STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF TRANSPORTATION
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RO 225

Alameda County
MAR 0 8 2004
Environmental Health

March 4, 2004

Mr. Amir Gholami
Alameda County Environmental Health Service
Environmental Protection
1131 Harbor Bay Pkwy; Suite 250
Alameda, California 94502-6577

SUBJECT: Report review for the first quarter 2004 groundwater monitoring report on Caltrans Former Maintenance station at 555 Hegenberger Road, Oakland, California

Dear Mr. Gholami:

Please find attached a copy of the first quarter 2004 groundwater monitoring report for the aforementioned address. Workplan and the Health and Safety Plan for this site have already been submitted. This document summarizes the results found at the site from samples taken from the Five monitoring wells.

If you have any questions or require additional information, please contact Bahram Sazegar at (510) 286-5643.

Ray Boyer

RAY BOYER
District Branch Chief
Office of Environmental Engineering

Attachments

Cc: Rboyer, File

FIRST QUARTER 2004 GROUNDWATER MONITORING REPORT

TASK ORDER NUMBER 04-987901-VV
CONTRACT NUMBER 43A0078
HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA

prepared for

California Department of Transportation
District 4
111 Grand Avenue
Oakland, California 94612

Professional Service Industries
4703 Tidewater Avenue, Suite B
Oakland, California 94601

March 2, 2004
575-4G004

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

Information provided in Professional Services Industries, Inc., (PSI) report number 575-4G004 is intended exclusively for the California Department of Transportation (Caltrans) for the evaluation of groundwater contamination as it pertains to the subject site. PSI is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any and all sources or locations of contamination.

This report is issued with the understanding that Caltrans is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Frank R. Poss, R.E.A.
Senior Hydrogeologist

Brand Burfield, RG #6986
Project Geologist

1.0 INTRODUCTION

Professional Service Industries, Inc. (PSI) has been retained by the California Department of Transportation (Caltrans), under Task Order Number 04-987901-VV and Contract Number 43A0078, to perform semi-annual groundwater monitoring at 555 Hegenberger Road in the City of Oakland, California (subject site; Figure 1). The site is the former Hegenberger Maintenance Station.

The scope of work for this investigation includes:

- Semi-annual collection of groundwater samples from five on-site monitoring wells.
- Chemical analysis of the groundwater samples, and
- Preparation of a technical report describing the investigation and interpretation of the data generated.

1.1 PROJECT OBJECTIVE

The objective of the project is to perform semi-annual groundwater monitoring according to established protocol to satisfy regulatory requirements.

1.2 SITE BACKGROUND

In September 1994, four underground storage tanks (USTs) and the associated product piping and pump island were removed. The USTs consisted of two 2,000-gallon diesel USTs and two 6,500-gallon gasoline tanks. Overexcavation was completed to the extent feasible, to remove residual petroleum hydrocarbons impacting the soil. Soil sampling was conducted following the completion of the excavation and indicated elevated concentrations of petroleum hydrocarbons in the remaining soil.

A soil and groundwater investigation was completed in 1995 by Geocon Consultants Inc. to characterize the vertical and lateral extent of petroleum hydrocarbons in soil and groundwater. The investigation included the installation of 5 monitoring wells. The results indicated petroleum hydrocarbons remained in the soil and groundwater.

Subsequent quarterly groundwater monitoring at the site indicated that Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) and TPH as oil and grease (TPH-OG) were not detected, therefore analysis for these constituents was discontinued. TPH as Gasoline (TPH-G) and TPH as Diesel (TPH-D) have been detected in all of the monitoring wells at some point in the history of the site. Benzene has been detected in all of the monitoring wells and methyl tert butyl ether (MTBE) has been detected in all of the wells with the exception of MW-2.

After six years of groundwater monitoring, no consistent attenuation of the contaminant concentrations could be established. As a result, as of the 3rd Quarter 2002, the Alameda County Department of Environmental Health Services (ACEHS) changed the monitoring frequency to semi-annual. The March 30, 2001 monitoring indicated that MTBE was no longer present above laboratory detection limits. As a result, the ACEHS stated that MTBE was no longer a contaminant of concern.

As a result of semi-annual groundwater monitoring, the ACDEHS requested further site characterization to determine the extent of the groundwater plume. Additional soil and groundwater sampling and analyses were performed up gradient, down gradient, and within the former underground storage tank pit area.

There are known Leaking Underground Storage Tank (LUST) sites in the vicinity of the subject site. However, based on the non detect to trace concentrations of petroleum hydrocarbons found in the hydraulically up-gradient monitoring wells, the impact of the off-site LUST sites appears to be minimal in the area of the former underground storage tanks at the Caltrans site

Data obtained from previous investigations are included in Appendix A.

2.0 GROUNDWATER MONITORING ACTIVITIES

2.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

On January 12, 2004, static groundwater elevations were measured in monitoring wells MW-1 through MW-5 (Figure 2). The groundwater depths were measured in accordance with the field procedures outlined in Section 2.2, using a groundwater interface probe.

A summary of the depth-to-groundwater data collected during this monitoring event is presented in Table 1. The monitoring well top-of-casing elevations have been surveyed with reference to an arbitrary point on the ground surface with an assumed elevation of 100 feet. As such, groundwater level measurements are accurate relative to each other for gradient evaluation but are not reflective of mean sea level. The groundwater elevation data does not support a specific flow direction (Figure 2). Historic groundwater flow data, however, has been toward the northwest. PSI recommends that the site be re-surveyed with respect to mean sea level for submittal to the Geotracker Program as required by the State Water Resources Board.

2.2 GROUNDWATER SAMPLING

Groundwater samples were collected from monitoring wells MW-1 through MW-5. Prior to the collection of groundwater samples, each monitoring well was purged of a minimum of three well volumes of water and until pH, conductivity, and temperature stabilized. The well was allowed to recover to at least 80 percent of their original static groundwater levels prior to sampling, if purged dry.

The following procedures were implemented while performing well monitoring, well purging, and water sampling:

1. All non-dedicated equipment was washed prior to entering the well with an Alconox solution, followed by a deionized water rinse.

2. Prior to purging the wells, depth-to-water was measured using a Solinst groundwater interface probe to an accuracy of approximately 0.01 foot.

3. Monitoring wells at the site were prepared for sampling by purging the well of approximately 3 well volumes of water using a groundwater pump.

4. Water samples were collected with a groundwater pump after the well had been purged. If the well was purged dry, a sample was collected after the water in the well had equilibrated to approximately 80 percent of the static water level or 2 hours after well purging, whichever occurred first. The containers were overfilled, capped, labeled, and placed in a chilled cooler prior to delivery to the laboratory for analysis.

5. Chain-of-custody procedures, including chain-of-custody forms, were used to document water sample handling and transport from collection to delivery to the laboratory for analyses.

6. Groundwater samples were delivered to the State-certified hazardous waste laboratory within approximately 24-hours of collection.

7. Purged water was contained in DOT approved 55-gallon drums. The drums were labeled with the contents, date, well number, client name, and project number.

The groundwater monitoring purge logs are presented in Appendix B.

2.3 LABORATORY ANALYSIS AND RESULTS

Five groundwater samples were submitted for analyses to Basic Laboratory of Redding, California, a State of California certified hazardous waste analytical laboratory. The samples were analyzed for the following:

- EPA 8015 modified - Total Petroleum Hydrocarbons as Gasoline (TPH-G);
- EPA 8260 - Volatile Organic Compounds (VOCs).

A summary of the laboratory results for groundwater samples is presented in Table 1. A copy of the laboratory reports and chain of custody records are presented in Appendix C. The following are the results of the groundwater sampling:

- TPH-G was detected in all of the groundwater samples with the highest concentration detected in MW-3 at 3,320 micrograms per liter (ug/l).

- VOCs were detected in all of the groundwater samples except MW-2. The concentrations were compared to each of the compounds' State of California Primary Drinking Water Standard (PDWS) with only benzene found to be greater than its respective PDWS. Benzene concentrations in all of the monitoring wells, with the exception of MW-2, were above the PDWS for benzene of 1 ug/L. The highest benzene concentration detected was in MW-3 at 632 ug/L. Benzene concentrations are shown in Figure 3. The benzene-impacted groundwater has not been defined to the northwest.

3.0 SUMMARY AND CONCLUSIONS

PSI performed groundwater-monitoring activities on January 12, 2004. The results of the monitoring event are summarized below.

