

ENVIRONMENTAL RESOLUTIONS, INC.

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Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

DATE: August 9, 2006
PROJECT NUMBER: 26730301
SUBJECT: AT&T Maintenance Facility
1189 58th Avenue, Oakland,
California

FROM: Mr. Glenn L. Matteucci
TITLE: Project Manager

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COPIES	DATED	DESCRIPTION
1	August 9, 2006	Work Plan for Evaluation of Groundwater

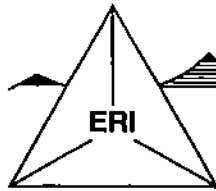
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REMARKS: At the request of AT&T Environmental Management (AT&T), Environmental Resolutions, Inc. (ERI) is forwarding one copy of the above-referenced document. Please call me at (707) 766-2000 with any questions or comments.

SCANNED
Glenn L. Matteucci
Glenn L. Matteucci, Project Manager
IMAGE

cc: Ms. Louise Delano, AT&T Environmental Management
Mr. James Stehr, AT&T
1 copy to ERI project file 26730301



ENVIRONMENTAL RESOLUTIONS, INC.

**Work Plan for Evaluation of Groundwater
AT&T Oakland Maintenance Facility
1189 58th Avenue
Oakland, California**

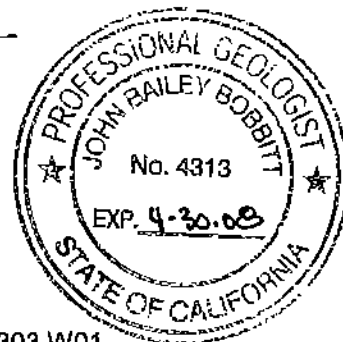
Prepared For:

AT&T Services, Inc. Environmental Management
303 South Akard Street, Room 900
Dallas, Texas 75202

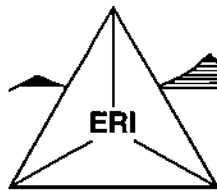
Prepared By:

Environmental Resolutions, Inc.
601 North McDowell Boulevard
Petaluma, California 94954

~~SCANNED~~
Glenn L. Matteucci
Project Manager
~~IMAGE~~
John B. Bobbitt, P.G. 4313



Environmental Resolutions, Inc. Project No. 267303.W01
August 9, 2006



ENVIRONMENTAL RESOLUTIONS, INC.

August 9, 2006
ERI 267303.W01

Ms. Louise Delano, P.G.
AT&T Services, Inc.
Environmental Management
308 Akard Street, Room 900
Dallas, Texas 75202

SUBJECT: Work Plan for Evaluation of Groundwater
AT&T Maintenance Facility,
1189 58th Avenue, Oakland, California.

Ms. Delano:

At the request of AT&T Services, Inc., Environmental Management (AT&T), Environmental Resolutions, Inc. (ERI) has prepared this Work Plan describing the proposed scope of work related to an evaluation of groundwater beneath the subject site. The purpose of this work is to evaluate the lateral and vertical extent of dissolved-phase hydrocarbons detected in water present in the underground storage tank (UST) cavity during removal of the UST. The scope of work includes advancing five on-site soil borings; collecting groundwater samples from the borings; and submitting the samples for laboratory analysis.

BACKGROUND

The site (Assessor's Parcel Number [APN] 041-3886-049) is located approximately 0.8 mile east of the San Francisco Bay, northwest of 58th Avenue and Trevis Street in Oakland, California, as shown on the Site Vicinity Map (Plate 1). The locations of the former underground storage tank (UST) and select site features are shown on the Generalized Site Plan (Plate 2). The site lies at an elevation of approximately 10 feet above mean sea level (msl).

ERI understands the facility is operated as a telecommunications center and motor pool and maintenance yard to support AT&T operations and historically included former vehicle fleet fueling facilities. These fueling facilities were removed in July 2003. Properties south and east of the site are occupied by residential developments. Properties north and west of the site are occupied by industrial and commercial developments.

During July 2003, Shaw Environmental, Inc. (SEI), observed Balch Petroleum Contractors and Builders, Inc. (Balch) remove one 12,000-gallon dual chamber gasoline/diesel UST and associated piping from the site (SEI, October 2003). Laboratory analysis of four soil samples collected from the sidewalls of the UST excavation at approximately 9 feet below ground surface (fbgs) and one composite soil sample collected from the removed backfill material did not detect residual phase hydrocarbons or related constituents in reportable concentrations except for methyl tertiary butyl ether (MTBE) detected at 0.079 milligrams per kilogram (mg/kg) in the sample collected from the southern wall of the UST excavation. Laboratory analysis results for soil samples are provided in Table 1. Laboratory analysis of water samples collected from the UST excavation following dewatering and recharge detected dissolved-phase hydrocarbons and related constituents including total petroleum hydrocarbons as diesel (TPHd) at 190 micrograms per liter ($\mu\text{g/L}$), total petroleum hydrocarbons as gasoline (TPHg) at 1,600 $\mu\text{g/L}$, methyl tertiary butyl ether (MTBE) at 1,800 $\mu\text{g/L}$, and benzene at 51 $\mu\text{g/L}$. Laboratory analysis results for groundwater samples are provided in Table 2.

