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September 13, 2000

Mr. Barney Chan Alameda County Health Care Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Subject: **Groundwater Investigation Report** 625 Hegenberger Road Oakland, California AEI Project No. 20826 # 568

Dear Mr. Chan:

Enclosed is a copy of the groundwater investigation report for the above referenced site. Please call me at (925) 283-6000 or Joseph Derhake at (310) 798-4255 if you have any questions regarding this site.

Sincerely,

Peter McIntyre **Project Geologist**

Corporate Headquarters San Francisco (800) 801-3224

Seattle (425) 401-8500 September 10, 2000

SOIL BORING AND GROUNDWATER MONITORING WELL INSTALLATION AND SAMPLING REPORT

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625 Hegenberger Road Oakland, California

Project No. 20826

Prepared For

Mr. Dinesh Maniar Diversified Investment Management Group 400 Oyster Point Boulevard, Suite 415 South San Francisco, CA 94080

Prepared By

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1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Diversified Investment Management Group as part of the groundwater investigation at 625 Hegenberger Road in Oakland, California (Figure 1: Site Location Map). The investigation was performed under the direction of the Alameda County Health Care Services Agency (ACHCSA) and is part of the continued site assessment of the groundwater issues at the site.

This report describes the activities associated with the installation of two down-gradient groundwater monitoring wells and groundwater sample collection from a deeper soil boring in the center of the known contaminant plume. Additionally, this report includes the results of the groundwater monitoring and sampling episode performed on August 9, 2000.

2.0 SITE DESCRIPTION AND BACKGROUND

In October 1993, three underground storage tanks and related structures were removed from the site under the observation of Levine Fricke. Approximately 300 cubic yards (cy) of soil was excavated during the tank removal. Levine Fricke and Subsurface Consultants performed several shallow soil borings and installed six groundwater monitoring wells at the site. Results of the comprehensive soil investigation indicated that hydrocarbon contamination was present in elevated levels at the site.

The quarterly monitoring of the six monitoring wells was performed by Levine Fricke through January 1995. AEI began monitoring the wells in October 1995. In March 1996, AEI destroyed one of the wells (designated MW-24) in anticipation of excavation activities.

AEI excavated and aerated 1,600 cubic yards of contaminated soil in the spring and summer of 1996 as detailed in AEI's report, "Phase II Environmental Site Assessment" dated March 3, 1997. The excavation extended through the capillary fringe, approximately 5 to 7 feet below ground surface (bgs). Figure 2 shows the areas excavated. It was concluded after the excavation activities that the majority of the impacted soil was removed and treated. However, TPH as gasoline, benzene, and MTBE remain in the groundwater in significant concentrations. Please refer to Table 3 for historical groundwater quality data.

The excavation was backfilled with pea gravel through the capillary fringe to approximately $\frac{1}{2}$ foot above static groundwater. The remainder of the excavation was filled with the treated soil.

On October 1, 1999, AEI installed one (1) 4" diameter well (EW-01) just west of the former tank hold (Figure 2). The well was screened from 5 feet below ground surface (bgs) to 22.5 feet bgs.

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The well was installed in the apparent center of the hydrocarbon plume, to be used as an extraction well for groundwater treatment.

3.0 GEOLOGY AND HYDROGEOLOGY

According to logs of recent soil borings advanced by AEI, the near surface sediments beneath the site consist of silty and sandy clay to approximately 10 feet bgs. First encountered static groundwater exists beneath the site between 5 and 6.5 feet bgs. The water bearing deposits in this shallow saturated zone consist of clay with fine to medium sand with angular clasts up to 2 cm in size. Sand increases with depth to approximately 16 feet bgs.

The deeper soil boring revealed silty clay mud below 16 feet. Sands and sub-angular to angular gravel increase with depth to approximately 37 feet bgs below which stiff, tight clay was encountered. Refusal conditions were encountered at 44.5 feet bgs.

Water level measurements were collected from the eight wells in order to calculate the groundwater gradient and flow direction. Based on these measurements, the groundwater beneath the site flows to the west and north. This flow direction is consistent with historical flow directions on the eastern portion of the site. The groundwater flow direction is depicted in Figure 2. Water table elevations are summarized in Table 2.

4.0 PERMITS

Prior to beginning drilling activities, drilling permits for the two wells and one soil boring were obtained from Alameda County Public Works Agency, Water Resources Section. Copies of permits obtained during this project are included in Appendix A.

5.0 SOIL BORING

On June 1, 2000, one soil boring (AEI B-28) was advanced. The boring was placed in the apparent center of the dissolved hydrocarbon plume. The boring was advanced to investigate groundwater quality at depths beneath first groundwater. The boring was advanced to 44.5 feet bgs, at which depth refusal was encountered.

The boring was drilled with a direct-push drilling rig using a duel rod system, to limit vertical migration of groundwater. The boring was continuously logged using the United Soil Classification System (USCS) by an AEI geologist. Undisturbed soil was collected within acrylic liners within the inner rod. The outer rod was then advanced. Groundwater samples were collected

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at various depths by exposing a screened interval of the inner rods within the desired water bearing deposits. Water samples were collected with a drop tube into 40 ml VOA vials. Refer to Appendix B for a log of the soil boring, including sample collection depths and field observations.

The soil and groundwater samples were sealed, labeled and stored over wet ice to await transportation to the laboratory. The samples were delivered to McCampbell Analytical, Inc. (DOHS Cert. # 1644) of Pacheco, California on June 1, 2000.

Three groundwater samples were analyzed for TPH as gasoline by EPA method 5030/8015 and benzene, toluene, ethyl-benzene, and xylenes (BTEX) and MTBE by EPA method 502/8020.

TPH as gasoline was detected at 6 feet, 20 feet, and 27 feet bgs at 150,000 μ g/l, 80,000 μ g/l, and 1,700 μ g/l, respectively. Benzene was detected at these depths at 13,000 μ g/l, 3,500 μ g/l, and 29 μ g/l, respectively. Please refer to Table 1 for detailed results of the water sample analysis from this boring.

6.0 WELL INSTALLATION

On June 6, 2000, two additional soil borings were advanced on the western side of the property. These borings were converted to 2" groundwater monitoring wells. Please refer to Figure 2 for the locations of the wells. These borings were advanced with a hollow-stem auger drilling rig. Cuttings generated during well installation activities were stored on-site in 55-gallon drums.

The two soil borings were converted to groundwater monitoring wells (MW-26 and MW-27). The wells were constructed of 10 feet of 0.020" factory-slotted well screen and 5 feet of flush threaded blank Schedule 40 PVC casing. The well casings were installed through the hollow augers. The well screen in each well was fitted with a flush-threaded bottom cap. No. 2/12 Monterey sand was poured through the auger to form a sand pack from the bottom of the well to 2 feet above the slotted well screen. A bentonite seal was placed above the sand pack. The remainder of the boring was filled to 0.5 feet below grade with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. Refer to the boring logs (Appendix B) for a visual description of the well construction.

The two newly installed wells were developed on June 20, 2000. A surge block was used prior to pumping water from the wells. Approximately 20 gallons of water were removed from each well. The water was initially turbid, but became clear by the end of the development of each well. The purged water was stored on-site in 55-gallon drums.

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7.0 WELL MONITORING AND SAMPLING

The two newly installed wells, along with the six other onsite wells, were monitored and sampled on August 9, 2000. Prior to measuring groundwater depth, the wells were opened and groundwater levels were allowed to equilibrate.

Following collection of groundwater depth measurements, each of the eight wells was purged with an electric purge pump. A minimum of three well volumes were removed from each well. During the purging of the wells, groundwater parameters including temperature, pH, specific conductivity, and dissolved oxygen were monitored. Refer to Appendix C for field sampling data.

The wells were allowed to recharge to at least 90% of their original water volume prior to the collection of a sample. Samples were collected from each well using a clean, disposable bailer. Water was poured from the bailers into 40 ml VOA vials capped so that there was no head space or visible air bubbles within the sample containers. The samples were labeled and placed on ice and transported under chain of custody protocol for analysis to McCampbell Analytical Inc.

The eight groundwater samples were analyzed for TPH as gasoline by EPA method 5030/8015 and benzene, toluene, ethyl-benzene, and xylenes (BTEX) and MTBE by EPA method 502/8020.

TPH as gasoline was detected up to 6,700 μ g/l, in EW-01. The highest concentrations detected of benzene and MTBE were also in this well, at 2,700 μ g/l and 1,300 μ g/l, respectively. No concentrations of any hydrocarbons were detected above laboratory reporting limits in the two newly installed down-gradient wells.

8.0 DEEP WELL SURVEY

A survey of deep wells within ½ mile radius of the site was performed at the Department of Water Resources (DWR) in Sacramento. Additionally, information was provided to AEI by ACHCSA regarding several reportedly abandon well field in the site area. Please refer to the following table for information on the wells identified and to Figure 2 for their locations.

	Location	Site ID #	Distance (feet)	Direction	Depth (feet)	Screen Interval	Use
	Fitchburg well group (20 wells?)	1	~ 2,500	Northwest	NA	NA	Municipal
	Damon well group	2	- 4,500	North	NA	NA	Municipal
	Oakland Coliseum (11 wells)	3	1,000 - 2,500	Northwest	70 - 112	78 – 98	Observation
ABAT	7825 San Leandro Street (1 well)	4	1,250	Northeast	510	324 - 479	Industrial
	550 85 th Avenue (2 wells?)	5	1,850	Southeast	448	130 - 240	Industrial

NA – Information not available

Although the screened interval of the Fitchburg and Damon well groups were not available, the other well logs indicate that the wells at the Coliseum site are screened in the 70 to 100 foot bgs range. The other two wells are screened below 100 feet deep. Although these various wells may pose as a conduit to deeper water bearing zones for near surface impacted groundwater vertical migration, these wells are all outside of the limit of impacted groundwater associated with this site. The exact locations of the abandoned former municipal well fields have not been determined; however, at this time, the dissolved hydrocarbon plume associated with this site is confined to beneath the property is each direction toward the suspected well fields. Unless further information becomes available regarding currently unknown deep wells or the hydrocarbon plume spreads from the site, AEI does not consider any of the deep wells identified to date as threatened by this site.

9.0 SUMMARY AND CONCLUSIONS

Two additional groundwater monitoring wells were installed on the down-gradient, western end of the property. Additionally a deeper soil boring was performed in the center of the impacted area. This work was performed in conjunction with continued groundwater monitoring program to investigate the lateral and vertical extent of impacted groundwater.

Groundwater flow direction in the former excavation area has been generally to the west and northwest. Two additional wells were installed on the western portion of the property. Groundwater samples collected from these wells showed no detectable concentrations of TPH as gasoline, BTEX compounds, or MTBE. Based on this, the extent of impacted groundwater has been defined in the down-gradient (westerly) direction.

A deeper soil boring was performed in the apparent center of the dissolved hydrocarbon plume. Three groundwater samples were collected from what appeared to be the first (near surface) groundwater bearing zone. The samples showed concentrations of hydrocarbons present at depths of 27 feet bgs, but did show a significant decline in concentrations at this depth from the top of the aquifer. Although refusal was encountered before the next groundwater bearing zone was encountered, stiff clay and silty clay existed beneath the first water bearing deposits. The logs of a boring performed approximately 2,300 north/northwest of the site also indicated a stiff clay layer from approximately 28 feet bgs to the next zone bearing free water at approximately 55 feet bgs. If this log can be assumed to be generally representative of deposits under this site, it is apparent that an aquitard is present below 28 to 37 feet bgs, which would limit the vertical migration of hydrocarbons through to the next deeper aquifer.

Although several sites within one mile of this property have deep wells, the hydrocarbon plume beneath the subject property appears to be confined to beneath the property, the groundwater

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gradient is relatively flat, and unless further information becomes available or the plume becomes unstable, these deep wells will not be considered threatened by this site.

Concentrations of TPH as gasoline, benzene, and MTBE have been persistent in the shallow groundwater. Dissolved oxygen content is approximately 1 mg/l lower in the hydrocarbon impacted wells than the two down-gradient non-impacted wells. Low dissolved oxygen content in the center of the plume may be limiting the natural bio-degradation of dissolved hydrocarbons.

AEI will continue to monitor the groundwater quality in the on-site wells during the installation and operation of the proposed groundwater treatment system. The samples collected from the wells will be monitored for dissolved oxygen content and the samples will be analyzed for TPH as gasoline with BTEX and MTBE. Samples with MTBE detected will be analyzed by for fuel oxygenates by EPA method 8260B. The next episode of monitoring and sampling is scheduled for November 2000.

