

RECEIVED

1:38 pm, Jul 11, 2007

Alameda County
Environmental Health

July 10, 2007

**GROUNDWATER MONITORING REPORT
First Semi-Annual, 2007**

2221 Union Street
Oakland, California

Project No. 116355

Prepared For

Mr. Alex Aguilar
J&A Truck Repair
2221 Union Street
Oakland, California 94607

Prepared By

AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597
(925) 283-6000

AEI

July 10, 2007

Mr. Alex Aguilar
J&A Truck Repair
2221 Union Street
Oakland, California 94601

**Subject: Quarterly Groundwater Monitoring Report
First Semi-Annual Event, 2007**
2221 Union Street
Oakland, California
Project No. 116355

Dear Mr. Aguilar:

AEI Consultants (AEI) has prepared this report on behalf of J&A Truck Repair, to document the ongoing groundwater investigation at the above referenced site (Figure 1, Site Location Map). The groundwater investigation is being performed in accordance with the requirements of Alameda County Environmental Health Services (ACEHS). The purpose of these activities is to monitor groundwater quality in the vicinity of the previous release of HVOCs at the site. This report presents the findings of the ninth groundwater monitoring and sampling event conducted on May 8, 2007.

I Background

The subject property (hereinafter referred to as the "site" or "property") is located at 2221 Union Street in Oakland, California. The property is bordered by Union Street to the east and Poplar Street to the west, between West Grand Avenue and 25th Street. The site is approximately 0.84 acres in size improved with two single-story buildings, buildings A and B (Figure 1). Building A (approximately 10,576 square feet) is located at the southern end of the property and Building B (approximately 1,750 square feet) is located at the northeastern corner of the property. Building A was constructed in 1963 on an original foundation. Historical records indicate the structure referred to as Building B was constructed in 1948. In addition to the buildings, the property is improved with concrete-paved parking areas and associated unpaved areas.

According to AEI's *Phase I Environmental Site Assessment* (June 21, 2005), the property was vacant land during the 1910s and by the early 1930s was developed with a building at the northeastern corner of the site. California Laundry Equipment (CLE) occupied the site from 1939 to 1990. During their occupancy in the 1930s and the 1940s, two additional buildings (in the location of Building A and Building B) were constructed. In the early 1960s, Fred E. Glatt and David Glatt purchased the property, which continued to be occupied by CLE. During that time, the single-story corrugated building at the northeastern corner of the property was

demolished. Building A, an office/plant building was constructed on an old foundation at the southern end of the property in 1963 after a fire destroyed the previous structure.

On June 22, 1999, Aqua Science Engineers, Inc. (ASE) installed one soil boring (BH-A) using a hand auger through the bottom of a drain. Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and diesel (TPH-d) by EPA Method 8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8020, oil and grease by Standard Method 5520E, halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and the RCRA five metals by EPA Method 6010. Tetrachloroethylene, also known as perchloroethylene (PCE), at a concentration of 390 mg/kg was the only HVOC detected above action levels. Soil sample BH-A at 3' was placed on hold at the laboratory but was not subsequently analyzed because it was "saturated" and had the same "appearance and odor" as soil sample BH-A at 1'.

On July 12, 1999, ASE advanced six soil borings (labeled BH-B through BH-G) to assess the soil and groundwater quality around the former drain in the outdoor yard and near a fissure in the concrete inside Building A, an area where methyl ethyl ketone (MEK) was used as a cleaning solvent. Six soil samples were collected at two and half feet below ground surface (bgs) and analyzed for HVOCs by EPA Method 8010. Elevated levels of HVOCs were detected in two (BH-B and BH-C) of the six soil borings. Groundwater grab samples were also collected from each soil boring. All but one of the groundwater samples collected from the six soil borings and one from the bottom of the former drain contained elevated concentrations of HVOCs.

On August 2, 1999, three monitoring wells (MW-1 through MW-3) were installed by ASE. Monitoring well construction details are included in Table 1. The soil samples collected from soil boring MW-1 and MW-2 contained low concentrations of HVOCs. The soil sample collected from boring MW-3 did not contain HVOCs above laboratory method detection limits, indicating that the soil contamination was confined to a small area. All three groundwater samples contained elevated concentrations of HVOCs. Quarterly groundwater monitoring at the subject property commenced in September 1999.

On October 27, 1999, a fourth monitoring well (MW-4) was installed. The soil sample collected from MW-4 contained no detectable concentrations of HVOCs. However, the groundwater sample collected from MW-4 contained elevated concentrations of HVOCs.

In November 1999, approximately 24 cubic yards of impacted soil was excavated from around the outdoor drain. Four confirmatory soil samples were collected from the bottom of the drain and one composite sample was collected from the stockpiled soil. None of the four soil samples collected from the bottom of the excavation pit contained detectable concentrations of HVOCs. However, the composite sample from the stockpiled soil contained elevated levels of HVOCs. The excavation pit was backfilled in November 1999. After characterization, approximately 36.90 tons of stockpiled soil from the excavation was hauled for disposal in December 1999.

In August 2002, ASE directed the drilling of ten additional soil borings (labeled BH-H through BH-Q) to delineate the vertical and lateral extent of contamination. Soil and groundwater samples were collected from the ten soil borings, and a groundwater sample was collected from the four monitoring wells. The only concentrations of HVOCs detected in the soil samples from four of the ten borings were relatively low cis-1, 2-dichloroethylene (DCE), trichloroethylene (TCE), and PCE. All of the concentrations detected were below San Francisco Bay Regional Water Quality Control Board's (RWQCB) Risk-Based Screening Levels¹ (RBSLs). HVOCs were detected in all the groundwater samples except BH-M. The highest concentrations of HVOCs detected were on the west side of the subject property. The groundwater data also suggested that some of the groundwater contamination might possibly be from an off-site source. The groundwater sample collected from BH-O contained the only PCE concentration exceeding the RBSL for sites where groundwater is not a current or potential source of drinking water.

A letter from ACEH (dated April 29, 2005) indicated that additional information and further investigation is necessary to achieve case closure. In this letter, ACEH indicated that no active remediation is required to address the HVOCs in soil and groundwater at the subject property. ACEH requested that groundwater monitoring continue at minimum on a semi-annual schedule. ACEH also requested a proposal to investigate contamination near soil boring BH-O. ACEH requested proposed methods to clarify the significance of the data and determine the extent of HVOC contamination in the area of the subject property.

