grease
ST95-09-1792A	BH1-15	Organic Lead
ST95-09-1793A	BH1-20	TPHgas & BTEX
ST95-09-1794A	BH1-20	TPHdiesel
ST95-09-1795A	BH1-20	Total Oil & Grease
ST95-09-1796A	BH1-20	Organic Lead

<u>Lab ID</u>	<u>Your ID</u>	<u>Analysis Description</u>
ST95-09-1797A	BH3-5	TPHgas & BTEX
ST95-09-1798A	BH3-5	TPHdiesel
ST95-09-1799A	BH3-5	Total Oil & Grease
ST95-09-1800A	BH3-10	TPHgas & BTEX
ST95-09-1801A	BH3-10	TPHdiesel
ST95-09-1802A	BH3-10	Total Oil & Grease
ST95-09-1803A	BH3-10	Organic Lead
ST95-09-1805A	BH3-20	TPHgas & BTEX
ST95-09-1806A	BH3-20	TPHdiesel
ST95-09-1807A	BH3-20	Total Oil & Grease
ST95-09-1808A	BH3-20	Organic Lead
ST95-09-1810A	BH4-10	TPHgas & BTEX
ST95-09-1811A	BH4-10	TPHdiesel
ST95-09-1812A	BH4-10	Total Oil & Grease
ST95-09-1813A	BH4-10	Organic Lead
ST95-09-1815A	BH4-20	TPHgas & BTEX
ST95-09-1816A	BH4-20	TPHdiesel
ST95-09-1817A	BH4-20	Total Oil & Grease
ST95-09-1818A	BH4-20	Organic Lead
ST95-09-1820A	BH2-10	TPHgas & BTEX
ST95-09-1821A	BH2-10	TPHdiesel
ST95-09-1822A	BH2-10	Total Oil & Grease
ST95-09-1823A	BH2-10	Organic Lead
ST95-09-1825A	BH2-20	TPHgas & BTEX
ST95-09-1826A	BH2-20	TPHdiesel
ST95-09-1827A	BH2-20	Total Oil & Grease
ST95-09-1828A	BH2-20	Organic Lead
ST95-09-1829A	MW4-5	TPHgas & BTEX
ST95-09-1830A	MW4-5	TPHdiesel
ST95-09-1831A	MW4-5	Total Oil & Grease
ST95-09-1832A	MW4-10	TPHgas & BTEX
ST95-09-1833A	MW4-10	TPHdiesel
ST95-09-1834A	MW4-10	Total Oil & Grease
ST95-09-1835A	MW4-10	Organic Lead
ST95-09-1836A	MW4-15	TPHgas & BTEX
ST95-09-1837A	MW4-15	TPHdiesel
ST95-09-1838A	MW4-15	Total Oil & Grease
ST95-09-1839A	MW4-15	Organic Lead

<u>Lab ID</u>	<u>Your ID</u>	<u>Analysis Description</u>
ST95-09-1842A	MW1-10	TPHgas & BTEX
ST95-09-1843A	MW1-10	TPHdiesel
ST95-09-1844A	MW1-10	Total Oil & Grease
ST95-09-1845A	MW1-10	Organic Lead
ST95-09-1847A	MW1-20	TPHgas & BTEX
ST95-09-1848A	MW1-20	TPHdiesel
ST95-09-1849A	MW1-20	Total Oil & Grease
ST95-09-1850A	MW1-20	Organic Lead
ST95-09-1851A	MW3-8	TPHgas & BTEX
ST95-09-1852A	MW3-8	TPHdiesel
ST95-09-1853A	MW3-8	Total Oil & Grease
ST95-09-1854A	MW3-10	TPHgas & BTEX
ST95-09-1855A	MW3-10	TPHdiesel
ST95-09-1856A	MW3-10	Total Oil & Grease
ST95-09-1857A	MW3-10	Organic Lead
ST95-09-1859A	MW3-20	TPHgas & BTEX
ST95-09-1860A	MW3-20	TPHdiesel
ST95-09-1861A	MW3-20	Total Oil & Grease
ST95-09-1862A	MW3-20	Organic Lead
ST95-09-1863A	MW2-5	TPHgas & BTEX
ST95-09-1864A	MW2-5	TPHdiesel
ST95-09-1865A	MW2-5	Total Oil & Grease
ST95-09-1866A	MW2-5	Organic Lead
ST95-09-1868A	MW2-20	TPHgas & BTEX
ST95-09-1869A	MW2-20	TPHdiesel
ST95-09-1870A	MW2-20	Total Oil & Grease
ST95-09-1871A	MW2-20	Organic Lead
ST95-09-1872A	MW5-5	TPHgas & BTEX
ST95-09-1873A	MW5-5	TPHdiesel
ST95-09-1874A	MW5-5	Total Oil & Grease
ST95-09-1875A	MW5-10	TPHgas & BTEX
ST95-09-1876A	MW5-10	TPHdiesel
ST95-09-1877A	MW5-10	Total Oil & Grease
ST95-09-1878A	MW5-10	Organic Lead
ST95-09-1880A	MW5-20	TPHgas & BTEX
ST95-09-1881A	MW5-20	TPHdiesel
ST95-09-1882A	MW5-20	Total Oil & Grease
ST95-09-1883A	MW5-20	Organic Lead

III Quality Control

- A. Project Specific QC. No project specific QC (i.e., spikes and/or duplicates) was requested.
- B. Method Blank Results. A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

- C. Laboratory Control Spike. A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.
- D. Matrix Spike Results. A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

IV Analysis Results

Results are on the attached data sheets.