10.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field that existed at the time and location of the work.

Sincerely, AEI Consultants

Peter McIntyre ' Project Geologist

Joseph P. Derhake, PE Principal



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SOURCE: USGS SAN LEANDRO QUAD SCALE: 1: 24,000

AEI CONSULTANTS 3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

SITE LOCATION MAP

625 HEGENBERGER ROAD OAKLAND, CALIFORNIA FIGURE 1 PROJECT NO. 20826





SOURCE: USGS OAKLAND EAST AND SAN LEANDRO QUADS SCALE: 1 in = 2,000 ft.

Please refer to Page 5 for details on the site numbers identified above.

AEI CONSULTANTS 3210 OLD TUNNEL RD, STE B, LAFAYETTE, CA

DEEP WELL LOCATIONS

625 HEGENBERGER ROAD OAKLAND, CALIFORNIA FIGURE 2 PROJECT NO. 20826



Table 1

Groundwater Analytical Data: AEI B-28

June 8, 2000

Sample ID	TPH as gasoline ug/L	MTBE µg/L	Benzene µg/L	Toluene μg/L	Ethyl- benzene µg/L	Xylenes µg/L
DB-6' DB-20' DB-27'	150,000 80,000 1,700	صم ۱۹۱۲ <3,300 ۱۹۷۲ <600 ۲۹۷۲ <5	13,000 3,500 29	15,000 8,900 82	3,400 1,800 28	23,000 13,000 220
MDL	50	5	0.5	0.5	0.5	0.5

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

 $\mu g/L = micrograms per liter (ppb)$

mg/L = milligrams per liter (ppm)

* = This sample was reanalized by EPA method 8260 for fuel oxygenates & whech sample ?

Table 2 Groundwater Elevations 625 Hegenberger Road, Oakland, California

Weil D2 Det Oracle Oracle Oracle MW-8 122239 4.88 6.60 -1.39 MW-10 122239 5.91 6.64 -1.39 MW-11 122239 5.91 6.64 -1.39 MW-12 122233 5.33 7.88 -1.39 MW-14 6.0004 4.88 6.53 -1.49 MW-10 6.0004 5.94 6.67 -1.39 MW-10 6.0004 5.94 6.77 -1.69 MW-12 6.0004 5.34 6.73 -1.73 MW-13 9.0724 4.31 6.31 -1.73 MW-13 9.0724 4.38 6.57 -1.39 MW-13 9.0724 4.38 6.51 -1.47 MW-14 9.0724 4.33 5.50 -1.46 MW-15 9.0724 4.38 6.51 -1.07 MW-10 1.493 4.34 1.09 -2.31 MW-11 1.4			Well	Depth	Groundwater
MW-5 12/293 4.9 6.7 1.34 MW-10 12/2233 5.01 6.64 -1.36 MW-11 12/2233 5.01 6.64 -1.36 MW-12 12/2233 5.35 7.48 -1.39 MW-13 6/22233 5.35 7.48 -1.39 MW-14 6/30-41 4.21 5.79 -1.86 MW-15 6/30-41 4.21 5.79 -1.86 MW-16 6/30-41 4.21 5.79 -1.86 MW-12 6/30-41 4.21 6.39 -2.21 MW-13 9/27/44 4.88 7.20 -2.22 MW-14 9/27/44 4.88 7.20 -2.31 MW-15 9/27/44 5.46 7.41 -3.37 MW-12 9/27/44 5.48 6.21 -1.46 MW-12 1/493 4.31 5.69 -2.21 MW-14 1/493 4.38 5.69 -2.31 MW-15 <td< th=""><th>Well ID</th><th>Date</th><th>Elevation (it msf)</th><th>to Water</th><th>Elevation</th></td<>	Well ID	Date	Elevation (it msf)	to Water	Elevation
MW-10 122293 4.21 6.00 -1.39 MW-11 122293 4.34 6.07 -1.49 MW-12 122293 4.38 6.07 -1.49 MW-12 122293 5.35 7.48 -1.35 MW-10 6.00×1 5.44 6.77 -1.69 MW-11 6.00×1 5.44 6.77 -1.69 MW-12 6.90×4 5.33 7.28 -1.75 MW-13 6.90×4 5.31 7.28 -1.29 MW-14 6.90×4 4.38 6.62 -1.49 MW-15 9.072×4 4.38 6.27 -1.99 MW-10 9.072×4 4.38 6.21 -1.67 MW-11 9.072×4 4.38 6.21 -1.67 MW-10 1.49×5 4.88 6.21 -1.67 MW-11 1.49×5 4.81 6.29 -2.18 MW-12 1.49×5 4.31 6.42 -1.67 MW-12 1.					
MW-11 122293 5.64 6.54 -1.89 MW-12 122293 5.33 7.48 -1.95 MW-16 122293 5.33 7.48 -1.95 MW-10 630-94 4.38 6.55 -1.49 MW-11 630-94 4.58 6.66 -1.44 MW-12 630-94 4.58 6.66 -1.44 MW-12 630-94 4.58 6.66 -1.44 MW-12 670-94 4.58 6.65 -1.49 MW-12 977/94 4.88 7.32 -2.31 MW-13 972794 5.64 7.1 -3.37 MW-14 972794 5.33 7.53 -2.44 MW-15 972794 5.33 7.53 -2.44 MW-16 972794 4.58 6.21 -1.67 MW-17 140-95 5.04 6.45 -1.69 MW-16 140-95 5.04 6.65 -1.67 MW-17 140-95					
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MW-11 3/25/97 5.04 6.83 1.79 MW-12 3/25/97 4.58 6.03 1.45 MW-15 3/25/97 5.53 7.35 1.82 MW-16 3/25/97 4.58 6.03 1.45 MW-16 3/25/97 5.53 7.35 1.82 MW-10 7/3/97 4.88 8.70 3.82 MW-10 7/3/97 4.88 6.03 1.45 MW-11 7/3/97 4.58 6.03 1.45 MW-16 7/3/97 4.58 6.03 1.42 MW-16 7/3/97 4.58 6.03 1.42 MW-16 1/02/97 4.88 6.70 -1.82 MW-16 1/02/97 4.54 6.08 -1.50 MW-12 10/2/97 4.58 6.08 -1.50 MW-10 1/28/98 4.88 5.20 -0.32 MW-16 1/28/98 5.53 5.90 -0.37 MW-16 1/28/			4.88	6.75	-1.87
MW-12 3/25/97 4.58 6.03 -1.43 MW-15 3/25/97 5.53 7.35 -1.82 MW-16 3/25/97 5.53 7.35 -1.82 MW-8 7/3/97 4.88 8.70 -3.82 MW-10 7/3/97 4.21 5.87 -1.66 MW-11 7/3/97 5.04 6.83 -1.79 MW-12 7/3/97 4.58 6.03 -1.45 MW-12 7/3/97 4.58 6.03 -1.45 MW-14 10/2/97 4.58 6.03 -1.42 MW-10 10/2/97 4.88 6.70 -1.82 MW-10 10/2/97 4.58 6.08 -1.50 MW-12 10/2/97 4.58 6.08 -1.50 MW-16 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.80 MW-16					
MW-16 3/25/97 5.53 7.35 1.82 MW-8 7/3/97 4.88 8.70 -3.82 MW-10 7/3/97 4.21 5.87 -1.66 MW-11 7/3/97 4.21 5.87 -1.66 MW-12 7/3/97 4.58 6.03 -1.45 MW-12 7/3/97 4.58 6.03 -1.45 MW-16 7/3/97 5.33 7.35 -1.82 MW-16 10/2/97 4.88 6.70 -1.82 MW-10 10/2/97 4.51 6.08 -1.50 MW-11 10/2/97 5.53 7.36 -1.81 MW-12 10/2/97 5.53 7.36 -1.83 MW-13 10/2/97 5.53 7.36 -1.33 MW-14 10/2/97 5.53 7.36 -1.33 MW-15 10/2/97 5.53 7.36 -1.33 MW-16 1/28/98 4.88 5.20 -0.32 MW-11 <t< th=""><td></td><td></td><td></td><td></td><td></td></t<>					
MW-8 73/97 4.88 8.70 -3.82 MW-10 73/97 4.21 5.87 -1.66 MW-11 73/97 4.21 5.87 -1.66 MW-12 73/97 4.58 6.03 -1.45 MW-16 73/97 4.58 6.03 -1.45 MW-16 73/97 4.58 6.03 -1.45 MW-16 73/97 4.58 6.03 -1.42 MW-16 10/2/97 4.21 5.90 -1.69 MW-10 10/2/97 4.58 6.08 -1.50 MW-12 10/2/97 4.58 6.08 -1.50 MW-15 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 5.20 -0.32 MW-11 1/28/98 4.88 5.20 -0.32 MW-10 1/28/98 5.53 5.90 -0.37 MW-11 1/28/98 5.53 5.90 -0.37 MW-12 1/28/					
MW-10 77/97 4.21 5.87 -1.66 MW-11 7/3/97 5.04 6.83 -1.79 MW-12 7/3/97 4.58 6.03 -1.45 MW-16 7/3/97 4.58 6.03 -1.45 MW-16 7/3/97 4.58 6.03 -1.42 MW-16 7/3/97 4.58 6.03 -1.42 MW-16 10/2/97 4.21 5.90 -1.69 MW-11 10/2/97 4.58 6.08 -1.50 MW-12 10/2/97 4.58 6.08 -1.50 MW-16 10/2/97 5.53 7.36 -1.33 MW-17 10/2/97 5.53 7.36 -1.33 MW-18 1/28/98 4.88 5.20 -0.32 MW-10 1/28/98 4.53 5.33 -0.29 MW-11 1/28/98 5.53 5.90 -0.37 MW-10 1/28/98 5.53 5.90 -0.37 MW-12 <					
MW-11 773/97 5.04 6.83 1.79 MW-12 773/97 4.58 6.03 -1.45 MW-12 773/97 4.58 6.03 -1.45 MW-16 773/97 5.53 7.35 -1.82 MW-16 773/97 4.88 6.70 -1.82 MW-10 10/2/97 4.21 5.90 -1.69 MW-11 10/2/97 4.58 6.08 -1.50 MW-12 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.90 MW-16 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -0.32 MW-16 1/28/98 4.24 4.40 -0.19 MW-10 1/28/98 5.54 5.33 -0.29 MW-12 1/28/98 5.53 5.90 -0.37 MW-8 <					
MW-12 7/3/97 4.58 6.03 -1.45 MW-16 7/3/97 5.53 7.35 -1.82 MW-16 7/3/97 5.53 7.35 -1.82 MW-16 10/2/97 4.88 6.70 -1.82 MW-10 10/2/97 4.21 5.90 -1.69 MW-12 10/2/97 5.64 6.85 -1.81 MW-12 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.83 MW-10 1/28/98 4.88 5.20 -0.32 MW-16 1/28/98 5.04 5.33 -0.29 MW-11 1/28/98 5.04 5.33 -0.29 MW-12 1/28/98 5.53 3.90 -0.37 MW-11 1/28/98 5.53 3.90 -0.37 MW-16 1/28/98 5.53 5.33 -0.75 MW-16					
MW-8 1072/97 4.88 6.70 -1.82 MW-10 10/2/97 4.21 5.90 -1.69 MW-11 10/2/97 4.21 5.90 -1.69 MW-12 10/2/97 4.58 6.08 -1.31 MW-12 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -1.33 MW-8 1/28/98 4.21 4.40 -0.19 MW-10 1/28/98 4.24 4.40 -0.19 MW-12 1/28/98 4.54 -0.04 -0.32 MW-12 1/28/98 5.53 5.90 -0.37 MW-12 1/28/98 5.53 5.90 -0.37 MW-12 1/28/98 5.53 5.90 -0.37 MW-8 20/00 4.58 5.12 -0.24 MW-10 20/00 4.53 5.33 -0.75 MW-11 20/00 5.53 6.81 -1.28 MW-12 <t< th=""><td></td><td>7/3/97</td><td>4.58</td><td>6.03</td><td></td></t<>		7/3/97	4.58	6.03	
MW-10 10/2/97 4.21 5.90 -1.69 MW-10 10/2/97 5.04 6.85 -1.81 MW-12 10/2/97 4.58 6.08 -1.50 MW-16 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -0.32 MW-16 1/28/98 4.21 4.40 -0.19 MW-10 1/28/98 4.58 5.04 5.33 -0.29 MW-12 1/28/98 4.58 4.54 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 29/00 4.53 6.25 -1.21 MW-11 29/00 5.53 6.81 -1.28 MW-10 29/00 5.53 6.81 -1.28 MW-12 29/00 5.96 5.15 -1.19 MW	MW-16	7/3/97	5.53	7.35	-1.82
MW-10 10/2/97 4.21 5.90 -1.69 MW-11 10/2/97 5.04 6.85 -1.81 MW-12 10/2/97 4.58 6.08 -1.50 MW-16 10/2/97 5.53 7.36 -1.83 MW-16 10/2/97 5.53 7.36 -1.33 MW-16 10/2/97 5.53 7.36 -0.32 MW-10 1/28/98 4.21 4.40 -0.19 MW-11 1/28/98 4.58 5.20 -0.32 MW-12 1/28/98 4.58 4.54 -0.04 MW-11 1/28/98 5.53 5.90 -0.37 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 2/9/00 4.53 6.25 -1.21 MW-11 29/00 5.53 6.81 -1.28 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 <t< th=""><td></td><td>10/2/97</td><td>4.88</td><td>6.70</td><td>-1.82</td></t<>		10/2/97	4.88	6.70	-1.82
MW-12 10/2/97 4.58 6.08 -1.50 MW-16 10/2/97 5.53 7.36 -1.30 MW-16 10/2/97 5.53 7.36 -1.30 MW-16 10/2/97 5.53 7.36 -1.30 MW-16 1/28/98 4.88 5.20 -0.32 MW-10 1/28/98 4.21 4.40 -0.19 MW-11 1/28/98 5.64 5.33 -0.29 MW-12 1/28/98 5.53 5.90 -0.37 MW-16 1/28/98 5.53 5.90 -0.37 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-11 29/00 4.53 6.25 -1.21 MW-11 29/00 5.53 6.81 -1.28 MW-16 29/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8			4.21	5.90	
MW-16 10/2/97 5.53 7.36 1.33 MW-8 1/28/98 4.88 5.20 -0.32 MW-10 1/28/98 4.21 4.40 -0.19 MW-11 1/28/98 4.21 4.40 -0.19 MW-12 1/28/98 5.04 5.33 -0.29 MW-12 1/28/98 4.58 4.54 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 29/900 4.58 5.12 -0.24 MW-10 29/00 5.04 6.25 -1.21 MW-11 29/00 5.53 6.81 -1.28 MW-16 29/00 5.96 5.15 -1.19 MW-8 8/9/00 3.96 5.15 -1.19 MW-18 8/9/00 3.96 5.15 -1.19 MW-11 8/9/00 3.96 5.15 -1.19 MW-11 8/9/00					
MW-8 1/28/98 4.88 5.20 -0.32 MW-10 1/28/98 4.21 4.40 -0.19 MW-11 1/28/98 4.21 4.40 -0.19 MW-12 1/28/98 5.54 5.33 -0.29 MW-12 1/28/98 4.58 4.54 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 28/900 4.21 5.25 -1.04 MW-10 29/00 4.53 5.33 -0.75 MW-12 29/00 4.53 5.33 -0.75 MW-10 29/00 5.04 6.25 -1.21 MW-12 29/00 5.53 6.81 -1.28 MW-8 89/00 3.96 5.15 -1.19 MW-10 89/00 4.20 5.33 -1.13 MW-11 89/00 5.01 6.20 -1.19					
MW-10 1/23/98 4.21 4.40 -0.19 MW-11 1/28/98 5.04 5.33 -0.29 MW-12 1/28/98 5.53 5.90 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 29/00 4.21 5.25 -1.04 MW-10 29/00 4.58 5.33 -0.75 MW-10 29/00 4.58 5.33 -0.75 MW-12 29/00 5.04 6.25 -1.21 MW-12 29/00 5.53 6.81 -1.28 MW-12 29/00 5.33 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -4.13 MW-11 8/9/00 5.01 6.20 -4.19					
MW-11 1/28/98 5.04 5.33 .0.29 MW-12 1/28/98 4.54 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 2/3/00 4.88 5.12 -0.24 MW-10 2/9/00 4.21 5.25 -1.04 MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.53 5.33 -0.75 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.19 MW-11 8/9/00 5.01 6.20 -1.19					
MW-12 1/28/98 4.58 4.54 -0.04 MW-16 1/28/98 5.53 5.90 -0.37 MW-8 29/00 4.88 5.12 -0.24 MW-10 2/9/00 4.21 5.25 -1.04 MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 3.96 5.15 -1.19 MW-11 8/9/00 3.96 5.15 -1.19					
MW-16 1/28/98 5.53 5.90 -0.37 MW-8 2/9/00 4.88 5.12 -0.24 MW-10 2/9/00 4.21 5.25 -1.04 MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/8/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.19 MW-11 8/9/00 5.01 6.20 -1.19	MW-12				
MW-8 2/9/00 4.88 5.12 -0.24 MW-10 2/9/00 4.21 5.25 -1.04 MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 5.01 6.20 -1.19	MW-16				
MW-10 2/9/00 4.21 5.25 -1.04 MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/8/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.19 MW-11 8/9/00 5.01 6.20 -1.19	1.017 0	1000	1.00		
MW-11 2/9/00 5.04 6.25 -1.21 MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.13 MW-11 8/9/00 5.01 6.20 -1.19					
MW-12 2/9/00 4.58 5.33 -0.75 MW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.13 MW-11 8/9/00 5.01 6.20 -1.19					
NW-16 2/9/00 5.53 6.81 -1.28 MW-8 8/9/00 3.96 5.15 -1.19 MW-10 8/9/00 4.20 5.33 -1.13 MW-11 8/9/00 5.01 6.20 -1.19	MW-12	2/9/00	4.58		
MW-10 8/9/00 4.20 5.33 -1.13 MW-11 8/9/00 5.01 6.20 -1.19	MW-16	2/9/00	5.53		
MW-10 8/9/00 4.20 5.33 -1.13 MW-11 8/9/00 5.01 6.20 -1.19	M177-9	8/0/nn	2.04	5.16	1 10
MW-11 8/9/00 5.01 6.20 -1.19					
North Colored States	MW-12	8/9/00	4.58	5.14	-0.56
MW-16 8/9/00 5.51 6.74 -1.23					-1.23
MW-26 8/9/00 5.12 5.81 -0.69 MW-27 8/9/00 4.06 5.12 -1.06					
MW-27 8/9/00 4.06 5.12 -1.06 EW-01 8/9/00 5.19 6.38 -1.19					
Notes: All elevations are measured from the top of casing.					