In November 2005, AEI prepared a work plan for a soil and groundwater investigation. The work plan was approved with minimal technical comments in a letter from ACEH dated December 30, 2006. AEI performed the Soil and Groundwater Investigation on March 16, 2006. Four (4) soil borings (labeled SB-1 through SB-4) were advanced 30 feet bgs. The boring locations were chosen to further investigate the lateral and vertical extent of contamination present near previous boring BH-O. Groundwater samples were collected at three intervals (approximately 6.5 to 10-foot bgs, 16.5 to 20-foot bgs, and 26.5 to 30-foot bgs). PCE was detected in the soil in borings SB-2 through SB-4, up to a concentration of 0.64 mg/kg. TCE was detected in the soil borings SB-1 through SB-3, up to concentration of 0.25 mg/kg. PCE and TCE were detected in groundwater from all of the borings, up to concentrations of 460 µg/L and 190 µg/L, respectively. The results of this investigation indicated no potential source in the vicinity of previous boring BH-O, and that the contamination detected in this area has migrated from the known source in what is now the truck wash area.

¹ The San Francisco Bay RWQCB's current Environmental Screening Levels (ESLs) replace the Risk-Based Screening Levels (RBSLs) presented in the document, entitled "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater", San Francisco Bay RWQCB (December 2001) which was appropriate at the time of ASE's August 2002 soil and groundwater investigation.

II Summary of Monitoring Activities

AEI measured the depth to groundwater in the four (4) monitoring wells (labeled MW-1 through MW-4) on May 8, 2007. The well locations are shown on Figure 2. The depth to static groundwater from the top of the well casings was measured with an electric water level indicator prior to sampling.

The wells were purged with a battery-powered submersible pump or bailed by hand, if insufficient water was present. Temperature, pH, specific conductivity, dissolved oxygen (DO), and the oxidation-reduction potential (ORP) were measured and the turbidity was visually noted during purging of the wells. If sufficient water was present, at least four (4) well volumes of water were purged from each well. The wells were allowed to recharge to at least 90% of their original level prior to sample collection.

Groundwater samples were collected with new disposable plastic bailers into 40 ml volatile organic analysis (VOA) vials. The VOAs were capped so that no head space or air bubbles were visible within the sample containers. Samples were transported on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Bay Point, California (Department of Health Services Certification #1644).

Four (4) samples were analyzed for halogenated volatile organic compounds (HVOCs) by EPA Method 8260 (8010 list).

III Field Results

Groundwater levels for the current monitoring episode ranged from 9.44 (MW-2) to 12.28 (MW-3) feet above mean sea level (amsl). These groundwater elevations were approximately 0.64 feet higher than the previous episode. Based on these measurements, groundwater flow was calculated at a northwesterly direction with a hydraulic gradient of approximately 0.041 ft/ft. The groundwater flow direction appears to be consistent with previous monitoring episodes.

Groundwater elevation data is summarized in Table 2: Water Table Elevation Data and the groundwater flow direction and hydraulic gradient are summarized in Table 2a. The water table elevations and the estimated groundwater flow direction are shown on Figure 3, Water Table Elevations. Please refer to Appendix A for the Groundwater Monitoring Well Field Sampling Forms, which include water quality data and other parameters collected during well purging.

IV Groundwater Quality

Tetrachloroethene (PCE) was detected in groundwater samples in wells MW-1 to MW-3 at concentrations ranging from 12 µg/L to 18 µg/L. Trichloroethene (TCE) was detected in groundwater samples MW-1 through MW-4 at concentrations ranging from 0.79 µg/L to 30 µg/L. Concentrations of 1,1-Dichloroethene (1,1-DCE) was detected in well MW-1 and MW-3

at 1.4 µg/L and 0.64 µg/L. Cis-1,2-DCE was detected in all the wells at a maximum concentration of 27 µg/L. Trans-1,2 DCE was detected in well MW-1 at a concentration of 2.2 µg/L. 1,1-Dichloroethane (1,1-DCA) was detected in wells MW-1, MW-3, and MW-4 at a maximum concentration of 5.8 µg/L. Vinyl chloride was detected MW-1, MW-2, and MW-4 at concentrations of 19 µg/L, 1.5 µg/L, and 3.3 µg/L, respectively. No other HVOCs were detected exceeding laboratory detection limits in the groundwater samples.

A summary of groundwater analytical data is presented in Table 3 and Figure 4, respectively. Laboratory analytical reports and chain of custody documentation are included in Appendix B.

V Summary and Conclusions

Overall, PCE and TCE concentrations have continued to decrease relative to the apparent highs around year 2000. This suggests that natural dechlorination is occurring. Following review and comment on these recent groundwater monitoring reports and the 2006 report by the ACDEHS, formal closure evaluation and report can be prepared if it is agreed that the site could be eligible for closure.

In the meantime as required by the ACDEHS, the next semi-annual event is tentatively scheduled for the November 2007.

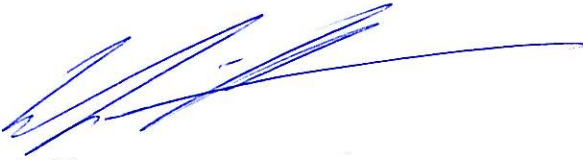
VI Report Limitations

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. 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 the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and 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 field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact either of the undersigned at (925) 283-6000.


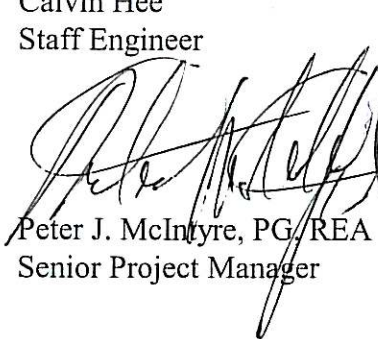
Sincerely,
AEI Consultants



Calvin Hee
Staff Engineer



Ricky Bradford
Project Engineer



Peter J. McIntyre, PG/REA
Senior Project Manager

Figures

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Water Table Elevation (05/08/07)

Figure 4: Dissolved Phase Hydrocarbon Concentrations (05/08/07)

Tables

Table 1: Well Construction Details

Table 2: Groundwater Elevation Data

Table 2a: Groundwater Flow Summary

Table 3: Groundwater Sample Analytical Data

Appendix A: *Groundwater Monitoring Well Field Sampling Forms*

Appendix B: *Laboratory Analyses With Chain of Custody Documentation*

Previous Documentation

Phase I Environmental Site Assessment (June 21, 2005) prepared by AEI Consultants

Quarterly Groundwater Monitoring Report, February 2000 Groundwater Sampling (February 28, 2000) prepared by Aqua Science Engineers, Inc.

Quarterly Groundwater Monitoring Report, May 2000 Groundwater Sampling (May 31, 2000) prepared by Aqua Science Engineers, Inc.