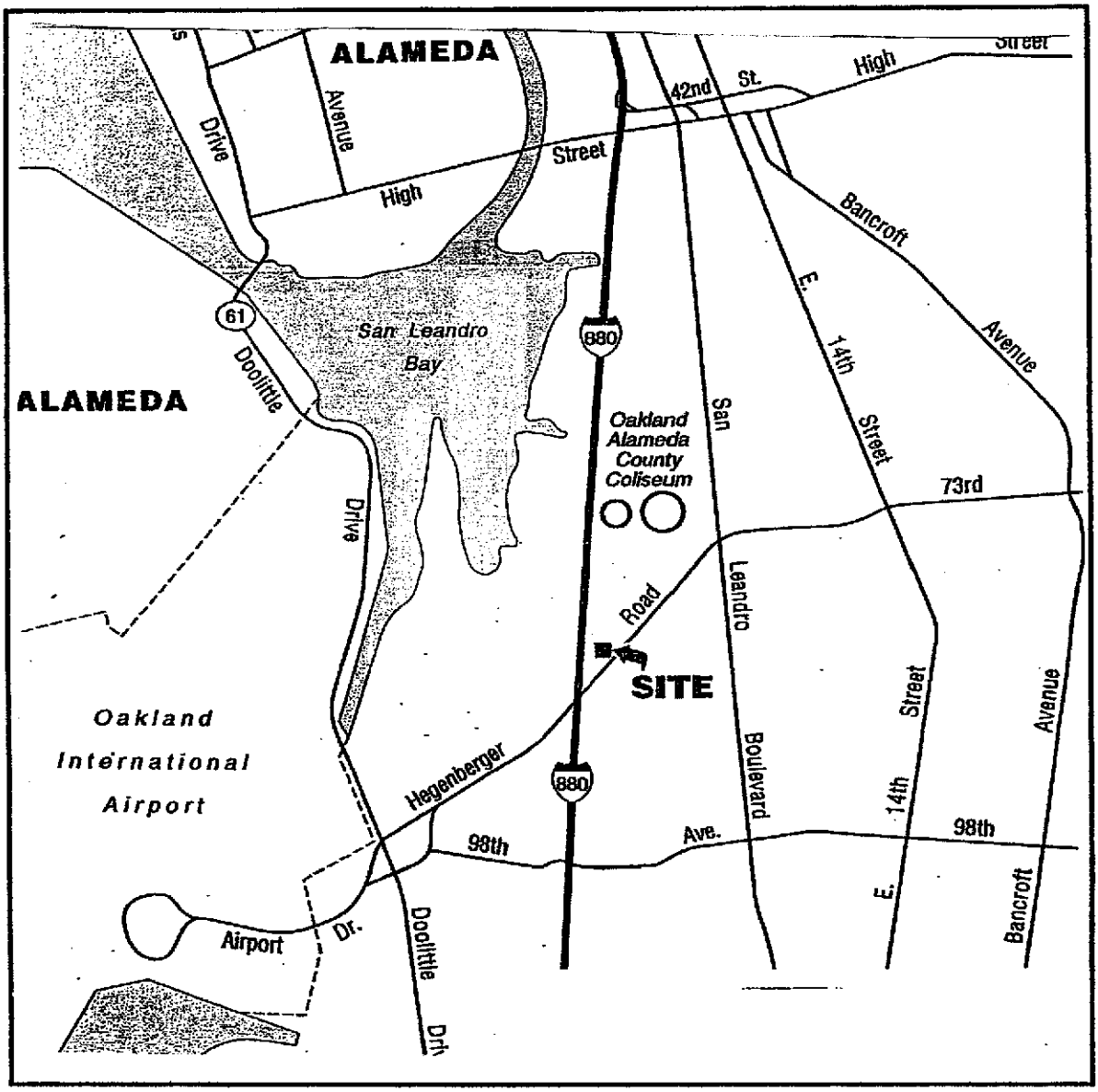
- TPH-G was detected in all of the groundwater samples with the highest concentration detected in MW-3 at 3,320 ug/l.

- Benzene is the primary contaminant of concern at the site. Benzene concentrations were detected above the PDWS in all of the groundwater samples except MW-2. The benzene-impacted groundwater has not been defined to the northwest.

- Benzene and TPH-G concentrations in groundwater samples collected from two monitoring wells increased, while they decreased in three monitoring wells. The variation is typical of seasonal and analytical variations.

4.0 RECOMMENDATIONS

Based on the presence of benzene in groundwater at concentrations above the PDWS, PSI recommends that semi-annual monitoring of groundwater at the site continue.

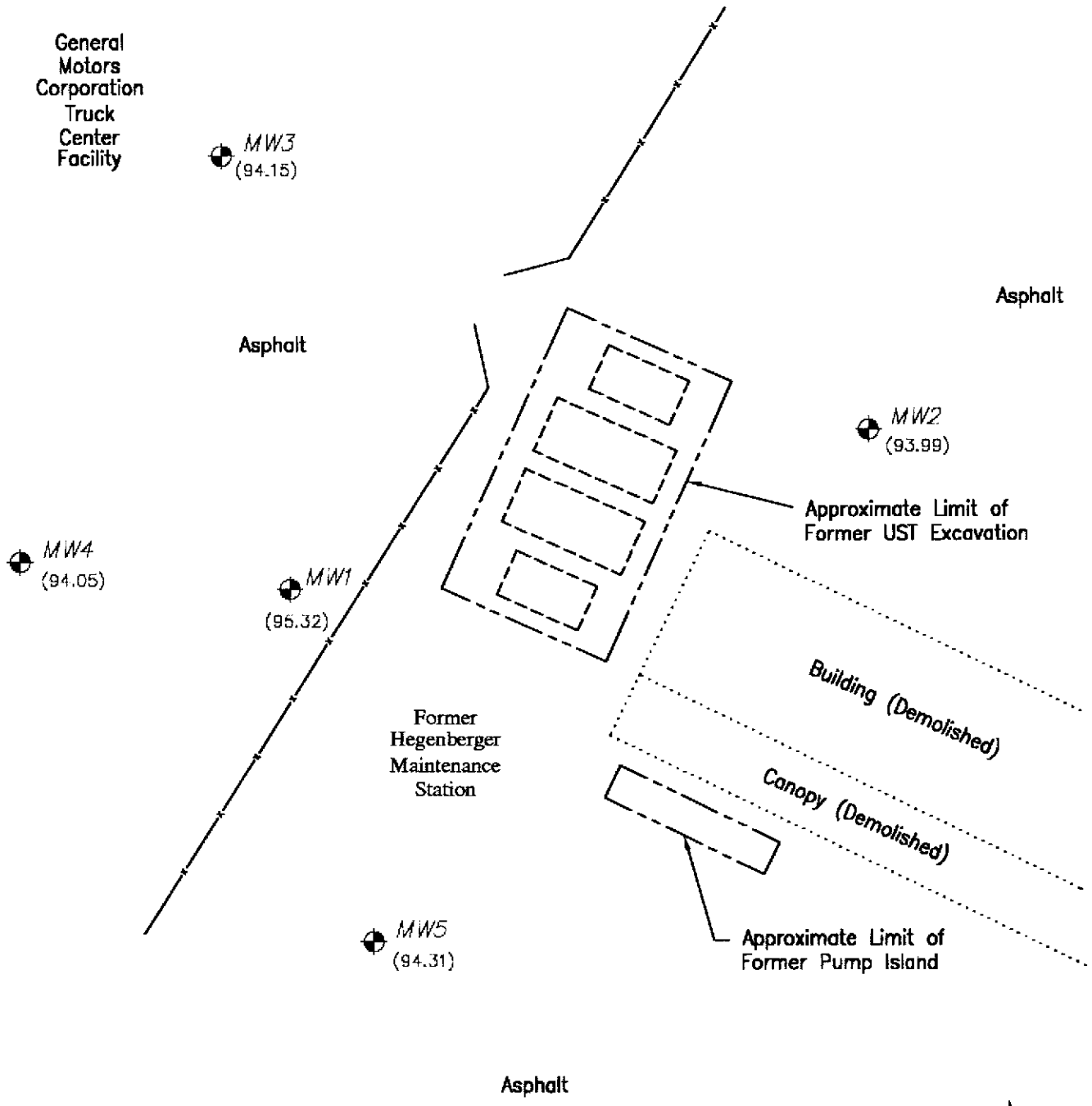


NORTH

0 1/2 1 MILE

SCALE

Information To Build On Engineering • Consulting • Testing	4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200			
Project Name: FORMER CALTRANS MAINTENANCE STATION 655 HEGENBERGER ROAD, OAKLAND, CA		Drawn By: B.S.	Date: 9/02	File No.: 2G020-01
Title: SITE LOCATION MAP		Approved By: F.P.	Project No.: 575-2G020	Figure No.: 1



LEGEND:

MW5
(94.31) – GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET)

LOCATION OF FORMER UST

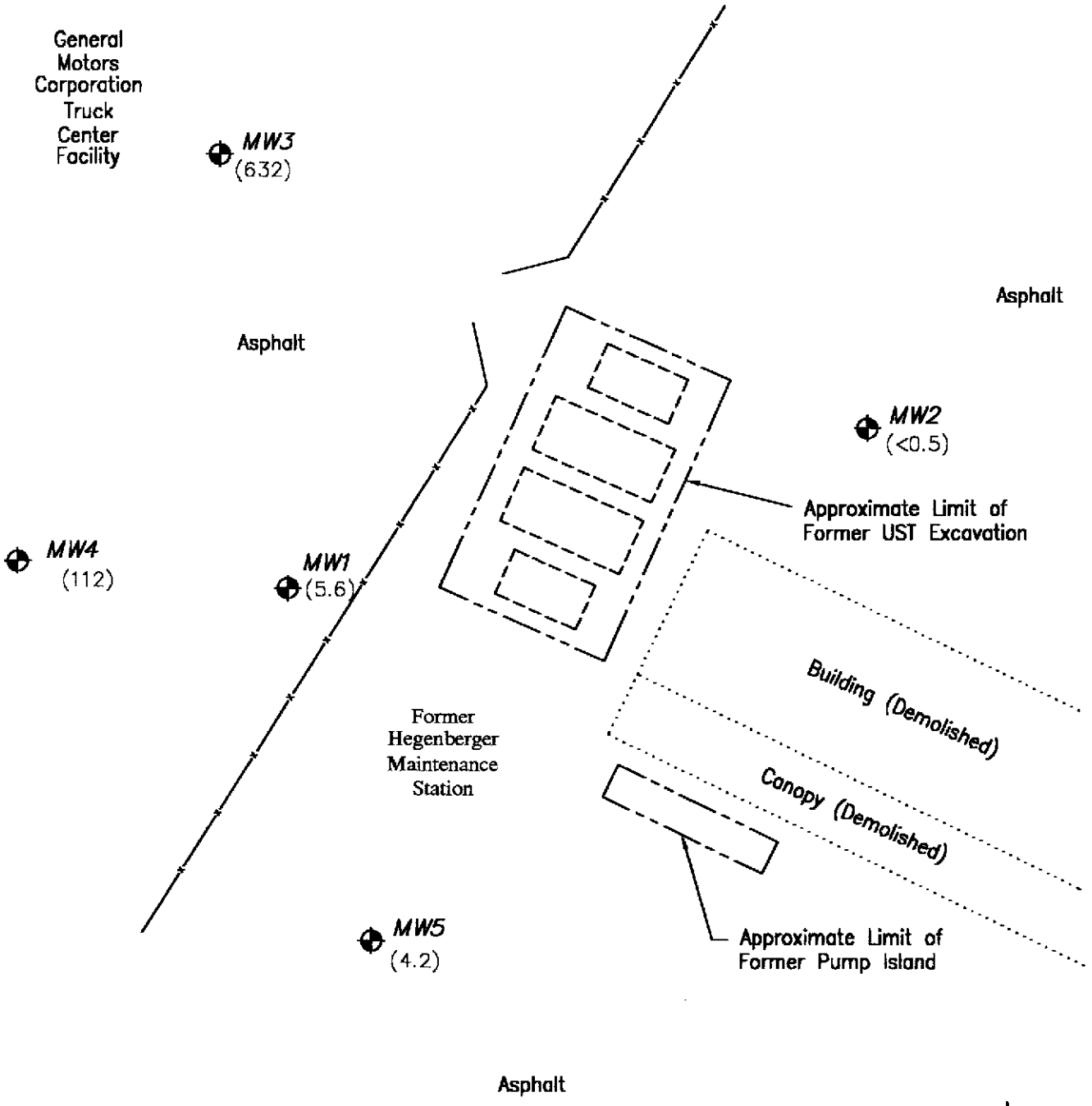
NORTH

0 5' 10' 20.0'
Approx. Scale: 1"=20'