Following completion of UST removal and compliance soil and water sampling, Balch backfilled the excavation with the original backfill material (approximately 350 cubic yards) and imported fill material.

PROPOSED WORK

ERI proposes to evaluate groundwater conditions in the vicinity of the former UST. ERI will perform fieldwork in accordance with ERI's standard field protocol (Attachment A) and ERI's site-specific health and safety plan. ERI will perform the following tasks:

Task 1: Permitting/Predrilling

As part of this task, ERI will:

- Prepare and submit a drilling permit application to the Alameda County Department of Health, Environmental Health Services (County) to advance soil borings B1 through B5.
- Perform a site visit to mark proposed soil boring locations for utility clearance.
- Contact Underground Service Alert (USA) and contract with a private utility locator before drilling to help locate public utility lines at the site.

Task 2: Soil Borings

To advance the soil borings, ERI will:

- Clear boring locations to a depth of approximately 4 fbs before advancing the soil borings to reduce the risk of damaging underground structures.
- Obtain the services of a licensed well driller and observe the driller advance soil borings B1 through B5 using direct push technology. Soil borings B1 through B4 will be advanced to a maximum depth of approximately 20 fbs or into first encountered groundwater, whichever is encountered first. Soil boring B5 will be advanced using a dual-wall direct push methods to a maximum depth of 40 fbs. The locations of the proposed soil borings are shown on Plate 2.

The location and depths of borings B1 through B4 were selected to evaluate groundwater conditions laterally in the vicinity of the former UST. The location of boring B5 was selected to evaluate groundwater conditions vertically beneath the former UST.

Soil cuttings generated during drilling activities will be placed in 55-gallon drums (or similar) and labeled pending characterization and disposal.

- Collect continuous soil samples from borings B1 through B5 to evaluate soil stratigraphy and to screen for volatile organic compounds (VOCs) using a photo-ionization detector (PID).
- Collect groundwater samples from borings B1 through B5 using a single use disposable bailers or reusable bailers. If a reusable bailer is used, the bailer will be cleaned between sampling events to eliminate the potential for cross contamination.
- Observe the driller backfill the borings with neat cement.

Task 3: Laboratory Analysis

To assess groundwater conditions, ERI will:

- Submit groundwater samples collected from borings B1 through B5 to a California state-certified laboratory for analysis. Groundwater samples will be analyzed for TPHd using Environmental Protection Agency (EPA) Method 8015; and TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE using EPA Method (EPA) Method 8260B.

Task 4: Soil Stockpile Characterization and Disposal

To attend to soil cuttings generated during site assessment, ERI will:

- Submit a composite soil sample collected from the soil cuttings generated during drilling activities for analysis of TPHd, TPHg, BTEX, and MTBE using the laboratory methods listed in Task 3, and total lead using EPA Method 6010.
- Evaluate disposal requirements and apprise AT&T of these requirements.
- Coordinate transport and disposal of the soil generated during drilling operations to an AT&T approved disposal facility.

Task 5: Reporting

To present the data collected during assessment activities, ERI will:

- Upload the laboratory analytical results of soil and groundwater samples collected during the field work to the State of California Geotracker database.
- Interpret field and laboratory data to evaluate soil and groundwater conditions.
- Prepare a report describing soil and groundwater conditions encountered, summarizing the findings and providing conclusions and recommendations.

SCHEDULE OF OPERATIONS

ERI is prepared to implement this Work Plan upon regulatory approval and acquisition of the appropriate drilling permit.

DOCUMENT DISTRIBUTION

ERI recommends copies of this Work Plan be forwarded to:

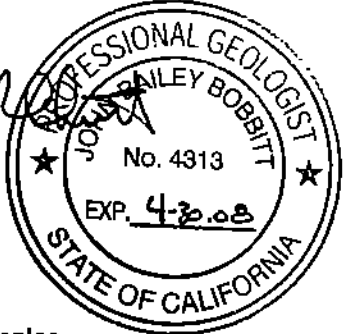
Mr. Don Hwang
Hazardous
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Please call Mr. Glenn L. Matteucci, ERI's project manager for this site, at (707) 766-2000, if you have questions regarding this Work Plan.