All elevations are measured from the top of casing. ft msl = feet above mean sea level NA = Not Available All well elevations were re-surveyed 9/5/00 by Logan Survey (lic. # 5003)

Table 3
Water Quality Parameters
625 Hegenberger Road, Oakland, California

		Well	Velutuie	Well	Stabilized			Stab9ired Diselved	Sinhilized Redox	N	P	ĸ
Vell ID	Date	Yohnae (geilans)	Withdraws(gellens)	Velunes Withdrawa	Temperature (dog.C)	Qualitative Tubidity		Oxygen (mg/L)	Potential (mV)	(ng/L)	(mg/L)	(m#/
MW-8	12/22/93	1.5	4.50	3.00	19,40	turbid*						
MW-10	12/22/93	1.6	7.00	4.38	20.80	moderately turbid						
MW-11	12/22/93	1.5	4.50	3.00	20.20	tarbid						
4W-12	12/22/93	1.6	5.30	3.31	20.30	moderately turbid						
4W-16	12/22/93	1.1	4.50	4.09	20.50	turbid						
MW-8	6/30/94	1.5	8.00	5.33	21.00	turbid*						
MW-10	6/30/94	1.6	6.00	3.75	21.00	turbid						
MW-11	6/30/94	1.4	6.00	4.29	20.20	turbid						
ɗ₩-12 ɗ₩-16	6/30/94 6/30/94	1.6 1.1	6.00 4.50	3.75 4.09	20.60 21.80	moderately turbid						
	0.04/14	1.1	4.30	4.05	21.00	turbid						
MW-8	9/27/94	1.4	4.50	3.21	21.60	hubid*						
W-10	9/27/94	1.5	6.00	4.00	22.60	turbid						
4W-11 4W-12	9/27/94 9/27/94	1.3 1.5	3.00 6.00	2.31 4.00	21.00	turbid						
4W-16	9/27/94	1.0	3.00	4.00	22.50 22.60	turbid turbid						
MW-8	1/10/95	1.7	5.30	3.12	17.20	turbid*						
fW-10 /fW-11	1/10/95 1/10/95	1.8 1.6	6.00	3.33	19.50	turbid						
W-12	1/10/95	1.8	5.30 6.00	3.31 3.33	LB.60 19.30	turbid turbid						
AW-16	1/10/95	1.2	6.00	5.00	19.30	turbid						
CW-24	1/10/95	4.9	41.00	8.37	18.90	turbid						
MW-8	10/2/95	1.1	11.00	10.00	22.80	الالشنة بالإشمال وبم	6.17					
GW-10	10/2/95	1.5	11.00	7.33	22.60	moderately tarbid turbid	6.49 7.20					
CW-11	10/2/95	1.0	12.00	12.00	22.00	moderately turbid	6.85					
CW-12	10/2/95	1.3	11.00	8.46	22.99	turbid	7.20					
(W-16	10/2/95	1.1	11.00	10.00	22.60	tæbid	7.20					
£₩-24	10/2/95	3.4	20.00	5.88	22.80	hæbid	7.10					
MW-8	1/8/96	1.1	12,00	10.91	17.30**	slightly turbid	6.74**					
(W-1 0	1/8/96	1.5	10.00	6.67	17.90**	slightly turbid	6.62**					
€₩-11	1/8/96	1.0	5.50	5.50	17.60**	slightly turbid	6.65**					
CW-12 (W-16	1/8/96 1/8/96	1.2 0.9	10.00 5.00	8.33 5.56	18,00** 19,00**	slightly turbid	6.49** 7.50**					
CW-24	1/8/96	3,4	35.00	10,29	17.60**	slightly turbid slightly turbid	6.67**					
							0.07					
MW-8	4/25/96	1.1	5.00	4.55	21.11	clear	6.53					
MW-10 MW-11	4/25/96 4/25/96	1.4 1.1	5.00 5.50	3.57	22.83	slightly turbid	6.70					
AW-12	4/25/96	1.1	5.00	5.00 4.17	21.39 22.39	clear cl e ar	6.58 6.50					
4 W-16	4/25/96	1.2	5.00	4.17	25.33	slightly turbid	7.12					
MW-8 MW-10	3/25/97 3/25/97	2.2 3.4	10.00 12.00	4.35 3.57	18.17	clear -1: -t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t	6.67	0.23	-140.00			
4W-11	3/25/97	2.0	10.00	5.00	19.72 18.56	slightly turbid clear	6.79 6.64	0.35 0.19	-131.00 -120.00			
IW-12	3/25/97	2.4	10.00	4.17	18.44	clear	6.67	0.19	-79.00			
fW-16	3/25/97	2.4	10.00	4.17	17.94	slightly turbid	7.02	0.10	-135.00			
WW-8	7/3/97	1.1	12.00	10.91	19.58		<i>c</i> 17					
4W-10	7/3/97	1.5	12.00	8.00	21.51	clear slightly turbid	6.43 6.67	0.04 0.17	-99.00 -104.00	⊲0.5	1.8	
AW-11	7/3/97	1.4	12.00	8.57	19.38	clear	6.36	0.05	-84.00	<0,5	1.8	
£₩-12	7/3/97	1.5	12.00	8.00	20.62	clear	6.50	0.10	-76.00			
CW-16	7/3/97	1.0	12.00	12.00	19.66	clear	5.76	0.06	-103.00			
W-8	10/2/97	1.1	4.50	4.09	21.23	clear	5.93	NA	NA			
FW-10	10/2/97	1.4	5.00	3.57	23.04	slightly turbid	7.26	NA	NA			
fW-11	10/2/97	1.1	7.00	6.36	22.94	clear	6.73	NA	NA			
W-12 W-16	10/2/97 10/2/97	1.2 1.2	4.50 7.00	3.75	20,94	olear aliabhr suchid	7.15	NA	NA			
		1.4	1.90	5.83	19.11	slightly harbid	7,22	NA	NA			
£W-8	1/28/98	2.5	15.00	6.00	18.53	alightly greeniah	6.86	0.10	-132.00			
fW-10	1/28/98	2.7	15.00	5.56	20.89	moderately harbid	7.05	0.09	-133.00			
fW-11 FW-12	1/28/98 1/28/98	2.5	15.00	6.00	20.12	slightly greenish moderately techid	6.74	0.11	-72.00			
W-16	1/28/98	2.6 2.4	14.00 16.00	5.38 6.67	19.83 19.08	moderately turbid slightly turbid	6.90 7.20	0.11 0.18	-105.00			
									\sim			
4W-8	2/9/00	1.5	5.00	3.30	63.00***	alightly greenish	8.35	1.24	NA	19	3.4	35
fW-10 fW-11	2/9/00 2/9/00	1.7 1.6	5.00 5.00	3.00 3.20	67.70	slightly turbid	8.56	0.70		15	6.4	66
W-12	2/9/00	1.6	5.00	3.10	63.50 62.80	slightly turbid clear	8,35 8,41	0.62 1.28	NA NA	≪0.2 10	2.1 3.1	49 33
W-16	2/9/00	0.9	5.00	5.50	63.20	slightly turbid	8.63	3.13	NA	<0.2	1.8	12
2W-D1	2/9/00	10.4	32.00	3.07	60.00	slightly habid	8.48	0.54	NA	21	1.7	51
rw 9	9/0/22								1 1			
4W-8 W-10	8/9/00 8/9/00	1.3 1.7	5.00 5.00	3.37 3.03	18.85 23.85	Slightly turbid Turbid - clears	6.68 6.68	1.55 1.63	NA 7	0		
W-11	8/9/00	1.4	5.50	3.93	23.65	Slightly turbid	5.58	1.63	NA NA	1		
W-12	8/9/00	1.7	5.00	3.01	21.32	clear	6.72	1.69	NA	1		
CW-16	8/9/00	0.9	4.00	4.35	20.50	Turbid - clears	5,62	1.33	NA NA		no rea	
fW-26 fW-27	8/9/00 8/9/00	1.5	5.00	3.40	21.27	Turbid - clears	6.99	2.78	NA	THP.	NA NO	شر ال
		1.6 10.5	5,00 31.00	3.18 2.96	24.44 18.37	clear Turbid - clears	6.93 6.69	2.21 1.32		m	AD	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
W-01	8/9/00											