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 26, 1995
 Geocon Environmental Date Received: Sep 28, 1995
 3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 4, 1995 TPHgas & BTEX
 Rancho Cordova, CA 95742 Date Analyzed: Oct 3, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: BH6-5 LAB ID: ST95-09-1767A TPHgas & BTEX
 ST95-09-1768A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	24 *	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 99%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Weathered TPHdiesel.



R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 26, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 2, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: BH3-10 LAB ID: ST95-09-1800A TPHgas & BTEX
ST95-09-1801A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 57% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 26, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 2, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: BH3-20 LAB ID: ST95-09-1805A TPHgas & BTEX
ST95-09-1806A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 67% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995	
		Date Received:	Sep 28, 1995	
		Date Analyzed:	Oct 3, 1995	TPHgas & BTEX
		Date Analyzed:	Oct 4, 1995	TPHdiesel
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger	
Client ID:	BH2-10	LAB ID:	ST95-09-1820A	TPHgas & BTEX
			ST95-09-1821A	TPHdiesel
Matrix:	Soil	Dilution:	1:	1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 40% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
 Geocon Environmental Date Received: Sep 28, 1995
 3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
 Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW4-5 LAB ID: ST95-09-1829A TPHgas & BTEX
 ST95-09-1830A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 89%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. 1614)

8020/8015 Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995	
		Date Received:	Sep 28, 1995	
		Date Analyzed:	Oct 3, 1995	TPHgas & BTEX
		Date Analyzed:	Oct 4, 1995	TPHdiesel
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger	
Client ID:	MW4-10	LAB ID:	ST95-09-1832A TPHgas & BTEX ST95-09-1833A TPHdiesel	
Matrix:	Soil	Dilution:	1:	1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND *	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 60% **

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit

*** TPHmotor oil was found to be present at 7.5 ppm.**

**** Low surrogate recovery due to matrix effect.**

R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
 Geocon Environmental Date Received: Sep 28, 1995
 3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
 Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW4-15 LAB ID: ST95-09-1836A TPHgas & BTEX
 ST95-09-1837A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 79%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 11, 1995

Date

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 (Certification No. 1814)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW1-10 LAB ID: ST95-09-1842A TPHgas & BTEX
ST95-09-1843A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 54% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995	
		Date Received:	Sep 28, 1995	
		Date Analyzed:	Oct 3, 1995	TPHgas & BTEX
		Date Analyzed:	Oct 4, 1995	TPHdiesel
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger	
Client ID:	MW1-20	LAB ID:	ST95-09-1847A	TPHgas & BTEX
			ST95-09-1848A	TPHdiesel
Matrix:	Soil	Dilution:	1:	1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 67% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger
Client ID: MW3-8 LAB ID: ST95-09-1851A TPHgas & BTEX
ST95-09-1852A TPHdiesel
Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	0.012	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 48% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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With Automation in Mind

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel
Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger
Client ID: MW3-10 LAB ID: ST95-09-1854A TPHgas & BTEX
ST95-09-1855A TPHdiesel
Matrix: Soil Dilution: 1: 1

Table with 4 columns: Name, Amount, Detection Limit, Units. Rows include Benzene, Toluene, Ethylbenzene, Xylenes, TPHgas, and TPHdiesel.

Surrogate % Recovery of Trifluorotoluene = 46% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Low surrogate recovery due to matrix effect.

Handwritten signature of R. L. James

R. L. James, Principal Chemist

Oct 10, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 27, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 4, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW3-20 LAB ID: ST95-09-1859A TPHgas & BTEX
ST95-09-1860A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	0.030	0.005	mg/kg
Toluene	0.028	0.005	mg/kg
Ethylbenzene	0.030	0.005	mg/kg
Xylenes	0.058	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 79%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995	
		Date Received:	Sep 28, 1995	
		Date Analyzed:	Oct 3, 1995	TPHgas & BTEX
		Date Analyzed:	Oct 4, 1995	TPHdiesel
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger	
Client ID:	MW2-5	LAB ID:	ST95-09-1863A	TPHgas & BTEX
			ST95-09-1864A	TPHdiesel
Matrix:	Soil	Dilution:	1:	1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND *	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 59% **

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* TPHmotor oil was found to be present at 41 ppm.

** Low surrogate recovery due to matrix effect.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995
Date Analyzed: Oct 6, 1995

Project #: SB100-06-34 (CT53W202)
Project Name: Hegenberger

Client ID: MW2-20
LAB ID: ST95-09-1868A
ST95-09-1869A

Matrix: Soil
Dilution: 1: 1

TPHgas & BTEX
TPHdiesel

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 88%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 10, 1995

Date

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 28, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 4, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 6, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW5-5 LAB ID: ST95-09-1872A TPHgas & BTEX
ST95-09-1873A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	0.020	0.005	mg/kg
Ethylbenzene	0.028	0.005	mg/kg
Xylenes	0.088	0.005	mg/kg
TPHgas	1.6	1.0	mg/kg
TPHdiesel	ND *	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 58% **

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* TPHmotor oil was found to be present at 20 ppm.