Sincerely,
Environmental Resolutions, Inc.

Glenn L. Matteucci
Glenn L. Matteucci
Project Manager

John B. Bobbitt
John B. Bobbitt
R.G. 4313



Attachments: References

- Table 1: Cumulative Results of Laboratory Analysis of Soil Samples
- Table 2: Cumulative Results of Laboratory Analysis of Groundwater Samples

- Plate 1: Site Vicinity Map
- Plate 2: Generalized Site Plan

- Attachment A: Field Protocol

REFERENCE

Shaw Environmental, Inc. October 2003. Underground Storage Tank Removal Report, SBC Facility 1189 58th Avenue, Oakland, California. Project No. 838819.35

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
AT&T Maintenance Facility
1189 58th Avenue
Oakland, California

Sample ID	Sampling Date	Sample Depth fbs	TPHd mg/kg	TPHg mg/kg	MTBE mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	Total Lead mg/kg
UST Excavation Samples										
TP1-(9')	07/30/03	9	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	<3.0
TP2-(9')	07/30/03	9	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	<3.0
TP3-(9')	07/30/03	9	<1.0	<1.0	0.079	<0.005	<0.005	<0.005	<0.005	<3.0
TP4-(9')	07/30/03	9	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005	<3.0
Soil Stockpile										
CS(1-4)	07/30/03		<1.0	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<3.0

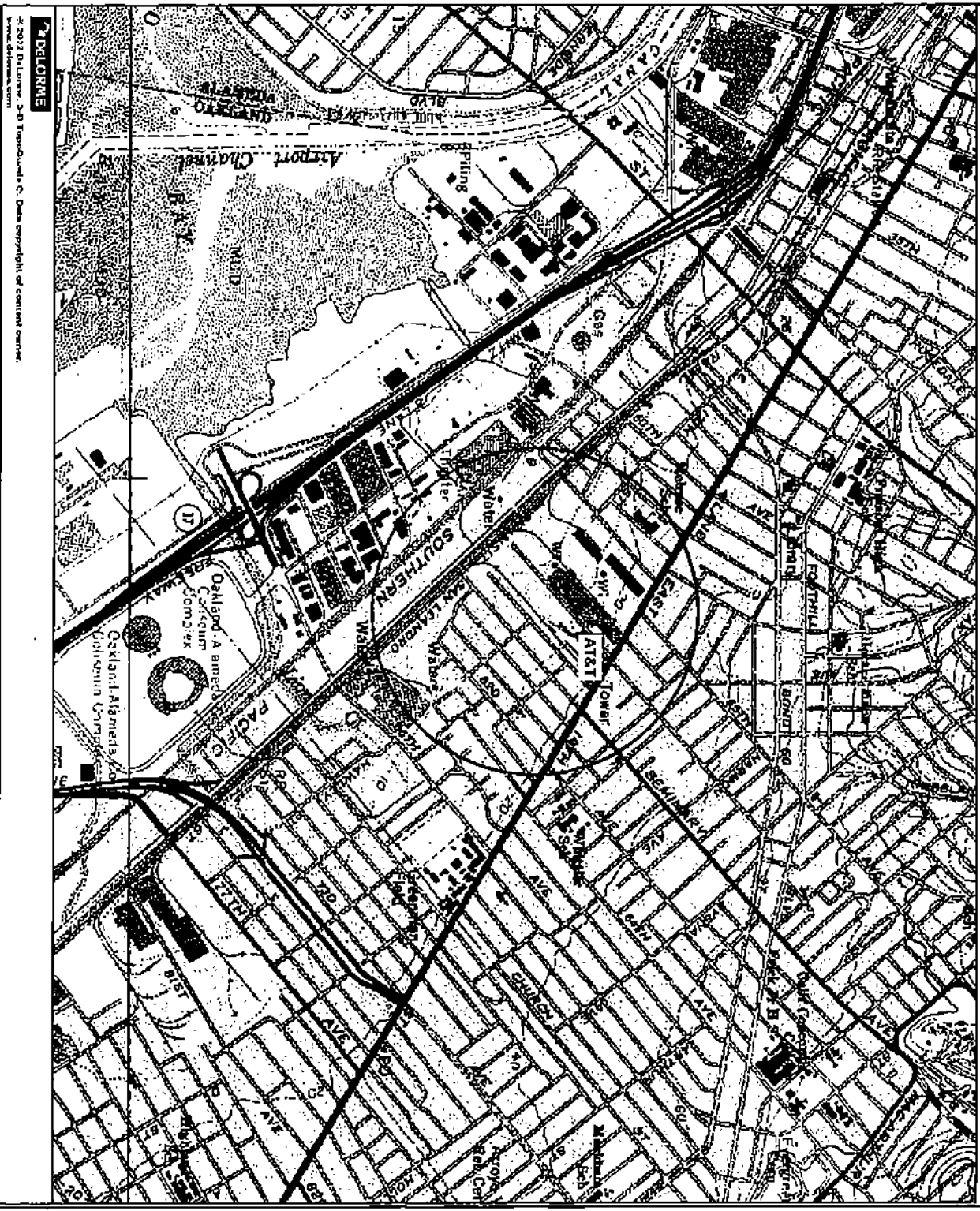
- Notes:
- TP4-(9') = Tank pit sample number - sample depth.
 - CS(1-4) = Soil stockpile - (composite sample).
 - TPHd = Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015.
 - TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
 - MTBE = Methyl tertiary butyl ether analyzed using EPA Method 8021B.
 - BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
 - Total Lead = Analyzed using EPA Method 7010.
 - fbs = Feet below ground surface.
 - mg/kg = Milligrams per kilogram.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES
AT&T Maintenance Facility
1189 58th Avenue
Oakland, California

