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Environmental & Civil Engineering

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January 31, 2006

Mr. Jerry Wickham
Alameda County Healthcare Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: **Groundwater Monitoring Report**
1st Quarter, 2006
1200 East 12th Street
Oakland, California
AEI Project No. 110583

Dear Mr. Wickham:

Enclosed is one electronic copy of the recently completed 1st Quarter, 2006 Groundwater Monitoring Report prepared for the subject facility. Per your request, this report also presents the findings of the well survey and the utility line and trench pathway study. This report along with the associated laboratory analytical data, depth to water measurements and the recently completed monitoring well survey have also been uploaded to the SWRCB's GeoTracker website.

We are recommending that you consider a case for no further action at this time.

If you have questions or comments, please do not hesitate to contact me or Peter McIntyre at (925) 283-6000.

Sincerely,
AEI Consultants

Richard Bradford
Senior Staff Engineer

January 31, 2005

GROUNDWATER MONITORING REPORT
1st Quarter, 2006

1200 East 12th Street
Oakland, California

AEI Project No. 110583

Prepared For

Mr. Lawrence Y.G. Qiu
Quality Auto Service
1200 East 12th Street
Oakland, CA 94601

Prepared By

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January 31, 2006

Mr. Lawrence Y.G. Qiu
Quality Auto Service
1200 East 12th Street
Oakland, CA 94601

Subject: **Quarterly Groundwater Monitoring Report**
1st Quarter, 2006
1200 East 12th Street
Oakland, California
AEI Project No. 110583

Dear Mr. Qiu:

AEI Consultants (AEI) has prepared this report on behalf of Quality Auto Service to document the activities and results of the ongoing groundwater quality investigation at the property located at 1200 East 12th Street in the City of Oakland, California (Figure 1: Site Location Map). These services were performed at the client's request to comply with a request by Alameda County Healthcare Services Agency (ACHSA) to further investigate a release of petroleum hydrocarbons that occurred at the property. This report presents the findings of the 1st Quarter, 2006 episode of groundwater monitoring conducted on January 18, 2006 and also includes the results of a well survey and utility line and trench pathway study.

Site Description and Background

The subject property (hereafter referred to as the "site" or "property") is located on the northeastern corner of East 12th Street and 12th Avenue. The property is approximately 7,500 square feet in size and is developed with a 9,000 square foot two-story brick building. The building encompasses the entire area of the property, which is currently occupied by Quality Auto Service, an automotive repair facility. The site was previously occupied by a gasoline service station and automotive parts store from 1927 to the mid 1960s and was used by a tire and automotive supplies company, as well as a truck and forklift maintenance facility, from the mid 1960s to the late 1980s.

In 1996, two 500-gallon gasoline underground storage tanks (USTs) were removed from the sidewalk along 12th Avenue. Confirmatory soil samples collected from beneath the USTs indicated elevated levels of total petroleum hydrocarbons as gasoline (TPH-g) at the western end of Tank 2. Further over-excavation was performed in this area and two soil samples were collected for laboratory analysis. TPH-g was detected up to 210 mg/kg.

In September 1999, AEI performed a subsurface investigation at the site in accordance with the requirements of the ACHSA. Soil and groundwater samples were collected from two shallow

soil borings shown on Figures 2 and 3. No significant concentrations of petroleum hydrocarbons were detected in the analyzed soil samples; however, TPH-g and benzene were detected in the groundwater at concentrations up to 6,700 µg/L and 470 µg/L, respectively. Please refer to Table 2 and Table 3 for the soil and groundwater analytical results from this investigation. Based on the groundwater analytical results, Mr. Barney Chan of the ACHSA requested the installation of one groundwater monitoring well to evaluate the groundwater quality and concentrations of BTEX in the dissolved hydrocarbon plume over a period of time. AEI advanced a single soil boring (MW-1) and converted to a monitoring well on May 13, 2004. The results of this investigation are outlined in the *Monitoring Well Installation and Sampling Report*, dated June 9, 2004, prepared by AEI Consultants. Soil sample MW-1 @ 10' collected during the monitoring well installation contained TPH-g, toluene, and total xylenes above laboratory method detection limits at concentrations of 31 mg/kg, 0.024 mg/kg, and 0.021 mg/kg, respectively.

On August 20, 2004, AEI conducted the second quarterly groundwater monitoring event at the subject property. AEI measured water levels and sampled groundwater from monitoring well MW-1. The well location is shown in Figure 2. Groundwater samples were submitted for chemical analyses for TPH-g by EPA Method 8015Cm, and BTEX / MTBE per EPA Method SW8021B. TPH-g was detected in the groundwater samples from MW-1 at a concentration of 540 µg/L. Benzene, toluene, and total xylenes were detected at concentrations of 6.7 µg/L, 1.5 µg/L, and 1.9 µg/L, respectively. Ethyl-benzene was not detected above the laboratory method detection limit of 0.5 µg/L. Historic results of the groundwater analysis are presented in Table 2.