Notes: A slight hydrocurbon sheen was reported. Duly one measurement collected. Temperature expressed in degrees Farenheight N = Nitrogen (lotal) P = Phosphoroux (lotal) K = Potassian

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Table 4 Historic Groundwater Monitoring Data 625 Hegenberger Road, Oakland, California (concentrations in mg/L)

Well ID	Date	Consultant/ Lab		TPHg	MIBE	Benzene	Toluene		Ethyl- Benzene	Xylenes	TPHo	TPHa	Tota Lese
MW-8	(1)	SUB	(2)	NA	NA	3.7	BDL		0.29	0.69	NA	NA	BDL
	5/28/93	HC/SUP		19	NA.	6.4	0.028		0.16	0.036	NA.	1	(3)
	12/22/93	LF/AEN	(4)	56	NA	16	5.9993	(5)	0,65	2.7	<0.2	0.3	<0.04
	6/30/94	LF/AEN	(4)	41	NA.	11	4.8	~~ /	2.2	8.2	0.5	<0.5	<0.04
			(4)	28	NA	8.5	0.26		1.6	5.3	<0.2	0.62	<0.04
	9/27/94	LF/AEN							2.4	12	<0.2	0.07	NA
	1/10/95	LF/AEN		58	NA.	10	11						
	10/2/95	AEI/PEL		28	NA	0.051	0.016		0.054	0.08	<0.5	<0.05	NA
	1/8/96	AEJ/MAI		72	NA	8.6	13		2.2	12	<0.25	3.7	NA
duplicate	1/8/96	AEI/MAI		62	NA.	7.2	9.5		l.6	8	NA	N.A.	NA
•	4/25/96	AEI/MAI		33	NA	7.6	2.3		1.5	4.8	NA	3.1	NA
	3/25/97	AEI/MAI		23	1.5	8.3	0.08		0.35	0.38	NA	1.9	NA
				14	1.3	6.6	0.032		0.19	0.1	NA	1.4	NA
	7/3/97	AEI/MAI							0.16	0.11	NA	1.4	NA
duplicate	7/3/97	AEI/MAI		15	1.7	7.3	0.034						
	10/2/97	AEI/MAI		7.6	0.89	3.5	0.014		0.037	0.021	NA	0.81	NA
	1/28/98	AEI/MAI		21	0.9	5.5	0.27		0.73	0.78	NA	2.7	NA
	9/9/99	AEI/MAI		2.5	0.38	0.79	0.0028		0.0047	0.008	NA	NA	NA
	2/9/00	AEI/MAI		39	0.46	6.4	4.3		0.95	0.39	NA	NA	NA
	8/9/00	AEI/MAI		5.5	(0.54)		0.015		0.13	0.37	NA	NA	NA
1017 10	(1)	SUB		NA	NA	0.0017	BDL		BDL	BDL	NA	NA	BDI
MW-10	(1)						<0.0003		<0.0003	<0.0009	NA	0.054	(3)
	5/28/93	HC/SUP		<0.05	NA	<0.0003		15					<0.0
	12/22/93	LF/AEN		<0.05	NA	<0.0005	<0.0007	(5)	<0.0005	< 0.0002	<0.2	0.58	
	6/30/94	LI/AEN		<0.05	NA	<0.0005	<0.0005		<0.0005	<0.0002	0.6	<0.05	<0.0
	9/27/94	LF/AEN		<0.05	NA	<0.0005	<0.0005		<0.0005	<0.0002	<0.2	0.61	<0.0
	1/10/95	LF/AEN		<0.05	NA	<0.0005	<0.0005		<0.0005	< 0.0002	<0.2	0.6	NA
	10/2/95	AEI/PEL		0.35	NA.	0.0044	0.0026		0.0023	0.0064	<0.5	<0.05	NA
	1/8/96	AEI/MAI		0.05	NA	0.0058	0.0071		0.0012	0.0064	<0.25	<0.05	NA
				<0.05		<0.0005	<0.0005		<0.0005	< 0.0005	NA	<0.05	NA
	4/25/96	AEI/MAI			NA				<0.0005	<0.0005	NA	<0.05	NA
	3/25/97	AEI/MAĬ		<0.05	<0.005	<0.0005	<0.0005						
	7/3/97	AEI/MAI		<0.05	<0.005	<0.0005	<0.0005		<0.0005	< 0.0005	NA	<0.05	NA
	10/2/97	AEI/MAI		<0.05	<0.005	<0.0005	<0.0005		<0.0005	<0.0005	NA	0.11	NA
	1/28/98	AEI/MAI		< 0.05	<0.005	0.0057	<0.0005		<0.0005	<0.0005	NA	ND	NA
	8/19/99	AEI/MAI		<0.05	<0.005	0.0057	< 0.0005		<0.0005	< 0.0005	NA	NA	NA
	2/9/00	AEI/MAI		<0.05	< 0.005	0.0057	<0.0005		<0.0005	<0.0005	NA	NA	NA
	8/9/00	AEI/MAI		<0.05	<0.005	0.0057	<0.0005		<0.0005	<0.0005	NA	NA	NA
MW-11	(1)	SUB	(6)	NA	NA	0.053	BDL		BDL	BDL	NA	NA.	0.2
	5/28/93	HC/SUP		1.2	NA	0.45	0.017		0.0015	0.0021	NA	<0.05	(3)
				9.2	NA	4.5	0,0383	(5)	0.012	0.043	<0.2	0.53	<0.0
	12/22/93	LF/ABN						(9)				<0.05	<0.0
	6/30/94	LF/AEN		8.8	NA	1.5	0.013		0.69	1.2	1.1		
duplicate	6/30/94	LF/AEN		9.7	NA.	1.7	0.014		0.73	1.3	NA	NA	NA
	9/27/94	LF/AEN		15	NA.	6.5	0.026		0.87	0.59	<0.2	0.91	<0.0
		LE/MEN		14	NA	0.89	0.22		0.84	2.4	0.2	L.L	NA
	1/10/95			14		0.047				0.00/			NA
	1/10/95 10/2/95	LF/AEN		14 7.1	NA		0.0057		0.011	0.036	<0.5	<0.05	
	10/2/95	LF/AEN AEI/PEL		7.1	NA. NA		0.0057		0.011 0.79			<0.05 2	
	10/2/95 1/8/96	LF/AEN AEI/PEL ABI/MAI		7.1 12	NA	1.2	0.099		0.79	1.4	<0.25	2	NA
	10/2/95 1/8/96 4/25/96	LF/AEN AEI/PEL ARI/MAI AEI/MAI		7.1 12 5.8	NA NA	1.2 0.23	0.099 0.059		0.79 0.2	1.4 0.77	<0.25 NA	2 1.4	NA NA
	10/2/95 1/8/96 4/25/96 3/25/97	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76	NA NA 0.13	1.2 0.23 0.13	0.099 0.059 0.049		0.79 0.2 0.0029	1.4 0.77 0.001	<0.25 NA NA	2 1.4 0.49	NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76 0.29	NA NA 0.13 0.38	1.2 0.23 0.13 <0.0005	0.099 0.059 0.049 <0.0005		0.79 0.2 0.0029 0.6	1.4 0.77 0.001 <0.0005	<0.25 NA NA NA	2 1.4 0.49 <0.05	NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76	NA NA 0.13	1.2 0.23 0.13 <0.0005 0.0088	0.099 0.059 0.049 <0.0005 0.00073		0.79 0.2 0.0029 0.6 <0.0005	1.4 0.77 0.001 <0.0005 0.00067	<0.25 NA NA NA NA	2 1.4 0.49 <0.05 0.22	NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76 0.29	NA NA 0.13 0.38	1.2 0.23 0.13 <0.0005	0.099 0.059 0.049 <0.0005		0.79 0.2 0.0029 0.6	1.4 0.77 0.001 <0.0005	<0.25 NA NA NA	2 1.4 0.49 <0.05 0.22 0.16	NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76 0.29 0.22 0.54	NA NA 0.13 0.38 0.72 0.36	1.2 0.23 0.13 <0.0005 0.0088 0.14	0.099 0.059 0.049 <0.0005 0.00073 0.00081		0.79 0.2 0.0029 0.6 <0.0005	1.4 0.77 0.001 <0.0005 0.00067	<0.25 NA NA NA NA	2 1.4 0.49 <0.05 0.22	NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99	LF/AEN AEJ/PEL AEJ/MAI AEJ/MAI AEJ/MAI AEJ/MAI AEJ/MAI AEJ/MAI		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59	NA NA 0.13 0.38 0.72 0.36 0.72	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032		0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 <0.0005	<0.25 NA NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16 NA	NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98	LF/AEN AEI/PEL ABI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI		7.1 12 5.8 0.76 0.29 0.22 0.54	NA NA 0.13 0.38 0.72 0.36	1.2 0.23 0.13 <0.0005 0.0088 0.14	0.099 0.059 0.049 <0.0005 0.00073 0.00081		0.79 0.2 0.0029 0.6 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.00067 <0.0005	<0.25 NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16	NA NA NA NA NA NA
MW 12	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00	LF/AEN AEUPEL AEUMAI AEUMAI AEUMAI AEUMAI AEUMAI AEUMAI AEUMAI AEUMAI		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.28 0.28	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0031		0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 <0.0005 0.0005 0.0029 0.00084	<0.25 NA NA NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA	N# N# N# N# N# N#
MW-12	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00	LF/AEN AEL/PEL AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI SUB		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.72 0.28	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL		0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 BDL	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 <0.0005 0.0029 0.00084 BDL	<0.25 NA NA NA NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA	NA NA NA NA NA NA NA NA
MW-12	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93	LF/AEN AEL/PEL AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI SUB HC/SUP		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.41 NA NA	1.2 0.23 0.13 <0.0005 0.0005 0.14 0.18 0.1 0.0017 <0.0003	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL <0.0003	(5)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 <0.0005 0.0029 0.00084 BDL <0.0009	<0.25 NA NA NA NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05	NA NA NA NA NA NA NA SD (3)
MW-12	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93	LF/AEN AEU/PEL AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI SUB HC/SUP LF/AEN		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05 0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.28 0.41 NA NA NA	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017 <0.0003 <0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007	(5)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0003	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 <0.0005 0.0002 0.00084 BDL <0.0009 <0.0009	<0.25 NA NA NA NA NA NA NA NA NA NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA NA S(0.05 0.3	NA NA NA NA NA NA NA SD (3) <0.0
MW-12	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94	LF/AEN AEI/PEL AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI BUB HC/SUP LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.52 0.54 0.59 0.68 0.35 NA <0.05 0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.28 0.41 NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0003 0.0005 0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0031 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0007	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0003 <0.0005	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 <0.0005 0.0009 0.00084 BDL <0.0009 <0.0009 <0.0009	<0.25 NA NA NA NA NA NA NA NA <0.2 0.4	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05 0.3 <0.05	NA NA NA NA NA NA SD (3) (3) (3) (3)
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94	LF/AEN AEL/PEL AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI BUB HC/SUP LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.54 0.59 0.68 0.35 NA <0.05 0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.41 NA NA NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0003 0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0005 BDL <0.0003 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 <0.0005 0.0029 0.00084 BDL <0.0009 <0.0009 <0.0002	<0.25 NA NA NA NA NA NA NA NA NA A A A A A A	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA S0.05 0.3 <0.05 0.4	NA NA NA NA NA NA NA SD (3) (3) (0.0 (0.0) <0.0
MW-12 duplicate	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94	LF/AEN AEI/PEL AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI BUB HC/SUP LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05 0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.28 0.41 NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0003 <0.0005 0.0005 <0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.0003 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005	(5)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 0.0009 0.00084 BDL <0.0009 <0.0009 <0.0002 <0.0002	<0.25 NA NA NA NA NA NA NA NA O.2 0.4 <0.2 NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA 0.05 0.3 <0.05 0.4 NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 12/22/93 6/30/94 9/27/94	LF/AEN AEL/PEL AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI BUB HC/SUP LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.54 0.59 0.68 0.35 NA <0.05 0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.41 NA NA NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0003 0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0005 BDL <0.0003 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 0.0005 0.0002 0.00084 BDL <0.0009 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	<0.25 NA NA NA NA NA NA NA NA NA A A A A A A	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05 0.3 <0.05 0.3 <0.05 0.4 NA 0.3	NA NA NA NA NA NA NA NA NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94 9/27/94 4/10/95	LF/AEN AEL/PEL ABL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI BUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.72 0.28 0.72 0.28 0.41 NA NA NA NA NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0003 <0.0005 0.0005 <0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00031 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 0.0009 0.00084 BDL <0.0009 <0.0009 <0.0002 <0.0002	<0.25 NA NA NA NA NA NA NA NA O.2 0.4 <0.2 NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA 0.05 0.3 <0.05 0.4 NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94 9/27/94 1/10/95 10/2/95	LF/AEN AEL/PEL AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI AEL/MAI SUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.52 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 1.41 NA NA NA NA NA NA NA	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00031 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005 <0.0005 <0.0005	(3)	0.79 0.2 0.0025 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 <0.0005 0.0029 0.00084 BDL <0.0009 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	<0.25 NA NA NA NA NA NA NA NA NA A A A A A A	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05 0.3 <0.05 0.3 <0.05 0.4 NA 0.3	NA NA NA NA NA NA NA NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94 9/27/94 9/27/94	LF/AEN AEU/PEL AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI BHC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 5.41 NA NA NA NA NA NA NA NA NA	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00073 0.0003 0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 BDL <0.0005 BDL <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00	1.4 0.77 0.001 <0.0005 0.0005 <0.0005 0.0009 0.0008 <0.0009 <0.0009 <0.0009 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002	<0.25 NA NA NA NA NA NA NA NA A NA <0.2 0.4 <0.2 NA <0.2 NA <0.2 S 0.5 <0.25	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05 0.3 <0.05 0.4 NA 0.3 <0.05 <0.05 <0.05	NA NA NA NA NA NA NA NA SO (30) <0) <0) <0) NA NA NA NA NA NA NA
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94 9/27/94 1/10/95 10/2/95 1/8/96	LF/AEN AEU/PEL ABU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI SUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN		7.1 12 5.8 0.76 0.29 0.52 0.54 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.41 NA NA NA NA NA NA NA NA NA NA	1.2 0.23 0.13 0.0005 0.0088 0.14 0.18 0.1 0.0017 0.0017 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.099 0.059 0.049 <0.0005 0.00073 0.00081 0.0032 0.0031 0.0026 BDL <0.0003 <0.0007 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	1.4 0.77 0.001 <0.0005 0.00067 <0.0005 0.0009 0.00084 BDL <0.0009 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0005	<0.25 NA NA NA NA NA NA NA NA <0.2 0.4 <0.2 NA <0.2 NA <0.2 S NA	2 1.4 0.49 <0.05 0.22 0.16 NA NA NA NA <0.05 0.3 <0.05 0.4 NA 0.3 <0.05 <0.05 <0.05 <0.05	NA NA NA NA NA NA NA NA SO. (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)
	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 12/22/93 6/30/94 9/27/94 9/27/94 4/10/95 10/2/95 1/8/96 4/25/96	LF/AEN AEI/PEL AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI SUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN AEI/PEL AEI/MAI		7.1 12 5.8 0.76 0.29 0.22 0.54 0.39 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.36 0.72 0.28 0.72 0.72 0.36 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	1.2 0.23 0.13 <0.0005 0.0088 0.14 0.18 0.1 0.0017 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 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	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 12/22/93 6/30/94 9/27/94 9/27/94 4/10/95 10/2/95 1/8/96 4/25/96	LF/AEN AEI/PEL AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI AEI/MAI SUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN AEI/PEL AEI/MAI		7.1 12 5.8 0.76 0.29 0.22 0.54 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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	10/2/95 1/8/96 4/25/96 3/25/97 7/3/97 10/2/97 1/28/98 8/19/99 2/9/00 8/9/00 (1) 5/28/93 12/22/93 6/30/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94 9/27/94	LF/AEN AEU/PEL AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI AEU/MAI SUB HC/SUP LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN LF/AEN AEU/MAI AEU/MAI		7.1 12 5.8 0.76 0.29 0.54 0.59 0.68 0.35 NA <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NA NA 0.13 0.38 0.72 0.36 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.28 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	$\begin{array}{c} 1.2\\ 0.23\\ 0.13\\ <0.0005\\ 0.0088\\ 0.14\\ 0.18\\ 0.1\\ \textbf{0.0017}\\ <0.0003\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ <0.0005\\ 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<0.0005 <0.0005 <0.0005	(3)	0.79 0.2 0.0029 0.6 <0.0005 <0.0005 <0.0005 <0.0005 BDL <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 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Table 4 Historic Groundwater Monitoring Data 625 Hegenberger Road, Oakland, Callfornia (concentrations in mg/L)