Sample ID	Sampling Date	Sample Depth fbs	TPHd $\mu\text{g/L}$	TPHg $\mu\text{g/L}$	MTBE $\mu\text{g/L}$	B $\mu\text{g/L}$	T $\mu\text{g/L}$	E $\mu\text{g/L}$	X $\mu\text{g/L}$	Total Lead $\mu\text{g/L}$
TP-W-1(07-03)	07/31/03	10	190	1,600	1,800	51	300	32	260	6.1

Notes:

- TP-W-1(07-03) = Tank pit-water sample-sample number-month/year sampled.
- TPHd = Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015.
- TPHg = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
- MTBE = Methyl tertiary butyl ether analyzed analyzed using EPA Method 8021B.
- BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
- Total Lead = Analyzed using EPA Method 7010.
- fbs = Feet below ground surface.
- $\mu\text{g/L}$ = Micrograms per liter.



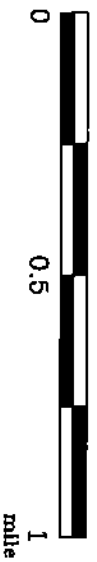
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 www.delorme.com

FN 2673TOPO

EXPLANATION

○ 2,000 feet radius circle

APPROXIMATE SCALE



SOURCE:
 Modified from a map
 provided by
 Delorme 3-D Topoquads

SITE VICINITY MAP

AT&T MAINTENANCE FACILITY
 1189 58TH Avenue
 Oakland, California

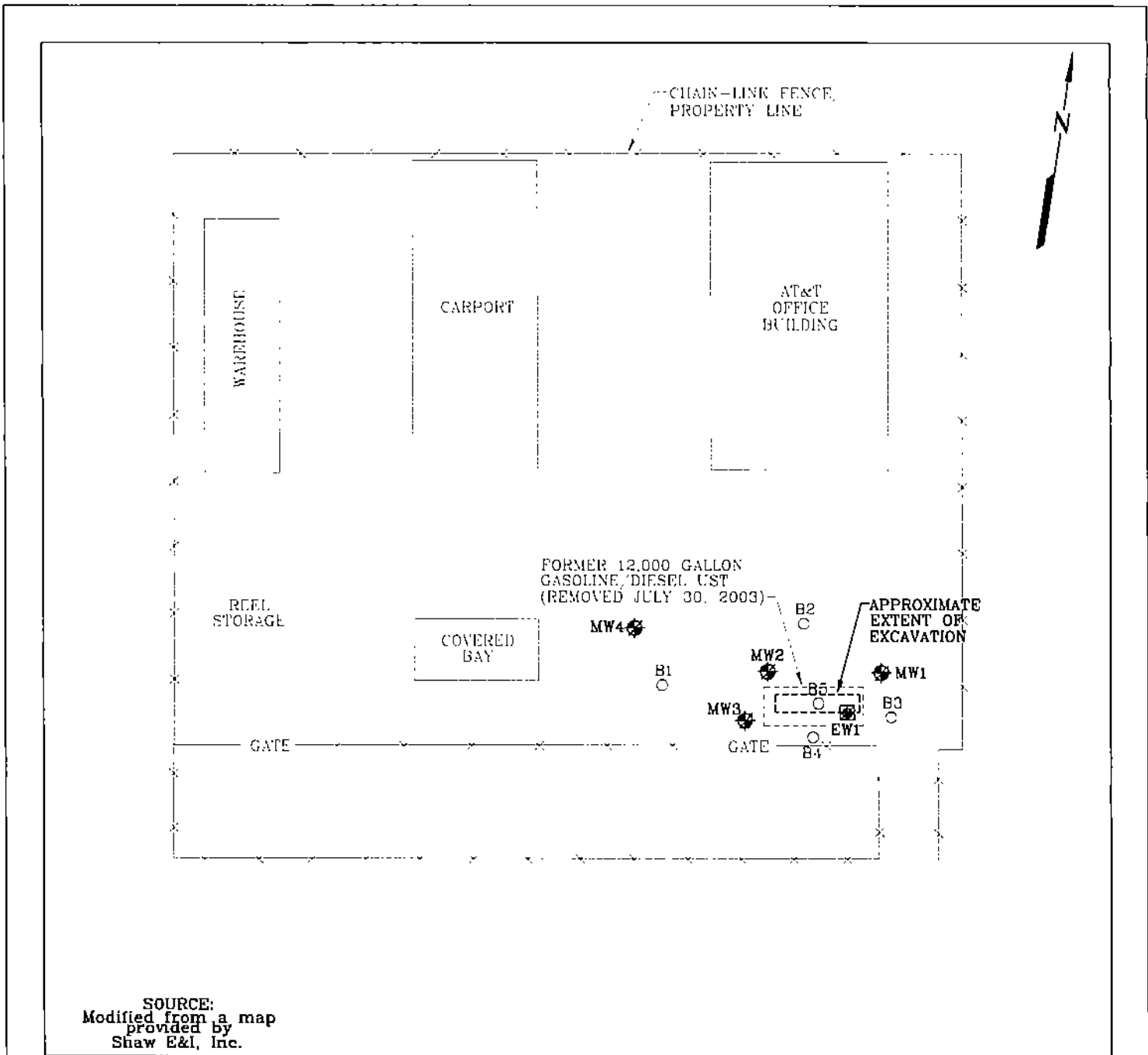
PROJECT NO.

2673

PLATE

1



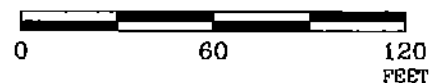


FN 26730001

EXPLANATION

- MW4
 Destroyed Groundwater Monitoring Well
- EW1
 Destroyed Extraction Well
- B5
 Proposed Soil Boring

APPROXIMATE SCALE



PROPOSED SOIL BORINGS

AT&T MAINTENANCE FACILITY
 1189 58TH Avenue
 Oakland, California

PROJECT NO.

2673

PLATE

2

ATTACHMENT A
FIELD PROTOCOL

FIELD PROTOCOL

Site Safety Plan

Field work will be performed by ERI personnel in accordance with a Site Safety Plan (SSP) developed for the site. This plan describes the basic safety requirements for the subsurface investigation and the drilling of soil borings at the work site. The SSP is applicable to personnel and subcontractors of ERI. Personnel at the site are informed of the contents of the SSP before work begins. A copy of the SSP is kept at the work site and is available for reference by appropriate parties during the work. The ERI geologist will act as the Site Safety Officer.