psi Information To Build On
Engineering • Consulting • Testing

4703 Tidewater Avenue, Suite B
Oakland, California 94601
(510) 434-9200

Project Name: FORMER HEGENBERGER MAINTENANCE STATION, 666 HEGENBERGER ROAD, OAKLAND, CALIFORNIA	Drawn By: F.P.	Date: 3/03	File No.: 2G020-002	Figure No.: 2
Title: GROUNDWATER ELEVATION MAP (1/12/04)	Approved By: F.P.	Project No.: 575-2G020		



LEGEND:

(5.6) – CONCENTRATION (ug/L) OF BENZENE DETECTED IN GROUNDWATER SAMPLES

GROUNDWATER MONITORING WELL LOCATION

LOCATION OF FORMER UST

NORTH

0 5' 10' 20.0'

Approx. Scale: 1"=20'

psi Information To Build On
Engineering • Consulting • Testing

4703 Tidewater Avenue, Suite B
Oakland, California 94601
(510) 434-9200

Project Name:	Drawn By:	Date:	File No.:	Figure No.:
FORMER HEGENBERGER MAINTENANCE STATION 555 HEGENBERGER ROAD, OAKLAND, CALIFORNIA	B.S.	2/04	2G020-002	3
Title: BENZENE CONCENTRATION MAP (1/12/04)	Approved By: P.P.	Project No.: 575-2G020		

TABLE 1

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
FORMER HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA

Sample I.D.	Date	TOC Elevation (feet)	Depth To Ground water (feet)	Ground water Elevation (feet)	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	9/30/2002	99.73	5.79	93.94	**592**	<50	**12**	**2.7**	<0.5	**1.6**	<0.5
	2/20/2003	99.73	4.49	95.24	**2,650**	---	**36.9**	**10.6**	**7**	**18.1**	<5
	1/12/2004	99.73	4.41	95.32	**1,610**	---	**5.6**	**1.8**	**0.6**	**1.4**	---
MW-2	9/30/2002	99.68	6.48	93.20	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5
	2/20/2003	99.68	5.98	93.70	**107**	---	**6.6**	<0.5	<0.5	<1.0	<0.5
	1/12/2004	99.68	5.69	93.99	**66.5**	---	<0.5	<0.5	<0.5	<1.0	---
MW-3	9/30/2002	98.92	5.84	93.08	**2,020**	**568**	**775**	**17.2**	**1.0**	**9.4**	<0.5
	2/20/2003	98.92	5.55	93.37	**4,010**	---	**1120**	<50	<50	<100	<50
	1/12/2004	98.92	4.77	94.15	**3,320**	---	**632**	**26.9**	<25.0	<50.0	---
MW-4	9/30/2002	99.46	6.40	93.06	**67**	<50	<0.5	<0.5	<0.5	<1.5	<0.5
	2/20/2003	99.46	5.83	93.63	**573**	---	**107**	<10	<10	<20	<10
	1/12/2004	99.46	5.41	94.05	**699**	---	**122**	**13.5**	**0.6**	**8.8**	---
MW-5	9/30/2002	99.91	6.18	93.73	**562**	**426**	**1.8**	**5.2**	<0.5	**6.5**	<0.5
	2/20/2003	99.91	5.8	94.11	**1,040**	---	<2.5	**8.6**	<2.5	**11.3**	<2.5
	1/12/2004	99.91	5.60	94.31	**1,820**	---	**4.2**	**8.0**	**0.6**	**12.8**	---

Notes:

TOC = Top of casing elevation

MTBE = Methyl tert-butyl ether

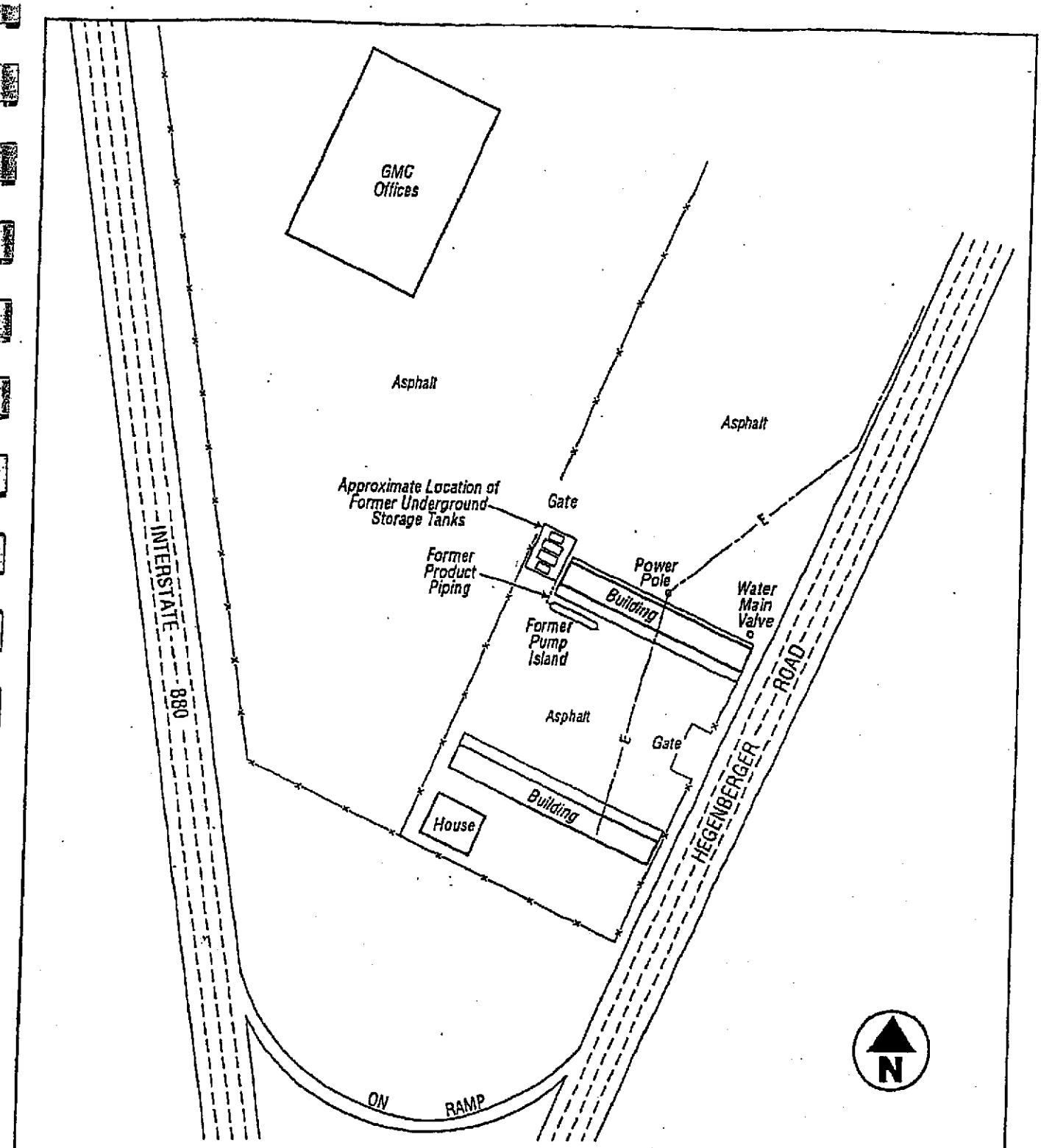
< = Not detected above laboratory detection limits indicated

TPH-G = Total petroleum hydrocarbons as gasoline

TPH-D = Total petroleum hydrocarbons as diesel

Al results are presented in micrograms per liter (ug/L)

--- = Not Analyzed



NOT TO SCALE

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
5235 SUNRISE BLVD. - SUITE 5 - RANCHO CORDOVA, CALIFORNIA 95742
PHONE 916 852-9118 - FAX 916 852-9132