** Low surrogate recovery due to matrix effect.

R. L. James, Principal Chemist

Oct 10, 1995

Date

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 28, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 5, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 6, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW5-10 LAB ID: ST95-09-1875A TPHgas & BTEX
ST95-09-1876A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 91%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Oct 10, 1995

Date

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(Certification No. 1614)

8020/8015 Modified Analysis Report

Attention: Mr. Rick Walls Date Sampled: Sep 28, 1995
Geocon Environmental Date Received: Sep 28, 1995
3235 Sunrise Blvd., Suite 6 Date Analyzed: Oct 3, 1995 TPHgas & BTEX
Rancho Cordova, CA 95742 Date Analyzed: Oct 6, 1995 TPHdiesel

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW5-20 LAB ID: ST95-09-1880A TPHgas & BTEX
ST95-09-1881A TPHdiesel

Matrix: Soil Dilution: 1: 1

Name	Amount	Detection Limit	Units
Benzene	ND	0.005	mg/kg
Toluene	ND	0.005	mg/kg
Ethylbenzene	ND	0.005	mg/kg
Xylenes	ND	0.005	mg/kg
TPHgas	ND	1.0	mg/kg
TPHdiesel	ND	1.0	mg/kg

Surrogate % Recovery of Trifluorotoluene = 62% *

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

*** Low surrogate recovery due to matrix effect.**



R. L. James, Principal Chemist

Oct 10, 1995

Date

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**8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD)
BTEX Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 3, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MS/MSD

LAB ID: ST95-09-1875A MS
ST95-09-1875A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	22	26	ug/kg	73%	87%	17%
Toluene	30 ppb	ND	20	25	ug/kg	67%	83%	22%
Ethylbenzene	30 ppb	ND	22	26	ug/kg	73%	87%	17%
Xylenes	30 ppb	ND	22	25	ug/kg	73%	83%	13%

Surrogate % Recovery of Trifluorotoluene =

62% MS

73% MSD

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 10, 1995

DATE

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(Certification No. 1814)

**8020 Modified Laboratory Control Spike (LCS) &
Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 3, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: LCS/LCSD

LAB ID: ST95-10-003 LCS
ST95-10-003 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	33	28	ug/kg	110%	93%	16%
Toluene	30 ppb	ND	32	28	ug/kg	107%	93%	13%
Ethylbenzene	30 ppb	ND	33	26	ug/kg	110%	87%	24%
Xylenes	30 ppb	ND	33	28	ug/kg	110%	93%	16%

Surrogate % Recovery of Trifluorotoluene =

88% LCS

100% LCSD

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 10, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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(Certification No. 1814)

**8015 Modified Matrix Spike (MS) &
Matrix Spike Duplicate (MSD)
TPHdiesel Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 3, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MS/MSD

LAB ID: ST95-09-1794A MS
ST95-09-1794A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
TPHdiesel	15 ppm	ND	14	14	mg/kg	93%	93%	0%

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = mg/kg = milligrams per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 10, 1995

Date Reported

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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH6-5	LAB ID:	ST95-09-1769A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	80	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 10, 1995

Date Reported

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(Certification No. 1814)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH6-10	LAB ID:	ST95-09-1772A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	65	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 10, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 5, 1995

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: BH6-20 LAB ID: ST95-09-1777A

Matrix: Soil Dilution: 1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 10, 1995
Date Reported

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(Certification No. 1814)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH5-10	LAB ID:	ST95-09-1782A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

ND = Not Detected Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 10, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH5-20	LAB ID:	ST95-09-1787A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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R. L. James, Principal Chemist

Oct. 10, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hagenberger
Client ID:	BH1-15	LAB ID:	ST95-09-1791A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH1-20	LAB ID:	ST95-09-1795A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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R. L. James

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH3-5	LAB ID:	ST95-09-1799A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	80	50	mg/kg

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH3-10	LAB ID:	ST95-09-1802A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hagenberger
Client ID:	BH3-20	LAB ID:	ST95-09-1807A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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Oct. 10, 1995

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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH4-10	LAB ID:	ST95-09-1812A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	55	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hagenberger
Client ID:	BH4-20	LAB ID:	ST95-09-1817A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH2-10	LAB ID:	ST95-09-1822A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 26, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	BH2-20	LAB ID:	ST95-09-1827A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW4-5	LAB ID:	ST95-09-1831A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 5, 1995

Project #: S8100-06-34 (CT53W202) Project Name: Hegenberger

Client ID: MW4-10 LAB ID: ST95-09-1834A

Matrix: Soil Dilution: 1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	75	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW4-15	LAB ID:	ST95-09-1838A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	75	50	mg/kg

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW1-10	LAB ID:	ST95-09-1844A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

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ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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(Certification No. 1814)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW1-20	LAB ID:	ST95-09-1849A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