Quarterly Groundwater Monitoring Report, August 2000 Groundwater Sampling (October 1, 2000) prepared by Aqua Science Engineers, Inc.

Quarterly Groundwater Monitoring Report, November 2000 Groundwater Sampling (December 13, 2000) prepared by Aqua Science Engineers, Inc.

Quarterly Groundwater Monitoring Report, August 2005 Groundwater Sampling Event (September 16, 2005) prepared by Aqua Science Engineers, Inc.

Report Detailing Soil Remediation Activities (November 30, 1999) prepared by Aqua Science Engineers, Inc.

Report of Sensitive Receptors Survey and Area Well Survey for 2221 Union Street, Oakland, CA (December 6, 2000) prepared by Aqua Science Engineers, Inc.

Report of Soil and Groundwater Assessment (July 28, 1999) prepared by Aqua Science Engineers, Inc.

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (4th edition, February 2005) Volume 1: Summary Tier 1 Lookup Tables (Interim Final - February 2005) prepared by the San Francisco Bay Regional Water Quality Control Board (RWQCB)

Workplan for a Soil and Groundwater Assessment (July 9, 1999) prepared by Aqua Science Engineers, Inc.

Workplan for a Soil and Groundwater Assessment (June 26, 2002) prepared by Aqua Science Engineers, Inc.

Soil and Groundwater Investigation Work Plan (November 16, 2005) prepared by AEI Consultants

Soil and Groundwater Investigation Report (April 20, 2006) prepared by AEI Consultants

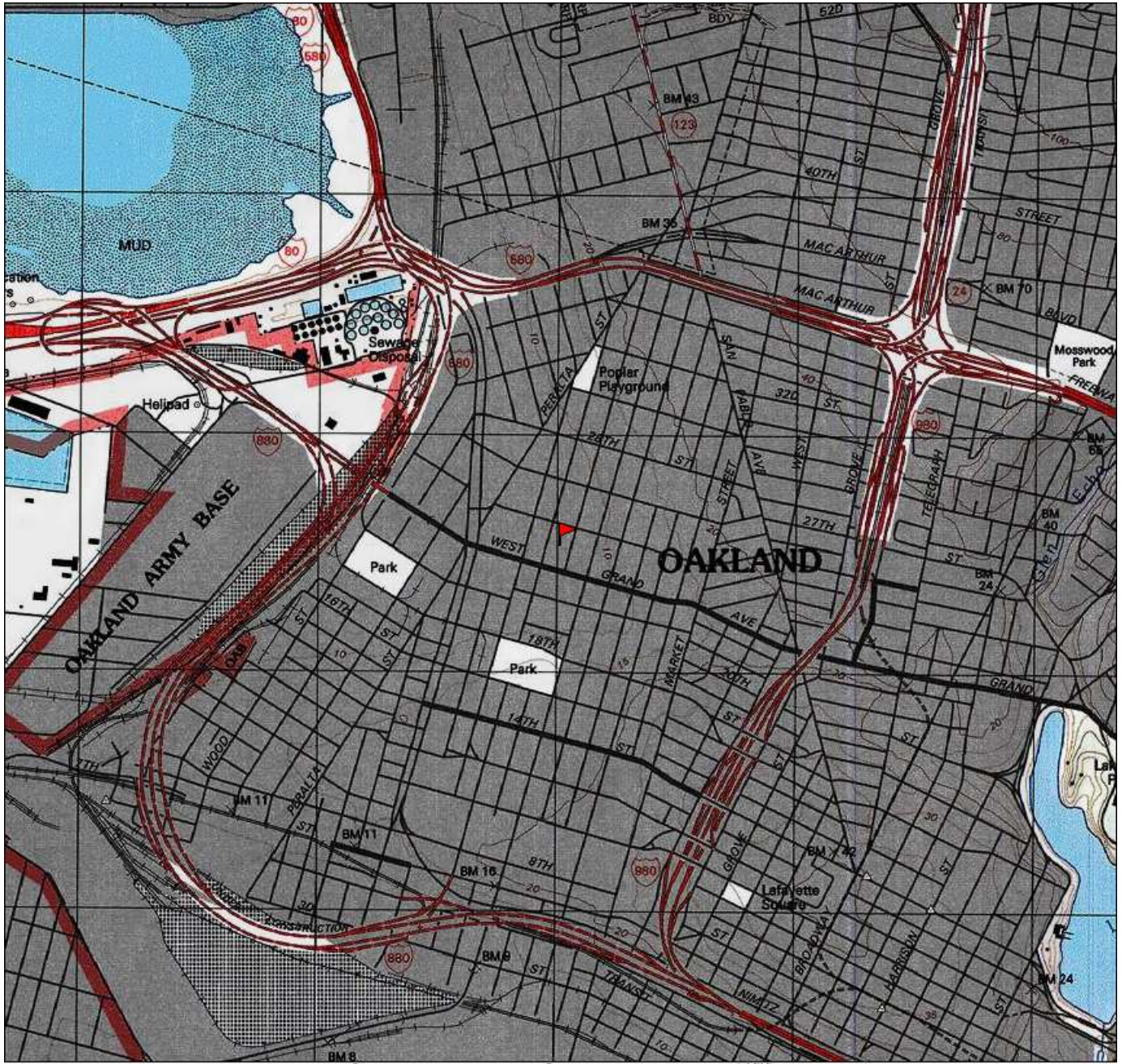
Distribution List

Mr. Alex Aguilar
J&A Truck Repair
2221 Union Street
Oakland, CA 94607

Mr. Barney M. Chan (electronic copy)
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

GeoTracker (electronic copy)

