Shaw Environmental, Inc.

Shaw Environmental, Inc.
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July 15, 2008

Shaw Project No. 130263.12

Mr. Paresh Khatri
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Results of Soil and Groundwater Investigation, AT&T Facility, 1189 58th Avenue, Oakland, California**

Dear Mr. Khatri:

Shaw Environmental, Inc. (Shaw) is pleased to present the results of soil and groundwater investigation completed at the above-mentioned AT&T facility. This investigation consisted of advancing 5 direct-push soil borings in the vicinity of the former gasoline/diesel underground storage tank (UST), and collection and analysis of soil and groundwater samples. Field activities discussed in this report were completed on July 3, 2008.

Four soil borings were advanced around the former UST, to depths of 20 feet to 24 feet below surface grade (bsg). Groundwater was encountered in three of the borings at depths of 16 feet to 19 feet bsg; groundwater was not encountered in the fourth boring. Groundwater samples were collected for laboratory analysis from the borings where groundwater was present, and a soil sample submitted for laboratory analysis from the remaining boring.

The fifth boring was placed within the center of the former UST excavation, with fill material encountered to a depth of 15 feet bsg followed by native soils to the termination of continuous coring activities at 17 feet bsg. A hydropunch was advanced in the borehole to a depth of 24 feet bsg, with the outer casing then retracted to expose a screened interval approximately 3 feet in length. A groundwater sample was then collected for laboratory analysis.

No petroleum hydrocarbons were detected in the analysis of the soil sample collected from the borehole where groundwater was not encountered. Analysis of the groundwater samples reported total petroleum hydrocarbons as diesel (TPH-D) in all four samples at concentrations of 120 µg/L (B1E), 170 µg/L (B2N), 68 µg/L (B3W), and 110 µg/L (B5C). The fuel oxygenate methyl

tertiary butyl ether (MTBE) was also detected in all four samples at concentrations of 71 µg/L (B1E), 1.1 µg/L (B2N), 260 µg/L (B3W), and 0.76 µg/L (B5C). No TPH-G, benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents, or the fuel oxygenates tert-amylmethyl ether (TAME), di-isopropyl ether (DIPE), tert-butanol, or ethanol were detected in any of the samples.

No TPH-D or MTBE concentrations reported in the laboratory analysis exceeded the San Francisco Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for deep groundwater (>3 meters) at commercial/industrial properties. However, both TPH-D and MTBE exceeded the ESLs for residential properties. Additional investigation would need to be performed to delineate the extent of impacted groundwater.

If you have any questions regarding the information presented in this report, please contact Rob Delnagro at (925) 288-2103. Any written correspondence should be addressed to:

Mr. Jason Weller
AT&T Services, Inc.
308 South Akard Street; Room 1700
Dallas, Texas 75202

Sincerely,

Shaw Environmental, Inc.

Rob Delnagro
Project Manager

cc: Mr. Jason Weller – AT&T EH&S

SOIL AND GROUNDWATER INVESTIGATION
AT&T FACILITY
1189 58TH AVENUE
OAKLAND, CALIFORNIA

Prepared for:

AT&T Services, Inc.
308 South Akard, Room 1700
Dallas, Texas 75202

Prepared by:

Shaw Environmental, Inc.
4005 Port Chicago Highway
Concord, California 94520

Shaw Project No. 130263.12

July 2008

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1.0 Introduction

On behalf of AT&T Services, Inc. (AT&T), Shaw Environmental, Inc. (Shaw) has prepared this report of the soil and groundwater investigation completed at the AT&T facility located at 1189 58th Avenue in Oakland, California (Figure 1). These activities were required by the Alameda County Health Care Services Agency (ACHCSA) to evaluate conditions in the vicinity of a former dual-compartment gasoline/diesel underground storage tank (UST).

The investigation involved the advancement of five direct-push soil borings around the former UST location, and the collection and analysis of soil and groundwater samples. Field activities presented in this report were performed by Shaw on July 3rd, 2008.

1.1 Site Description

The AT&T property is located in a commercial/light industrial and residential area of Oakland, California. A one-story building used for housing telecommunications equipment and offices occupies the northeastern portion of the site. A warehouse facility and carport occupy the northwestern portion of the site, with a covered equipment storage bay centrally located on the property. The remainder of the site is paved and used for vehicle parking and equipment storage (Figure 2).

On the southeastern portion of the site was a 12,000-gallon, dual-compartment UST used for fueling AT&T fleet vehicles. The UST contained an 8,000-gallon compartment containing gasoline and a 4,000-gallon compartment containing diesel fuel. AT&T had decided to no longer operate the fleet fueling facility and the UST was removed in July 2003.

1.2 Site Background

October 1994 UST Removal/Groundwater Monitoring

In October 1994, an 8,000-gallon gasoline UST was removed from the site (IT Corporation, 1994). Analysis of an initial sample collected from groundwater encountered in the excavation detected total petroleum hydrocarbons as gasoline (TPH-G) at a concentration of 18,000 micrograms per liter (µg/L). Benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents were also detected, with benzene reported at a concentration of 630 µg/L. No petroleum hydrocarbons were detected in soil samples collected from the excavation. The excavation was subsequently dewatered, with TPH-G detected in a second groundwater sample at 400 µg/L.

BTEX constituents were also encountered with benzene at 2.9 µg/L. A new 12,000-gallon dual-compartment gasoline/diesel UST was then installed within the same excavation.

In January 1995, three monitoring wells were installed at the site, and a quarterly monitoring program initiated. Results of the initial sampling activities detected TPH-G and BTEX compounds in the downgradient monitoring well. In April 1994, a fourth monitoring well was installed further downgradient and incorporated into the monitoring program. A total of four sampling events were performed, with petroleum hydrocarbons only detected in the well located immediately downgradient of the former UST system in the initial two sampling events. Inferred groundwater flow direction was to the west at an average gradient of approximately 0.01 ft/ft. The fuel oxygenate methyl tertiary butyl ether (MTBE) was not included in the analytical suite. No hydrocarbons were detected in any of the wells in the last two sampling events conducted in July and October 1995 (IT Corporation, 1995).

In May 1996, case closure was granted by the ACHCSA, with the four monitoring wells subsequently destroyed.

July 2003 UST Removal

The 12,000-gallon gasoline/diesel UST was removed from the property on July 30, 2003. Following removal, the tank was observed to be in good condition, without any holes or cracks. Light green staining was observed on the sidewalls of the excavation (Shaw, 2003). Groundwater with a slight hydrocarbon odor was encountered at approximately 9.5 bsg in the excavation. Following removal, four soil samples were collected from the sidewalls of the excavation. Analysis of the soil samples indicated methyl tertiary butyl ether (MTBE) in the sample collected from the southern sidewall at a concentration of 0.079 milligrams per kilogram (mg/kg). TPH as diesel (TPH-D), TPH-G, BTEX constituents, and total lead were not detected in any of the soil samples collected

After removal of the UST and completion of soil sampling activities, the excavation was dewatered, with approximately 1,500 gallons of groundwater removed. The following day, the excavation was further dewatered, with an additional 1,100 gallons of groundwater removed. The excavation was allowed to partially recharge, and a groundwater sample was collected. Analysis of the groundwater sample detected TPH-D, TPH-G, and MTBE at concentrations of 190 µg/L, 1,600 µg/L, and 1,800 µg/L, respectively. BTEX constituents were detected at

concentrations of 51 µg/L (benzene), 300 µg/L (toluene), 32 µg/L (ethylbenzene), and 260 µg/L (xylenes).

In August 2006, a work plan detailing completion of a soil/groundwater investigation was submitted by Environmental Resolutions, Inc. (ERI) to the ACHCSA (ERI, 2006). In a letter dated April 9, 2008, the ACHCSA approved implementation of the work plan with the analyses for di-isopropyl ether (DIPE), tert-amylmethyl ether (TAME), tert-butanol (TBA), and ethanol added to the laboratory sampling program (ACHCSA, 2008). A copy of this letter is included in Appendix A. The following sections detail field activities and sampling results of this investigation.

2.0 Field Activities

2.1 Permitting, Health and Safety Plan, and Utility Location

Prior to performing field activities, a permit for the soil borings was obtained from the Alameda County Public Works Agency (ACPWA). Upon approval, representatives of the ACPWA and the ACHCSA were notified of the proposed drilling date. A copy of the permit is included in Appendix B.

A site-specific health and safety plan was developed to outline safety measures to be implemented during field activities. The proposed drilling locations were marked and Underground Service Alert (USA) was contacted and notified of the anticipated locations and date of drilling. In addition, an independent utility locating service was subcontracted to further assist in locating utilities near the anticipated drilling locations.