Advancement of Soil Borings

Prior to the advancement of the soil borings, ERI will acquire necessary permits from the appropriate agencies. ERI will also contact Underground Service Alert (USA) and a private underground utility locator before drilling to help locate public utility lines at the site. ERI will clear the proposed location to a depth of approximately 4 feet before drilling to reduce the risk of damaging underground structures.

The borings will be advanced using direct-push technology. Samples will be continuously collected. The earth materials in the boring will be identified using visual and manual methods, and classified as drilling progresses using the Unified Soil Classification System. Equipment will be steam-cleaned before use to minimize the possibility of crosshole contamination.

Soil samples will be monitored with a photo-ionization detector (PID), which measures hydrocarbon concentrations in the ambient air or headspace above the soil sample. Field instruments such as the PID are useful for indicating relative levels of hydrocarbon vapors, but do not detect concentrations of hydrocarbons with the same precision as laboratory analyses. Groundwater samples will be collected from each of the off-site borings.

Select soil samples will be sealed promptly with Teflon® tape and plastic caps. The samples will be labeled and placed in iced storage for transport to the laboratory. Chain-of-Custody records will be initiated by the geologist in the field, updated throughout handling all soil and groundwater samples, and sent with the samples to the laboratory. Copies of these records will be in the final report.

Cuttings generated during drilling will be placed on plastic sheeting and covered and left at the site. ERI will coordinate with AT&T for the soil to be removed to an appropriate disposal facility.