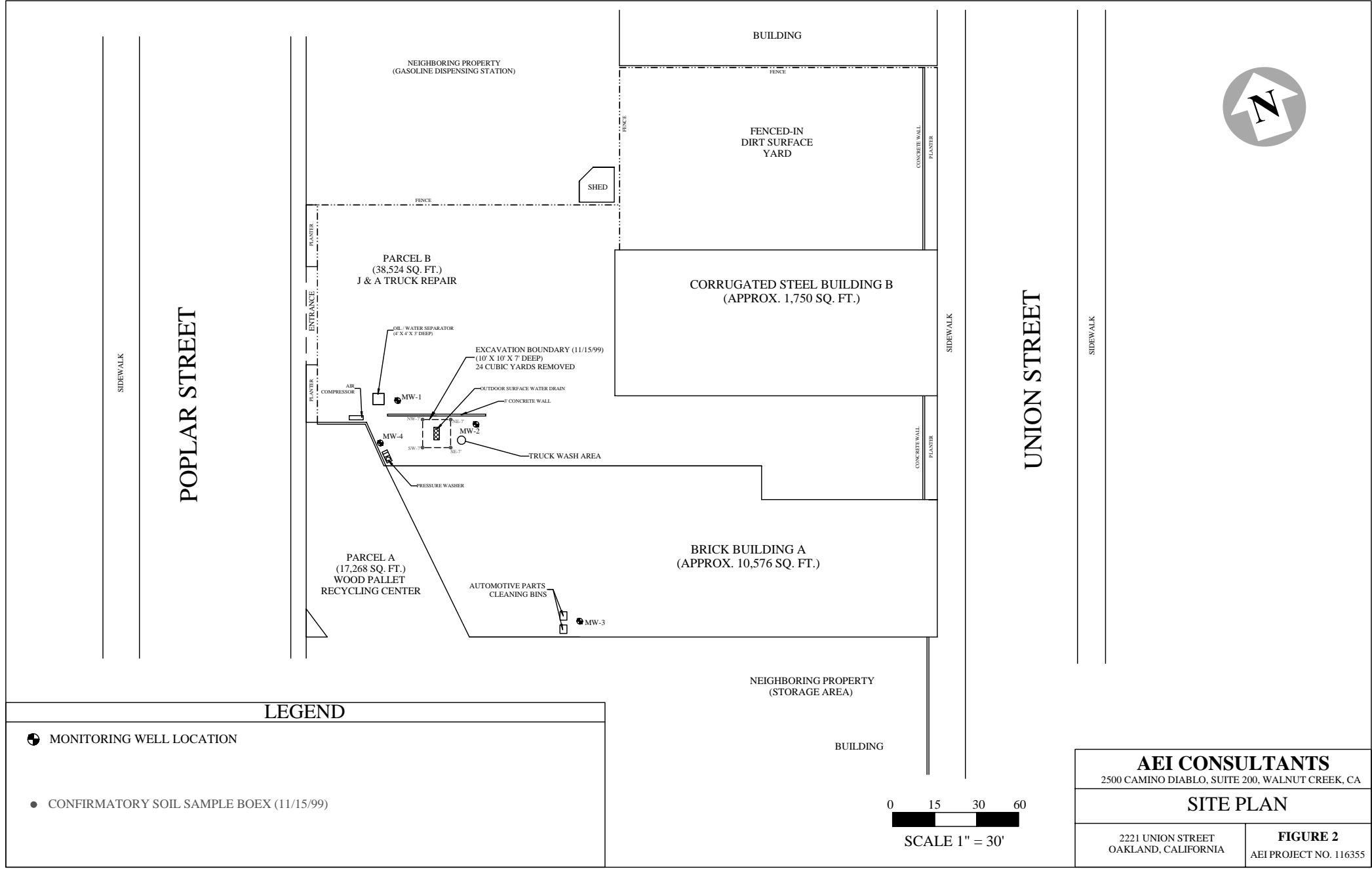
FIGURES

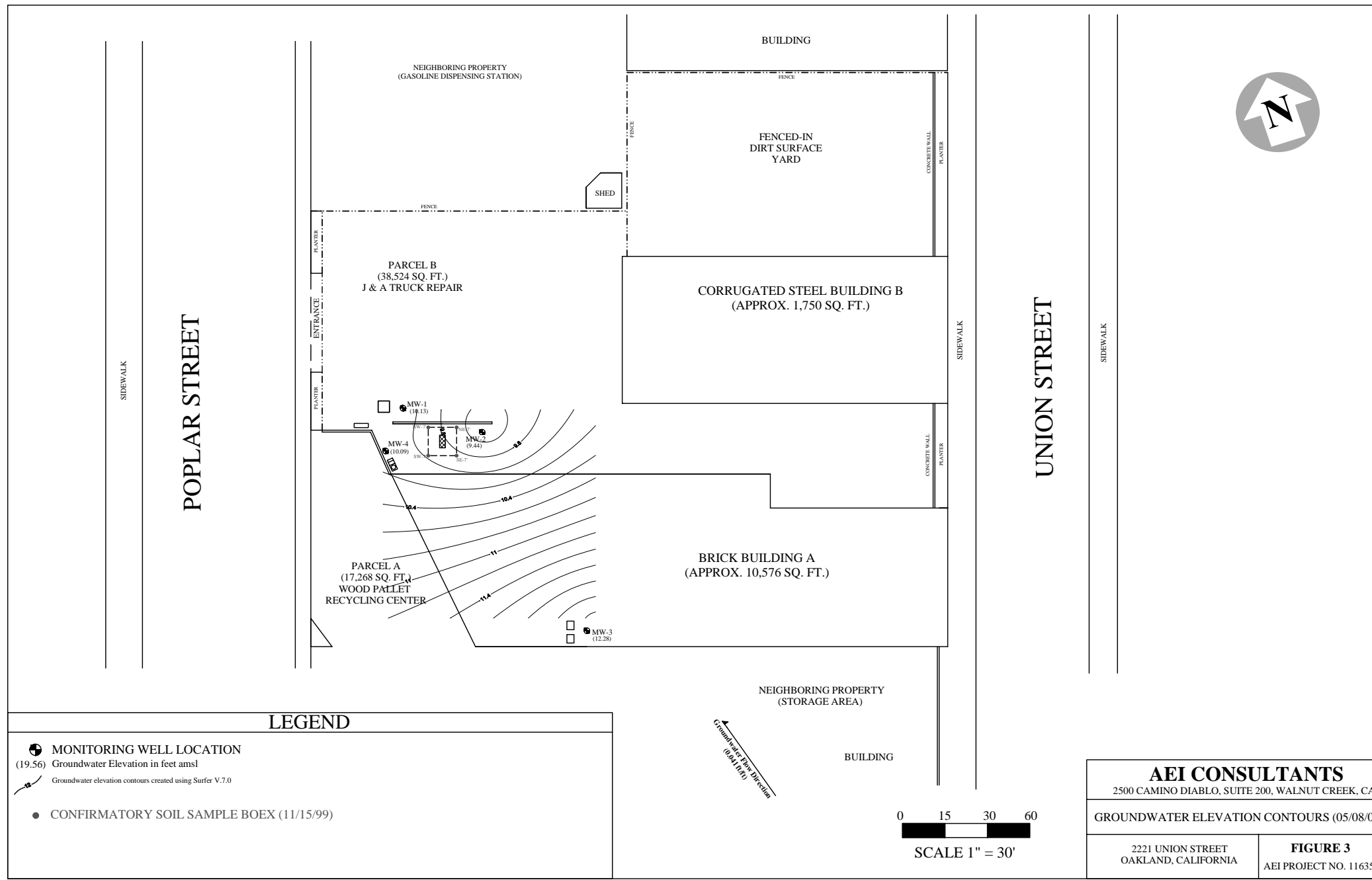


TN / MN
15°

0 1000 FEET 0 500 1000 METERS
0 5 1 MILE
Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