2.2 Soil Borings

On July 3, 2008 five soil borings were advanced at select locations on the site (Figure 3). Four of the soil borings were placed around the former UST excavation (borings B1E, B2N, B3W, and B4S), and one boring placed within the center of the former excavation (B5C). Drilling activities were performed under the supervision of a Shaw field geologist, by Gregg Drilling and Testing, of Martinez, California using direct-push equipment. The borings not located within the backfilled UST excavation were hand-augered until native soils were encountered. The borings were then cored to depth using 48-inch-long core samplers lined with clear, lexan sample tubes, with soil cores used for lithologic evaluation and field screening of organic vapors using a photoionization detector (PID).

Boring B2N and B4S were placed in the inferred cross-gradient groundwater flow direction from the former UST, boring B1E was placed up-gradient of the former UST, and boring B3W placed in the downgradient direction. Borings B2N, B3W, and B4S were advanced to a total depth of 20 feet bsg, with the fourth boring (B1E) was performed to a depth of 24 feet bsg. During borehole advancement, soil samples were collected from 15 feet and 20 feet bsg, sealed with teflon tape and plastic end caps, appropriately labeled, and placed in an insulated chest with ice pending transport to the laboratory. A copy of the chain-of-custody document is included in Appendix C.

Following completion of the borings, a 1.25-inch temporary PVC well casing was placed into boreholes B1E, B2N, B3W, and B4S. A pre-cleaned stainless steel bailer was then used to collect a water sample, if present, from within each casing. The samples were then transferred into the appropriate laboratory-supplied containers, placed in seam sealing plastic bags and stored in a cooler with ice until delivery to the laboratory. After approximately 6 hours, there was insufficient water present to sample within boring B4S.

Soil boring B5C was located in the center of the former UST excavation. During boring activities, pea gravel fill material was encountered to a depth of 15 feet bsg, followed by native soils to the termination of continuous coring activities at 17 feet bsg (probe refusal?). In order to collect a groundwater sample from depth, a hydropunch was advanced within the borehole to 24 feet, with the outer casing then retracted to expose a screened interval approximately 3 feet in length. A groundwater sample was collected from the hydropunch sampler using a pre-cleaned stainless steel bailer. The water was transferred into the appropriate laboratory-supplied containers, placed in seam sealing plastic bags and stored in a cooler with ice until delivery to the laboratory.

Native soils encountered during boring activities consisted of dark gray clays to approximately 12 feet bsg, followed by yellowish brown sandy clays to the end of the borings. Slight petroleum hydrocarbons and elevated PID readings were noted in soils in boring B3W from 3 feet to 5 feet bsg, and in boring B5C from 15 feet to 17 feet bsg. Groundwater was encountered in borings B1E, B2N, and B3W, and B5C at depths of 16 feet to 19 feet bsg; groundwater was not encountered in boring B4S. Soil boring logs are included in Appendix C.

Following completion of drilling and groundwater sampling, the borings were grouted up with a bentonite/cement grout slurry and surface-patched with concrete. Soil cuttings generated

during boring advancement were placed into a labeled 55-gallon drum and left on-site pending disposal. In order to characterize the soils for disposal purposes, one soil sample, labeled B1-5, was collected from the drummed soils and submitted for laboratory analyses.

2.3 Laboratory Analysis

A total of two soil samples and four groundwater samples were collected for laboratory analysis and submitted to McCampbell Analytical Inc., an ELAP-certified laboratory located in Pittsburg, California. The samples were analyzed for TPH-D and TPH-G under EPA method 8015C and BTEX constituents under EPA method 8260B. The samples were further analyzed for MTBE, DIPE, TBA, TBA and ethanol under EPA method 8260B. In addition, soil sample B1-5, collected from drummed soil cuttings, was analyzed for total lead under EPA method 6010C. A copy of the chain-of-custody document is included in Appendix C.

2.4 Soil Sample Analytical Results

No petroleum hydrocarbons were detected in soil sample B4S-15, collected from boring B4S at a depth of 15 feet bsg. Analysis of sample B1-5, collected for waste disposal purposes from drummed soil cuttings, reported TPH-D at a concentration of 24 mg/kg. No other analytes were detected in this sample. Analytical results are summarized in Table 1, and depicted on Figure 3. A copy of the laboratory analytical report is included in Appendix C.

2.5 Groundwater Sample Analytical Results

TPH-D was detected in all four samples at concentrations of 120 µg/L (B1E), 170 µg/L (B2N), 68 µg/L (B3W), and 110 µg/L (B5C). The fuel oxygenate MTBE was also detected in all four samples at concentrations of 71 µg/L (B1E), 1.1 µg/L (B2N), 260 µg/L (B3W), and 0.76 µg/L (B5C). No other analytes were encountered in the groundwater samples. Analytical results are summarized in Table 2, and depicted on Figure 4. A copy of the laboratory analytical report is included in Appendix C.

2.6 Waste Disposal

Soils generated during boring activities were placed into a labeled 55-gallon drum pending off-site disposal. A copy of the disposal documentation will be forwarded upon receipt.

3.0 Discussion

Groundwater was encountered in four of the five borings, at depths ranging from 16 feet to 19 feet bsg. After allowing the remaining boring (B4S) to remain open for approximately 6 hours, insufficient water to sample had infiltrated into the boring. Due to the lack of groundwater within the remaining boring, one soil sample was submitted for analysis from a depth of 15 feet bsg, near the approximately depth of the former UST excavation. No petroleum hydrocarbons were detected in the laboratory analysis of the sample.

Analysis of the four groundwater samples detected elevated TPH-D and MTBE in all four groundwater samples, with TPH-D concentrations ranging from 68 µg/L to 170 µg/L, and MTBE concentrations ranging from 0.76 µg/L to 260 µg/L. None of the analyte concentrations exceeded the San Francisco Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for deep groundwater (>3 meters) at commercial/industrial properties. However, both TPH-D and MTBE exceeded the ESLs for residential properties.

In order to characterize the extent of impacted groundwater, additional investigation would be required.

4.0 Conclusions

Based on the field observations and laboratory analytical data presented in this report, Shaw concludes the following:

- In July 2008, five direct-push soil borings were performed in the vicinity of the former 12,000-gallon gasoline/diesel UST.
- Groundwater was encountered in borings B1E, B2N, B3W, and B5C at depths ranging from 16 feet to 19 feet bsg. Groundwater samples were collected from either temporary well casings placed in each borehole or from hydropunch sampling equipment.
- Due to the lack of groundwater within boring B4S, one soil sample collected from a depth of 15 feet bsg was submitted for analysis.
- No petroleum hydrocarbons were detected in the analysis of the soil sample collected from boring B4S.
- TPH-D was reported in all four groundwater samples at concentrations of 120 µg/L (B1E), 170 µg/L (B2N), 68 µg/L (B3W), and 110 µg/L (B5C).

- The fuel oxygenate MTBE was also detected in all four samples at concentrations of 71 µg/L (B1E), 1.1 µg/L (B2N), 260 µg/L (B3W), and 0.76 µg/L (B5C).

- Additional investigation would be required to delineate the extent of impacted groundwater at the site.

5.0 References

California Regional Water Quality Control Board – San Francisco Bay (RWQCB, 2008), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final – May 2008,* May 2008.

Environmental Resolutions, Inc. (ERI, 2006), *Work Plan for Evaluation of Groundwater, AT&T Maintenance Facility, 1189 58th Avenue, Oakland, California,* August 9, 2006.

IT Corporation (IT Corporation, 1994), *Underground Storage Tank Removal Report, Pacific Bell Facility, 1189 58th Avenue, Oakland, California,* November 1994.

IT Corporation (IT Corporation, 1995), *Quarterly Sampling Report, Pacific Bell, 1189 58th Avenue, Oakland, California,* October 1995.

Shaw Environmental, Inc. (Shaw, 2003a), *Underground Storage Tank Removal Report, SBC Facility, 1189 58th Avenue, Oakland California,* October 2003.

6.0 Signatures

The interpretations and conclusions contained in this report represent our professional opinions. These opinions are based on currently accepted engineering practices at this time and for this specific site. No additional warranty is implied or intended.

Report prepared by:

Matthew Osowski
Scientist
Shaw Environmental, Inc.

Report reviewed by:

Rob Delnagro, P.G.
California Professional Geologist
Shaw Environmental, Inc.

PROFESSIONAL GEOLOGIST
ROBERT A. DELNAGRO
No. 7793
CX4-30-09
STATE OF CALIFORNIA

The work described in this report was performed by or under the direct supervision of a State of California Professional Geologist.