On October 21, 2005, AEI conducted a groundwater monitoring event at the subject property. TPH-g was detected in the groundwater sample from MW-1 at a concentration of 87 µg/L. Benzene was not detected above the laboratory method detection limit of 0.5 µg/L. Low concentrations of ethyl-benzene (1.2 µg/L) and xylenes (1.2 µg/L) were also detected in well MW-1. No MTBE or Toluene was detected above laboratory method detection limits.

The following report summarizes the findings of the 1st Quarter, 2006 episode of groundwater monitoring conducted on January 18, 2006.

Summary of Activities

On January 18, 2006, AEI measured water levels and sampled groundwater from monitoring well MW-1. The well location is shown on Figure 2. First, the well cap was removed and the monitoring well was allowed to equilibrate with atmospheric pressure. The depth to groundwater (from the top of the well casing) was measured with an electric water level indicator. The well was then purged using a battery-powered submersible pump. Approximately three well volumes of water were removed. Temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured. Visual estimates of turbidity were noted during the purging of the well.

Once the groundwater parameters stabilized, and following recovery of the water level, groundwater samples were collected from the well. Sample water was collected from a new disposable polyethylene bailer and placed into three (3) 40 milliliter volatile organic analysis (VOAs) vials and one (1) 1-Liter amber bottle. The VOAs were subsequently capped so that neither head space nor air bubbles were visible within the vials. Samples were packed in a pre-chilled cooler of ice. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (Department of Health Services Certification #1644).

The groundwater samples were submitted for chemical analyses for TPH-g and TPH-d by EPA Method 8015Cm, BTEX & MTBE per EPA Method SW8021B, and five (5) fuel oxygenates plus two (2) lead scavengers, Ethylene dibromide (EDB) and Ethylene dichloride (EDC), by EPA Method 8260B.

Field Results

No sheen or free product was encountered during this monitoring episode, although a slight hydrocarbon odor was noted during well purging and sampling activities. The depth to groundwater at the time of this monitoring event was 10.56 feet below ground surface (bgs), approximately 0.86 feet higher than during the previous monitoring event. Depth to groundwater data is summarized in Table 1. Please refer to Appendix A for the groundwater monitoring well field sampling forms.

Groundwater Quality

TPH-g was detected in the groundwater sample from MW-1 at a concentration of 300 µg/L, which is higher than the 87 µg/L detected in the previous monitoring event, but significantly lower than the historic high of 540 µg/L detected during the August 20, 2004 monitoring episode. TPH-d was detected at a concentration of 200 µg/L with a qualifier that indicates unmodified or weakly modified gasoline range hydrocarbons are significant in the sample. Benzene was detected at a concentration of 2.9 µg/L by EPA Method SW8021B and 3.5 µg/L by EPA Method SW8260B. Toluene, ethylbenzene, and xylenes were not detected above the laboratory method detection limit by EPA Method SW8260B. Low concentrations of toluene (0.67 µg/L), ethylbenzene (0.67 µg/L), and xylenes (0.66 µg/L) were also detected in well MW-1 at concentrations comparable to previous monitoring episodes. No MTBE was detected above laboratory method detection limit by EPA Method SW8021B. Low concentration of MTBE (1.2 µg/L) was detected by EPA Method SW8260B. No tert-Amyl methyl ether (TAME), t-Butyl alcohol (TBA), diisopropyl ether (DIPE), Ethyl tert-butyl ether (ETBE), EDB, or EDC were detected above the laboratory method detection limit.

A summary of groundwater analytical data is presented in Table 2. Field monitoring data and sampling forms are presented in Appendix A. Laboratory analytical results and chain of custody documents are included in Appendix B. Groundwater sample analytical data is also presented on Figure 3.

Well Survey Results

In a letter dated July 14, 2005, the Alameda County Health Care Services Agency (ACHCSA) requested the location of all wells within a 2,000 foot radius of the subject site, including monitoring and production wells, whether active, inactive, on standby, decommissioned, abandoned, or used for dewatering, drainage, or cathodic protection. AEI obtained well information and completion reports from both the Alameda County Public Works Agency (ACPWA) and the State of California Department of Water Resources (DWR). The following report section details the results of the well survey of wells identified within a 2,000 foot radius of the subject property.

On October 26, 2005 AEI submitted a well completion report release to the ACPWA. AEI received the requested information on November 22, 2005. On December 22, 2005 an AEI representative visited the DWR in Sacramento to obtain the necessary well information, since the DWR no longer provides this service.

A well search listing and legend, a United States Geologic Survey (USGS) map and template, and a township, range, and section information documents were obtained from the ACPWA. According to the ACPWA, the provided information is reliable, but not all of the information is guaranteed to be accurate. Wells installed prior to the establishment of records keeping or wells installed by private entities not reported to the DWR or the ACPWA are not included in this search.

The site was located on the USGS map and a scaled 2,000 foot radius circle was drawn to demark the well search radius. A site vicinity map was also generated using the TOPO program and is included as Figure 5: Well Survey Search Radius.

The well survey area runs approximately from the northeast at East 19th Street to the southwest through Brooklyn Basin near McCulloch Drive on Coast Guard Island and from just northwest of 7th Avenue to southeast midway between 17th and 18th Avenues. Although partially outside the 2,000 foot survey radius, the area up to 18th Avenue has also been included in the well search radius. The subject property and the majority of the wells identified were located in the 2S township 4W range in sections 1A through 1H.