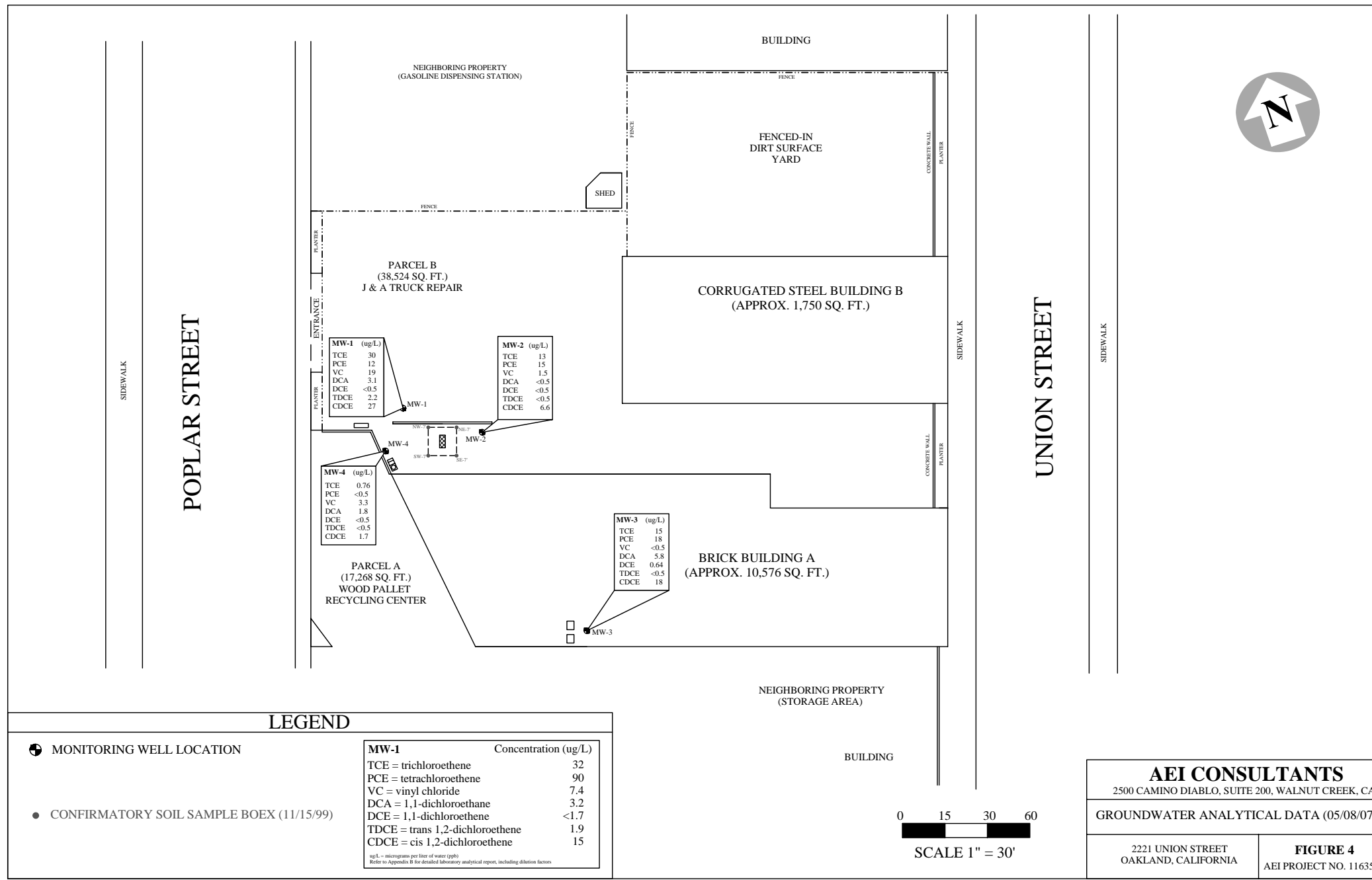
AEI CONSULTANTS	
SITE LOCATION MAP	
2221 UNION STREET OAKLAND, CALIFORNIA	FIGURE 1 PROJECT No. 116355





LEGEND	
	MONITORING WELL LOCATION (19.56) Groundwater Elevation in feet amsl
	Groundwater elevation contours created using Surfer V.7.0
	CONFIRMATORY SOIL SAMPLE BOEX (11/15/99)

AEI CONSULTANTS 2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA	
GROUNDWATER ELEVATION CONTOURS (05/08/07)	
2221 UNION STREET OAKLAND, CALIFORNIA	FIGURE 3 AEI PROJECT NO. 116355



TABLES

TABLE 1: Monitoring Well Construction Details

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Installation Date	Driller / Installer	Drilling Method	Well ID	*Screen Interval (ft bgs)	Screen Slot Size (inches)	Well Depth (ft bgs)	Well Diameter (inches)	DWFE (ft bgs)	Static DTW (ft bgs)	TOC Well Elevation (ft amsl)	Groundwater Elevation (ft amsl)
08/27/99	Gregg Drilling	HSA	MW-1	10 to 20	0.02	20	2	4	9.42	15.00	5.58
08/27/99	Gregg Drilling	HSA	MW-2	10 to 20	0.02	20	2	4	6.08	15.24	9.16
08/27/99	Gregg Drilling	HSA	MW-3	10 to 20	0.02	20	2	3	6.08	15.10	9.02
10/27/99	HEW Drilling	HSA	MW-4	9.5 to 19.5	0.02	19.5	2	3	5.86	15.21	9.35

Notes

ft amsl = feet above mean sea level

ft bgs = feet below ground surface

na = data not available

HSA = hollow-stem auger

DWFE = depth water first encountered

DTW = depth to water

TOC = top of casing

All monitoring wells constructed with schedule 40 PVC well casing and slotted well screen

*Approximate screen interval according to Aqua Science Engineers, Inc.