TABLES

TABLE 1
Summary of Soil Sample Analytical Data
AT&T Facility
1189 58th Avenue
Oakland, California

Sample I.D.	Sample Location	Sample Depth (bsg)	Date Collected	TPH-D	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Four Fuel Oxygenates	Total Lead
				(all results reported in milligrams per kilogram)								
B4S-15	soil boring B4S	15 feet	07/03/08	$ND_{1.0}$	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.025}$	NA
B1-5	soil cuttings	---	07/03/08	**24**	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005\text{-}0.025}$	**14**
San Francisco RWQCB ESLs, deep soil impact, drinking water resource				83	83	0.044	2.9	3.3	2.3	0.023	TBA - 0.075	750
San Francisco RWQCB ESLs, deep soil impact, non-drinking water resource				180	180	2.0	9.3	4.7	11	8.4	TBA - 110	750

Notes:
bsg - below surface grade
TPH-D - total petroleum hydrocarbons as diesel
TPH-G - total petroleum hydrocarbons as gasoline
MTBE - methyl tertiary butyl ether
Four Fuel Oxygenates - di-isopropyl ether, tert-amymethyl ether, tert-butanol (TBA), and ethanol
ND_x - not detected above "x" laboratory detection limits
NA - not analyzed
San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs)
from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*
Volume 1: Summary Tier 1 Lookup Tables, Interim Final - May 2008
TPH-D ESL compared to TPH (middle distillate) value

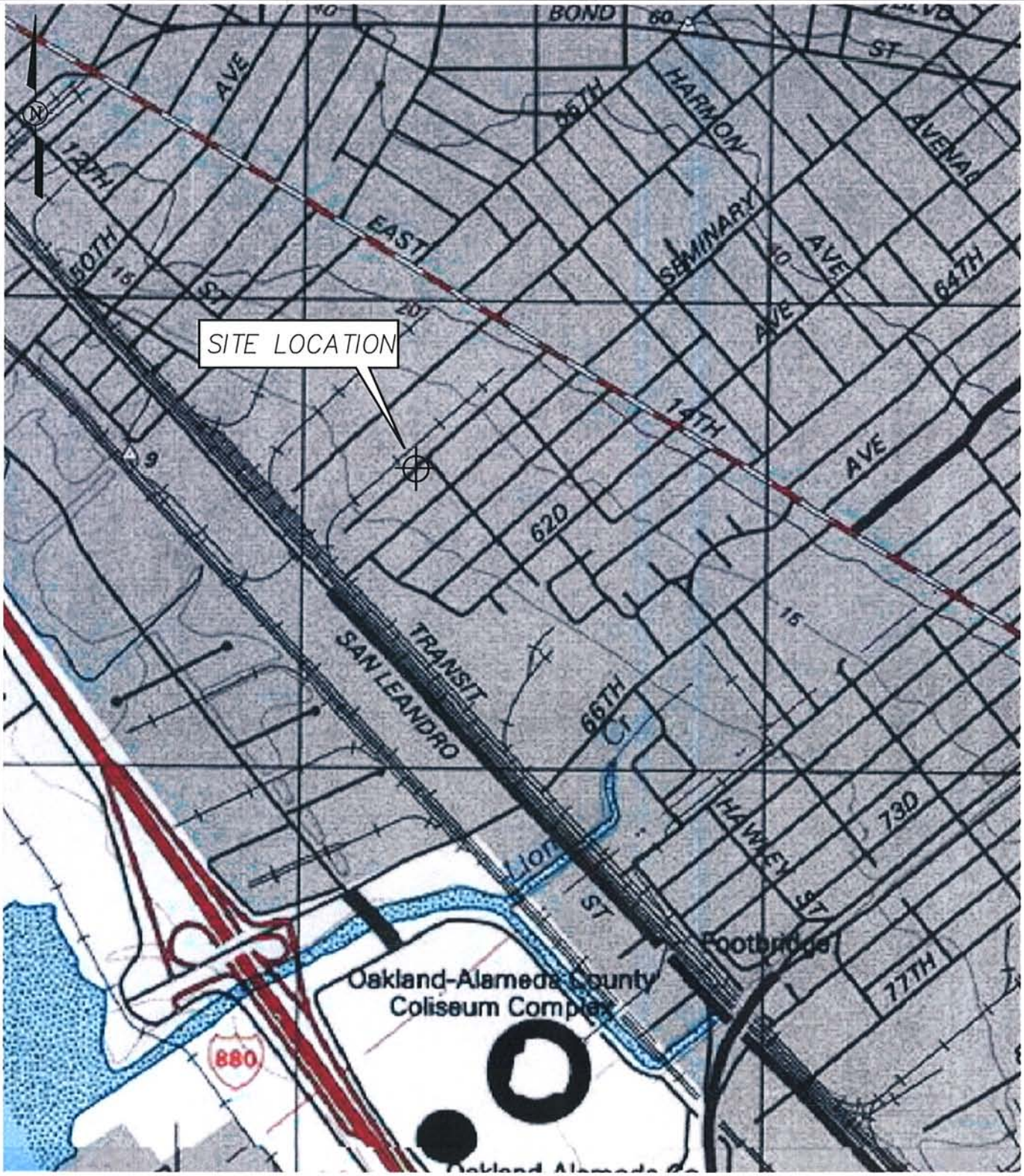
TABLE 2
Summary of Groundwater Sample Analytical Data
AT&T Facility
1189 58th Avenue
Oakland, California

Sample I.D.	Sample Location	Date Collected	TPH-D	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Four Fuel Oxygenates
			(all results reported in micrograms per liter)							
B1E	soil boring B1E	07/03/08	**120**	ND_{50}	$ND_{1.2}$	$ND_{1.2}$	$ND_{1.2}$	$ND_{1.2}$	**71**	$ND_{1.2\text{-}120}$
B2N	soil boring B2N	07/03/08	**170**	ND_{50}	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	**1.1**	$ND_{0.5\text{-}50}$
B3W	soil boring B3W	07/03/08	**68**	ND_{50}	ND_{10}	ND_{10}	ND_{10}	ND_{10}	**260**	$ND_{10\text{-}1,000}$
B5C	soil boring B5C	07/03/08	**110**	ND_{50}	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	$ND_{0.5}$	**0.76**	$ND_{0.5\text{-}50}$
San Francisco RWQCB ESLs, deep soil impact, drinking water resource			**100**	100	1.0	40	30	20	**5.0**	TBA - 12
San Francisco RWQCB ESLs, deep soil impact, non-drinking water resource			210	210	46	130	43	100	1,800	TBA - 18,000

Notes:
bsg - below surface grade
TPH-D - total petroleum hydrocarbons as diesel
TPH-G - total petroleum hydrocarbons as gasoline
MTBE - methyl tertiary butyl ether
Four Fuel Oxygenates - di-isopropyl ether, tert-amymethyl ether, tert-butanol (TBA), and ethanol
ND_x - not detected above "x" laboratory detectio
San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater Volume 1: Summary Tier 1 Lookup Tables, Interim Final - May 2008*
TPH-D ESL compared to TPH (middle distillate) value

FIGURES

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
1189-56thAve	---	Concord	R. Langston	7/9/2008	RD	7.15.08	VLO	7.15.08	130263-A22