Well ID	Date	Consultant/ Lab		TPHe	MTBE	Bénžene	Toluene		Ethyl- Benzene	Xvlenes	TPHo	TPHd	Tol Le
MW-16	(1)	SUB	(7)	NA	NA	BDL	BDL		BDL	BDL	<u>necolificación</u> NA	NA	BD
	5/28/93	HC/SUP		<0.05	NA	0.0028	<0.0003		<0.0007	<0.0009	NA	<0.05	(3
	12/22/93	LF/AEN		2.2	NA	<0.0005	<0.0007	(5)	<0.0005	<0.0002	<0.2	0.52	(0) <0.1
	6/30/94	LF/AEN		<0.05	NA	0.008	<0.0005	(9)	<0.0005	<0.0002	0.9	<0.05	<0.
	9/27/94	LF/AEN		0.07	NA	0.017	<0,0005		<0.0005	<0.0002	<0.2	0,59	<0.0
	1/10/95	LF/AEN		0.3	NA	0.19	<0.0005		<0.0005	<0.0002	<0.2	0.7	N/
	10/2/95	AEI/PEL		0.55	NA	0.0077	0.0007		0.0035	0.013	<0.5	<0.05	NA
	1/8/96	AEI/MAI		0.36	NA	<0.0005	<0.0005		0.004	0.0097	<0.25	0,14	N/
	4/25/96	AEI/MAI		1.1	NA	0.39	0.0037		0.0032	0.014	NA	0.33	Na
	3/25/97	AEI/MAI		0.31	2.1	<0.0005	<0.0005		<0.0005	0.0014	ŇA	0.12	NA
	7/3/97	AEI/MAI		0.25	1.9	<0.0005	<0.0005		< 0.0005	<0.0005	NA	0.13	NA
	10/2/97	AEI/MAI		0.29	2	< 0.0005	<0.0005		< 0.0005	<0.0005	NA	0.18	N/
	1/28/98	AEI/MAI		0.15	1.9	<0.0005	<0.0005		<0.0005	<0.0005	NA	0.13	NA
	9/9/99	AEI/MAI		<0.05	0.88	<0.0005	<0.0005		<0.0005	<0.0005	NA	NA	Na
	2/9/00	AEI/MAI		<0.05	0.088	<0.0005	0.0006		<0.0005	0.00087	NA	NA	NA
	8/9/00	AEI/MAI		<0.05	0.80	<0.0005	<0.0005		<0.0005	<0.0005	NA	NA	N
MW-24	1/10/95	LF/AEN		31	NA	12	1.9		1.1	1.3	0.2	0.9	NA
duplicate	1/10/95	LF/AEN		31	NA	12	2		1.1	1.3	0.2	0.8	NA
	10/2/95	AEI/PEL		8.6	NA	0.044	0.011		0.012	0.04	<0.5	<0.05	NA
	1/8/96	AEI/MAI	(8)	22	NA	8.8	0.14		0.5	0.28	<0.25	1.5	NA
EW-01	2/9/00	AEI/MAI		2.6	0.75	0.8	0.048		0.021	0.091	NA	NA	NA
	8/9/00	AEI/MAI		6.7	1.3	Ð	0.019		0.12	0.031	NA	NA	NA
MW-26	8/9/00	AEI/MAI		<0.05	<0.005	<0.0005	<0.0005		<0.0005	<0.0005	NA	NA	NA
MW-27	8/9/00	AEI/MAI		<0.05	<0.005	<0.9005	<0.0005		<0.0005	<0.0005	NÁ	NA	NA
<u>Blanks</u>													
Trip Blank	5/28/93	HC/SUP		<0.05		<0.0003	< 0.0003		<0.0003	<0.0009	NA	ŇĂ	BD
MW-12-BB	12/22/93	LF/AEN		<0.05		<0.0005	0.0007		< 0.0005	< 0.0002	NA	NA	(3)
MW-16-BB	12/22/93	LF/AEN		NA.		NA	NA		NA	NA	NA	NA	<0.0
MW-12-BB	6/30/94	LF/AEN		<0.05		<0.0005	<0.0005		<0.0005	<0.0002	NA	NA	<0.0
MW-12-BB	9/27/94	LF/AEN		<0.05		<0.0005	<0.0005		<0.0005	< 0.0002	NA	NA	NÆ
Trip Blank	9/27/94	LF/AEN		<0.05		<0.0005	<0.0005		<0.0005	<0.0002	NA.	NA	NA
MW-11-BB	L/10/95	LF/AEN		< 0.05		<0.0005	<0.0005		<0.0005	< 0.0002	NA	NA	NA

<u>Notes</u>

BDL	below detection limit
NA	not analyzed
NS	not sampled
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHo	total petroleum hydrocarbons as oil
MTBE	methyl tertiary butyl ether
AEN	American Environmental Networks, Pleasant Hill, California
HC	HartCrowser, San Francisco, California
LF	Levine Fricke, Emeryville, California
SUB	Subsurface Consultants, Oakland, California
SUP	Superior Analytical Laboratories, Martínez, California
AEI	All Environmental, Inc., Lafayette, California
PEL	Priority Analytical Laboratories, Milpitas, California
MAI	McCampbell Analytical Inc., Pacheoo, California
(1)	Date of groundwater sampling unavailable.
(2)	18 mg/ total volatile hydrocarbons also detected
(3)	All May 1993 samples also analyzed for total organic lead (DHS Method). The compound was not detected
	above the detection limit of 4 mg/l.
(4)	A slight hydrocarbon sheen was observed on the surface of the well water.
(5)	Toluene detection for 22-Dec-93 were qualified using 0.0007 mg/l as a baseline.
	The bailer blank (MW-12-BB) contained toluene at 0.0007 mg/l.
ശി	0.24 mg/l total volatile hydrocarbons also detected

(6) (7) (8) 0.24 mg/l total volatile hydrocarbons also detected 0.38 mg/l total volatile hydrocarbons also detected Well Mw-24 was abandoned on April 5, 1996.