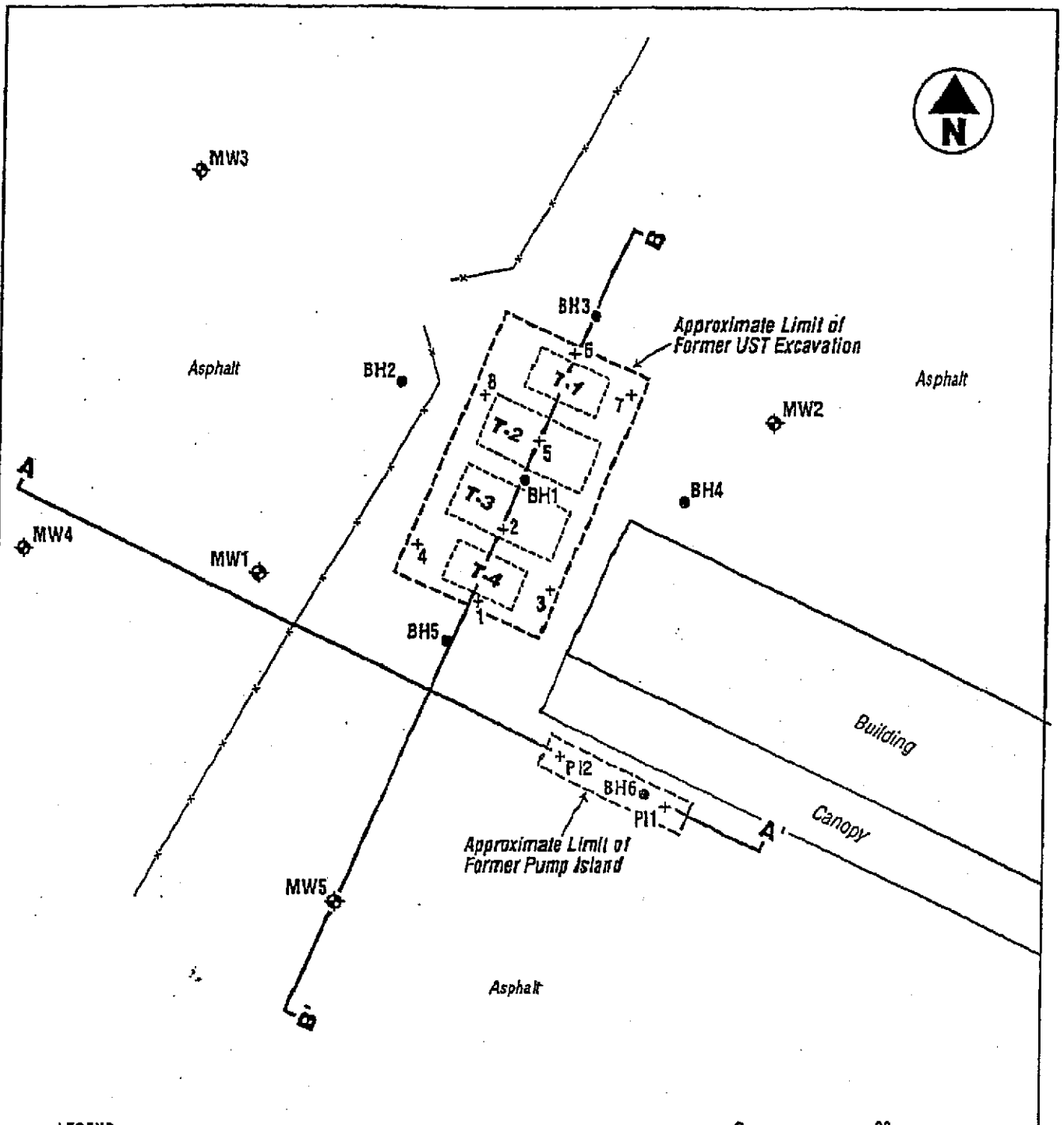
Hegenberger Maintenance Station

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
- 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
- A — A' Cross Section A - A'
- B — B' Cross Section B - B'

0 20
Scale in Feet

GEOCON
ENVIRONMENTAL CONSULTANTS INCORPORATED
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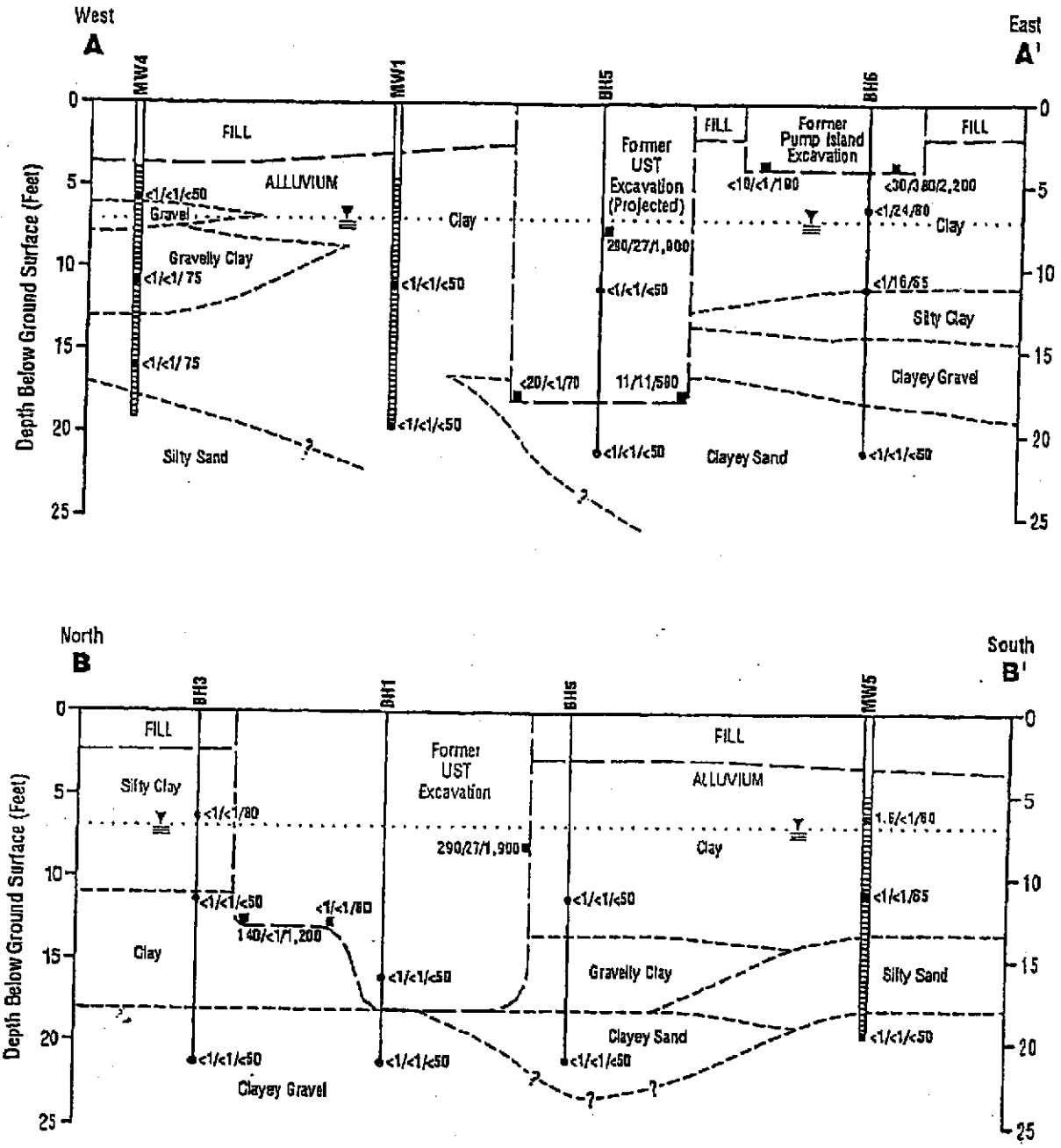
Hegenberger Maintenance Station

555 Hegenberger Road
Oakland, California

SOIL BORING AND WELL LOCATIONS

GEOCON Proj. No. S8100-06-34

Task Order No. 04-5T9000-01 | January 1996 | Figure 3



LEGEND:

- BH3 — Boring Location
- <1/<1/<50 — 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)

GEOCON
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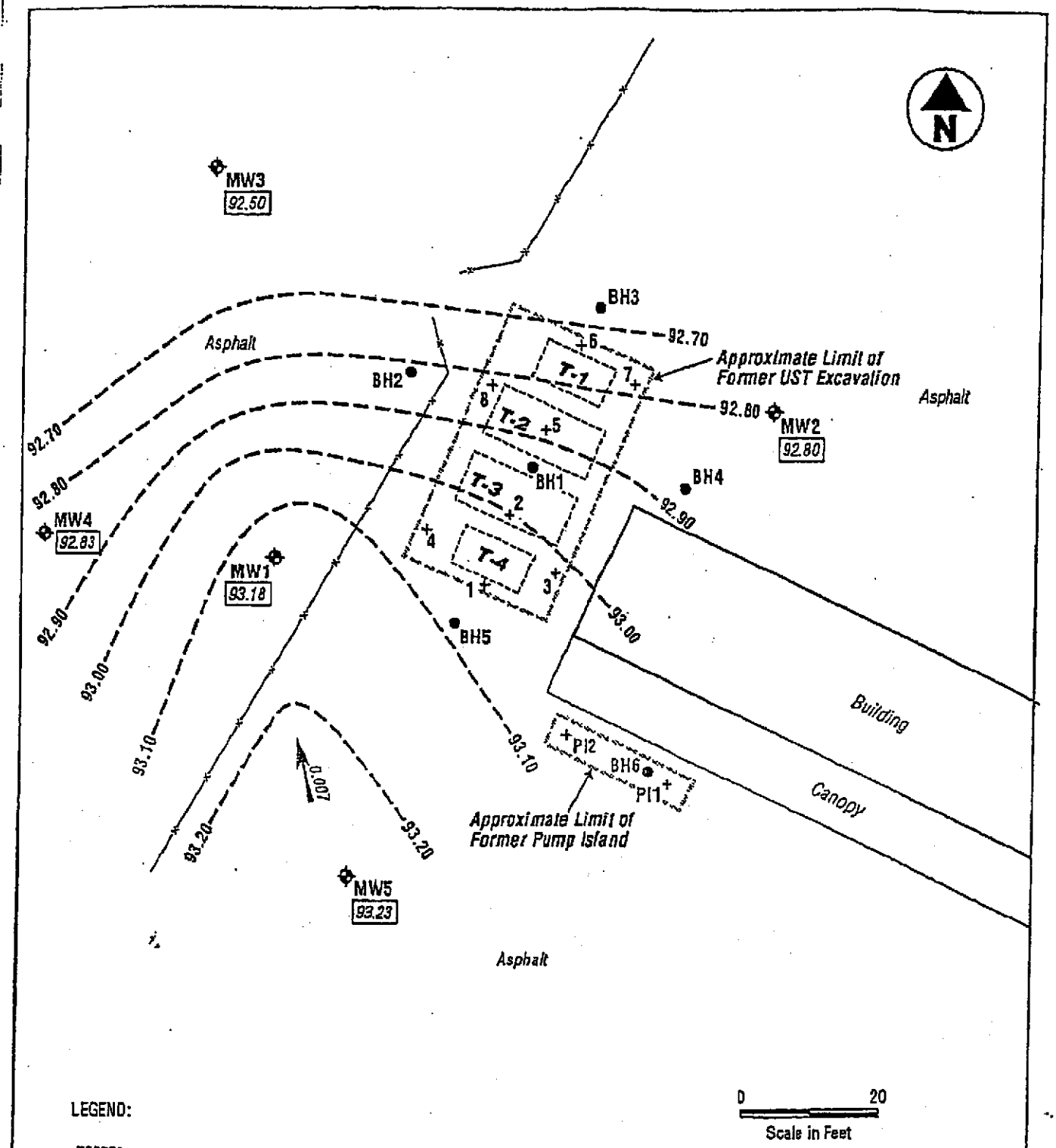
Hegenberger Maintenance Station