APPROXIMATE SCALE

0 2000 4000 FEET

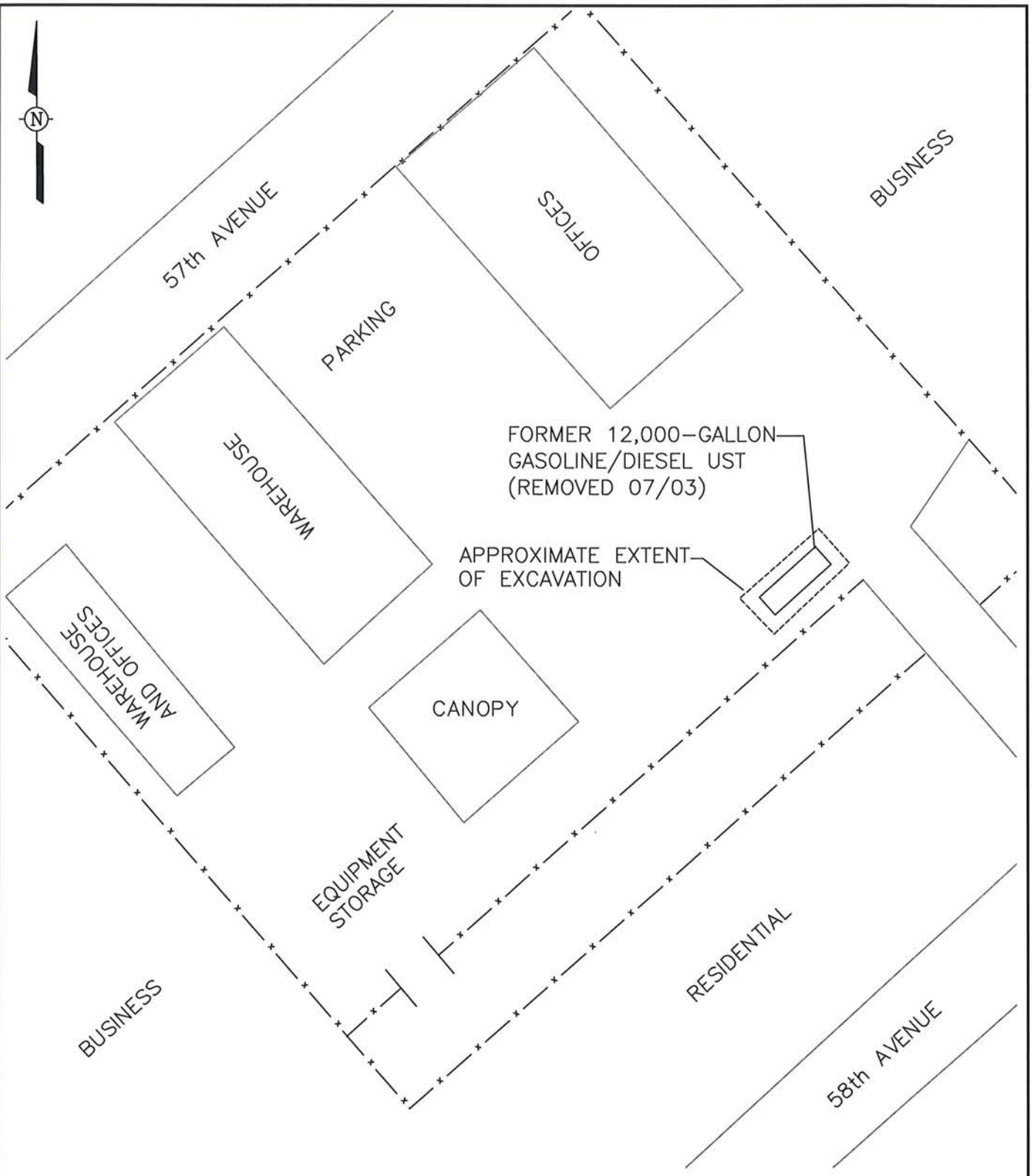
REFERENCE:
USGS 7.5' QUADRANGLE OF
OAKLAND, CALIFORNIA,
DATED: 1949, PHOTOREVISED 1973
SCALE 1:24,000

Shaw

PREPARED FOR
AT&T SERVICES INC.
DALLAS, TEXAS

FIGURE 1
SITE VICINITY MAP
AT&T FACILITY
1189 58th AVENUE
OAKLAND, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
1189-56thAve	---	Concord	R. Langston	7/9/2008	MD	7-15-08	MD	7-15-08	130263-A23



APPROXIMATE SCALE

0 2000 110 FEET

Shaw

PREPARED FOR
AT&T SERVICES INC.
DALLAS, TEXAS

FIGURE 2

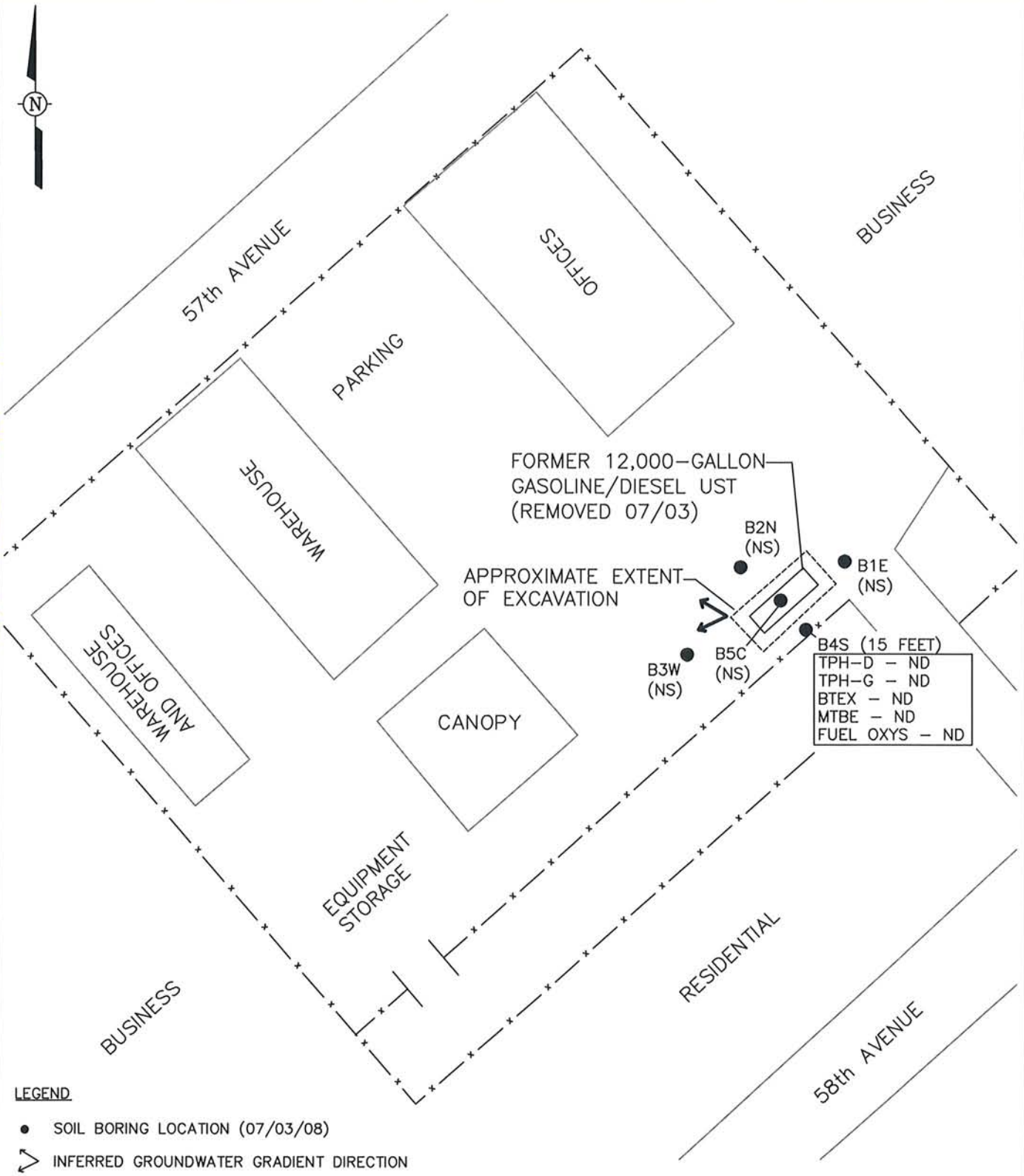
SITE PLAN

AT&T FACILITY

1189 58th AVENUE

OAKLAND, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
1189-56thAve	---	Concord	R. Langston	7/9/2008	MD	7-15-08	MD	7-15-08	130263-A26



LEGEND

- ● SOIL BORING LOCATION (07/03/08)
- INFERRED GROUNDWATER GRADIENT DIRECTION

TPH-D – TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPH-G – TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
BTEX – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
MTBE – METHYL TERTIARY BUTYL ETHER
FUEL OXYS – DI-ISOPROPYL ETHER, TERT-AMYLMETHYL ETHER, TERT-BUTANOL, AND ETHANOL
ND – NOT DETECTED
ND – NOT SAMPLED