TABLE 2: Groundwater Elevation Data

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Well ID	Screen Interval (ft bgs)	Date	TOC Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
MW-1	10 to 20	09/02/99	15.00	8.81	6.19
		11/02/99	15.00	5.94	9.06
		11/04/99	15.00	7.15	7.85
		11/09/99	15.00	4.72	10.28
		02/07/00	15.00	3.55	11.45
		05/16/00	15.00	3.88	11.12
		08/08/00	15.00	5.79	9.21
		11/30/00	15.00	4.14	10.86
		08/08/02	15.00	5.94	9.06
		08/11/05	15.00	5.59	9.41
		03/02/06	15.00	3.98	11.02
		08/28/06	15.00	5.89	9.11
		05/08/07	15.00	4.87	10.13
MW-2	10 to 20	09/02/99	15.29	6.29	9.00
		11/02/99	15.24	6.01	9.23
		11/04/99	15.24	5.94	9.30
		11/09/99	15.24	5.28	9.96
		02/07/00	15.24	4.12	11.12
		05/16/00	15.24	4.24	11.00
		08/08/00	15.24	5.68	9.56
		11/30/00	15.24	4.78	10.46
		08/08/02	15.24	5.9	9.34
		08/11/05	15.24	5.51	9.73
		03/02/06	15.24	4.18	11.06
		08/28/06	15.24	5.77	9.47
		05/08/07	15.24	5.80	9.44
MW-3	10 to 20	09/02/99	15.15	6.26	8.89
		11/02/99	15.17	5.74	9.43
		11/04/99	15.17	6.09	9.08
		11/09/99	15.17	5.64	9.53
		02/07/00	15.17	3.06	12.11
		05/16/00	15.17	3.80	11.37
		08/08/00	15.17	3.54	11.63
		11/30/00	15.17	3.56	11.61
		08/08/02	15.17	3.53	11.64
		08/11/05	15.17	3.38	11.79
		03/02/06	15.17	2.37	12.80
		08/28/06	15.17	3.53	11.64
		05/08/07	15.17	2.89	12.28
MW-4	9.5 to 19.5	11/02/99	15.21	5.86	9.35
		11/04/99	15.21	5.85	9.36
		11/09/99	15.21	4.56	10.65
		02/07/00	15.21	3.66	11.55
		05/16/00	15.21	3.89	11.32
		08/08/00	15.21	5.77	9.44
		11/30/00	15.21	4.15	11.06

TABLE 2: Groundwater Elevation Data

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Well ID	Screen Interval (ft bgs)	Date	TOC Elevation (ft amsl)	Depth to Water (ft bgs)	Groundwater Elevation (ft amsl)
MW-4 cont.		08/08/02	15.21	6.33	8.88
		08/11/05	15.21	5.79	9.42
		03/02/06	15.21	3.85	11.36
		08/28/06	15.21	6.03	9.18
		05/08/07	15.21	5.12	10.09

Notes

ft amsl = feet above mean sea level
ft bgs = feet below ground surface
na = data not available
TOC = top of casing

*data obtained directly from groundwater monitoring reports prepared by Aqua Science Engineers, Inc., all other hydraulic gradient calculations were performed by AEI Consultants

TABLE 2a: Groundwater Flow Summary

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Episode #	Date	Average Water Table	Change from Previous	Flow Direction	Hydraulic Gradient (ft/ft)
1	09/02/99	6.02	0.00	west	0.1184
2	11/02/99	9.27	3.25	northeast	0.0047
3	11/04/99	8.90	-0.37	north - northwest	0.0070
4	11/09/99	7.44	-1.46	east	0.0207
5*	02/07/00	11.56	4.12	northeast	0.0166
6*	05/16/00	11.20	-0.36	northeast	0.0100
7*	08/08/00	9.96	-1.24	northeast	0.0100
8*	11/30/00	11.00	1.04	northeast	0.0070
9	08/08/02	9.73	-1.27	north	0.0305
10	08/11/05	10.09	0.36	north	0.0271
11	3/2/2006	11.56	1.47	north	0.025
12	8/28/2006	9.85	-1.71	north	0.031
13	5/8/2007	10.49	0.64	north	0.041

Notes

ft amsl = feet above mean sea level
ft bgs = feet below ground surface
na = data not available
TOC = top of casing

*data obtained directly from groundwater monitoring reports prepared by Aqua Science Engineers, Inc., all other hydraulic gradient calculations were performed by AEI Consultants

TABLE 3: Groundwater Sample Analytical Data

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Sample ID	Sample Collection Date	DTW (ft bgs)	PCE (µg/L)	TCE (µg/L)	1,1-DCE (µg/L)	cis 1,2-DCE (µg/L)	trans 1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	VC (µg/L)	Chloro ethane (µg/L)	Other HVOCs (µg/L)
MW-1	9/2/1999	8.81	9.8	3.2	<1	3.9	<1	58	<1	<1	<1	<1 - <10
	11/2/1999	5.94	100	15	<1	17	3.4	1.7	<1	<1	<1	<1 - <10
	2/7/2000	3.55	510	160	<5.0	8	<5.0	<5.0	<5.0	<5.0	<5.0	<5 - <20
	5/16/2000	3.88	260	73	<5.0	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5 - <20
	8/8/2000	5.79	38	19	<0.5	21	8.7	1.2	<0.5	17	<0.5	<0.5 - <5
	11/30/2000	4.14	110	45	<2.5	9	<2.5	<2.5	<2.5	4.2	<2.5	<2.5 - <25
	8/8/2002	5.94	78	49	<5.0	18	6.3	<5.0	<5.0	130	<5.0	<5 - <50
	8/11/2005	5.59	<5.0	6.5	<5.0	52	5.9	<5.0	<5.0	170	<5.0	<5 - <10
	3/2/2006	3.98	90	32	<1.7	15	1.9	3.2	<1.7	7.4	<1.7	<1.7
	8/28/2006	5.89	54	29	<1.2	16	2.1	3.4	<1.2	18	<1.2	<1.2
5/8/2007	4.87	12	30	1.4	27	2.2	3.1	<0.5	19	<0.5	<0.5	
MW-2	9/2/1999	6.29	48	4.5	<1	1.7	<1	<1	<1	<1	<1	<1 - <10
	11/2/1999	6.01	110	9.5	<1	1.4	<1	<1	<1	<1	<1	<1 - <10
	2/7/2000	4.12	200	21	<2.5	6.6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 - <10
	5/16/2000	4.24	820	220	<10	74	<10	<10	<10	<10	<10	<10 - <40
	8/8/2000	5.68	280	82	<5	33	<5	<5	<5	<5.0	<5	<5 - <20
	11/30/2000	4.78	660	360	<10	130	<10	<10	<10	<10	<10	<10 - <10
	8/8/2002	5.90	<0.5	<0.5	<0.5	31	<0.5	<0.5	<0.5	2.5	<0.5	<0.5 - <5
	8/11/2005	5.51	8.6	14	<0.5	15	0.67	<0.5	<0.5	3.1	<0.5	0.53*
	3/2/2006	4.18	44	19	<1	9.3	<1	<1	<1	2.5	<1	<1
	8/28/2006	5.77	25	36	<0.5	37	0.74	<0.5	<0.5	3.2	<0.5	0.59*
5/8/2007	5.80	15	13	<0.5	6.6	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	