A total of twenty-four monitoring wells, including the existing onsite well MW-1, were identified within 2,000 feet of the subject property. No water production wells, including domestic, irrigation, municipal, or industrial were identified within the search area. A summary of the identified wells and the well use type is provided in Table 1 below. A review of the California State DWR well survey information identified additional wells that were not provided in the ACPWA well search information. However, these wells were located far outside the 2,000 foot search radius and were probably not included in the ACPWA well search scope. With noted expectations, the majority of the ACPWA well search information was identical to what the California State DWR had on record. The California State DWR search included specific details about the monitoring wells as well as borings logs and useful site location maps.

Table 1: Summary of Identified Wells & Use Type

Well Symbol	Well Use Type / Description	Number of Wells
MON	Monitoring Well (including one existing onsite well)	24
TES	Test Well	3
DES	Destroyed Well (through permit)	2

Table 2: Summary of Wells Locations[1]

Well Figure Number	Well Number	Township / Range	Section	Address / Location	Total Depth	Diameter	Well Use Type
1	01	2S/4W	1A 1	1201 E. 14th Ave.	17	2	MON
2	- - -	2S/4W	1A 2	1235 E. 14th St.	35	2	MON
3	- - -	2S/4W	1A 3	1235 E. 14th St.	37	2	MON
4	- - -	2S/4W	1A 4	1235 E. 14th St.	27	2	MON
5	MW-1	2S/4W	1B 1	1199 E. 12th St.	25	2	MON
6	MW-2	2S/4W	1B 2	1199 E. 12th St.	25	2	MON
7	MW-3	2S/4W	1B 3	1199 E. 12th St.	25	2	MON
8	MW-1	2S/4W	1B 4	802 E. 12th St.	23	-	MON
9	- - -	2S/4W	1B 5	1199 E. 12th St.	30	2	MON
10	- - -	2S/4W	1B 6	1111 E. 12th St.	36	2	MON
11	- - -	2S/4W	1B 7	1111 E. 12th St.	28	2	MON
12	- - -	2S/4W	1B 8	1111 E. 12th St.	28	2	MON
13	- - -	2S/4W	1C 4	630 E. 10th St.	25	2	MON
14	- - -	2S/4W	1H 1	E. 12th St. & 14th Ave.	2	2	TES
15	- - -	2S/4W	1H 2	E. 12th St. & 14th Ave.	30	2	TES
16	- - -	2S/4W	1H 3	E. 12th St. & 14th Ave.	25	2	TES
17	MW-1	2S/4W	1H 4	1401 E. 14th St.	25	2	MON
18	MW-2	2S/4W	1H 5	1401 E. 14th St.	25	2	MON
19	MW-3	2S/4W	1H 6	1401 E. 14th St.	25	2	MON
20	MW-1	2S/4W	1H 7	1400 E. 14th St.	26	2	MON
21	MW-1	2S/4W	1H 8	1518 E. 12th St.	30	2	MON
22	MW-2	2S/4W	1H 9	1518 E. 12th St.	32	2	MON
23	MW-3	2S/4W	1H 10	1518 E. 12th St.	30	2	MON
24	- - -	2S/4W	1H 11	1201 14th Ave.	17	4	MON
25	- - -	2S/4W	1H 12	1201 14th Ave.	17	4	MON
26	- - -	2S/4W	1H 13	1353 E. 14th St.	15	2	MON
27	**MW-1**	**2S/4W**	- - -	**1200 E. 12th St.**	- - -	- - -	**MON**
28	- - -	2S/4W	- - -	E. 14th St. & 10th St.	- - -	- - -	DES
29	- - -	2S/4W	- - -	1266 E. 14th St.	- - -	- - -	DES

Existing onsite monitoring well MW-1 in bold print - - - data not available or was not included in the DWR well search

[1] Data obtained from the ACPWA and the California State DWR

Utility Pathway Study Results

AEI performed a subsurface utilities pathway study between November 2005 and January 2006. The purpose of this study was to identify utility lines and trenches in the vicinity of the subject property and evaluate the potential for these lines and trenches to act as preferential pathways for contaminant migration. AEI requesting utility maps in writing from the following utility companies: Pacific Gas & Electric Company (PG&E), Comcast, Kinder Morgan Energy Partners, East Bay Municipal Utility District (EBMUD), City of Oakland, MCI, AT&T, and SBC Communications. Please refer to Figure 4: Subsurface Utilities Survey for the locations of identified utility lines and trenches.

Kinder Morgan, Comcast, and MCI responded as not having any utilities in the study area. PG&E did not respond to AEI's request for natural gas and electrical utility line maps. Per a conversation with Mr. Lawrence Qui, he recalls that PG&E removed natural gas lines in front of the property along 12th Avenue several years ago. During a site walk, AEI observed a yellow (natural gas) USA marking for a construction project along 12th Avenue. The yellow marking stated that there were no PG&E utilities located in this area. What appeared to be the location of a narrow trench excavation was observed on either side of the yellow markings. This was probably the former location of the PG&E natural gas lines that Mr. Qui alluded to.