ALL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM

APPROXIMATE SCALE

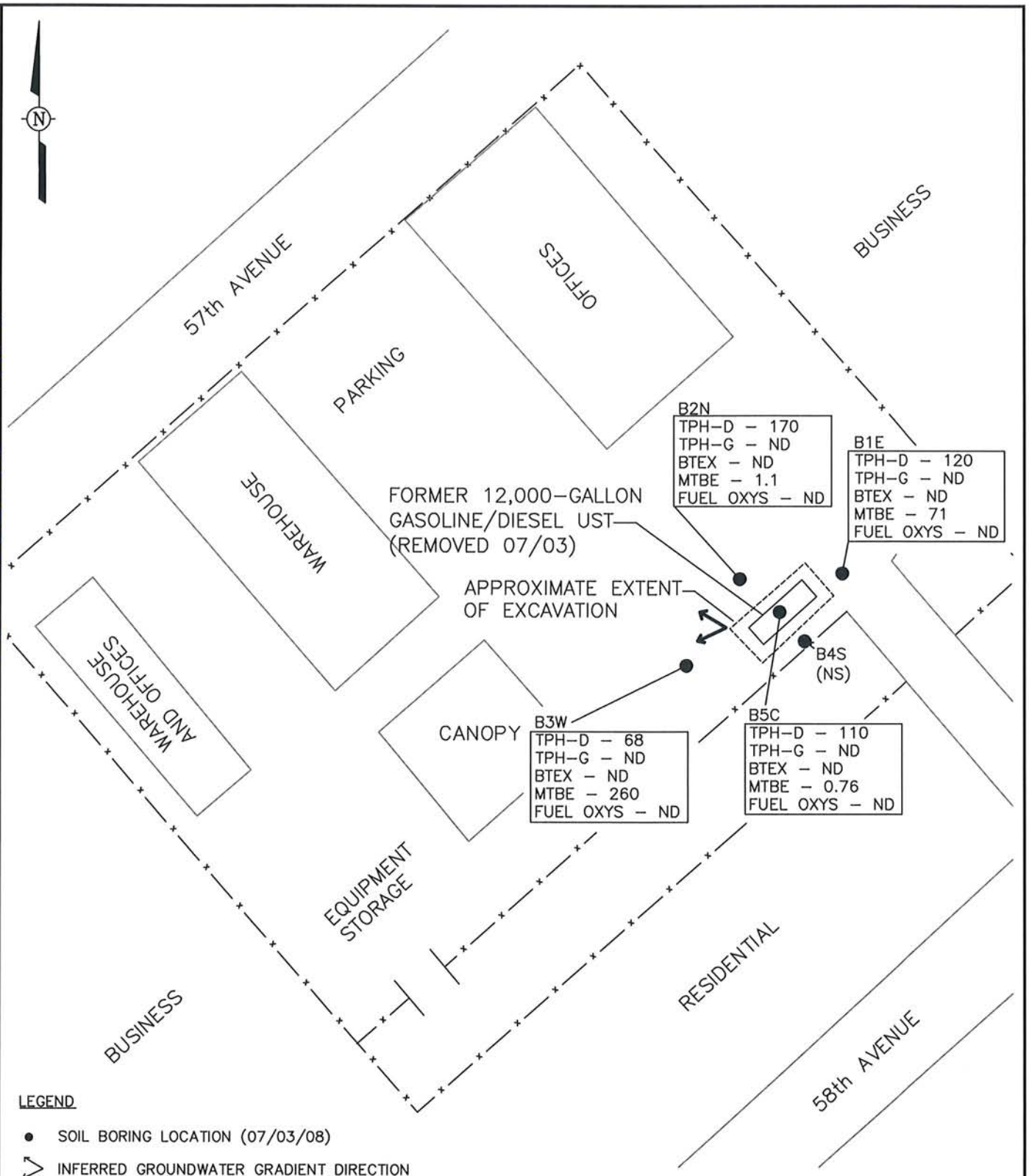
0 60 120 FEET

Shaw

PREPARED FOR
AT&T SERVICES INC.
DALLAS, TEXAS

FIGURE 3
SOIL SAMPLE ANALYTICAL DATA
AT&T FACILITY
1189 58th AVENUE
OAKLAND, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
1189-56thAve	---	Concord	R. Langston	7/9/2008	MD	7-15-08	MD	7-15-08	130263-A27



LEGEND

- SOIL BORING LOCATION (07/03/08)

INFERRED GROUNDWATER GRADIENT DIRECTION

TPH-D – TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPH-G – TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
BTEX – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
MTBE – METHYL TERTIARY BUTYL ETHER
FUEL OXYS – DI-ISOPROPYL ETHER, TERT-AMYLMETHYL ETHER, TERT-BUTANOL, AND ETHANOL
ND – NOT DETECTED
ND – NOT SAMPLED

ALL RESULTS REPORTED IN MICROGRAMS PER LITER

APPROXIMATE SCALE

0 60 120 FEET

Shaw

PREPARED FOR
AT&T SERVICES INC.
DALLAS, TEXAS

FIGURE 4
GROUNDWATER SAMPLE ANALYTICAL DATA
AT&T FACILITY
1189 58th AVENUE
OAKLAND, CALIFORNIA

APPENDIX A

APPROVAL LETTER FROM THE ACHCSA

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 29, 2008

Mr. Andy Taylor
SBC
PO Box 5095, Room 3E00K
San Ramon, CA 94583

Subject: Fuel Leak Case No. RO0002588, SBC, 1189 58th Avenue, Oakland, CA 94621

Dear Mr. Taylor:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Work Plan for Evaluation of Groundwater," dated August 9, 2006, which was prepared by Environmental Resolutions, Inc. The work plan proposes to characterize site stratigraphy up to 40 feet below ground surface and collect and analyze five groundwater samples for gasoline and diesel fuel constituents

ACEH generally concurs with the proposed scope of work and requests that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. **Gasoline Analytes** – In addition to the proposed testing for BTEX and MTBE, please include analyses for TBA, DIPE, TAME, and ethanol.

REQUEST FOR INFORMATION

ACEH's case file for the subject site contains only the electronic reports as listed on our website (http://www.acgov.org/aceh/lop/ust.htm). You are requested to submit copies of all other reports related to environmental investigations for this property by **July 15, 2008**.

LANDOWNER NOTIFICATION REQUIREMENTS

Pursuant to California Health & Safety Code Section 25297.15, the active or primary responsible party for a fuel leak case must inform all current property owners of the site of cleanup actions or requests for closure. Furthermore, ACEH may not consider any cleanup proposals or requests for case closure without assurance that this notification requirement has been met. Additionally, the active or primary responsible party is required to forward to ACEH a complete mailing list of all record fee title holders to the site.

At this time we require that you submit a complete mailing list of all record fee title owners of the site by May 15, 2008, which states, at a minimum, the following:

> *A. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:*
>
> *- OR -*
>
> *B. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.*
>
> *(Note: Complete item A if there are multiple site landowners. If you are the sole site landowner, skip item A and complete item B.)*

In the future, for you to meet these requirements when submitting cleanup proposals or requests for case closure, ACEH requires that you:

> 1. Notify all current record owners of fee title to the site of any cleanup proposals or requests for case closure;
> 2. Submit a letter to ACEH which certifies that the notification requirement in 25297.15(a) of the Health and Safety Code has been met;
> 3. Forward to ACEH a copy of your complete mailing list of all record fee title holders to the site; and
> 4. Update your mailing list of all record fee title holders, and repeat the process outlined above prior to submittal of any additional *Corrective Action Plan* or your *Request for Case Closure.*
>
> Your written certification to ACEH (Item 2 above) must state, at a minimum, the following:
>
> > *A. In accordance with Section 25297.15(a) of the Health & Safety Code, I, (name of primary responsible party), certify that I have notified all responsible landowners of the enclosed proposed action. (Check space for applicable proposed action(s)):*
> > *___ cleanup proposal (Corrective Action Plan)*
> > *___ request for case closure*
> > *___ local agency intention to make a determination that no further action is required*
> > *___ local agency intention to issue a closure letter*
> >
> > *- OR -*
> >
> > *B. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.*
> >
> > *(Note: Complete item A if there are multiple site landowners. If you are the sole site landowner, skip item A and complete item B.)*

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Paresh Khatri), according to the following schedule:

- **July 15, 2008** – Groundwater Investigation

This report is being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements
(http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call Paresh Khatri at (510) 777-2478.

Sincerely,

Paresh C. Khatri
Hazardous Material Specialist

Donna L. Drogos, PE
LOP Program Manager
Alameda County Environmental Health

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032
John Bobitt, PG. Environmental Resolutions, Inc., 601 McDowell Avenue, Petaluma, CA 94964
Dennis Parfitt, PG, SWRCB UST Program, 1001 I Street 17th Floor, Sacramento, CA 95814
Donna Drogos, ACEH
Paresh Khatri, ACEH
file RO0002588

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.** (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

APPENDIX B

SOIL BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/24/2008 By jamesy

Permit Numbers: W2008-0388
Permits Valid from 07/03/2008 to 07/03/2008

Application Id: 1214237736812
City of Project Site: Oakland
Site Location: 1189 58th Avenue, Oakland, CA
Project Start Date: 07/03/2008
Completion Date: 07/03/2008
Requested Inspection: 07/03/2008
Scheduled Inspection: 07/03/2008 at 1:30 PM (Contact your inspector, Ron Smalley at (510) 670-5407, to confirm.)