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 FL)
- 93.18 Relative Elevation of Groundwater Measured 10/11/95
- 0.007 Approximate Groundwater Gradient

GEOCON
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Hegenberger Maintenance Station

555 Hegenberger Road
Oakland, California

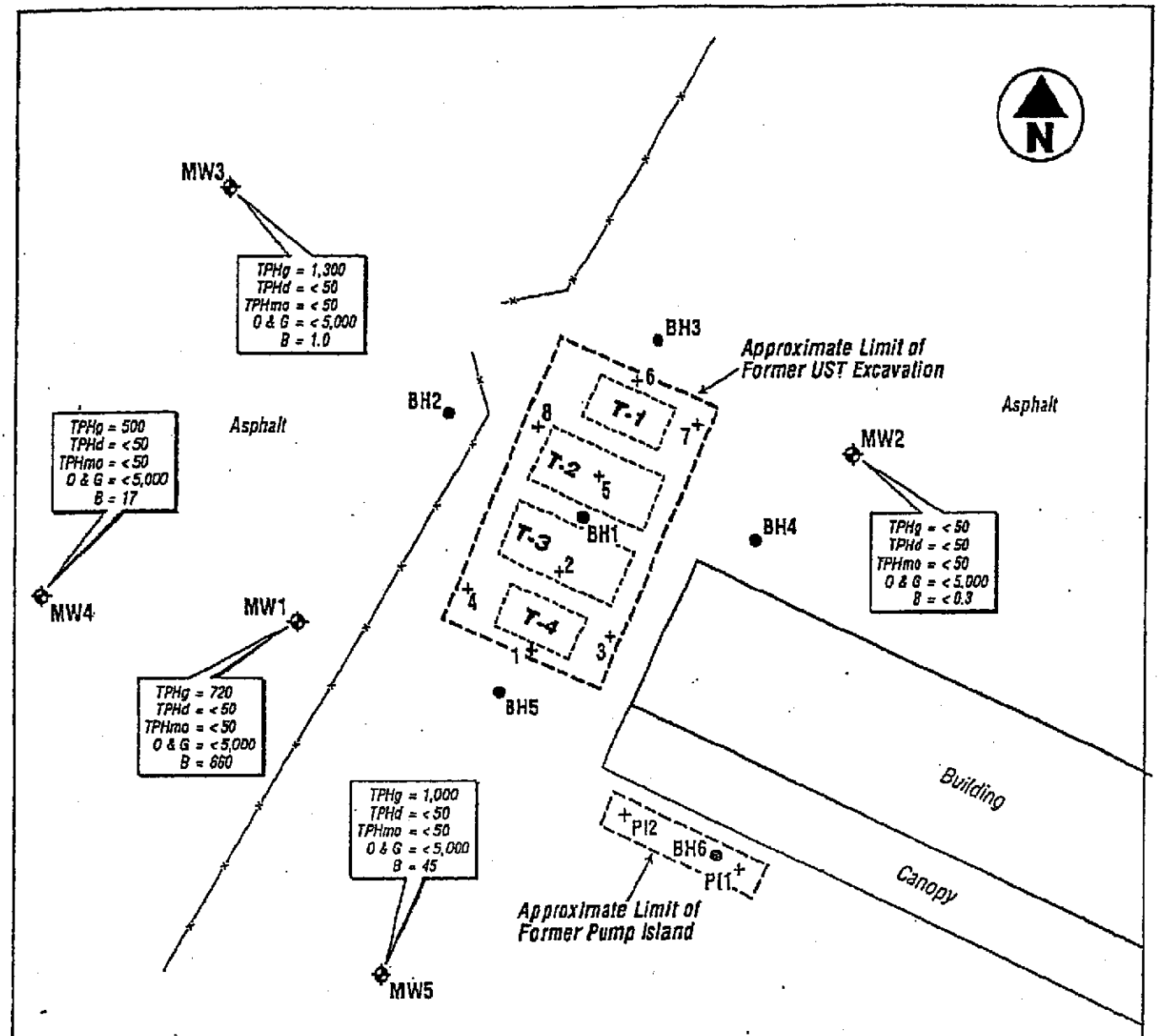
GROUNDWATER ELEVATION MAP - 10/11/95

GEOCON Proj. No. S8100-06-34

Task Order No. 04-ST9000-01

January 1996

Figure 5



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

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)

0 20
Scale in Feet

GEOCON
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Hegenberger Maintenance Station

555 Hegenberger Road
Oakland, California

PETROLEUM HYDROCARBONS IN GROUNDWATER- 10/11/95

GEOCON Proj. No. S8100-06-34

Task Order No. 04-5T9000-01 | January 1996 | Figure 6

TABLE 1
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
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

Project No. SB100-06-34
January 23, 1996

TABLE I
SUMMARY OF SOIL ANALYTICAL LABORATORY RESULTS
HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA
TASK ORDER NO. 04-519000-01
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-ST9000-01
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"

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA

Well	Date	TOC Elevation (Feet, REF)	Depth to Water (Feet, BTOC)	Water Elevation (Feet, REF)
MW1	10/11/1995	99.73	6.55	93.18
	1/17/1996	99.73	5.64	94.09
	4/16/1996	99.73	5.46	94.27
	8/26/1996	99.73	5.91	93.82
	11/14/1996	99.73	6.16	93.57
	2/18/1998	99.73	3.82	95.91
	3/30/2001	99.73	6.19	93.54
	12/26/2001	10.26*	4.08	6.18
MW2	10/11/1995	99.68	6.88	92.8
	1/17/1996	99.68	5.32	94.36
	4/16/1996	99.68	5.81	93.87
	8/26/1996	99.68	5.98	93.7
	11/14/1996	99.68	6.72	92.96
	2/18/1998	99.68	5.01	94.67
	3/30/2001	99.68	6.54	93.14
	12/26/2001	10.22*	5.53	4.69
MW3	10/11/1995	98.92	6.42	92.5
	1/17/1996	98.92	5.82	93.1
	4/16/1996	98.92	5.85	93.07
	8/26/1996	98.92	5.72	93.2
	11/14/1996	98.92	6.28	92.64
	2/18/1998	98.92	4.65	94.27
	3/30/2001	98.92	5.62	93.30
	12/26/2001	9.46*	4.66	4.80
MW4	10/11/1995	99.46	6.63	92.83
	1/17/1996	99.46	5.77	93.69
	4/16/1996	99.46	5.89	93.57
	8/26/1996	99.46	6.14	93.32
	11/14/1996	99.46	6.72	92.74
	2/18/1998	99.46	5.02	94.44
	3/30/2001	99.46	6.21	93.25
	12/26/2001	10.00*	5.37	4.63

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HEGENBERGER MAINTENANCE STATION
OAKLAND, CALIFORNIA

Well	Date	TOC Elevation (Feet, REF)	Depth to Water (Feet, BTOC)	Water Elevation (Feet, REF)
MW5	10/11/1995	99.91	6.68	93.23
	1/17/1996	99.91	5.74	94.17
	4/16/1996	99.91	5.85	94.06
	8/26/1996	99.91	5.99	93.92
	11/14/1996	99.91	6.70	93.21
	11/14/1996	99.91	6.70	93.21
	2/18/1998	99.91	5.74	94.17
	3/30/2001	99.91	6.73	93.18
	12/26/2001	10.34*	5.23	5.11

Notes:

Feet, BTOC = Feet below top of well casing

TOC = Top of well casing

Feet, REF = Feet, with respect to an arbitrary datum reference

* = elevation data in feet above mean sea level and based on the California State Coordinate System, Zone III (NAD83), (NGVD29)

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Boring ID	Date	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	MTBE (ug/kg)	Other VOCs (ug/kg)
BH6-11	12/26/01	<1.0	1.0*	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0	<5.0
BH9-6.5	12/26/01	<1.0	1.7*	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0 (<5.0)	<5.0	<5.0

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline following EPA Test Method 8015B
TPHd = Total Petroleum Hydrocarbons as diesel following EPA Test Method 8015B
BTEX = benzene, toluene, ethylbenzene, and total xylenes following EPA Test Method 8020 (8260)
MTBE = methyl tertiary butylether following EPA Test Method 8020
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
(xxx) = BTEX result by EPA Test Method 8260B
ND = Not detected at a concentration greater than the laboratory reporting limit.
< = less than indicated reporting limit
* = The sample contains hydrocarbons that fall within the diesel range but do not match the diesel pattern. Quantitation is based on the diesel standard.