On December 20, 2005, AEI received a response from EBMU that included EBMUD map #1494B474 of the water utilities located in the area. Five (5) different EBMUD water lines were identified at the intersection of East 12th Street and 12th Avenue. The water lines varied in size from four (4) inches to thirty (30) inches and in age from 50 to 96 years old. The water utility line closest to the subject property is a 20-inch diameter cast iron pipe installed in 1916. This pipe runs down the middle of 12th Avenue. EBMUD could not locate an as-built drawing for this old water main. The exact depth of this utility is unknown, but according to EBMUD it is probably buried at 4 feet bgs.

An AT&T communications line runs along East 12th Street about sixteen (16) feet from the sidewalk. The City of Oakland underground electrical utility runs underneath the sidewalk along the southern end of the property parallel to East 12th Street. An SBC communications line runs along East 12th Street and then turns north up 12th Avenue offset about ten (10) feet from the sidewalk. The exact depths of these utilities are all unknown.

Based on the proximity to the impacted area, the only subsurface utility lines that have the potential to act as preferential pathways are the City of Oakland electrical utility and the SBC communications lines. Typical installation depths for these utilities range from approximately three (3) to four (4) feet bgs. The depth to groundwater at the subject site typically ranges from 10.50 to 11.50 feet bgs. Based on the typical utility line installation depths and the known depth to groundwater, there exists little chance for the subject utility lines to act as preferential pathways for offsite groundwater contaminant migration.

Conclusions

Relatively low levels of TPH-g and TPH-d were detected in the groundwater at the site. Low concentrations of BTEX and MTBE were detected in the groundwater at the site. No fuel oxygenates (TAME, TBA, DIPE, ETBE) or lead scavengers (EDB and EDC) were detected in the groundwater at the site. Concentrations of petroleum hydrocarbons do not appear to be increasing and are well below the historic highs during this episode. Concentrations of TPH-g, TPH-d, BTEX, MTBE, TAME, TBA, ETBE, EDB, and EDC detected in the groundwater at the site are well below the Table B Environmental Screening Levels (ESLs) for shallow soils (<3 meter bgs) for groundwater not a potential source of drinking water[2].

The ACHSA is not requiring the installation of additional groundwater monitoring wells at this time. Based on the most recent groundwater analytical data, the relatively low concentration of residual petroleum hydrocarbons, absence of drinking supply wells within 2,000 feet, the commercial nature of the subject property and surrounding properties, and a limited potential route for human exposure to the subject contaminants, AEI recommends that a case for no further action be considered at this site.

Previous Reports

1. *Phase II Subsurface Investigation,* October 1, 1999, prepared by AEI Consultants
2. *Monitoring Well Installation and Sampling Report,* June 9, 2004, prepared by AEI Consultants
3. *Groundwater Monitoring Report, 3rd Quarter, 2004*, October 8, 2004, prepared by AEI Consultants
4. *Groundwater Monitoring Report, 3rd Quarter 2005*, November 8, 2005, prepared by AEI Consultants

Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants, 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.

[2] *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (Interim Final – February 2005), San Francisco Bay Regional Water Quality Control Board.

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.

If you have any questions regarding our investigation, please do not hesitate to contact either Peter McIntyre or myself at (925) 283-6000.

Sincerely,
AEI Consultants

Richard Bradford
Senior Staff Engineer

Peter McIntyre, P.G.
Project Manager

Figures

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Analyticals
Figure 4	Subsurface Utilities Survey
Figure 5	Well Survey Search Radius

Tables

Table 1	Groundwater Elevation Data
Table 2	Groundwater Sample Analytical Data

Appendix A	Monitoring Well Field Sampling Forms
Appendix B	Laboratory Analytical and Chain of Custody Documentation
Appendix C	Site Survey (Morrow Surveying)

Distribution:

Mr. Lawrence Y.G. Qiu
Quality Auto Service
1200 East 12th Street
Oakland, CA 94601