HPR-21-00 FRI 01:36 PM ALAMEDA COUNTY PWA RM23	9 FAX NO. 5107821939 P. 03/04 I Consultants 2002
04/13/2000 15:19 FAX 9252836121 AE	
ALAMEDA COUNTI I U	
WATER RESOURCES SECTION	
PUBLIC PRONE (SID) STU-SITE 300. HAS	
WORKS (S10) 678-5248 ALVIN KAN	INTREI FRA (11) - TOPAT
DRILLING PERMIT A	PPLICATION
· · · · · · · · · · · · · · · · · · ·	FOR OFFICE USE
FOR APPLICANT TO COMPLETE	
DEATION OF TROFET 625 Heyerberger 1/4	PERMITNUMBER WOUT 187
Garland, Californi 40	
	PERMIT CONDITIONS
Salifornia Coordinases SourceR Accuracy +[L	
A7N	Circled Ferral: Requirements Apply
WENT Dinesh Manian	A GENERAL
Name Dinky h Maniav	1. A permit application should be submitted to M to arrive at the ACPWA effice five days prior 3
Tily 7. Jan Francisco CA Zip 94030	orosocie statute dale.
SPELICANT	2. Submits to ACPWA within 60 days after completion of permitted work the original Department of Water
AFT CONSULTONTS	Resources Water Well Drillers Report of equivalent for
Fac 975 283 -600 6 121	well projecu, or drilling lags and location skatch for geocecutating projecu.
Thy /	3. Permit is void if project not begue within 90 days of
	B. WATER SUPPLY WELLS
TYPE OF PROJECT Well Construction Geoacomical Investigation	L. Ministern sufface sent thickness is two inches of
Cathodic Protection C General C	comment grout pleased by tremis. 2. Minimum seal depub is 50 feet for municipal and
Water Supply D. Concerningtion D. Moningrang D. Well Descution O.	industrial weat or 20 feet for domestic and intigation
	wells unless a lesser deput is specially approved.
ROPOSED WATER SUPPLY WELL USE New Dominatic C Replacement Domination C	C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
	1. Minimum purfues seal thickness is two inches of
Indusarial D Other D	coment growt placed by seemis. 2. Minimum seed depth for monitoring wells is the
RILLING METHOD:	maximum seus deput practicable of 20 feet
Mud Recary Q Air Rozery Q Auger Q f	D. GEOTECHNICAL
Cuble I Other >S Dimest Pash	Backfill bore hale with compared comings or heavy beaming and upper two feet with compared material.
IRELLER'S LICENSE NO. 705 927	la arrae of known or susperies contamination, armiss
VELL PROJECTS	cement grout shall be used in place of compacted suitings.
Ori)] Hele Diameter in. Staximum	Fill hole above anode zone with concrete placed by tremie.
Casing Diameterin. Depth R.	F. WELL DESTRUCTION See stached.
Surface Seal Depth	G. SPECIAL CONDITIONS
EOTECHNICAL PROJECTS	
Hole Diamarin, Depth <u>50</u> th	1 A AMAA
STIMATED STARTING DATE 4/24/00	The by aday 421-00
STINATED CONFLETION DATE 1414 4 60	APPROVED CUMKA CUCATE 2
hereby agree to comply with all requirements of this permit and	Post IF Fax Note 7671 Date -20 601 /
Lamera County Ordinance No. 73-63.	To SUFIC Prom (la sub
PPLICANT'S	Ca/Dept.
IONATURE DATE 4/13/00	Phane a
//	A25 7836121 Fax.

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PAGE.02

1+PR-21-00 FRI 01:34 PM ALAMEDA COUNTY PWA RM2	239 FAX NO. 5107821939 P. 02
04/13/2000 15:10 FAX 9252836121	AEI Consultants
ALAMEDA COUNTY 1	PUBLIC WORKS AGENCY
	CORRECT ORING AGENCI
WATER RESOURCES SECTION	
PUBLIC SSI TURNER COURT, SUTTE 306,	RAYWARD, CA 94545-2651
WORKS (510) 670-5249 ALVIN K	
DRILLING PERMIT	APPLICATION .
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF ANDER 625 Hegenberger Ru	PERMIT NUMBER WOO-188
Bakkind, California	WELL NUMBER
	APN
Alifornia Coordinants SourceR. CCER. Accuracy tR	PERMIT CONDITIONS
CNG. CCEG.	4
	Circled Permit Requirements Apply
ame_ Dinash Manian	A. GENERAL
ing 5. San Francisco CD Zip 94000	4. A permit application chould be submitted to be to arrive at the ACPWA-office five days prior to
14 7. Dan Francis CA Zip 94640	STORE Shring date
FUCANT	2. Submit to ACPWA within 60 days after completion of permised work site original Department of Water
HEI CONSULTONTS For925 283-6000 6 121	Renounced Water Well Drillers Report or equivalent for
Corress 72, 10, P. I.G. TWINKE HOL Phone 975 253-6007	well projects, or drilling togs and location skatch far geotechnical projects.
in lave yette (4 217 94549	3. Permit is void if project not begun within 90 days of
YPE OF PROJECT	approvaí dalc. B. WATER SUPPLY WELLS
We'l Construction Geosechnical Investigation Cathodia Protection D General C	1. Minimum syringe scal thickness is two inches of
Water Supply D Contamination D	cament grout placed by granic. 2. Minimum scal depth is 50 feet for municipal and
Manituring Well Destruction O	industrial wells of 20 feet for domestic and infeation
ROPOSED WATER SUPPLY WELL USE	wells unloss a lesser dapch is specially approved.
New Domestic C Replacement Domestic C	C. GROUND WATER MONITORING WELLS INCLUDING PIEZOMETERS
Municipal (Linigation C Industrial I Other C). Minimum surface seal thickness is two inches of
	centers grout placed by tremis. 2. Minimum real depth for manifering wells is the
RILLING METROD: Mud Romy D Air Rotery D Auger	maximum depth practicable or 20 feet.
Lible C Other C	D. GAOTECHNICAL Backfill bore hole with comparied configer or heavy
RILLER'S LICENSE NO. 1105-165	bentonic and apper two feet with compacted material.
RILLER'S LICENSE NO	In areas of known or suspensed contamination, we miled
Drill Hole Diameter 10 10 in Maximum	coment grout shall be used in place of compacted sutlings. E. CATHODIC
Casing Diamater Z in. Death ZO n	Fill hold above ended zone with concrete placed by trende. F. WELL DESTRUCTION
Surface Seal Depth 3 A Number 2	Ser attached.
EGTECHNICAL PROJECTS	G. SPECIAL CONDITIONS
Number of Borings Naximum Hole Diameterm. Depthft.	
	A AMA M
STINATED STARTING DATE 4/24/00 STINATED COMPLETION DATE 4/24/00	500mb 21920 4-110
- Juant	APPROVED W WINY A CONTENTE IN AT U
tereby spree to comply with all requirements of this permit and	
Ismeen County Ordinenen No. 73-68	Post-In Fax Note 7871 Date C - 20 Martine
	Carber 12 Prove / Greek
PPLICANT'S	Phone J
DATE T/ TU	Ptione s
	25 7836121 Fait
	** TOTAL PAGE.01 **

APR 13 2000 15:30

1

9252836121

PAGE.01

Project Name: Hegenberger

Log of Borehole: MW-26

Client: Diversified

Location:



Total Depth: 15 Depth to Water: 5.5 Sheet: 1 of 1

Project Name: Hegenberger

Log of Borehole: MW-27

Client: Diversified

Location:

Sample Data Soil Symbol Subsurface Description Well Data Recovery Remarks Sample Label Blow Counts/ Depth Type 0 0 0 0 0 Ground Surface CLAY Silty and sandy clay 2 3 Δ 5 6 2 Sand and gravel present 7 8 9 3 10 11 12 SAND Fine to medium sand with silt and 13 clay А 14 15 End of Borehole 16 5 17 18_ Drill Date 6/1/00

Drill Method: HOLLOW AUGER

Reviewed by: JPD

Logged by: PJM

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Total Depth: 15 Depth to Water: 5.0 Sheet: 1 of 1

Project Name: Hegenberger

Client: Diversified

Location:



Drill Method: DIRECT PUSH

Logged by: PJM

AEI Consultants 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000

Total Depth: 44.5

Depth to Water: 6.2 feet

Project Name: Hegenberger

•

Log of Borehole: AEI B-28

Client: Diversified

Location:

				Sample	Data	· · ·			
Depth	Soil Symbol	Subsurface Description	Sample Label	Type	Blow Counts/	Recovery	Well Data	Remark	S
26				1		<u> </u>			
²⁶		SAND Medium to coarse sand, clean wit gravel to 1 cm	h DB-27	GW					
29 1 30 30 1 1 9									
31 32 33 - 10									
34 34 35									
36 - 11									
37									
38									:
39									
40- <u>1</u> 41- <u>-</u>		CLAY Stiff clay							
42									
44									
45		End of Borehole							
44 45 46 47		• •							
48									
49 15							,		
50									
Drill Dat	te 6/8/00		Reviewed by:	IPD			AEI	Consultants	
		ECT PUSH	Logged by: PJN	A			3210 Lafa (925	o Old Tunnel Road, Sui yette, CA 94549 i) 283-6000	te B
	epth: 44.5 o Water: 6	.2 feet					,00	,	

Monitoring Well Number: MW-8

Project Name: Hegenberger	Date of Sampling: 8/9/00
Job Number: 20826	Name of Sampler: D. Roy
Project Address: 625 Hegenberger Road	Oakland, CA

MONITO	RING WELL DATA
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade Type and Condition	
Well Cap & Lock – OK/Replace	
Elevation of Top of Casing	3.96
Depth of Well	14.40
Depth to Water	5.15
Water Elevation	-1.19
Three Well Volumes (gallons)*	•
2" casing: (TD - DTW)(0.16)(3)	4.44
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	5
Appearance of Purge Water	

GROUNDWATER SAMPLES

Time	Vol Remvd (gal)	Temp C	рН	Cond (mS)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
	1	19.49	6.80	339	2.53	
	3	18.94	6.72	362	1.73	
	5	18.85	6.68	365	1.55	
	COMMENTS	(i.e., sample	e odor, wel	l recharge ti	ne & percent, etc	.)