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Oct. 10, 1995
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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW3-8	LAB ID:	ST95-09-1853A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

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Oct. 10, 1995

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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW3-10	LAB ID:	ST95-09-1856A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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Oct. 10, 1995
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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW3-20	LAB ID:	ST95-09-1861A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW2-5	LAB ID:	ST95-09-1865A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	75	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 27, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW2-50	LAB ID:	ST95-09-1870A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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(Certification No. 1614)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 28, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW5-5	LAB ID:	ST95-09-1874A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	60	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

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ppm = parts per million = mg/kg = milligram per kilogram

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(Certification No. 1814)

5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 28, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW5-10	LAB ID:	ST95-09-1877A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	65	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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5520 F. Modified Analysis Report

Attention:	Mr. Rick Walls Geocon Environmental 3235 Sunrise Blvd., Suite 6 Rancho Cordova, CA 95742	Date Sampled:	Sep 28, 1995
		Date Received:	Sep 28, 1995
		Date Analyzed:	Oct 5, 1995
Project #:	S8100-06-34 (CT53W202)	Project Name:	Hegenberger
Client ID:	MW5-20	LAB ID:	ST95-09-1882A
Matrix:	Soil	Dilution:	1: 1

Name	Amount	Reporting Limit	Units
Oil & Grease	ND	50	mg/kg

ppb = parts per billion = ug/kg = microgram per kilogram

ppm = parts per million = ug/g = microgram per gram

ppm = parts per million = mg/kg = milligram per kilogram

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Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH6-10

LAB ID: ST95-09-1773A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995
Date Reported

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Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH6-20

LAB ID: ST95-09-1778A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

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R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH5-10

LAB ID: ST95-09-1783A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH5-20

LAB ID: ST95-09-1788A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH1-15

LAB ID: ST95-09-1792A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995
Date Reported

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Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH1-20

LAB ID: ST95-09-1796A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH3-10

LAB ID: ST95-09-1803A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH3-20

LAB ID: ST95-09-1808A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH4-10

LAB ID: ST95-09-1813A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH4-20

LAB ID: ST95-09-1818A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH2-10

LAB ID: ST95-09-1823A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: BH2-20

LAB ID: ST95-09-1828A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW4-10

LAB ID: ST95-09-1835A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW4-15

LAB ID: ST95-09-1839A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the reporting limit



R. L. James, Principal Chemist

Oct 4, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW1-10

LAB ID: ST95-09-1845A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram

ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA

DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1814)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW1-20

LAB ID: ST95-09-1850A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW3-10

LAB ID: ST95-09-1857A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW3-20

LAB ID: ST95-09-1862A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppt = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW2-5

LAB ID: ST95-09-1866A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 27, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW2-20

LAB ID: ST95-09-1871A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995
Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW5-10

LAB ID: ST95-09-1878A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

Organic Lead DOHS LUFT Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project #: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MW5-20

LAB ID: ST95-09-1883A

Matrix: Soil

Dilution:

Name	Amount	Reporting Limit	Units
Organic Lead	ND	5.0	mg/kg

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the reporting limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**Organic Lead LUFT Method
Matrix Spike (MS) and
Matrix Spike Duplicate (MSD)**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 26, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: MS/MSD

LAB ID: ST95-09-1773A MS
ST95-09-1773A MSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	Sample Result	MS	MSD	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Organic Lead	25 ppm	ND	26	26	mg/kg	104%	104%	0%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct. 4, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**Organic Lead LUFT Method
Laboratory Control Spike (LCS) and
Laboratory Control Spike Duplicate (LCSD)**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Sep 28, 1995
Date Received: Sep 28, 1995
Date Analyzed: Oct 4, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hegenberger

Client ID: LCS/LCSD

LAB ID: ST95-10-004 LCS
ST95-10-004 LCSD

Matrix: Soil

Dilution:

Name	Conc. Spike Added	LCS	LCSD	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Organic Lead	25 ppm	26	26	mg/kg	104%	104%	0%

ppb = parts per billion = ug/kg = micrograms per kilogram
ppm = parts per million = ug/g = micrograms per gram

ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 4, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
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(Certification No. 1614)

SPARGI TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

Company: GEOCON

Phone: 852-9118

Project Manager: Rick Walls

FAX: 852-9132

Report Address:

Billing Name & Address:

Contact Rick Walls
OR Ian MOORHEAD
with any questions

3235 sunrise Blvd. #6
Rancho Cordova, CA 95742

Project Name: Hegenbergér

Project/Job#: S8100-06-34

Project Location:

Oakland, CA

P.O.#:

53W202 - Caltrans

CHAIN OF CUSTODY RECORD

C.O.C. No. 11154

Page 1 of 5

STAL Invoice Number: 5578

ANALYSIS REQUEST

REMARKS: CALTRANS - 53W202
1. TAM9 - BT&X (90.95)
2. TPA Diesel (#90)
3. EPA 5520 (0+G) (#99)
4. Organic Lead (#92)