Mr. Jerry Wickham
Alameda County Healthcare Services Agency
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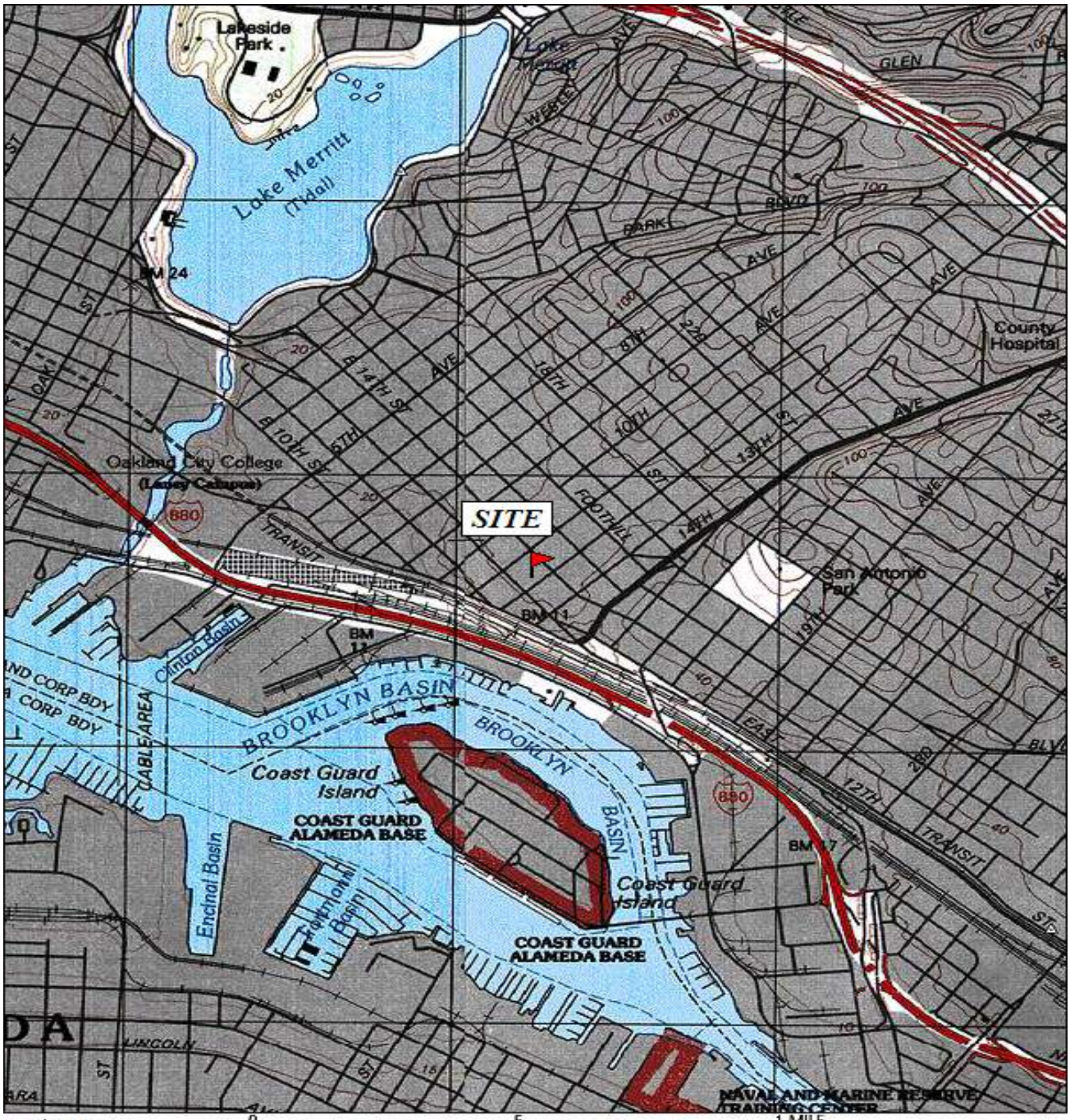
FIGURES



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2500 CAMINO DIABLO, SUITE #200, WALNUT CREEK, CA

SITE LOCATION MAP

1200 EAST 12TH STREET OAKLAND, CALIFORNIA	**FIGURE 1** PROJECT NO. 110583

ASSUMED
GROUNDWATER
FLOW DIRECTION

12TH AVENUE

BUILDING

DRIVE

QUALITY
AUTO
SERVICE

SHED

QUALITY
AUTO
SERVICE

PARKING AREA

SHED

DRIVE

APPROXIMATE LOCATION
OF FORMER USTs

APPROXIMATE LOCATION OF
FORMER DISPENSER ISLAND

DRIVE

SB-1

COLUMN

MW-1

DRIVE

DRIVE

SB-2

EAST 12TH STREET

LEGEND

- Existing Monitoring Well Location
- Soil Boring Location(s) (AEI - Sept. 18, 1999)

SCALE: 1" = 30'

0' 5' 15' 30'

N

AEI CONSULTANTS

2500 CAMINO DIABLO, #200, WALNUT CREEK, CA

SITE PLAN

1200 EAST 12TH STREET
OAKLAND, CALIFORNIA

FIGURE 2

AEI PROJECT NO. 110583

ASSUMED
GROUNDWATER
FLOW DIRECTION

12TH AVENUE

BUILDING

DRIVE

QUALITY
AUTO
SERVICE

SHED

QUALITY
AUTO
SERVICE

PARKING AREA

SHED

APPROXIMATE LOCATION
OF FORMER USTs

APPROXIMATE LOCATION OF
FORMER DISPENSER ISLAND

COLUMN

SB-1

MW-1

SB-2

DRIVE

DRIVE

DRIVE

MW-1	(ug/L)
TPH-g	300
TPH-d	200
B	3.5
T	0.67
E	0.67
X	0.66
MTBE	1.2
TAME	ND<0.5
TBA	ND<5.0
DIPE	ND<0.5
ETBE	ND<0.5
EDB	ND<0.5
1,2 DCA	ND<0.5

EAST 12TH STREET

LEGEND

- Existing Monitoring Well Location
- Soil Boring Location(s) (AEI - Sept. 18, 1999)

MW-1 (ug/L = micrograms per Liter)

TPH-g = Total Petroleum Hydrocarbons as gasoline
TPH-d = Total Petroleum Hydrocarbons as diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary-butyl ether
TAME = tert-Amyl methyl ether
TBA = t-Butyl alcohol
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
EDB = ethylene dibromide
1,2 DCA = Dichloroethane