TABLE 3
SUMMARY OF GRAB GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Boring ID	Date	TPHg (mg/l)	TPHd (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	Other VOCs (ug/l)
BH6	12/26/01	0.065	0.17*	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50	<5.0
BH7	12/26/01	0.078	0.098*	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50	1,1,2-Trichloroethane = 10 1,1-Dichloroethane = 99 1,1-Dichloroethene = 54
BH8	12/26/01	0.089	---	<0.50 (<5.0)	0.74 (<5.0)	<0.50 (<5.0)	1.5 (<5.0)	<0.50	<5.0
BH9	12/26/01	0.060	0.3*	<0.50 (<5.0)	<0.50 (<5.0)	<0.50(<5.0)	0.76 (<5.0)	<0.50	<5.0

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline following EPA Test Method 8015B
TPHd = Total Petroleum Hydrocarbons as diesel following EPA Test Method 8015B
BTEX = benzene, toluene, ethylbenzene, and total xylenes following EPA Test Method 8020 (8260)
MTBE = methyl tertiary butylether following EPA Test Method 8020/8260B
mg/l = milligrams per liter
ug/l = micrograms per liter
--- = Analysis not performed
(xxx) = BTEX result by EPA Test Method 8260B
ND = Not detected at a concentration greater than the laboratory reporting limit.
< = less than indicated reporting limit
* = The sample contains hydrocarbons that fall within the diesel range but do not match the diesel pattern. Quantitation is based on the diesel standard.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	TPHmb (mg/l)	Oil & Grease (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	Other VOCs (ug/l)
MW1	10/11/95	0.720	<0.050	<0.050	<5	660	13	4.7	2.8	---	---
	1/17/96	4.40	<0.050	<0.050	---	1,000	30	21	17	---	---
	4/16/96	6.05	7.45	---	---	914	34.7	34.4	15.8	---	---
	8/26/96	3.8	0.430	---	---	780	23	21	20	---	---
	11/14/96	2.6	0.270	---	---	500	18	14	8.9	---	---
	2/18/98	3.1	0.900	---	---	240	18	7.8	11	20	---
	3/30/01	3.6	0.48*	---	---	150	13	0.69	10.8	ND	< 5.0
	12/26/01	3.0	1.1*	---	---	86 (120)	11 (14)	3.4 (<5.0)	10.5 (11)	5.0	Isopropylbenzene = 7.9 n-butylbenzene = 5.1 n-propylbenzene = 5.3
MW2	10/11/95	< 0.050	< 0.050	< 0.050	< 5	<0.3	<0.3	<0.3	<0.5	---	---
	1/17/96	4.90	< 0.050	< 0.050	---	2,100	<15	<15	<15	---	---
	4/16/96	< 0.050	< 0.050	---	---	1.02	<0.5	<0.5	<0.5	---	---
	8/26/96	< 0.050	< 0.050	---	---	<0.5	<0.5	<0.5	<0.5	---	---
	11/14/96	< 0.050	0.056	---	---	<0.5	<0.5	<0.5	<0.5	---	---
	2/18/98	< 0.050	0.260	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---
	3/30/01	< 0.20	0.37*	---	---	2.7	0.82	< 0.50	0.84	ND	< 5.0
	12/26/01	0.085	0.14	---	---	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50 (<5.0)	<0.50	<5.0
MW3	10/11/95	1.30	< 0.050	< 0.050	< 5	1.0	<0.3	<0.3	<0.3	---	---
	1/17/96	0.171	< 0.050	< 0.050	---	64	<0.3	1.0	<0.3	---	---
	4/16/96	6.74	0.565	---	---	2,770	31	13.9	21.9	---	---
	8/26/96	0.700	0.700	---	---	180	4.2	1.0	4.6	---	---
	11/14/96	0.300	0.120	---	---	6.2	1.2	0.7	1.4	---	---
	2/18/98	11.0	2.50	---	---	3,070	50	54	19	25	---
	3/30/01	9.9	0.49*	---	---	2000 (2,800)	48 (71)	39 (52)	39 (49)	ND	Isopropylbenzene = 92 n-Butylbenzene = 36 n-Propylbenzene = 280 sec-Butylbenzene = 13
	12/26/01	9.4	1.7	---	---	1,500(2,200)	46 (52)	33 (37)	28 (<25)	12	Isopropylbenzene = 85 n-Butylbenzene = 39 n-Propylbenzene = 250

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	Oil & Grease (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	Other VOCs (ug/l)
MW4	10/11/95	0.500	< 0.050	< 0.050	< 5	17	1.1	<0.3	0.48	---	---
	1/17/96	0.459	< 0.050	< 0.050	---	72	4.1	<0.3	1.7	---	---
	4/16/96	2.20	< 0.050	---	---	851	7.67	1.41	5.72	---	---
	8/26/96	0.300	0.110	---	---	55	4.9	1.2	<0.5	---	---
	11/14/96	0.200	0.200	---	---	3.4	<0.5	<0.5	<0.5	---	---
	2/18/98	1.60	0.280	---	---	320	9.1	1.0	0.59	1.7	---
	3/30/01	2.7	0.35*	---	---	320 (430)	16 (22)	5.3	13.6 (13)	ND	Isopropylbenzene = 6.4
	12/26/01	0.55	0.20	---	---	33 (36)	3.0 (<5.0)	<0.50(<5.0)	1.7 (<5.0)	0.76	<5.0
MW5	10/11/95	1.00	< 0.050	< 0.050	< 5	45	15	1.9	6.1	---	---
	1/17/96	< 0.050	< 0.050	< 0.050	---	2	<0.3	<0.3	<0.3	---	---
	4/16/96	1.74	0.855	---	---	157	20.1	3.92	22.4	---	---
	8/26/96	0.900	0.270	---	---	55	6.4	0.9	3.7	---	---
	11/14/96	0.700	0.320	---	---	31	5.7	0.7	3.6	---	---
	2/18/98	1.20	0.580	---	---	14	5.2	0.76	5.5	9.5	---
	3/30/01	1.5	0.48*	---	---	7.2 (9.5)	6.5 (9.6)	< 0.50	10.7 (11)	ND	n-Propylbenzene = 5.1
	12/26/01	1.4	0.76*	---	---	5.0 (5.1)	7.2 (8.1)	0.84 (<5.0)	10.5 (9.8)	3.6	isopropylbenzene = 6.0

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline following EPA Test Method 8015B
TPHd = Total Petroleum Hydrocarbons as diesel following EPA Test Method 8015B
TPHmo = Total Petroleum Hydrocarbons as motor oil following EPA Test Method 8015B
BTEX = benzene, toluene, ethylbenzene, and total xylenes following EPA Test Method 8020 (8260)
FOCs = Fuel Oxygenate Compounds (tert-butanol, methyl tertiary butylether [MTBE], di-isopropyl ether, ethyl tertiary butylether [ETBE], and tertiary amyl methylether[TAME]) following EPA Test Method 8020/8260B
mg/l = milligrams per liter
ug/l = micrograms per liter
--- = Analysis not performed
(xxx) = BTEX result by EPA Test Method 8260B
ND = Not detected at a concentration greater than the laboratory reporting limit
< = less than indicated reporting limit
* = The sample contains hydrocarbons that fall within the diesel range but do not match the diesel pattern. Quantitation is based on the diesel standard.

FLUID MEASUREMENT FIELD DATA

SHEET: 1 OF 1

DATE: 1/12/04 | PROJECT NAME: Hegenberger | PROJECT NO: 46004

WATER LEVEL MEASUREMENT INSTRUMENT: Solinst | SERIAL NO:

PRODUCT DETECTION INSTRUMENT: | SERIAL NO:

EQUIP. DECON: ☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ TAP WATER WASH ☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE ☐ AIR DRY

WELL NUMBER	GROUND SURFACE ELEVATION	TOP OF CASING ELEVATION	DEPTH TO PRODUCT BELOW TOC	DEPTH TO WATER BELOW TOC	WELL DEPTH BELOW TOC.	PRODUCT THICKNESS	WATER TABLE ELEVATION	ACTUAL TIME
MW-1				4.41	19.48			9:37
MW-2				5.69	19.15			9:18
MW-3				4.77	19.50			9:44
MW-4				5.41	16.65			9:26
MW-5				5.60	19.35			9:33

REMEMBER TO CORRECT PRODUCT THICKNESS FOR DENSITY BEFORE CALCULATING WATER TABLE ELEVATION

PREPARED BY: BS

PSI

WELL PURGING AND SAMPLING DATA

WELL NO: MW-1

DATE: 1/12/04 | PROJECT NAME: Hegenberger | PROJECT NO: 46004

WEATHER CONDITIONS: cloudy, cool

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER _____

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

WELL DEPTH (TOC) 19.48 FT. | DEPTH TO WATER BEFORE PURGING (TOC) 4.41 FT.

LENGTH OF WATER 15.07 FT. | CALCULATED ONE WELL VOLUME[1]: 9.8 GAL.

PURGING DEVICE: ☒ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

SAMPLING DEVICE: ☒ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

EQUIP. DECON. ☐ TAP WATER WASH ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE
☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ TAP WATER FINAL RINSE ☐ AIR DRY

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP ☐ °F ☒ °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
11:13	INITIAL	19.0	859.5	8.30			CO	odor
11:17	10	18.0	849.7	8.20			CL	
11:23	20	18.8	984.3	8.03			CL	
11:29	30	19.0	1000	8.05			CL	

DEPTH TO WATER AFTER PURGING (TOC) _____ FT. | SAMPLE FILTERED ☐ YES ☐ NO SIZE _____

NOTES:

SAMPLE TIME: 11:30 ID# MW-1

DUPLICATE ☐ TIME: ID#:

EQUIP. BLANK: ☐ TIME: ID#:

PREPARED BY: BS

[1] A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

PSI

WELL PURGING AND SAMPLING DATA

WELL NO: MW-2

DATE: 1/12/04 | PROJECT NAME: Hegenberger | PROJECT NO: 46004

WEATHER CONDITIONS: Cloudy, cool

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER _____

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

WELL DEPTH (TOC) 19.15 FT. | DEPTH TO WATER BEFORE PURGING (TOC) 5.69 FT.

LENGTH OF WATER 13.46 FT. | CALCULATED ONE WELL VOLUME[1]: 8.7 GAL.