TABLE 3: Groundwater Sample Analytical Data

**J & A Truck Repair
2221 Union Street, Oakland, CA**

Sample ID	Sample Collection Date	DTW (ft bgs)	PCE (µg/L)	TCE (µg/L)	1,1-DCE (µg/L)	cis 1,2-DCE (µg/L)	trans 1,2-DCE (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	VC (µg/L)	Chloroethane (µg/L)	Other HVOCs (µg/L)
MW-3	9/2/1999	6.26	38	21	<0.5	34	<0.5	22	<0.5	<0.5	<0.5	<0.5 - <5
	11/2/1999	5.74	59	21	<0.5	35	<0.5	22	<0.5	<0.5	<0.5	<0.5 - <5
	2/7/2000	3.06	56	13	<0.5	22	<0.5	8.5	<0.5	<0.5	<0.5	<0.5 - <5
	5/16/2000	3.80	54	8.7	<1	<1	<1	5.3	<1	<1	<1	<1 - <10
	8/8/2000	3.54	74	11	<1	17	<1	12	<1	<1	<1	<1 - <4
	11/30/2000	3.55	63	14	<1	25	<1	14	<1	<1	<1	<1 - <10
	8/8/2002	3.53	58	19	<2.5	25	<2.5	17	<2.5	<2.5	<2.5	<2.5 - <25
	8/11/2005	3.38	22	23	0.58	32	1	11	<0.5	<0.5	<0.5	<0.5 - <1
	3/2/2006	2.37	12	12	<0.5	21	<0.5	7.2	<0.5	<0.5	<0.5	<0.5
	8/28/2006	3.53	7.7	15	<0.5	26	0.65	6.8	<0.5	<0.5	<0.5	<0.5 - <1.0
5/8/2007	2.89	18	15	0.64	18	<0.5	5.8	<0.5	<0.5	<0.5	<0.5	
MW-4	11/2/1999	5.86	0.68	0.74	2.7	21	<0.5	14	2.1	6.3	12	<0.5 - <5
	2/7/2000	3.66	14	4.1	0.64	18	<0.5	8.1	<0.5	6	0.71	<0.5 - <5
	5/16/2000	3.89	24	13	<0.5	12	<0.5	19	<0.5	0.75	<0.5	<0.5 - <5
	8/8/2000	5.77	2.1	7.4	1.8	17	<0.5	8.3	1.9	9.6	3.1	<0.5 - <5
	11/30/2000	4.15	30	6.9	<0.5	2.8	<0.5	8.3	<0.5	<0.5	<0.5	4.6**
	8/8/2002	6.33	19	12	<0.5	13	<0.5	28	<0.5	0.89	<0.5	<0.5 - <5
	8/11/2005	5.79	2.6	3.9	2	6.1	<0.5	11	<0.5	<0.5	<0.5	<0.5 - <1
	3/2/2006	3.85	5.2	1.5	<0.5	2.4	<0.5	2.7	<0.5	1.3	<0.5	<0.5
	8/28/2006	6.03	0.87	1.4	0.71	2.8	<0.5	6.6	<0.5	<0.5	<0.5	<0.5 - <1.0
	5/8/2007	5.12	<0.5	0.76	<0.5	1.7	<0.5	1.8	<0.5	3.3	<0.5	<0.5

Notes

All groundwater sample analytical data prior to the March 2, 2006 sampling event was obtained from soil and groundwater investigation reports prepared by Aqua Science Engineers, Inc.

Non-detectable concentrations are noted by a less than sign (<) followed by the laboratory method detection or reporting limit

ft bgs = feet below ground surface

µg/L = microgram per liter

HVOCs = halogenated volatile organic compounds

DWT = depth to water

PCE = tetrachloroethene

DCE = Dichloroethene

DCA = Dichloroethane

* = 1, 2 Dichloropropane

TCE = trichloroethene

TCA = trichloroethane

VC = Vinyl Chloride

** = 1, 1, 1-Trichloroethane

APPENDICIES

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	J&A Truck Repair	Date of Sampling:	5/8/2007
Job Number:	116355	Name of Sampler:	R Bartlett
Project Address:	2221 Union Street, Oakland, CA 94607		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK <input type="button" value="▼"/>		
Elevation of Top of Casing (feet above msl)	15.00		
Depth of Well	20.00		
Depth to Water (from top of casing)	4.87		
Water Elevation (feet above msl)	10.13		
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)	7.3		
Actual Volume Purged (gallons)	7.5		
Appearance of Purge Water	Clear		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size				3 VOAS			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	18.60	7.26	1027	9.84	-32.6	
	2	18.13	7.28	1018	8.31	-51.6	
	3	18.13	7.21	890	6.55	-37.4	
	4	18.19	7.32	863	5.14	-38.6	
	5	18.07	7.34	884	4.54	-34.9	
	6	17.94	7.39	943	3.91	-28.8	
	7.5	18.02	7.37	1018	3.30	-27.3	

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

No chemical odors.

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	J&A Truck Repair	Date of Sampling:	5/8/2007
Job Number:	116355	Name of Sampler:	R Bartlett
Project Address:	2221 Union Street, Oakland, CA 94607		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK		▼
Elevation of Top of Casing (feet above msl)	15.24		
Depth of Well	20.00		
Depth to Water (from top of casing)	5.80		
Water Elevation (feet above msl)	9.44		
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)	6.8		
Actual Volume Purged (gallons)	7.0		
Appearance of Purge Water	Brown. Yellow at 2.0 gallons, clears by 4.0 gallons		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size				3 VOAS			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	19.83	7.50	1280	8.89	86.2	
	2	17.90	7.32	1055	7.75	54.2	
	3	17.80	7.18	880	7.42	57.1	
	4	17.58	7.20	1007	6.15	-16.5	
	5	17.52	7.41	1340	4.92	-93.3	
	6	17.58	7.45	1419	4.28	-91.3	
	7	17.65	7.45	1433	3.77	-92.1	

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

No chemical odors.

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	J&A Truck Repair	Date of Sampling:	5/8/2007
Job Number:	116355	Name of Sampler:	R Bartlett
Project Address:	2221 Union Street, Oakland, CA 94607		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK <input type="button" value="▼"/>		
Elevation of Top of Casing (feet above msl)	15.10		
Depth of Well	20.00		
Depth to Water (from top of casing)	2.89		
Water Elevation (feet above msl)	12.21		
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)	8.2		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water	Clear with black flakes during the first 2 gallons		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size				3 VOAS			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	17.84	6.73	987	9.06	43.2	
	2	17.41	6.40	833	8.87	62.6	
	3	17.48	6.17	860	9.18	68.3	
	4	17.34	6.23	919	9.42	48.4	
	6	17.20	6.34	989	8.84	30.3	
	7	17.25	6.44	1023	7.74	16.0	
	8	17.33	6.44	1025	6.94	18.4	

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

No chemical odors.