SCALE: 1" = 30'

0' 5' 15' 30'

N

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2500 CAMINO DIABLO, #200, WALNUT CREEK, CA

GROUNDWATER ANALYTICALS

1200 EAST 12TH STREET
OAKLAND, CALIFORNIA

FIGURE 3

AEI PROJECT NO. 110583

ASSUMED
GROUNDWATER
FLOW DIRECTION

12TH AVENUE

DRIVE

QUALITY
AUTO
SERVICE

SHED

QUALITY
AUTO
SERVICE

DRIVE

PARKING AREA

BUILDING

APPROXIMATE LOCATION
OF FORMER USTs

APPROXIMATE LOCATION OF
FORMER DISPENSER ISLAND

DRIVE

SHED

SB-1

COLUMN

MW-1

DRIVE

DRIVE

SB-2

4C31

EAST 12TH STREET

30SMM50

8C31

8CM47

20C16

LEGEND

- Existing Monitoring Well Location
- Soil Boring Location(s) (AEI - Sept. 18, 1999)

SCALE: 1" = 30'

0' 5' 15' 30'

N

UTILITIES LEGEND

- City of Oakland (Electrical)
- AT&T (Communications)
- SBC (Communications)
- Fomer PG&E (Natural Gas) Trench
- East Bay MUD (Water Mains)

4C31 = 4" Cast Iron Pipe Installed 1931
8C31 = 4" Cast Iron Pipe Installed 1931
8CM47 = 8" Cast Iron Pipe Mortar Lined Installed 1947
30SMM = 30" Steel Pipe Mortar Lined and Coated Installed 1950
20C16 = 20" Cast Iron Pipe Installed 1916

*All utility locations are approximate based on the information provided by the respective utility companies

**Survey does not included all possible utilities in the vicinity, as some companies did not respond to AEI's written request

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2500 CAMINO DIABLO, #200, WALNUT CREEK, CA

SUBSRUFACE UTILITIES SURVEY

1200 EAST 12TH STREET
OAKLAND, CALIFORNIA

FIGURE 4

AEI PROJECT NO. 110583

TABLES

TABLE 1: GROUNDWATER ELEVATION DATA

Quality Auto Service
1200 East 12th Street, Oakland, California

Well ID	Screen Interval (ft bgs)	Date	Top of Casing[1] Elevation (ft amsl)	Depth to Water (ft toc)	Groundwater Elevation (ft amsl)	Change from previous episode (ft)
MW-1	10-20	05/21/04	36.28	11.51	24.77	-
		08/20/04	36.28	11.54	24.74	-0.03
		10/21/05	36.28	11.42	24.86	0.12
		01/18/06	**36.28**	**10.56**	**25.72**	**0.86**

NOTES:

1) Top of casing elevation surveyed by Morrow Surveying on January 10, 2006

ft = feet

ft bgs = feet below ground surface

ft toc = feet from the top of the well casing

ft amsl = feet above mean sea level

TABLE 2: GROUNDWATER SAMPLE ANALTICAL DATA

Quality Auto Serivce

1200 East 12th Street, Oakland, California

Well ID	Date Sampled	TPH-d (ug/L)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzne (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (ug/L)	EDC (ug/L)
		EPA Method SW8021B/8015Cm							*EPA Method SW8260B*										
SB-1 W	09/18/99	-	6,700	ND	26	6.1	22	130	-	-	-	-	-	-	-	-	-	-	-
SB-2 W	09/18/99	-	3,900	ND	470	9.5	160	57	-	-	-	-	-	-	-	-	-	-	-
MW - 1	05/21/04	-	ND<50	ND<5.0	3.7	1.7	0.9	2.3	-	-	-	-	-	-	-	-	-	-	-
	08/20/04	-	540	ND<5.0	6.7	1.5	ND<0.5	1.9	-	-	-	-	-	-	-	-	-	-	-
	10/21/05	-	87	ND<5.0	ND<0.5	ND<0.5	1.2	1.2	-	-	-	-	-	-	-	-	-	-	-
	01/18/06	**200**	**300**	**ND<5.0**	**2.9**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1.2**	**3.5**	**0.67**	**0.67**	**0.66**	**ND<0.5**	**ND<5.0**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**
MDL			*50*	*5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*5*	*0.5*	*0.5*	*0.5*	*0.5*

NOTES:

Non-detectable concentrations are indicated with a les than sign (<) followed by the laboratory reporting limit

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

MTBE = methyl tertiary-butyl ether

TAME = tert-Amyl methyl ether

TBA = t-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Ethyl tert-butyl ether

EDB = Ethylene dibromide (1,2 Dibromoethane)

EDC = Ethylene dichloride (1,2 Dichloroethane)

µg/L = micrograms per liter or parts per billion (ppb)

- = sample not analyzed

MRL = method reporting limit

MDL = method detection limit

*Please refer to Appendix B: Laboratory Analytical Data for more detailed lab information, including dilution factors and reporting limits

APPENDIX A

MONITORING WELL FIELD SAMPLING FORMS

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Quality Auto Service	Date of Sampling:	1/18/2006
Job Number:	8279	Name of Sampler:	Adrian Nieto
Project Address:	1200 East 12th Street		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	36.28		
Depth of Well	20.00		
Depth to Water (from top of casing)	10.56		
Water Elevation (feet above msl)	25.72		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**4.5**		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water	Cleared very fast		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: (3) 40-mL VOAs and (1) 1-liter amber bottle

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.29	6.92	627	0.33	7.7	
	4	19.61	6.91	640	0.17	-6.5	
	6	19.76	6.92	637	0.12	-13.9	
	8	19.81	6.93	669	0.09	-15.8	

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

Slight hydrocarbon odor noted, water initially almost clear

APPENDIX B

LABORATORY ANALYTICAL AND CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.