PURGING DEVICE: ☒ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

SAMPLING DEVICE: ☒ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

EQUIP. DECON. ☐ TAP WATER WASH ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE
☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ TAP WATER FINAL RINSE ☐ AIR DRY

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP ☐ °F ☒ °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
9:55	INITIAL	20.3	2298	8.63			CO	
9:58	10	20.0	1986	8.40			CO	
10:03	20	20.5	2066	8.18			CO	
10:06	30	20.8	2080	8.14			CO	

DEPTH TO WATER AFTER PURGING (TOC) FT. | SAMPLE FILTERED ☐ YES ☐ NO SIZE _____

NOTES:

SAMPLE TIME: 10:08 ID# MW-2

DUPLICATE ☐ TIME: ID#:

EQUIP. BLANK: ☐ TIME: ID#:

PREPARED BY: BS

[1] A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

PSI

WELL PURGING AND SAMPLING DATA

WELL NO: MW-3

DATE: 1/12/04 PROJECT NAME: Hegenberger PROJECT NO: 46004

WEATHER CONDITIONS: Sunny, cool

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER _____

SAMPLE TYPE: ☑ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

WELL DEPTH (TOC) 19.50 FT. | DEPTH TO WATER BEFORE PURGING (TOC) 4.77 FT.

LENGTH OF WATER 14.73 FT. | CALCULATED ONE WELL VOLUME[1]: 9.6 GAL.

PURGING DEVICE: ☑ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

SAMPLING DEVICE: ☑ DEDICATED ☐ DISPOSABLE ☒ DECONTAMINATED

EQUIP. DECON. ☐ TAP WATER WASH ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE
☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ TAP WATER FINAL RINSE ☐ AIR DRY

CONTAINER PRESERVATION: ☒ LAB PRESERVED ☐ FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP ☐ °F ☑ °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
11:43	INITIAL	19.7	4542	7.57			CL	
11:46	10	19.3	1992	7.91			CL	
11:52	20	19.4	2233	7.82			CL	
11:58	30	19.8	2307	7.84			CL	

DEPTH TO WATER AFTER PURGING (TOC) FT. | SAMPLE FILTERED ☐ YES ☐ NO SIZE _____

NOTES:

SAMPLE TIME: 12:02 ID# MW-3

DUPLICATE ☐ TIME: ID#:

EQUIP. BLANK: ☐ TIME: ID#:

PREPARED BY: BS

[1] A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

WELL NO: MW-4

DATE: 1/12/04 PROJECT NAME: Hegenberger PROJECT NO: 46004

WEATHER CONDITIONS: Cloudy, Cool

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER _____

SAMPLE TYPE: ☑ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

WELL DEPTH (TOC) 16.65 FT. DEPTH TO WATER BEFORE PURGING (TOC) 5.41 FT.

LENGTH OF WATER 11.24 FT. CALCULATED ONE WELL VOLUME[1]: 7.3 GAL.

PURGING DEVICE: ☑ DEDICATED ☐ DISPOSABLE ☑ DECONTAMINATED

SAMPLING DEVICE: ☑ DEDICATED ☐ DISPOSABLE ☑ DECONTAMINATED

EQUIP. DECON. ☐ TAP WATER WASH ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE
☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ TAP WATER FINAL RINSE ☐ AIR DRY

CONTAINER PRESERVATION: ☑ LAB PRESERVED ☐ FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP ☐ °F ☑ °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
10:22	INITIAL	19.0	2888	8.03			CO	odor
10:24	7	19.1	2905	8.00			CO	
10:27	14	19.4	3362	7.90			CL	
10:30	21	20.2	3296	7.79			CL	

DEPTH TO WATER AFTER PURGING (TOC) _____ FT. SAMPLE FILTERED ☐ YES ☐ NO SIZE _____

NOTES:

SAMPLE TIME: 10:32 ID# MW-4

DUPLICATE ☐ TIME: ID#:

EQUIP. BLANK: ☐ TIME: ID#:

PREPARED BY: BS

[1] A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

WELL NO: MW-5

DATE: 1/12/04 | PROJECT NAME: Hegenberger | PROJECT NO:

WEATHER CONDITIONS: Cloudy, Cool

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ OTHER _____

SAMPLE TYPE: ☒ GROUNDWATER ☐ WASTEWATER ☐ SURFACE WATER ☐ OTHER

WELL DEPTH (TOC) 19.35 FT. | DEPTH TO WATER BEFORE PURGING (TOC) 5.6 FT.

LENGTH OF WATER 13.75 FT. | CALCULATED ONE WELL VOLUME[1]: 8.9 GAL.

PURGING DEVICE: ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

SAMPLING DEVICE: ☐ DEDICATED ☐ DISPOSABLE ☐ DECONTAMINATED

EQUIP. DECON. ☐ TAP WATER WASH ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
☐ ALCONOX WASH ☐ DIST/DEION 1 RINSE ☐ OTHER SOLVENT ☐ DIST/DEION FINAL RINSE
☐ LIQUINOX WASH ☐ DIST/DEION 2 RINSE ☐ TAP WATER FINAL RINSE ☐ AIR DRY

CONTAINER PRESERVATION: ☐ LAB PRESERVED ☐ FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP ☐ °F ☒ °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
10:45	INITIAL	19.5	1401	8.38			Cl	odor
10:47	9	19.5	1140	8.28			Cl	
10:49	18	19.1	1136	8.17			Cl	
10:54	27	19.7	1305	7.98			Cl	

DEPTH TO WATER AFTER PURGING (TOC) FT. | SAMPLE FILTERED ☐ YES ☐ NO SIZE _____

NOTES:

SAMPLE TIME: 10:55 ID# MW-5

DUPLICATE ☐ TIME: ID#:

EQUIP. BLANK: ☐ TIME: ID#:

PREPARED BY: BS

[1] A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

PSI

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January 28, 2004

Lab ID: 4010344

FRANK POSS
PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
RE: General Testing HEGENBERGER - 4G004

Dear FRANK POSS,

Enclosed are the analysis results for Work Order number 4010344. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

For

James E. Hawley
Laboratory Director
California ELAP Certification Number 1677

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-1 **Lab ID:** 4010344-01
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 11:30
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Acetone	ug/l	ND			5.0	EPA 8260	01/16/04	01/15/04	B4A0243
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	**5.6**	QM-4X		0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			0.5	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	**6.0**			0.5	"	"	"	"
sec-Butylbenzene	"	**3.1**			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	**0.6**			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	**9.8**			0.5	"	"	"	"

Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677

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Redding, California 96001

Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-1 **Lab ID:** 4010344-01
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 11:30
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Di-isopropyl ether	"	ND			0.5	"	"	01/15/04	"
Isopropyltoluene	"	ND			0.5	"	"	"	"
Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	ND			1.0	"	"	"	"
Naphthalene	"	ND			0.5	"	"	"	"
Propylbenzene	"	**8.2**			0.5	"	"	"	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	**1.8**			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			0.5	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	**1.1**			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	**1.4**			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		*75.9 %*		*28-129*		"	"	"	"
Surrogate: Toluene-d8		*100 %*		*52-150*		"	"	"	"
Surrogate: 4-Bromofluorobenzene		*108 %*		*43-155*		"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-1 **Lab ID:** 4010344-01
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 11:30
Received: 01/13/04 11:25

EPA 8015/8260 - Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Gasoline	ug/l	**1610**	R-06		500	EPA 8015/8260	01/22/04	01/15/04	B4A0243
Surrogate: 4-Bromofluorobenzene		*108 %*		*43-155*		"	*01/16/04*	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-2 **Lab ID:** 4010344-02
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 10:08
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Acetone	ug/l	ND			5.0	EPA 8260	01/21/04	01/16/04	B4A0243
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	ND	QM-4X		0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			0.5	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	ND			0.5	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	ND			0.5	"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-2 **Lab ID:** 4010344-02
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 10:08
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Di-isopropyl ether	"	ND			0.5	"	"	01/16/04	"
p-Isopropyltoluene	"	ND			0.5	"	"	"	"
4-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	ND			1.0	"	"	"	"
Naphthalene	"	ND			0.5	"	"	"	"
n-Propylbenzene	"	ND			0.5	"	"	"	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			0.5	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	ND			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	ND			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*		*28-129*		"	"	"	"
Surrogate: Toluene-d8		*106 %*		*52-150*		"	"	"	"
Surrogate: 4-Bromofluorobenzene		*106 %*		*43-155*		"	"	"	"

Approved By
Basic Laboratory, Inc.
California D.O.H.S. Cert #1677

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-2 **Lab ID:** 4010344-02
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 10:08
Received: 01/13/04 11:25