Applicant: Shaw Environmental - Rob Delnagro
4005 Port Chicago Hwy., Concord, CA 94520
Phone: 925-288-2103

Property Owner: AT &T
308 South Akard, Rm 1700, Dallas, TX 75202
Phone: 214-464-5226

Client: ** same as Property Owner **

	Total Due:	$200.00
Receipt Number: WR2008-0223	**Total Amount Paid:**	$200.00
Payer Name : Robert Delnagro	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes
Driller: Greg Drilling & Testing - Lic #: 485165 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008-0388	06/24/2008	10/01/2008	5	2.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 or email to ronaldws@acpwa.org at least

five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:
399 Elmhurst Street
Hayward, CA 94544
For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org
For Drilling Permit information and process contact James Yoo at
Phone: 510-670-6633
FAX: 510-782-1939
Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88 . The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460
Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460
Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000
Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of **Oakland, Alameda,Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley**, and **Hayward** . The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application *(30 Kb)** , along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees
Beginning April 11, 2005 , the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost $300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost $200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects
Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:
Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when Inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

Request for Permit Extension:
Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:
Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:
A service charge of $25.00 dollars for the first check returned and $35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of $50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed $500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is $1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under $500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement
Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars ($500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENT

McCampbell 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

Shaw Environmental 4005 Port Chicago Hwy Concord, CA 94520	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
		Date Received: 07/03/08
	Client Contact: Rob Delnagro	Date Reported: 07/11/08
	Client P.O.:	Date Completed: 07/11/08

WorkOrder: 0807122

July 11, 2008

Dear Rob:

Enclosed within are:

1) The results of the **6** analyzed samples from your project: **#130263.12; AT&T Oakland,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCampbell 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

Shaw Environmental	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
		Date Received: 07/03/08
4005 Port Chicago Hwy	Client Contact: Rob Delnagro	Date Extracted: 07/03/08
Concord, CA 94520	Client P.O.:	Date Analyzed 07/08/08-07/11/08

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C/SW3550C Analytical methods: SW8015C Work Order: 0807122

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0807122-001A	B2N	W	170,e7,e2,b1	1	99
0807122-002A	B3W	W	68,e7,e2,b1	1	98
0807122-003A	B1E	W	120,e7,e2,b1	1	107
0807122-004A	B5C	W	110,e2,b1	1	99
0807122-005A	B4S-15	S	ND	1	119
0807122-007A	B1-5	S	24,e7	20	92

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* 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:

b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell 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

Shaw Environmental	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
		Date Received: 07/03/08
4005 Port Chicago Hwy	Client Contact: Rob Delnagro	Date Extracted: 07/03/08-07/10/08
Concord, CA 94520	Client P.O.:	Date Analyzed 07/04/08-07/10/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0807122

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	B2N	W	ND,b1	1	96
002A	B3W	W	ND,b1	1	100
003A	B1E	W	ND,b1	1	100
004A	B5C	W	ND,b1	1	98
005A	B4S-15	S	ND	1	81
007A	B1-5	S	ND	1	88

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/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 w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Shaw Environmental	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
		Date Received: 07/03/08
4005 Port Chicago Hwy	Client Contact: Rob Delnagro	Date Extracted: 07/10/08
Concord, CA 94520	Client P.O.:	Date Analyzed 07/10/08

Oxygenates and BTEX + Ethanol by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807122

Lab ID	0807122-001B	0807122-002B	0807122-003B	0807122-004B	Reporting Limit for DF =1	
Client ID	B2N	B3W	B1E	B5C		
Matrix	W	W	W	W		
DF	1	20	2.5	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND<10	ND<1.2	ND	NA	0.5
Benzene	ND	ND<10	ND<1.2	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND<40	ND<5.0	ND	NA	2.0
Diisopropyl ether (DIPE)	ND	ND<10	ND<1.2	ND	NA	0.5
Ethanol	ND	ND<1000	ND<120	ND	NA	50
Ethylbenzene	ND	ND<10	ND<1.2	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	1.1	260	71	0.76	NA	0.5
Toluene	ND	ND<10	ND<1.2	ND	NA	0.5
Xylenes	ND	ND<10	ND<1.2	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	97	99	99	98		
%SS2:	104	103	103	104		
%SS3:	111	112	114	117		
Comments	b1	b1	b1	b1		

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Shaw Environmental	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
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4005 Port Chicago Hwy	Client Contact: Rob Delnagro	Date Extracted: 07/03/08
Concord, CA 94520	Client P.O.:	Date Analyzed 07/10/08

Oxygenates and BTEX + Ethanol by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0807122

Lab ID	0807122-005A	0807122-007A			Reporting Limit for DF =1	
Client ID	B4S-15	B1-5				
Matrix	S	S				
DF	1	1			S	W
Compound	**Concentration**				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND			0.005	NA
Benzene	ND	ND			0.005	NA
t-Butyl alcohol (TBA)	ND	ND			0.05	NA
Diisopropyl ether (DIPE)	ND	ND			0.005	NA
Ethanol	ND	ND			0.25	NA
Ethylbenzene	ND	ND			0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND			0.005	NA
Toluene	ND	ND			0.005	NA
Xylenes	ND	ND			0.005	NA
Surrogate Recoveries (%)						
%SS1:	97	98				
%SS2:	106	106				
%SS3:	117	118				
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.

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Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Shaw Environmental	Client Project ID: #130263.12; AT&T Oakland	Date Sampled: 07/03/08
4005 Port Chicago Hwy		Date Received: 07/03/08
	Client Contact: Rob Delnagro	Date Extracted: 07/03/08
Concord, CA 94520	Client P.O.:	Date Analyzed: 07/07/08

Lead by ICP*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0807122

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0807122-007A	B1-5	S	TOTAL	14	1	98

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

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

DHS ELAP Certification 1644

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0807122

EPA Method SW8015Cm	Extraction SW5030B				BatchID: 36684				Spiked Sample ID: 0807117-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	92.4	101	8.93	108	92	15.7	70 - 130	20	70 - 130	20
MTBE	ND	0.10	102	112	9.19	100	110	9.19	70 - 130	20	70 - 130	20
Benzene	ND	0.10	98.3	105	6.51	106	105	0.619	70 - 130	20	70 - 130	20
Toluene	ND	0.10	98.1	103	5.29	95.2	92.3	3.03	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	104	110	5.49	106	101	5.28	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	117	123	5.00	105	100	4.64	70 - 130	20	70 - 130	20
%SS:	118	0.10	90	95	5.60	77	71	8.01	70 - 130	20	70 - 130	20

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

NONE

BATCH 36684 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-005A	07/03/08 10:30 AM	07/03/08	07/04/08 4:40 PM	0807122-007A	07/03/08 11:30 AM	07/03/08	07/04/08 5:10 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0807122

EPA Method SW8015Cm	Extraction SW5030B				BatchID: 36735				Spiked Sample ID: 0807109-003A			
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
TPH(btex)£	ND	60	95.6	92.4	3.35	98	94.9	3.21	70 - 130	20	70 - 130	20
MTBE	ND	10	107	120	11.4	110	99.4	9.65	70 - 130	20	70 - 130	20
Benzene	ND	10	95.5	108	12.0	95	99.6	4.80	70 - 130	20	70 - 130	20
Toluene	ND	10	86.9	95.8	9.79	95.5	97.1	1.63	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	95.9	106	10.3	98.3	103	4.70	70 - 130	20	70 - 130	20
Xylenes	ND	30	95.3	102	7.21	115	114	0.960	70 - 130	20	70 - 130	20
%SS:	92	10	95	96	1.14	86	85	1.30	70 - 130	20	70 - 130	20

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

NONE

BATCH 36735 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-001A	07/03/08 12:00 PM	07/07/08	07/07/08 3:48 PM	0807122-002A	07/03/08 12:20 PM	07/07/08	07/07/08 4:19 PM
0807122-003A	07/03/08 12:40 PM	07/09/08	07/09/08 11:36 PM	0807122-004A	07/03/08 12:55 PM	07/10/08	07/10/08 12:07 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0807122

EPA Method SW8015C	Extraction SW3510C				BatchID: 36671			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	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	98.7	99.9	1.20	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	105	106	0.536	N/A	N/A	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 36671 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-001A	07/03/08 12:00 PM	07/03/08	07/09/08 8:32 PM	0807122-002A	07/03/08 12:20 PM	07/03/08	07/09/08 9:44 PM
0807122-003A	07/03/08 12:40 PM	07/03/08	07/11/08 10:42 AM	0807122-004A	07/03/08 12:55 PM	07/03/08	07/11/08 1:01 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.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0807122