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

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #110583; Quality Auto Service	Date Sampled: 01/18/06
		Date Received: 01/18/06
	Client Contact: Ricky Bradford	Date Reported: 01/24/06
	Client P.O.:	Date Completed: 01/26/06

WorkOrder: 0601239

January 26, 2006

Dear Ricky:

Enclosed are:

1). the results of **1** analyzed sample from your **#110583; Quality Auto Service project,**

2). a QC report for the above sample

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.

Best regards,

Angela Rydelius, Lab Manager

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No

Report To: Ricky Bradford	Bill To: same P.O# 100191
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultants.com
Tele: (925) 283-6000 ext. 148	Fax: (925) 944-2895
Project #: 110583	Project Name: Quality Auto Service
Project Location: 1200 E. 12th Street, Oakland, CA	
Sampler Signature: Adrian Miller	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: TPH-g, BTEX, MTBE, EDB, EDC, and Fuel Oxygenates by EPA Method 8260B	Comments
MW-1		1/19/06	12:20	4	VIL	X					X	X				X														X	

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ____
PRESERVATION ✓ (VOAS | O&G | METALS | OTHER)

Relinquished By:	Date:	Time:	Received By:
Adrian Miller	1/19/06	1:30	Mel Vall
Relinquished By:	Date:	Time:	Received By: Kathleen Owen
Relinquished By:	Date:	Time:	Received By:

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____
PRESERVATION ✓ (VOAS | O&G | METALS | OTHER)
APPROPRIATE CONTAINERS ✓
PERSERVED IN LAB ____

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0601239 **ClientID: AEL** **EDF: YES**

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: #110583; Quality Auto Service
PO:

Bill to:
Joanne Bryant
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Requested TAT: 5 days
Date Received: 01/18/2006
Date Printed: 01/18/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0601239-001	MW-1	Water	1/18/06 12:20:00	☐	A	B	A									

Test Legend:

1	G-MBTEX_W	2	MBTEXOXY-8260B_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Kathleen Owen

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #110583; Quality Auto Service	Date Sampled: 01/18/06
		Date Received: 01/18/06
	Client Contact: Ricky Bradford	Date Extracted: 01/19/06
	Client P.O.:	Date Analyzed: 01/19/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0601239

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	300,a	ND	2.9	ND	ND	ND	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #110583; Quality Auto Service	Date Sampled: 01/18/06
		Date Received: 01/18/06
	Client Contact: Ricky Bradford	Date Extracted: 01/19/06
	Client P.O.:	Date Analyzed: 01/19/06

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0601239

Lab ID	0601239-001B				Reporting Limit for DF =1	
Client ID	MW-1					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
Benzene	3.5				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	5.0
1,2-Dibromoethane (EDB)	ND				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND				NA	0.5
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethylbenzene	0.67				NA	0.5
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	1.2				NA	0.5
Toluene	0.67				NA	0.5
Xylenes	0.66				NA	0.5
Surrogate Recoveries (%)						
%SS1:	104					
%SS2:	91					
%SS3:	95					
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #110583; Quality Auto Service	Date Sampled: 01/18/06
		Date Received: 01/18/06
	Client Contact: Ricky Bradford	Date Extracted: 01/18/06
	Client P.O.:	Date Analyzed: 01/18/06

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0601239

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0601239-001A	MW-1	W	200,d	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+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 diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644 _____Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0601239

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 19903 Spiked Sample ID 0601249-007C

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	107	103	3.76	109	110	1.75	70 - 130	70 - 130
MTBE	ND	10	91.9	92.2	0.339	94.6	91.3	3.59	70 - 130	70 - 130
Benzene	ND	10	97.6	91.1	6.87	94.7	90.9	4.02	70 - 130	70 - 130
Toluene	ND	10	97	90.7	6.77	94.1	89.9	4.53	70 - 130	70 - 130
Ethylbenzene	ND	10	98.4	92.5	6.25	95.5	91.9	3.82	70 - 130	70 - 130
Xylenes	ND	30	99.3	94.3	5.16	99	94.7	4.48	70 - 130	70 - 130
%SS:	104	10	103	99	4.11	100	99	1.70	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19903 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0601239-001A	1/18/06 12:20 PM	1/19/06	1/19/06 7:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0601239

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 19904	Spiked Sample ID 0601240-103B