EPA 8015/8260 - Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Gasoline	ug/l	**66.5**			50.0	EPA 8015/8260	01/21/04	01/16/04	B4A0243
Surrogate: 4-Bromofluorobenzene		*106 %*		*43-155*		"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-3 **Lab ID:** 4010344-03
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 12:02
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Acetone	ug/l	ND			250	EPA 8260	01/16/04	01/15/04	B4A0243
Acrylonitrile	"	ND			250	"	"	"	"
Benzene	"	**632**	QM-4X		25.0	"	"	"	"
Bromobenzene	"	ND			25.0	"	"	"	"
Bromochloromethane	"	ND			25.0	"	"	"	"
Bromodichloromethane	"	ND			25.0	"	"	"	"
Bromoform	"	ND			25.0	"	"	"	"
Bromomethane	"	ND			25.0	"	"	"	"
2-Butanone	"	ND			250	"	"	"	"
n-Butylbenzene	"	ND			25.0	"	"	"	"
sec-Butylbenzene	"	ND			25.0	"	"	"	"
tert-Butylbenzene	"	ND			25.0	"	"	"	"
Carbon disulfide	"	ND			25.0	"	"	"	"
Carbon tetrachloride	"	ND			25.0	"	"	"	"
Chlorobenzene	"	ND			25.0	"	"	"	"
Chloroethane	"	ND			25.0	"	"	"	"
2-Chloroethylvinyl ether	"	ND			50.0	"	"	"	"
Chloroform	"	ND			25.0	"	"	"	"
Chloromethane	"	ND			25.0	"	"	"	"
2-Chlorotoluene	"	ND			25.0	"	"	"	"
4-Chlorotoluene	"	ND			25.0	"	"	"	"
Dibromochloromethane	"	ND			25.0	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			25.0	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			25.0	"	"	"	"
Dibromomethane	"	ND			25.0	"	"	"	"
1,2-Dichlorobenzene	"	ND			25.0	"	"	"	"
1,3-Dichlorobenzene	"	ND			25.0	"	"	"	"
1,4-Dichlorobenzene	"	ND			25.0	"	"	"	"
Dichlorodifluoromethane	"	ND			25.0	"	"	"	"
1,1-Dichloroethane	"	ND			25.0	"	"	"	"
1,2-Dichloroethane	"	ND			25.0	"	"	"	"
1,1-Dichloroethene	"	ND			25.0	"	"	"	"
cis-1,2-Dichloroethene	"	ND			25.0	"	"	"	"
trans-1,2-Dichloroethene	"	ND			25.0	"	"	"	"
Dichloromethane	"	ND			50.0	"	"	"	"
1,2-Dichloropropane	"	ND			25.0	"	"	"	"
1,3-Dichloropropane	"	ND			25.0	"	"	"	"
2,2-Dichloropropane	"	ND			25.0	"	"	"	"
1,1-Dichloropropene	"	ND			25.0	"	"	"	"
cis-1,3-Dichloropropene	"	ND			25.0	"	"	"	"
trans-1,3-Dichloropropene	"	ND			25.0	"	"	"	"
1,4-Dioxane	"	ND			1250	"	"	"	"
Ethylbenzene	"	ND			25.0	"	"	"	"
Ethyl tert-butyl ether	"	ND			25.0	"	"	"	"
Hexachlorobutadiene	"	ND			25.0	"	"	"	"
2-Hexanone	"	ND			250	"	"	"	"
Isopropylbenzene	"	**51.6**			25.0	"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-3 **Lab ID:** 4010344-03
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 12:02
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Di-isopropyl ether	"	ND			25.0	"	"	01/15/04	"
-Isopropyltoluene	"	ND			25.0	"	"	"	"
-Methyl-2-pentanone	"	ND			250	"	"	"	"
Methyl tert-butyl ether	"	ND			50.0	"	"	"	"
Naphthalene	"	ND			25.0	"	"	"	"
-Propylbenzene	"	**150**			25.0	"	"	"	"
tyrene	"	ND			25.0	"	"	"	"
Tert-amyl methyl ether	"	ND			25.0	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			25.0	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			25.0	"	"	"	"
etrachloroethene	"	ND			25.0	"	"	"	"
etrahydrofuran	"	ND			250	"	"	"	"
Tert-butyl alcohol	"	ND			2500	"	"	"	"
Toluene	"	**26.9**			25.0	"	"	"	"
2,3-Trichlorobenzene	"	ND			25.0	"	"	"	"
2,4-Trichlorobenzene	"	ND			25.0	"	"	"	"
1,1,1-Trichloroethane	"	ND			25.0	"	"	"	"
1,1,2-Trichloroethane	"	ND			25.0	"	"	"	"
richloroethene	"	ND			25.0	"	"	"	"
richlorotrifluoroethane	"	ND			25.0	"	"	"	"
richlorofluoromethane	"	ND			25.0	"	"	"	"
1,2,3-Trichloropropane	"	ND			25.0	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			25.0	"	"	"	"
3,5-Trimethylbenzene	"	ND			25.0	"	"	"	"
nyl acetate	"	ND			25.0	"	"	"	"
Vinyl chloride	"	ND			25.0	"	"	"	"
Xylenes (total)	"	ND			50.0	"	"	"	"
urrogate: 1,2-Dichloroethane-d4		*101 %*			*28-129*	"	"	"	"
urrogate: Toluene-d8		*97.1 %*			*52-150*	"	"	"	"
urrogate: 4-Bromofluorobenzene		*99.9 %*			*43-155*	"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-3 **Lab ID:** 4010344-03
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 12:02
Received: 01/13/04 11:25

EPA 8015/8260 - Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Gasoline	ug/l	3320	R-06		2500	EPA 8015/8260	01/16/04	01/15/04	B4A0243
Surrogate: 4-Bromofluorobenzene		*99.9 %*		*43-155*		"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-4 **Lab ID:** 4010344-04
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 10:32
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Acetone	ug/l	ND			5.0	EPA 8260	01/16/04	01/15/04	B4A0243
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	**122**	QM-4X, R-06		2.0	"	01/21/04	"	"
Bromobenzene	"	ND			0.5	"	01/16/04	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			0.5	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	ND			0.5	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	**4.4**			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	**0.6**			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	**4.5**			0.5	"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-4 **Lab ID:** 4010344-04
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 10:32
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Di-Isopropyl ether	"	ND			0.5	"	"	01/15/04	"
-Isopropyltoluene	"	ND			0.5	"	"	"	"
-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	ND			1.0	"	"	"	"
Naphthalene	"	ND			0.5	"	"	"	"
-Propylbenzene	"	ND			0.5	"	"	"	"
tyrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
etrachloroethene	"	ND			0.5	"	"	"	"
etrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	**13.5**			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
richloroethene	"	ND			0.5	"	"	"	"
richlorotrifluoroethane	"	ND			0.5	"	"	"	"
richlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	**7.2**			0.5	"	"	"	"
inyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	**8.8**			1.0	"	"	"	"
urrogate: 1,2-Dichloroethane-d4		*80.3 %*		*28-129*		"	"	"	"
urrogate: Toluene-d8		*98.7 %*		*52-150*		"	"	"	"
urrogate: 4-Bromofluorobenzene		*104 %*		*43-155*		"	"	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-4 **Lab ID:** 4010344-04
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #
Sampled: 01/12/04 10:32
Received: 01/13/04 11:25

EPA 8015/8260 - Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Gasoline	ug/l	**699**	D-06		200	EPA 8015/8260	01/21/04	01/15/04	B4A0243
Surrogate: 4-Bromofluorobenzene		*104 %*		*43-155*		"	*01/16/04*	"	"

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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-5 **Lab ID:** 4010344-05
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 10:55
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Acetone	ug/l	ND			5.0	EPA 8260	01/16/04	01/15/04	B4A0243
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	**4.2**	QM-4X		0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			0.5	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	**6.8**			0.5	"	"	"	"
sec-Butylbenzene	"	**3.6**			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	**0.6**			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	**16.6**			0.5	"	"	"	"

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Redding, California 96001

Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-5 **Lab ID:** 4010344-05
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 10:55
Received: 01/13/04 11:25

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Di-isopropyl ether	"	ND			0.5	"	"	01/15/04	"
4-Isopropyltoluene	"	ND			0.5	"	"	"	"
4-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	ND			1.0	"	"	"	"
Naphthalene	"	ND			0.5	"	"	"	"
n-Propylbenzene	"	**17.0**			0.5	"	"	"	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	**8.0**			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			0.5	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	**16.8**			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	**12.8**			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		*66.9 %*		*28-129*		"	"	"	"
Surrogate: Toluene-d8		*96.9 %*		*52-150*		"	"	"	"
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*43-155*		"	"	"	"

Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677

basic laboratory
www.basiclab.com
voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: General Testing HEGENBERGER - 4G004
Description: MW-5 **Lab ID:** 4010344-05
Matrix: Water

Lab No: 4010344
Reported: 01/28/04
Phone: 510-434-9200
P.O. #

Sampled: 01/12/04 10:55
Received: 01/13/04 11:25

EPA 8015/8260 - Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Gasoline	ug/l	**1820**	R-06		500	EPA 8015/8260	01/16/04	01/15/04	B4A0243
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*43-155*		"	*01/16/04*	"	"

Notes and Definitions

D-06	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to the analyte concentration being greater than 4 times the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
R-06	Quantitation limit raised; dilution required.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
<	Less than reporting limit
≤	Less than or equal to reporting limit
>	Greater than reporting limit
≥	Greater than or equal to reporting limit
MDL	Method Detection Limit
RL/ML	Minimum Level of Quantitation
MCL/AL	Maxium Contaminant Level/Action Level
mg/kg	Results reported as wet weight
TTLC	Total Threshold Limit Concentration
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leachate Procedure

Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677

BASIC LABORATORY CHAIN OF CUSTODY RECORD

2218 Railroad Ave., Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

LAB #: 401 0 344

CLIENT NAME: PSI

PROJECT NAME: Hegenberger

PROJECT #: 4G-004

SAMPLE TYPE: W

ADDRESS: On file

REQUESTED COMP. DATE: 1-27-04

STATE FORMS? ☐

OF SAMPLES: 5

TURN AROUND TIME: STD ☒ RUSH ☐

PAGE 1 OF 1

PROJECT MANAGER: Frank Poss

PHONE: 510 434-9200 FAX: 510 434-7676 E-MAIL:

INVOICE TO: Same PO#:

SPECIAL MAIL ☐ E-MAIL ☒ FAX ☒ EDT ☒

ANALYSIS REQUESTED

DATE	TIME	WATER	COMP	SOIL	SAMPLE DESCRIPTION	# OF BOTTLES	TPH-G	8260 w/OXYs (No MTBE)	LAB ID
12/04	11:30	X			MW-1	4	X	X	1
	10:08	X			MW-2	4	X	X	2
	12:02	X			MW-3	4	X	X	3
	10:32	X			MW-4	4	X	X	4
	10:55	X			MW-5	4	X	X	5

REP:

ID#:

SYSTEM#:

GLOBAL ID #: T0600101696

QC = 1 2 3 4

REMARKS: Brad.Burfield@PSIUSA.com

PRESERVED WITH: HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ ZnAce/NaOH ☐ HCL ☒ NaThio ☐ OTHER

SAMPLED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
Brian Stozek	1/12/04 Thru Day	Brian Stozek	1/12/04 17:00
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY: (SAMPLES UNVERIFIED)	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RECEIVED BY LAB: (VERIFIED) Rochelle McKnowlton 1-13-04	DATE/TIME: 11:25	SAMPLES SHIPPED VIA: UPS FEDEX POST BUS OTHER	

INSTRUCTIONS, TERMS AND CONDITIONS ON BACK.