Sampler's Name:
IAN
MOORHEAD

Cooper Temp.	°C	All OK	None OK	Some OK
Sample Condition				
pH				

WET(STLC)
TCLP
Total

NO.	SAMPLE ID	Sampling		Container	Preservative Used				Matrix				TCLP										Total	TAT													
		Date	Time		40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: CHILL	HCl/HNO ₃ /ICE	None	Other:	Water	Soil	Air	Other: DEPTH	BTX (602/8020)/503.1	BTEX/PHgas (602/8020/8015) (90/95)	TPH/diesel/TPH/motor oil/kerosene (8015) (90)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508			EPA 608/8080 (PCBS)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520) (#99)	Non-Polar O & G/TPPH (418.1)	Organic Lead (#92)	RCI	HOLD	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)
1	BH6-5	9/26	0938	X						X	X		6	X	X									X												X	
2	BH6-10		0945										11	X	X									X	X												
3	BH6-15		1000										14																								
4	BH6-20		1005										21	X	X								X	X													
5	BH5-5		1045										6																								
6	BH5-10		1050										11	X	X								X	X													
7	BH5-15		1058										16																								
8	BH5-20		1105										21	X	X								X	X													
9	BH1-15	9/26	1145										16	X	X								X	X													
10	BH1-20	9/26	1155										21	X	X								X	X													

Relinquished by: *[Signature]*
Date: 09/28/95 Time: 1410

Received by: *[Signature]*
Date: 9/28/95 Time: 14:10

Relinquished by:
Date: / Time:

Received by:
Date: / Time:

SPARGE TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 11156

Page 2 of 6

STAL Invoice Number:

5578

Company: Geocon Phone: 852-9118

Project Manager: Rick Walls FAX: 852-9132

Report Address: 3235 Sunrise Blvd. #6
Rancho Cordova, CA 95742

Project Name: Hegenberger Project/Job#: SB100-06-34

Project Location: Oakland, CA P.O.#: 53W202 - Caltrans

ANALYSIS REQUEST

REMARKS: *See pg 1*

Sampler's Name:
JAW
MOORHEAD

All None Some
OK OK OK

Cooler Temp. °C

Sample Condition

pH

WET(STLC)

TCLP

TCLP

Total

TAT

NO.	SAMPLE ID	Sampling		Container	Preservative Used	Matrix	TCLP													Total		TAT					
		Date	Time				BTEX (602/8020) 503.1	BTEX/TPH gas (602/8020/8015) (90/95)	TPH diesel oil / PH motor oil / kerosene (8015) (70)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCBS)	EPA 824/8240/524.2	EPA 825/8270/525	Total Oil & Grease (5520) #89	Non-Polar O & G/TPH (418.1)	Organic Lead #92	RCI	HOLD	CAM-17 Metals		CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	BH3-5	9/26	1335	X		X	X	X									X						X				
2	BH3-10		1340				X	X								X	X										
3	BH3-15		1345																								
4	BH3-20		1350				X	X								X	X										
5	BH4-5		1420																								
6	BH4-10		1425				X	X								X	X										
7	BH4-15		1430																								
8	BH4-20		1435				X	X								X	X										
9	BH2-5		1515																								
10	BH2-10		1520				X	X								X	X										

Relinquished by: *J. Walls*

Received by: *[Signature]*

Relinquished by:

Received by:

Date: 9/28/95

Time: 1410

Date: 9/28/95

Time: 1410

Date:

Time:

Date:

Time:

SPARG TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 11157

5578

Page 3 of 5

STAL Invoice Number:

Company: GEOCON

Phone: 852-9118

Project Manager: Rick Walls

FAX: 852-9132

Report Address: Billing Name & Address:

3235 Sunrise Blvd. #6
Rancho Cordova, CA 95742

ANALYSIS REQUEST

REMARKS: See Pg 1

Sampler's Name:

IAN
MOORHEAD

Project Name: Hegenberger

Project/Job#: S8100-06-34

Project Location: Oakland, CA

PO#: Caltrans - 53W202

All None Some
OK OK OK

WET(STLC)

Cooler Temp. °C

Sample Condition

TCLP

pH

TCLP

Total

TAT

NO.	SAMPLE ID	Sampling		Container				Preservative Used			Matrix				TCLP										Total		TAT											
		Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HCl/HNO3/HCl	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020/503.1)	BTEX/TPH gas (602/8020/8015) (90/95)	TPH/diesel/TPH motor oil/kerosene (8015) (90)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCBS)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520) (99)	Non-Polar O & G/TPH (418.1)	Organic Lead (92)	RCI	HOLD	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush			
1	BH2-15	9/26	1525		X									X	X																						X	
2	BH2-20	9/26	1530		X									X	X									X	X											X		
3																																				*		
4	MW4-5	9/27	0805		X					X				X	X								X															
5	MW4-10		0816																				X	X														
6	MW4-15		0824																				X	X														
7	MW4-20		0832																				X	X														
8	MW1-5		1015																																			
9	MW1-10		1025																																			
10	MW1-15		1035																																			

Relinquished by: *[Signature]*

Received by: *[Signature]*

Relinquished by:

Received by:

Date: 9-28-95 Time: 1410

Date: 9/28/95 Time: 14:10

Date: Time:

Date: Time:

SPARGER TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 11158

Page 4 of 5

STAL Invoice Number:

5578

Company: GEOLAND

Phone: 952-9118

Project Manager: RICK WALLS

FAX: 852-9132

Report Address:
3235 Sunrise Blvd. #6
Rancho Groton, CA 95742

Billing Name & Address:

Project Name: Hegenberger

Project/Job#: 58100-06-34

Project Location: Oakland, CA

P.O.#: Cottons 53W202

ANALYSIS REQUEST

REMARKS: See Pg 1

Sampler's Name:
IAN MOORHEAD

	All OK	None OK	Some OK	WET(STLC)
Cooler Temp.		°C		
Sample Condition				TCLP
pH				

NO.	SAMPLE ID	Date	Time	Sampling				Container			Preservative Used			Matrix				TCLP												Total		TAT						
				40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HCl/HNO3/HCl	None	Other: CHILL	Water	Soil	Air	Other: Depth	BTEX (602/8020)503.1	TEX/TPH Gas (602/8020/8015) (96/92)	TPH Diesel/TPH Motor oil/Kerosene (8015) (92)	EPA 901/8010/502.2/504	EPA 902/8020	EPA 908/8080 (Pesticides)/505/508	EPA 908/8080 (PCBS)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520) (89)	Non-Polar O & G/TPH (418.1)	Organic Lead (92)	RCI	HOLA	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush			
1	MW1-20	9/27	1050		X								X	X	95	X	X							X	X											X		
2	MW3-8		1406												75	X	X							X	X													
3	MW3-10		1414												11	X	X							X	X													
4	MW3-15		1425												16																							
5	MW3-20		1430												21	X	X							X	X													
6	MW2-5		1600		V										6	X	X							X	X													
7	MW2-10	9/27	1605																																			
8	MW2-15	9/27	1615		X								X	X	16	X	X							X	X													
9	MW2-20	9/27	1625		X								X	X	21	X	X							X	X													
10																																						

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by:

Received by:

Date: 9-28-95 Time: 1410

Date: 9/28/95 Time: 14-10

Date:

Date:

SPARGER TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 11161

Page 5 of 5

STAL Invoice Number:

5578

Company: **GEDON**

Phone: 852-9118

Project Manager: **RICK WALLS**

FAX: 852-9132

Report Address: Billing Name & Address:

3235 SUNRISE Blvd #6
Rancho Cordova, CA 95742

Project Name: **Hegenberger**

Project/Job#: **SP100-06-34**

Project Location: **Oakland, CA**

P.O.#: **Cottrens
53W202**

ANALYSIS REQUEST

REMARKS: **See pg 1.**

Sampler's Name:
ION MOORHEAD

		All OK	None OK	Some OK	WET(STLC)
Cooler Temp.	°C				
Sample Condition					TCLP
pH					

NO.	SAMPLE ID	Sampling		Container				Preservative Used			Matrix				TCLP											Total		TAT									
		Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	HC/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020/503.1)	BTEX/PHGAS (602/8020/8015) (90/95)	TPH/gases/TPH/motor oil/kerosene (8015) (90)	EPA 901/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCBS)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520) (89)	Non-Polar O & G/TPRH (#18.1)	Organic Lead (92)		RCI	Hold.	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush	
1	MWS-5	9/28	0915	X						X	X				X	X										X										X	
2	MWS-10		0918												X	X									X	X										X	
3	MWS-15		0925																																	X	
4	MWS-20		0933												X	X									X	X										X	
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					

Relinquished by:	Received by:	Relinquished by:	Received by:
Date: 9/28/95 Time: 1410	Date: 9/28/95 Time: 1410	Date: Time:	Date: Time:

PLEASE READ REVERSE SIDE FOR TERMS AND CONDITIONS

November 2, 1995

Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Dear Mr. Walls:

Enclosed is the report for the five (5) water samples. The samples were received at Sparger Technology Analytical Lab on October 12, 1995.

The samples were received in fifteen (15) 40 mL VOA vials and fifteen (15) 1 L amber bottles. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

The report consists of the following sections:

- I. Sample Description
- II. Analysis Request
- III. Quality Control Report
- IV. Analysis Results

No problems were encountered with the analysis of your samples.

If you have questions, please feel free to call.

Sincerely,



R. L. James
Principal Chemist

I Sample Description

See attached Samples Description Information.

The samples were received under chain-of-custody.

II Analysis Request

The following analytical tests were requested:

<u>Lab ID</u>	<u>Your ID</u>	<u>Analysis Description</u>
ST95-10-758A	MW-5	TPHgas & BTEX
ST95-10-759A	MW-5	TPHdiesel/motor oil
ST95-10-760A	MW-5	Total Oil & Grease
ST95-10-761A	MW-3	TPHgas & BTEX
ST95-10-762A	MW-3	TPHdiesel/motor oil
ST95-10-763A	MW-3	Total Oil & Grease
ST95-10-764A	MW-2	TPHgas & BTEX
ST95-10-765A	MW-2	TPHdiesel/motor oil
ST95-10-766A	MW-2	Total Oil & Grease
ST95-10-767A	MW-4	TPHgas & BTEX
ST95-10-768A	MW-4	TPHdiesel/motor oil
ST95-10-769A	MW-4	Total Oil & Grease
ST95-10-770A	MW-1	TPHgas & BTEX
ST95-10-771A	MW-1	TPHdiesel/motor oil
ST95-10-772A	MW-1	Total Oil & Grease

III Quality Control

A. **Project Specific QC.** No project specific QC (i.e., spikes and/or duplicates) was requested.

B. **Method Blank Results.** A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your sample.

No target parameters were detected in the method blank associated with your sample at the reporting limit levels noted on the data sheets in the Analytical Results section.