TD - Total Depth of Well DTW - Depth To Water

Monitoring Well Number: MW-10

Project Name: Hegenberger	Date of Sampling: 8/9/00
Job Number: 20826	Name of Sampler: D. Roy
Project Address: 625 Hegenberger Road	Oakland, CA

MONITO	ORING WELL DATA
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade Type and Condition	
Well Cap & Lock – OK/Replace	
Elevation of Top of Casing	4.20
Depth of Well	15.7
Depth to Water	5.33
Water Elevation	-1.13
Three Well Volumes (gallons)*	
2" casing: (TD – DTW)(0.16)(3)	4.97
4" casing: (TD – DTW)(0.65)(3)	
6" casing: (TD – DTW)(1.44)(3)	
Actual Volume Purged (gallons)	5
Appearance of Purge Water	

GROUNDWATER SAMPLES

Гіте	Vol Remvd (gal)	Temp C	рН	Cond (mS)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
	1	21.79	6.88	566	2.60	
	3	21.84	6.88	564	1.91	
_	5	21.85	6.86	565	1.63	
		<u> </u>				

TD - Total Depth of Well DTW - Depth To Water

Monitoring Well Number: MW-11

Project Name: Hegenberger	Date of Sampling: 8/9/00
Job Number: 20826	Name of Sampler: D. Roy
Project Address: 625 Hegenberger Road	Oakland, CA

MONITO	DRING WELL DATA
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade Type and Condition	
Well Cap & Lock – OK/Replace	
Elevation of Top of Casing	5.01
Depth of Well	15
Depth to Water	6.20
Water Elevation	-1.19
Three Well Volumes (gallons)*	
2" casing: (TD – DTW)(0.16)(3)	4.22
4" casing: (TD – DTW)(0.65)(3)	
6" casing: (TD – DTW)(1.44)(3)	
Actual Volume Purged (gallons)	5.5
Appearance of Purge Water	

GROUNDWATER SAMPLES

Time	Vol Remvd (gal)	Temp C	рН	Cond (mS)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
	1	20.77	6.56	281	2.48	
	3	19.99	6.58	265	2.84	
	5	19.65	6.48	268	1.48	
	COMMENT		1		time & percent, et	

TD - Total Depth of Well DTW - Depth To Water

		Monitor	ing W	ell N	umber: M	W-12		
Project Na	me: Hegenberg	er		Date	e of Samplin	ng: 8/9/00	0 1	
Job Number: 20826				Nan	ne of Sampl	er: D. Roy	<u> </u>	
Project Address: 625 Hegenberger Road				Oak	land, CA			
		MON	TOR	ING Y	WELL DA	ГА		
Well Casin	ng Diameter (2"/			2"				
	ade – Type and C						<u></u> .	
	& Lock - OK/Re			<u> </u>				
	of Top of Casing			4.58	}			
Depth of V				15.5	;			
Depth to V				5.14				
Water Ele				-0.56				
	ll Volumes (galle							
	sing: (TD – DTW			4.97				
	ing: (TD – DTW							
	ing: (TD – DTW							
	lume Purged (ga			5				
Appearance	ce of Purge Wate	r					·····	
NT1	<u> </u>		JNDW		R SAMPL			
inumber of	f Samples/Contai	iner Size	<u> </u>	2 X	40 ml VOA	.8		
Time	Vol Remvd	Temp C	pl	H H	Cond	Dissolved	Redox	
	(gal)		_		(mS)	Oxygen (mg/L)	Potential (mV)	
	1	21.25	6.8	34	246	2.32	. ,	
	3	21.30	6.7	78	231	1.92		
	5	21.32	67	12	217	1.60		

1.69 5 21.32 6.72 217

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

TD - Total Depth of Well DTW - Depth To Water

		Monitor	ring W	ell N	umber: M	W-16			
Project Na	ame: Hegenberg	er		Date	e of Samplir	ng: 8/9/00	<u> </u>		
	Job Number: 20826			Nan	ne of Sampl	er: D. Roy			
Project Address: 625 Hegenberger Road				land, CA	3	1.			
		MON	TODI				·		
Wall Casi	ng Diameter (2"/		IIUR	2"	WELL DAT	I A			
	ade Type and (/		2		·			
	& Lock – OK/Re								
	$\frac{\alpha \operatorname{Lock} - \operatorname{OK}/\operatorname{Ke}}{\operatorname{of Top of Casing}}$			5.51			· · · · · · · · · · · · · · · · · · ·		
Depth of V		<u> </u>		12.5					
Depth to V				6.74					
Water Ele				0.74 -1.2					
				-1.2	3				
Three Well Volumes (gallons)* 2" casing: (TD – DTW)(0.16)(3)			2.76						
	sing: $(TD - DTW)$			2.70					
	sing: $(TD - DTW)$								
	lume Purged (ga	/ /		4					
	e of Purge Wate			-			·· · · · ·		
repourun						<u>.</u>			
·	· •	GROU	UNDW	ATE	R SAMPL	ES			
Number of	f Samples/Contai	iner Size		2 X	40 ml VOA	S			
	· · · · · · · · · · · · · · · · · · ·								
Time	Vol Remvd	Temp C	pł	I	Cond	Dissolved	Redox		
	(gal)				(mS)	Oxygen	Potential		
						(mg/L)	(mV)		
	1	25.01	7.0		254	3.71			
	2	20.5	6.9		291	1.43			
	4	20.5	6.6	2	286	1.33			
							-		

TD - Total Depth of Well DTW - Depth To Water

l

		Monito	ring W	/ell N	umber: E	W-01	
Project Na	me: Hegenberg	er		Date	e of Sampli	ng: 8/9/00	
Job Numb	er: 20826			Nan	ne of Samp	ler: D. Roy	
Project Ad	ldress: 625 Hege	nberger Ro	ad		land, CA		••••••
		MON	ITORI	ING Y	WELL DA	TA	
Well Casi	ng Diameter (2"/4			4"			<u> </u>
	ade – Type and C						e (m
	& Lock – OK/Re						
Elevation	of Top of Casing			5.19	,		
Depth of W	Well	-		22.5			
Depth to Water				6.38			
Water Elev	vation			-1.1	9		
Three Wel	l Volumes (gallo	ns)*				······	
	ing: (TD – DTW						
	ing: (TD – DTW			31.4			
	ing: (TD – DTW						
	lume Purged (gal			30			
Appearance	e of Purge Water	r		·			
			UNDW		R SAMPL		
Number of	f Samples/Contai	ner Size		2 X	40 ml VOA	As	
Time	Vol Remvd	Temp C	pł	I	Cond	Dissolved	Redox
	(gal)				(mS)	Oxygen	Potential
						(mg/L)	(mV)
	10	18.26	6.6	i4	575	1.58	

6.70

6.69

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

18.27

18.37

508

471

1.45

1.32

TD - Total Depth of Well DTW - Depth To Water

Strong hydrocarbon odor

16

Monitoring W	ell Number: MW-26
Project Name: Hegenberger	Date of Sampling: 8/9/00
Job Number: 20826	Name of Sampler: D. Roy
Project Address: 625 Hegenberger Road	Oakland, CA
MONITOR	ING WELL DATA
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade Type and Condition	Cement / Good
Well Cap & Lock – OK/Replace	OK
Elevation of Top of Casing	5.12
Depth of Well	15.0
Depth to Water	5.81
Water Elevation	-0.69
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	4.41
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	5
Appearance of Purge Water	

Time	Vol Remvd (gal)	Temp C	рĤ	Cond (mS)	Dissolved Oxygen (mg/L)	
	1	22.12	7.27	124	2.14	
	3	21.69	7.14	124	2.46	
	5	21.27	6.99	123	2.78	
	······································	<u> </u>			me & percent, etc.	

TD - Total Depth of Well DTW - Depth To Water

Monitoring Well Number: MW-27

Project Name: Hegenberger	Date of Sampling: 8/9/00
Job Number: 20826	Name of Sampler: D. Roy
Project Address: 625 Hegenberger Road	Oakland, CA

ORING WELL DATA
2"
Cement / Good
OK
4.06
15.0
5.12
-1.06
4.72
5

GROUNDWATER SAMPLES

ĩme	Vol Remvd (gal)	Temp C	pН	Cond (mS)	Dissolved Oxygen (mg/L)	
	1	24.47	6.99	146	2.15	·
	3	24.44	6.95	146	2.31	
	5	24.44	6.93	146	2.21	

TD - Total Depth of Well DTW - Depth To Water McCAMPBELL ANALYTICAL INC.

All Environmental, Inc.	Client Project ID: #20826	Date Sampled: 08/09/2000
3210 Old Tunnel Road, Suite B		Date Received: 08/11/2000
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 08/11/2000
	Client P.O:	Date Analyzed: 08/11/2000

08/18/2000

Dear Peter:

Enclosed are:

1). the results of 8 samples from your #20826 project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yourstruly, Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

All Envir	ronmental, Inc		Client Proj	ect ID: #20	0826	Date Sampled: 08/09/2000			
3210 Old	Tunnel Road	, Suite B				Date Received: 08/11/2000			
Lafayette	e, CA 94549-4	157	Client Con	tact: Peter	McIntyre		Date Extra	cted: 08/11	-08/14/2000
			Client P.O:			Date Analyzed: 08/11-08/14/2000			
	ne Range (C6-	-							* & BTEX*
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
44892	MW-08	W	5500,a	540	1700	15	130	37	[#]
44893	MW-10	w	ND	ND	ND	ND	ND	ND	101
44894	MW-11	w	350,a	410	1.7	2.6	ND	0.84	105
44895	MW-12	w	ND	6.4	ND	ND	ND	ND	100
44896	MW-16	w	ND	800	ND	ND	ND	ND	106
44897	EW-01	w	6700,a	1300	2700	19	120	31	96
44898	MW-26	w	ND	ND	ND	ND	ND	ND	101
44899	MW-27	w	ND	ND	ND	ND	ND	ND	100
_			· · · · · ·						
<u> </u>									
- · ·					· · ·				
	ng Limit unless ise stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means no	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

" cluttered chromatogram; sample peak coelutes with surrogate peak

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director



QC REPORT

Date:

08/11/00-08/12/00

Matrix:

Water

Extraction: N/A

Compound		Concert	tration:	ug/L	%Rec	overy		
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD	

SampleID: 40793 Instrument: GC-3 Surrogate1 0.000 95.0 95.0 100.00 95 95 0.0 Xylenes ۰. 0.000 273.0 276.0 300.00 91 92 1.1 Ethyl Benzene 0.000 92.0 93.0 100:00 92 93 1.1 Toluene 0.000 93.0 94.0 100.00 93 94 1.1 Benzene 0.000 96.0 95.0 100.00 96 95 1.0 MTBE 0.000 110.0 112.0 100.00 110 112 1.8 GAS 0.000 824.1 830.0 1000.00 82 83 0.7

 SampleID:
 81100
 Instrument:
 MB-1

 Oil & Grease
 0.000
 19.6
 19.4
 20.00
 98
 97
 1.0

 SampleID:
 81400
 Instrument:
 GC-2 A

Surrogate1	0.000	106.0	101.0	100.00	106 101	4.8
TPH (diesel)	0.000	350.0	335.0	300.00	117 112	4.4

 $RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$

RPD means Relative Percent Deviation

McCAMPBELL ANALYTICAL INC. 110 2 rd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622								CHAIN OF CUSTODY RECORD TURN AROUND TIME C C C C C C C C C C C C C C C C C C C										HR SDA												
Report To: Feder Mc Interve Bill To:																Comments														
Company: AFer Consultante																Comments														
3260		unnel	RA	5	j.te	ß			·······						Grease (3320 E&F/B&F)															
1000		(A	945	49	VITE		····-						BE		H H							⊇								
Tele: () 97.5	1283 0	6000		ax: (25	7	83	6	17	1		+ 8015)/ MTBE		21	(T)						2					}			
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Project Location:		\cap	n	}						· · ·			8+0		se	Suo	20		거			2		3	5					
Sampler Signature	: Al	1/2	-										208/2		5		12/8		NO N			EPA 625 / 82/0 / 8310		103/0						
	LING	MATRIX METHOD PRESERVED								D	BTEX & TPH as Gas (602/8020	<u>ि</u>	Iotal Petroleum Oil &	i otal Petroleum Hydrocarbons (418.1) FPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260									È			
	$\left[\bigcup \right]$			57	Type Containers		Т	-		PKE	SERV	ι Γ	Ga	TPH as Diesel (8015)				2	2 2	ĩ		PAH'S/PNA'S by	a .						Conductivity	
SAMPLE ID	LOCATION			# Containers	utari								PHa	- sci		1 otat Petrojeum FPA 601 / 8010	L7	EPA 608 / 8080	808	ğ	EPA 625 / 8270	S. ANY / S. HAY	LAW-1 / MEGI		5				puo	
Grant DD 10	Location	Date	Time	E E	ß	H		8	ы		5	ы	8 . T	<u>0</u>			16	80	80	24	2	<u>,</u>			Į.				3	
				ပီ	ž	Water	ĀĻ	Sludge	Other	말 문		Other	Ă	Hd	a i		μĚ	A	¥.	Va	A I	Ŧ		5			TSS	DOT	Specific (
				*		12 V		ŝ		¥ ¤		0	'n		- I	- E	<u> </u>		⊡		ធា	$\frac{1}{2}$	5 2	3	2 8	범	F	E	5	•
MW-08		3/7/50		3		X							X		_		1	<u> </u>			·	_ _								44893
MW-10	:	// ·		3	· · ·								X																1 1	
MW-11	· 			3		<u>入</u> ア							Х				_	<u> </u>								_		ļ'	i	4489
MW-12	· . · ·			3		7							X												<u>.</u>	_		l (4400
MW-16				3		x							X																I	4489
EW-01				3	·	X							K															Ľ	1	4489
MW-24				3	1	X							X													1			a i	14030
MW-27				.3		x							X																	4489
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Relinguished By: Date: Time: Received By:							ICE/Y PRESERVATION							<u> </u>	_		•													
				<u> </u>		·								GO	OD	COND	ITIO	1			APF	KOVI	(1A)}	-	1	North Contraction	~			11
Relinquished By:		Date:	Time:	Rece	eived B	y:								HE	AD S	SPAC	ABS	ENT		1	CON	HAI	1110							

and the second secon

All Environmental, Inc.	Client Project ID: #20826; Dinesh - DB	Date Sampled: 06/08/2000				
3210 Old Tunnel Road, Suite B		Date Received: 06/08/2000				
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/08/2000				
	Client P.O:	Date Analyzed: 06/08/2000				

06/15/2000

Dear Peter:

Enclosed are:

1). the results of 3 samples from your #20826; Dinesh - DB project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

truly.