EPA Method SW8260B	Extraction SW5030B				BatchID: 36724			Spiked Sample ID: 0807018-001B				
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
Benzene	ND	10	107	106	1.05	110	109	0.617	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	118	118	0	111	115	2.88	70 - 130	30	70 - 130	30
Toluene	ND	10	101	101	0	104	101	2.45	70 - 130	30	70 - 130	30
%SS1:	100	25	100	100	0	102	103	0.432	70 - 130	30	70 - 130	30
%SS2:	100	25	102	102	0	110	108	1.25	70 - 130	30	70 - 130	30
%SS3:	113	25	115	114	1.17	112	109	2.05	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 36724 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-001B	07/03/08 12:00 PM	07/10/08	07/10/08 6:30 PM	0807122-002B	07/03/08 12:20 PM	07/10/08	07/10/08 7:49 PM
0807122-003B	07/03/08 12:40 PM	07/10/08	07/10/08 9:44 PM	0807122-004B	07/03/08 12:55 PM	07/10/08	07/10/08 10:23 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 ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0807122

EPA Method SW8260B	Extraction SW5030B				BatchID: 36729			Spiked Sample ID: 0807114-002A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	ND	0.050	84	83.7	0.358	104	100	3.63	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	84.7	84.3	0.404	107	104	2.70	60 - 130	30	60 - 130	30
Toluene	ND	0.050	90.1	88.9	1.33	108	101	6.55	60 - 130	30	60 - 130	30
%SS1:	99	0.12	95	95	0	94	95	1.06	70 - 130	30	70 - 130	30
%SS2:	105	0.12	99	98	0.543	98	97	0.556	70 - 130	30	70 - 130	30
%SS3:	110	0.12	100	99	1.37	97	96	0.299	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 36729 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-005A	07/03/08 10:30 AM	07/03/08	07/10/08 11:03 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.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0807122

EPA Method SW8260B	Extraction SW5030B				BatchID: 36732				Spiked Sample ID: 0807099-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	ND	0.050	84	84.1	0.0710	103	103	0	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	85.4	85.6	0.247	101	103	1.66	60 - 130	30	60 - 130	30
Toluene	ND	0.050	88.7	89	0.331	104	104	0	60 - 130	30	60 - 130	30
%SS1:	102	0.12	94	95	0.927	93	94	0.472	70 - 130	30	70 - 130	30
%SS2:	104	0.12	97	98	1.11	97	98	0.439	70 - 130	30	70 - 130	30
%SS3:	97	0.12	99	97	1.61	96	98	2.58	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 36732 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-007A	07/03/08 11:30 AM	07/03/08	07/10/08 11:41 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.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0807122

EPA Method SW8015C	Extraction SW3550C				BatchID: 36742				Spiked Sample ID: 0807112-040A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	97.2	95.8	1.39	100	100	0	70 - 130	30	70 - 130	30
%SS:	97	50	98	115	15.5	107	108	0.511	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 36742 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-005A	07/03/08 10:30 AM	07/03/08	07/09/08 4:24 AM	0807122-007A	07/03/08 11:30 AM	07/03/08	07/08/08 11:52 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.

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QA/QC Officer

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0807122

EPA Method 6010C **Extraction SW3050B** **BatchID: 36745** **Spiked Sample ID 0807112-041A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	ND	50	103	99	3.81	10	104	103	1.74	75 - 125	20	80 - 120	20
%SS:	97	250	99	100	1.35	250	101	103	1.77	70 - 130	20	70 - 130	20

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

BATCH 36745 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807122-007A	)7/03/08 11:30 AM	07/03/08	07/07/08 5:15 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.

N/A = not applicable to this method.

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.

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Sample Receipt Checklist

Client Name: **Shaw Environmental**

Date and Time Received: **07/03/08 7:15:29 PM**

Project Name: **#130263.12; AT&T Oakland**

Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0807122** Matrix Soil/Water

Carrier: Rob Pringle (MAI 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: 5.9°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 ☑

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0807122 **ClientCode: SHAW**

☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Rob Delnagro
Shaw Environmental
4005 Port Chicago Hwy
Concord, CA 94520
925-288-9898 FAX 925-288-2359

Email: rob.delnagro@shawgrp.com
cc:
PO:
ProjectNo: #130263.12; AT&T Oakland

Bill to:
Accounts Payable
Shaw Environmental & Infrastructure
P.O. Box 98519
Baton Rouge, LA 70884
apinvoices@shawgrp.com

Requested TAT: 5 days

Date Received: **07/03/2008**
Date Printed: **07/03/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0807122-001	B2N	Water	7/3/2008 12:00	☐		A		B								
0807122-002	B3W	Water	7/3/2008 12:20	☐		A		B								
0807122-003	B1E	Water	7/3/2008 12:40	☐		A		B								
0807122-004	B5C	Water	7/3/2008 12:55	☐		A		B								
0807122-005	B45-15	Soil	7/3/2008 10:30	☐	A		A									
0807122-007	B1-5	Soil	7/3/2008 11:30	☐	A		A		A							

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	MBTEX-8260B_S	4	MBTEX-8260B_W	5	PB_S
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 007A contain testgroup.

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

080722

CHAIN OF CUSTODY RECORD

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

EDF Required? Coelt (Normal) NO Write On (DW) No

Report To: Rob Delnagro	**Bill To:** same
Company: Shaw Environmental, Inc.	
4005 Port Chicago Highway	
Concord, CA 94520	**E-Mail:** rob.delnagro@shawgrp.com
Tele: (925) 288-2103	**Fax:** (925) 827-2029
Project #: ~~129033.08~~ 120263.12	**Project Name:** AT&T – ~~Highland~~ OAKLAND
Project Location: ~~26840 Base Line, Highland, CA~~ 1189 57TH ST. OAKLAND	
Sampler Signature: JOE STRACK Joe Strack	

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	TPH as Gas (8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020) +MTBE (8260B)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (~~200.8~~ / 6010)	Other: tbn, dipe, tame, etbe, tame	Comments
+1 B2N	BORE 2 20 FT.	7-3-08	1200	6	4 VOA 2 AMB	X					X	X			X	X				X											X	
+2 B3W	BORE 3 20 FT.	7-3-08	1220	5	4 VOA 1 LITER	X					X	X			X	X				X											X	
+1 B1E	BORE 1 20 FT.	7-3-08	1240	5	4 VOA 1 LITER	X					X	X			X	X				X											X	
+1 B5C	BORE 5 20 FT.	7-3-08	1255	5	4 VOA 1 LITER	X					X	X			X	X				X											X	
B4S-15	BORE 4 SOIL 15'	7-3-08	1030	1	TUBE		X				X				X	X				X											X	
B4S-20	BORE 4 SOIL 20'	7-3-08	1040	1	TUBE		X				X				*	*				*												
B1-5	WASTE SOIL PROFILE	7-3-08	1130	1	TUBE		X				X				X	X				X										X	X	

	Relinquished By:	Date:	Time:	Received By:
	Joe Strack	7-3-08	1600	
	Relinquished By:	Date: 7/3/8	Time: 430	Received By:
	Relinquished By:	Date: /	Time:	Received By:

ICE/t° 5.9°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB N/A
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓

PRESERVATION	VOAs	O&G	METALS pH<2	OTHER
	✓			

COMMENTS:
B4S-20 ON HOLD PENDING ANALYSIS OF B4S-15 CONTACT ROB DELNAGRO

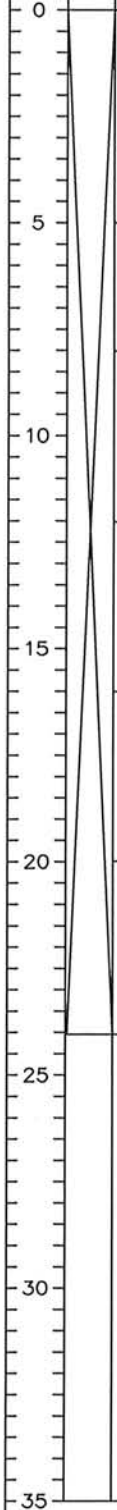
APPENDIX D

SOIL BORING LOGS

BORING NO. B1E

COORDINATES: N. _____ E. _____

FIELD GEOLOGIST J. Strack — DATE BEGAN 7/3/08
CHECKED BY _____ — DATE FINISHED 7/3/08
APPROVED BY _____ — RIM ELEVATION _____
TOTAL DEPTH 24.0 ft. — CORE SIZE _____



SAMPLE NUMBER	RECOVERY	P.I.D.	DRILLING REMARKS	USCS	PROFILE	DESCRIPTION
	Hand Auger	0.0ppm		fill		Asphalt surface/fill material — 6"
				CH		Fat Clay: bluish black (SB 2.5/1) to dark grayish brown (SB 2.5/2), moist to slightly moist, stiff. high plasticity. — 6.5'
	100%	12.1ppm		CL		Sandy Clay: olive brown (2.5Y 4/3). slightly moist, stiff, medium plasticity. — 9.0'
	100%	2.7ppm		CL		Clay: dark gray (5Y 4/1), moist, stiff, low plasticity, up to 10% to fine to medium sand.
	90%	0.0ppm				
	100%	0.0ppm				Stiff to very stiff from 15 ft. to 19ft.
	100%	0.0ppm				GROUNDWATER AT 19 ft. BSG. — 20.0'
						Total Depth: 24ft.