C. **Laboratory Control Spike.** A Laboratory Control Spike (LCS) is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The LCS results associated with your samples are on the attached Laboratory Control Spike and Laboratory Control Spike Duplicate Analysis Report.

D. **Matrix Spike Results.** A Matrix Spike is a sample which is spiked with known analyte concentrations, and analyzed at approximately 10% of the sample load in order to establish method-specific control limits. The Matrix Spike results associated with your samples are on the attached Matrix Spike and Matrix Spike Duplicate Analysis Report.

Accuracy is measured by Percent Recovery as in:

$$\% \text{ recovery} = \frac{(\text{measured concentration}) \times 100}{(\text{actual concentration})}$$

IV Analysis Results

Results are on the attached data sheets.

8020/8015/5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 16, 1995

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Project #: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: MW-5

LAB ID: ST95-10-758A TPHgas & BTEX
LAB ID: ST95-10-759A TPHdiesel/motor oil
LAB ID: ST95-10-760A Oil & Grease

Matrix: Water Dilution:

Name	Amount	Detection Limit	Units
Benzene	45	0.3	ug/L
Toluene	15	0.3	ug/L
Ethylbenzene	1.9	0.3	ug/L
Xylenes	6.1	0.3	ug/L
TPHgas	1000	50	ug/L
TPHdiesel	ND	50	ug/L
TPHmotor oil	ND	50	ug/L
Oil & Grease	ND	5000	ug/L

Surrogate % Recovery of Trifluorotoluene = 125%

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.


R. L. James, Principal Chemist

Oct 23, 1995
Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

8020/8015/5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 16, 1995

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Project #: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: MW-3

LAB ID: ST95-10-761A
LAB ID: ST95-10-762A
LAB ID: ST95-10-763A

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Matrix: Water Dilution:

Name	Amount	Detection Limit	Units
Benzene	1.0	0.3	ug/L
Toluene	ND	0.3	ug/L
Ethylbenzene	ND	0.3	ug/L
Xylenes	ND	0.3	ug/L
TPHgas	1300 *	50	ug/L
TPHdiesel	ND	50	ug/L
TPHmotor oil	ND	50	ug/L
Oil & Grease	ND	5000	ug/L

Surrogate % Recovery of Trifluorotoluene = 107%

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.

* Weathered gas detected.


R. L. James, Principal Chemist

Oct 23, 1995
Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

8020/8015/5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 18, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 16, 1995

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Project #: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: MW-2

LAB ID: ST95-10-764A
LAB ID: ST95-10-765A
LAB ID: ST95-10-766A

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Matrix: Water Dilution:

Name	Amount	Detection Limit	Units
Benzene	ND	0.3	ug/L
Toluene	ND	0.3	ug/L
Ethylbenzene	ND	0.3	ug/L
Xylenes	ND	0.3	ug/L
TPHgas	ND	50	ug/L
TPHdiesel	ND	50	ug/L
TPHmotor oil	ND	50	ug/L
Oil & Grease	ND	5000	ug/L

Surrogate % Recovery of Trifluorotoluene = 112%

ppb = parts per billion = ug/L = micrograms per liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 23, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

8020/8015/5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 18, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 16, 1995

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Project #: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: MW-4

LAB ID: ST95-10-767A TPHgas & BTEX
LAB ID: ST95-10-768A TPHdiesel/motor oil
LAB ID: ST95-10-769A Oil & Grease

Matrix: Water Dilution:

Name	Amount	Detection Limit	Units
Benzene	17	0.3	ug/L
Toluene	1.1	0.3	ug/L
Ethylbenzene	ND	0.3	ug/L
Xylenes	0.48	0.3	ug/L
TPHgas	500	50	ug/L
TPHdiesel	ND	50	ug/L
TPHmotor oil	ND	50	ug/L
Oil & Grease	ND	5000	ug/L

Surrogate % Recovery of Trifluorotoluene = 97%

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Oct 23, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

8020/8015/5520 F. Modified Analysis Report

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 18, 1995
Date Analyzed: Oct 17, 1995
Date Analyzed: Oct 16, 1995

TPHgas & BTEX
TPHdiesel/motor oil
Oil & Grease

Project #: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: MW-1

LAB ID: ST95-10-770A TPHgas & BTEX
LAB ID: ST95-10-771A TPHdiesel/motor oil
LAB ID: ST95-10-772A Oil & Grease

Matrix: Water Dilution: 1:10 TPHgas & BT

Name	Amount	Detection Limit	Units
Benzene	660	3.0	ug/L
Toluene	13	3.0	ug/L
Ethylbenzene	4.7	0.3	ug/L
Xylenes	2.8	0.3	ug/L
TPHgas	720	500	ug/L
TPHdiesel	ND	50	ug/L
TPHmotor oil	ND	50	ug/L
Oil & Grease	ND	5000	ug/L