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME	ND	10	101	115	13.1	106	104	1.24	70 - 130	70 - 130
Benzene	ND	10	115	120	3.99	118	119	0.943	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	99.7	116	15.2	89.9	96.1	6.57	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	116	129	10.0	115	114	0.619	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	100	116	14.2	94.4	93.5	1.03	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	94.5	105	10.9	86.9	86.6	0.336	70 - 130	70 - 130
Toluene	ND	10	107	118	9.71	109	107	2.04	70 - 130	70 - 130
%SS1:	103	10	100	102	1.78	100	101	0.440	70 - 130	70 - 130
%SS2:	100	10	95	97	2.94	98	95	2.95	70 - 130	70 - 130
%SS3:	91	10	100	104	4.43	106	106	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19904 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0601239-001B	1/18/06 12:20 PM	1/19/06	1/19/06 3:04 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0601239

EPA Method: SW8015C Extraction: SW3510C BatchID: 19886 Spiked Sample ID N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	114	83.2	31.3	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	126	97	26.7	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19886 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0601239-001A	1/18/06 12:20 PM	1/18/06	1/18/06 3:11 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

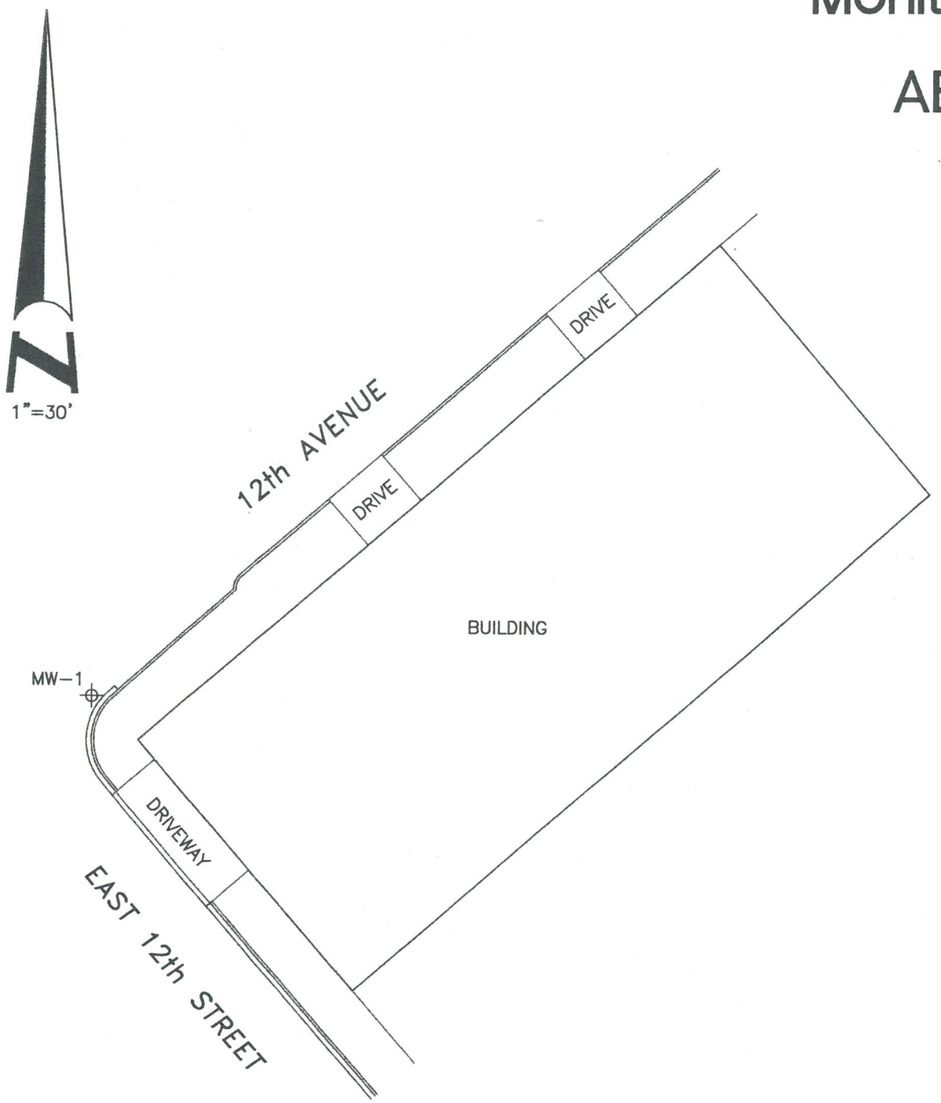
APPENDIX C

SITE SURVEY

Monitoring Well Exhibit

Prepared For:

AEI Consultants



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV (PVC)	ELEV (BOX)
MW-1	2114828.6	6056344.2	38.9557499	-123.7771640	36.28	35.88

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE DIAB AND FARB.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

0 15 30 60 90

SCALE IN FEET

Quality Automotive Site
1200 East 12th Street
Oakland
Alameda County
California

Morrow Surveying
LAND SURVEYORS

1450 Harbor Blvd. Ste. D
West Sacramento
California 95691
(916) 372-8124
curt@morrowsurveying.com

Date: 1-10-06
Scale: 1" = 30'
Sheet 1 of 1
Revised:
Field Book: MW-22
Dwg. No. 0116-023 CT