DRILLER : Armando
DRILLING CO. : Gregg Drilling
DRILLING METHOD : Direct Push, Hand Auger to 5'
SAMPLING METHOD : 48" Line Core Samplers
PROJECT : AT&T – Oakland
LOCATION : 1189 58th Ave. Oakland, CA
PROJECT NO. : 130263

DRAWN BY	R. Langston	CHECKED BY	AD 7-15-08
DATE	7/3/08	APPROVED BY	RD 7-15-08

DRAWING NO. : 130263–A28

Shaw

BORING NO. B2N

COORDINATES: N. _____ E. _____

FIELD GEOLOGIST J. Strack | DATE BEGAN 7/3/08
CHECKED BY _____ | DATE FINISHED 7/3/08
APPROVED BY _____ | RIM ELEVATION _____
TOTAL DEPTH 20.0 ft. | CORE SIZE _____

DEPTH IN FEET	SAMPLE NUMBER	RECOVERY	P.I.D.	DRILLING REMARKS	USCS	PROFILE	DESCRIPTION
0		Hand Auger	0.0ppm		fill		Asphalt surface/fill material 6"
					CH		Fat Clay: bluish black (SB 2.5/1), moist to slightly moist, stiff. high plasticity. 7.0'
5		100%	0.0ppm		CL		Clay: dark green (56Y 4/1), slightly moist, stiff, medium plasticity. 11.0'
10		100%	0.0ppm		CL		Clay with silt: olive gray (5Y 4/1), slightly moist, stiff, low plasticity. Groundwater at 16 feet. Very soft from 16 feet to 20 feet. 20.0'
15		50%	0.0ppm				
		10%	0.0ppm				
20							Total Depth: 20 ft.
25							
30							
35							

DRILLER : Armando
DRILLING CO. : Gregg Drilling
DRILLING METHOD : Direct Push, Hand Auger to 5'
SAMPLING METHOD : 48" Line Core Samplers
PROJECT : AT&T – Oakland
LOCATION : 1189 58th Ave. Oakland, CA
PROJECT NO. : 130263

DRAWN BY	R. Langston	CHECKED BY	RLD 7-15-08	DRAWING NO. : 130263-A30
DATE	7/3/08	APPROVED BY	RLD 7-15-08	

Shaw

BORING NO. B3W

COORDINATES: N. _____ E. _____

FIELD GEOLOGIST J. Strack — DATE BEGAN 7/3/08
CHECKED BY _____ — DATE FINISHED 7/3/08
APPROVED BY _____ — RIM ELEVATION _____
TOTAL DEPTH 20.0 ft. — CORE SIZE _____

DEPTH IN FEET	SAMPLE NUMBER	RECOVERY	P.I.D.	DRILLING REMARKS	USCS	PROFILE	DESCRIPTION
0					fill		Asphalt surface/fill material — 6"
		HAND AUGER	0.003'		CL		Clay: bluish black to dark grayish brown (5B 2.5/1)–2.5Y 4/2), slightly moist, stiff to very stiff, medium plasticity, slight hydrocarbon odor 3 ft. to 5 ft.
5			0.005'				5.0'
		30/36	0.007'		CL		Clay: olive gray (5Y 5/25), SL. moist to moist, stiff, low to medium plasticity.
10		48/48	0.0010'				
		48/48	0.0013'				Becomes soft at 13 ft. Claywith silt: very pale brown (10YR 7/4), slightly moist, very stiff to hard non plastic, silt decreases. At 14 ft.becomes soft, moist, low to med. plastivity. — 14.0'
15					CL		At 15 ft. :Clay: Lt. yellow brown (2.5Y 6/3), moist, stiff, med. plasticity. trace sand and pebbles. Becomes soft at 20 ft. — 15.0'
			0.0013'				
		48/48	0.0018'				20.0'
20							Total Depth: 20ft.
25							
30							
35							

DRILLER : Armando
DRILLING CO. : Gregg Drilling
DRILLING METHOD : Direct Push, Hand Auger to 5'
SAMPLING METHOD : 48" Line Core Samplers
PROJECT : AT&T – Oakland
LOCATION : 1189 58th Ave. Oakland, CA
PROJECT NO. : 130263

DRAWN BY	R. Langston	CHECKED BY	RD 7-15-08	DRAWING NO. : 130263–A24
DATE	7/3/08	APPROVED BY	RD 7-15-08	

Shaw

BORING NO. B4S

COORDINATES: N. _____ E. _____

FIELD GEOLOGIST J. Strack — DATE BEGAN 7/3/08
CHECKED BY _____ — DATE FINISHED 7/3/08
APPROVED BY _____ — RIM ELEVATION _____
TOTAL DEPTH 20.0 ft. — CORE SIZE _____

DEPTH IN FEET	SAMPLE NUMBER	RECOVERY	P.I.D.	DRILLING REMARKS	USCS	PROFILE	DESCRIPTION
0					fill		Asphalt surface/fill material 6"
		Hand Auger	0.0ppm		CL		Clay: bluish black to dark brown, slightly moist, stiff, medium plasticity. 4.0'
5		100%	0.0ppm		CL		Clay: olive gray (5Y 4/3), slightly moist, medium stiff to stiff, medium plasticity.
10		100%	0.0ppm				
		100%	0.0ppm				14.5'
15	B4S-15		0.0ppm		CL		Clay: light yellow brown (2.5Y 5/4), slightly moist, stiff, medium plasticity, trace sand and round pebbles. Contains sand, pebbles and shell fragments near 16ft. Becomes wet 16.5 to 17 ft.
	B4S-20	100%	0.0ppm				20.0'
20							Total Depth: 20ft.
25							
30							
35							

DRILLER : Armando
DRILLING CO. : Gregg Drilling
DRILLING METHOD : Direct Push, Hand Auger to 15'
SAMPLING METHOD : 48" Line Core Samplers
PROJECT : AT&T – Oakland
LOCATION : 1189 58th Ave. Oakland, CA
PROJECT NO. : 130263

DRAWN BY	R. Langston	CHECKED BY	RD 7-15-08	DRAWING NO. : 130263-A25
DATE	7/3/08	APPROVED BY	RD 7-15-08	

Shaw

BORING NO. B5C

COORDINATES: N. _____ E. _____

FIELD GEOLOGIST J. Strack | DATE BEGAN 7/3/08
CHECKED BY _____ | DATE FINISHED 7/3/08
APPROVED BY _____ | RIM ELEVATION _____
TOTAL DEPTH 24.0 ft. | CORE SIZE _____

DEPTH IN FEET	SAMPLE NUMBER	RECOVERY	P.I.D.	DRILLING REMARKS	USCS	PROFILE	DESCRIPTION
0					Asph	Asph	Asphalt surface 6"
		Hand Auger	0.0 ppm		fill		Fill: pea gravel with fines compacted dry
5		50%	0.0 ppm				
10		50%					
15		50%					Saturated PEA gravel 14 to 15 ft. 15.0'
		100%			CL		Clay with sand: olive gray (5Y 4/2), moist to very moist, stiff, medium plasticity, up to 10% fine sand, moderate hydrocarbon odor. 17.0'
20		Hydro-punch					No core this interval; hydropunch from 21 feet to 24 feet bsg. 24.0
25							Total Depth: 24.0 ft.
30							
35							

DRILLER : Armando
DRILLING CO. : Gregg Drilling
DRILLING METHOD : Direct Push, Hand Auger to 5'
SAMPLING METHOD : 48" Line Core Samplers
PROJECT : AT&T – Oakland
LOCATION : 1189 58th Ave. Oakland, CA
PROJECT NO. : 130263.12

DRAWN BY	R. Langston	CHECKED BY	RD 7-15-08	DRAWING NO. : 130263-A29
DATE	7/3/08	APPROVED BY	RD 7-15-08	

Shaw