Surrogate % Recovery of Trifluorotoluene = 115%

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 23, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**8020 Modified Matrix Spike (MS) & Matrix Spike Duplicate (MSD)
BTEX Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 18, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hagenberger

Client ID: MS/MSD (Batch)

LAB ID: ST95-10-795A MS
ST95-10-795A MSD

Matrix: Water

Dilution:

Name	Conc. Spike Added	Sample Result	MS Result	MSD Result	Units	MS % Recovery	MSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	29	35	ug/L	97%	117%	19%
Toluene	30 ppb	ND	27	32	ug/L	90%	107%	17%
Ethylbenzene	30 ppb	ND	31	34	ug/L	103%	113%	9%
Xylenes	30 ppb	ND	31	34	ug/L	103%	113%	9%

Surrogate % Recovery of Trifluorotoluene =

95% MS

107% MSD

ppb = parts per billion = ug/L = micrograms per liter
ppm = parts per million = ug/ml = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit



R. L. James, Principal Chemist

Oct 23, 1995

Date

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**8020 Modified Laboratory Control Spike (LCS) &
Laboratory Control Spike Duplicate (LCSD) BTEX Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 18, 1995

Project ID: S8100-06-34 (CT53W202) Project Name: Hagenberger

Client ID: LCS/LCSD LAB ID: ST95-10-018 LCS
ST95-10-018 LCSD

Matrix: Water Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
Benzene	30 ppb	ND	34	33	ug/L	113%	110%	3%
Toluene	30 ppb	ND	29	28	ug/L	97%	93%	4%
Ethylbenzene	30 ppb	ND	34	34	ug/L	113%	113%	0%
Xylenes	30 ppb	ND	34	33	ug/L	113%	110%	3%

Surrogate % Recovery of Trifluorotoluene = 91% LCS 89% LCSD

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/mL = micrograms per milliliter
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 23, 1995

Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1614)

**8015 Modified Laboratory Control Spike (LCS) &
Laboratory Control Spike Duplicate (LCSD)
TPHdiesel Analysis Report**

Attention: Mr. Rick Walls
Geocon Environmental
3235 Sunrise Blvd., Suite 6
Rancho Cordova, CA 95742

Date Sampled: Oct 11, 1995
Date Received: Oct 12, 1995
Date Analyzed: Oct 16, 1995

Project ID: S8100-06-34 (CT53W202)

Project Name: Hagenberger

Client ID: LCS/LCSD

LAB ID: ST95-10-016 LCS
ST95-10-016 LCSD

Matrix: Water

Dilution:

Name	Conc. Spike Added	Sample Result	LCS Result	LCSD Result	Units	LCS % Recovery	LCSD % Recovery	% RPD Recovery
TPHdiesel	600 ppb	ND	563	590	ug/L	94%	98%	5%

ppb = parts per billion = ug/L = micrograms per Liter
ppm = parts per million = ug/g = micrograms per gram
ND = Not Detected. Compound(s) may be present at concentrations below the detection limit.



R. L. James, Principal Chemist

Oct 23, 1995
Date Reported

SPARGER TECHNOLOGY ANALYTICAL LABORATORY, INC. IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1814)

SPARGER TECHNOLOGY, INC.

Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 11128

Page 1 of 1

STAL Invoice Number: 5669

Company: Geocon

Phone: 852-7118

Project Manager: Rick Wells

FAX: 852-7132

Report Address:

Billing Name & Address:

3235 Sunrise Blvd. #6
Rancho Cordova, Ca 95742

Project Name: Hagenberger

Project/Job#: 58100-06-34

Project Location:

OAKLAND, CA

P.O.#:

53W202

ANALYSIS REQUEST

REMARKS:

CT53W202

Sampler's Name:

Doug Winchester

Cooler Temp.	°C	All	None	Some	WET(STLC)
		OK	OK	OK	
Sample Condition					TCLP
pH					

NO.	SAMPLE ID	Sampling		Container				Preservative		Matrix				TCLP										Total	TAT												
		Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other:	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020)503.1	BTEX/TPH gas (602/8020/8015) (9.195)	TPH/diesel/TPH motor oil/aerosol (8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525			Total Oil & Grease (5520)	Non-Polar O & G/TPRH (418.1)	Organic Lead	FCI	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush		
1	MW-5	10-11	1145	3		3			X					X	X	X								X													
2	MW-3	10-11	1240	3		3			X					X	X	X							X														
3	MW-2		1335	3		3			X					X	X	X							X														
4	MW-4		1435	3		3			X					X	X	X							X														
5	MW-1		1455	3		3			X					X	X	X							X														
6	Trip Blank		-	1					X		X																										

Relinquished by: Doug Winchester
Date: 10/11/95 Time: 1930

Received by: Geocon Cold Storage
Date: 10/11/95 Time: 1930

Relinquished by: [Signature]
Date: 10-12-95 Time: 1243

Received by: [Signature]
Date: 10/12/95 Time: 12:23pm