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	J&A Truck Repair	Date of Sampling:	5/8/2007
Job Number:	116355	Name of Sampler:	R Bartlett
Project Address:	2221 Union Street, Oakland, CA 94607		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK <input type="button" value="▼"/>		
Elevation of Top of Casing (feet above msl)	15.21		
Depth of Well	19.50		
Depth to Water (from top of casing)	5.12		
Water Elevation (feet above msl)	10.09		
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)	6.9		
Actual Volume Purged (gallons)	7.0		
Appearance of Purge Water	Clear with black flakes in first 2 gallons		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size				3 VOAS			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	1	17.47	6.52	1051	7.44	83.6	
	2	16.35	6.68	950	7.62	71.9	
	3	16.10	6.72	964	7.96	56.8	
	4	16.12	6.82	1085	7.84	3.6	
	5	16.38	6.95	1122	7.61	0.4	
	6	16.66	6.93	1105	7.46	3.7	
	7	16.70	6.92	1105	7.44	7.1	

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

No chemical odor



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #116355; J & A Trucking	Date Sampled: 05/08/07
		Date Received: 05/08/07
	Client Contact: Ricky Bradford	Date Reported: 05/15/07
	Client P.O.:	Date Completed: 05/15/07

WorkOrder: 0705201

May 15, 2007

Dear Ricky:

Enclosed are:

- 1). the results of 4 analyzed samples from your #116355; J & A Trucking project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

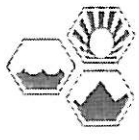
All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell 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

REL 0105201



McCAMPBELL ANALYTICAL, INC.
 1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Ricky Brossard Bill To: SAME
 Company: A&I Consultants
2500 Pablo Camino Suite 200
Walnut Creek, CA 94577 E-Mail: r.brossard@aisconsultants.com
 Tele: (925) 744-2829 ext 148 Fax: (925) 744-2895
 Project #: 118335 Project Name: SEA Trucking
 Project Location: 2261 Union St, Oakland, CA
 Sampler Signature: _____

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
+ MW-1		7/8/07	11:30	4	USA	X						X					Filter Samples for Metals analysis: Yes / No
+ MW-2												X					
+ MW-3												X					
+ MW-4												X					

Relinquished By: _____ Date: 7/8/07 Time: 11:30 Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/TIC ✓
 GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓
 APPROPRIATE CONTAINERS ✓
 PRESERVED IN LAB ✓
 COMMENTS:
 VOAS ✓ O&G METALS OTHER
 PRESERVATION ✓ pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0705201

ClientID: AEL

EDF Excel Fax Email HardCopy ThirdParty

Report to:		Bill to:	Requested TAT: 5 days
Ricky Bradford	Email: rbradford@aeiconsultants.com	Denise Mockel	
AEI Consultants	TEL: (925) 283-600 FAX: (925) 944-289	AEI Consultants	Date Received 05/08/2007
2500 Camino Diablo, Ste. #200	ProjectNo: #116355; J & A Trucking	2500 Camino Diablo, Ste. #200	Date Printed: 05/08/2007
Walnut Creek, CA 94597	PO:	Walnut Creek, CA 94597	
		dmockel@aeiconsultants.com	

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0705201-001	MW-1	Water	05/08/07 11:40:00	<input type="checkbox"/>	A												
0705201-002	MW-2	Water	05/08/07 11:50:00	<input type="checkbox"/>	A												
0705201-003	MW-3	Water	05/08/07 11:30:00	<input type="checkbox"/>	A												
0705201-004	MW-4	Water	05/08/07 11:20:00	<input type="checkbox"/>	A												

Test Legend:

1	8010BMS W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Sheli Cryderman

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.



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **05/08/07 2:49:33 PM**
 Project Name: **#116355; J & A Trucking** Checklist completed and reviewed by: **SC**
 WorkOrder N°: **0705201** Matrix Water Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 9.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments:



AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #116355; J & A Trucking	Date Sampled: 05/08/07
	Client Contact: Ricky Bradford	Date Received: 05/08/07
	Client P.O.:	Date Extracted: 05/10/07
		Date Analyzed: 05/10/07

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0705201

Lab ID	0705201-001A	0705201-002A	0705201-003A	0705201-004A	Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3	MW-4	S	W
Matrix	W	W	W	W		
DF	1	1	1	1		

Compound	Concentration				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	ND	NA	0.5
Chloroethane	ND	ND	ND	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	NA	1.0
Chloroform	ND	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethane	3.1	ND	5.8	1.8	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethene	1.4	ND	0.64	ND	NA	0.5
cis-1,2-Dichloroethene	27	6.6	18	1.7	NA	0.5
trans-1,2-Dichloroethene	2.2	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
Methylene chloride	ND	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
Tetrachloroethene	12	15	18	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	NA	0.5
Trichloroethene	30	13	15	0.76	NA	0.5
Trichlorofluoromethane	ND	ND	ND	ND	NA	0.5
Vinyl Chloride	19	1.5	ND	3.3	NA	0.5

Surrogate Recoveries (%)

%SS1:	103	103	103	106
%SS2:	95	96	94	94
%SS3:	90	90	89	90
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 surrogate coelutes with another peak.

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0705201

EPA Method SW8260B	Extraction SW5030B			BatchID: 27920			Spiked Sample ID: 0705185-001B					
	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	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	104	99.2	5.08	97.3	102	4.29	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	126	124	1.92	125	126	0.973	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	129	127	1.53	123	129	4.38	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	90.6	86.4	4.71	86.4	88.2	2.09	70 - 130	30	70 - 130	30
%SS1:	100	10	105	109	3.30	113	108	4.46	70 - 130	30	70 - 130	30
%SS2:	95	10	102	99	3.30	96	97	0.206	70 - 130	30	70 - 130	30
%SS3:	87	10	109	107	1.62	105	102	2.78	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 27920 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705201-001A	05/08/07 11:40 AM	05/10/07	05/10/07 8:11 AM	0705201-002A	05/08/07 11:50 AM	05/10/07	05/10/07 8:59 PM
0705201-003A	05/08/07 11:30 AM	05/10/07	05/10/07 9:52 AM	0705201-004A	05/08/07 11:20 AM	05/10/07	05/10/07 10:39 AM

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.