Edward Hamilton, Lab Director
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

All Env	ironmental,	Inc.		Client P	roject ID: #2	20 82 6; Dine	esh - DB	Date Sam	pled: 06/08	3/2000
3210 O	ld Tunnel R	load, Suit	e B					Date Rece	ived: 06/0	8/2000
Lafayet	te, CA 9454	49-4157		Client C	ontact: Peter	r McIntyre		Date Extra	acted: 06/0	8/2000
				Client P	.0:		<u></u> -	Date Anal	yzed: 06/0	8/2000
Gasoli EPA meth	ne Range (C6-C12)	Vola	tile Hydr	ocarbons a	s Gasoline	, with M	ethyl tert-Bu hod GCFID(50	ityl Ether	* & BTEX*
Lab ID	Client ID	Matrix		020 01 002, PH(g) ⁺	MTBE	Benzene	Toluene	Ethylben-	30) Xylenes	% Recovery
39918	DB-6	w	150	,000, a ,h,i	ND<3300	13,000	15,000	zene 3400	23,000	Surrogate 107
39919	DB-20	w	80	,000 ,a ,i	ND<600	3500	8900	1800	13,000	96
39920	DB-27	w	1	700,a,i	ND	29	82	28	220	#
								1		
							·			
	-									·
									· · ·	
									i	
otherwise :	imit unless stated; ND t detected	w	50	ug/L	5.0	0.5	0.5	0.5	0.5	4
above the	reporting nit	S .	1.0	mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

Edward Hamilton, Lab Director



QC REPORT

Date:

06/08/00

Matrix:

Water

Extraction: N/A

	1	Concen	tration:	ug/L	%Re	covery	
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD

SampleID: 38090				Instru	nent G	C-3	
Surrogate1	0.000	98.0	96.0	100.00	98	96	2.1
Xylenes	0.000	272.0	279.0	300.00	91	93	2.5
Ethyl Benzene	0.000	92.0	94.0	100.00	92	94	2.2
Toluene	0.000	93.0	96.0	100.00	93	96	3.2
Benzene	0.000	96.0	99.0	100.00	96	99	3.1
MTBE	0.000	96.0	104.0	100.00	96	104	8.0
GAS	0.000	926.2	923,8	1000.00	93	92	0.3

SampleID: 6900					ment: G	C-11 B	
Surrogate1	0.000	110.0		100.00	110		2.7
TPH (diesel)	0.000	324.0	330.0	300.00	108	110	1.8

SampleID: 6700

instrument: IR-1 Surrogate1 0.000 98.5 97.5 100.00 99 98 1.0 TRPH 0.000 27.1 27.0 114 23.70 114 0.4

(MS-Sample) % Re covery 100 AmountSpiked

(MS-MSD) RPD: 2.100 (MS+MSD)

RPD means Relative Percent Deviation

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	901 Morage Lafayelle	a Road, Suite C ちこノク じ/ e, CA 94549 Fax: (925) 283-6121		la/	т	АТ, рис	14 / 9 <i>4</i>	hr / 481	PAGE		
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All Environmental, Inc.	Client Project ID: #20826; Dinesh	Date Sampled: 06/01/00
3210 Old Tunnel Road, Suite B		Date Received: 06/01/00
Lafayette, CA 94549-4157	Client Contact: Peter McIntyre	Date Extracted: 06/01/00
	Client P.O:	Date Analyzed: 06/01/00

06/08/00

Dear Peter:

Enclosed are:

1). the results of 1 samples from your #20826; Dinesh project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly, Edward Hamilton, Lab Director

All Envir	ronmental, Inc	•	Client Proj	ect ID: #2	0826; Dine	Date Samp	led: 06/01	/00					
3210 Old	l Tunnel Road	, Suite B					Date Recei	ved: 06/01	1/00				
Lafayette	e, CA 94549-4	157	Client Con	tact: Peter	McIntyre		Date Extracted: 06/01/00						
			Client P.O	-			Date Analyzed: 06/01/00						
	e Range (C6- ods 5030, modifie								* & BTEX*				
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate				
39118	AEI-26	s	ND	ND	ND	ND	ND	ND	103				
	• • •												
							<u> </u>						
	g Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5					
means not	detected above orting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005					

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

Edward Hamilton, Lab Director



QC REPORT

Date:	06/01/00	I	Matrix:	Soil			•
	Extraction	n: N/A				·	
		Concen	tration:	mg/kg	%Rec	оvегу	
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 33288				Instru	iment: G	iC-12	
Surrogate1	0.000	95.0	96.0	100.00	95	96	1.0
Xylenes	0.000	319.0	320.0	300.00	106	107	0.3
Ethyl Benzene	0.000	106.0	106.0	100.00	106	106	0.0
Toluene	0.000	103.0	104.0	100.00	103	104	1.0
Benzene	0.000	105.0	106.0	100.00	105	106	0.9
MTBE	0.000	102.0	103.0	100.00	102	103	1.0
GAS	0.000	980.1	953.5	1000.00	98	95	2.8
SampleID: 33288			. `	Instru	iment: G	C-2 B	
Surrogate1	0.000	101.0	101.0	100.00	101	101	0.0
TPH (diesel)	0.000	257.0	275.0	300.00	86	92	6.8

SampleID:	33288					
mogate1	· · · · ·	0.000	1	105.0	-	107

Instrument: IR-1

Sur 107.0 100.00 107 105 1.9 i TRPH 0.000 22.0 21.1 20.80 106 ì 101 4.2

(MS-Sample) % Re covery 100 AmountSpiked

RPD= (MS-MSD) 2.100 (MS+MSD)

RPD means Relative Percent Deviation

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All Environmental, Inc.	Client Project ID: #20826; Hegen Berger	Date Sampled: 08/19/99
901 Moraga Road, Suite C		Date Received: 08/19/99
Lafayette, CA 94549	Client Contact: Peter McIntyre	Date Extracted: 08/19/99
	Client P.O:	Date Analyzed: 08/19/99

08/26/99

Dear Peter:

Enclosed are:

1). the results of 3samples from your #20826; Hegen Berger project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

All Envi	ronmental, Inc		Client Proj	ect ID: #2	0826; Hege	n Berger	Date Sampled: 08/19/99							
901 Mora	aga Road, Suit	æ C					Date Recei	ived: 08/19	/99					
Lafayette	e, CA 94549		Client Con	tact: Peter	McIntyre		Date Extracted: 08/20/99							
			Client P.O	:			Date Analyzed: 08/20/99							
	e Range (C6- ods 5030, modified		-			-		-	* & BTEX*					
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate					
17502	MW-10	w	ND	ND	ND	ND	ND	ND	103					
17503	MW-1 1	w	590,c	720	180	3.2	ND	ND	112					
17504	MW-12	w	ND	9.1	ND	ND	ND	ND	106					
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	g Limit unless se stated: ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5						
means not	t detected above	. S	1:0 mg/kg	0.05	0.005	0.005	0.005	0.005						

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date:

08/20/99-08/21/99

Matrix:

WATER

.

	Concent	ration	(ug/L)		* Reco			
Analyte	Sample			Amount			RPD	
	(#17000)	MS	MSD	Spiked	MS	MSD		
TPH (gas)	0.0	105.5	105.4	100.0	105.5	105.4	0.1	
Benzene	0.0	9.4	9.9	10.0	94.0	99.0	5.2	
Toluene	0.0	9.6	10.1	10.0	96.0	101.0	5.1	
Ethyl Benzene	0.0	9.9	10.4	10.0	99.0	104.0	4.9	
Xylenes	0.0 	30.0	31.3	30.0	100.0	104.3	4.2	
TPH(diesel)	0.0	8104	8063	7500	108	108	0.5	
TRPH (oil & grease)	0	24700	26800	23700	104	113	8.2	

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD \approx ((MS - MSD) / (MS + MSD)) \times 2 \times 100$

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McCAMPBELL ANALYTICAL IN	IC.
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All Environmental, Inc.	Client Project ID: #20826; Hegenberger	Date Sampled: 09/09/99
901 Moraga Road, Suite C		Date Received: 09/10/99
Lafayette, CA 94549	Client Contact: Peter McIntyre	Date Extracted: 09/10/99
	Client P.O:	Date Analyzed: 09/10/99

09/17/99

Dear Peter:

Enclosed are:

1). the results of 2 samples from your #20826; Hegenberger project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly, Edward Hamilton, Lab Director

All Envi	ronmental, Inc	-	Client Proj	ect ID: #2	0826; Hege	Date Sampled: 09/09/99							
901 Mor	aga Road, Suit	te C			_	Date Received: 09/10/99							
Lafayett	e, CA 94549		Client Con	tact: Peter	McIntyre	Date Extracted: 09/13/99							
			Client P.O	:		Date Analyzed: 09/13/99							
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTE EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)													
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate				
19027	MW-8	w	2500,a	380	790	2.8	4.7	8.0	105				
19028	MW-16	w	ND	880	ND	ND	ND	ND	108				
_													
otherwi	g Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5					
means not detected above the reporting limit		S	1.0 mg/kg	1.0 mg/kg 0.05		0.005 0.005		0.005					

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

"The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

Edward Hamilton, Lab Director

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date:

09/12/99-09/13/99

Matrix:

WATER

	Concentration (ug/L)					& Recovery							
Analyte	Sample			Amount			RPD						
· · · · · · · · · · · · · · · · · · ·	(#18261) 	MS	MSD	Spiked 	MS 	MSD							
TPH (gas)	0.0	103.5	101.2	100.0	103.5	101.2							
Benzene	0.0	10.2	9.8	100.0	102.0	98.0	2.2						
Toluene	0.0	10.5	9.7	10.0	102.0	98.0 97.0	4.0 7.9						
Ethyl Benzene	0.0	10.0	9.8	10.0	100.0	98.0	2.0						
Xylenes	0.0 	31.2	29.8	30.0	104.0	99.3	4.6						
TPH(diesel)	0.0	7727	7737	7500	103	103	0.1						
TRPH (oil & grease)	 N/A 	N/A	N/A	N/A	N/A	N/A	N/A						

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = ((MS - MSD) / (MS + MSD)) \times 2 \times 100$

L ENVIRONMENTAL, INC. wironmental Engineering & Construction 901 Moraga Road, Suite C Lafayette, CA 94549 (925) 283-6000 Fax: (925) 283-6121					Alte	3 T/	AT:		H /	24 I	ır /		PA	GE_	1	OF_	ODY)
AEI PROJECT MANAGER REFEV MCINTYNE PROJECT NAME Hegen Devger PROJECT NUMBER 20826 TOTAL # OF CONTAINERS 4 RCVD. GOOD CONDITION/COLD Y N				TPH(g) BITCA MIBP	PPH(d) IPH(d) UE: EVA 50:00, FULLER, EUP UE: EVA 50:00, FULLER, EUP	TEX, MIRE 112, MIRE 112, MIRE	OTAL OIL & GREAT	OLATILE HALOC.	OCS CARDONS	ELLIVOLATITE	DIAL LEU (TTTO)	LIFT 5 METALS	1144, 7480, 7389, 7150			HOLD	OF CONTAINERS
SAMPLE ID	DATE	TIME	MATRIX H.O		. ' 5 2	/ ~ #¥	/``*¥	/-3 <u>¥</u>	/ ***	/	/ • * * <u>*</u>	/~~**		/ . .			۲ #
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GOOD CONDITION APPROPRIATE	IOAS O&G MET/	LS OTHER															
HEAD SPACE ABSENT CONTAINERS					/												
COMMENTS/INSTRUCTIONS MCCampbel/			REPROL	JISHED	BY	Ŀ	na A	IED BY	ter				RECEIVED BY				
ANALYTICAL LABORATORY			Gina 4Bit			BUHL	SIGNATURE				SKGNATURE						
Address			9/1-/21	D NAME IPANY TIME	5-20		PRINTED		ed be		RINTED N COMPAI	NY	COMPANY				