



FLUOR DANIEL GTI

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# Transmittal Letter

Date: June 23, 1998

To: Thomas Peacock

Company: Alameda County Health Care Services Agency, Environmental Health Services Division

Address: 1131 Harbor Bay Parkway, Suite 250

City: Alameda State/Zip: CA 94502-6577

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Comments:

Attached is the Work Plan for Additional Groundwater Characterization for the Sears Store 1039, 1911 Telegraph Avenue, Oakland, CA, dated June 22, 1998. Upon the ACHCSA approval, coordination and scheduling for the assessment work will commence. Please contact me with any questions.

Sincerely,  
**Fluor Daniel GTI, Inc.**



Melissa Gossell  
 Melissa Gossell  
 SEARS West Zone Project Manager  
 Hydrogeologist

c: **Scott DeMuth, SEARS**  
**Project File**



**FLUOR DANIEL GTI**

**WORK PLAN FOR ADDITIONAL  
GROUNDWATER CHARACTERIZATION  
SEARS STORE 1039  
1911 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA**

*June 22, 98*


Fluor Daniel GTI Project 104391

June 22, 1998

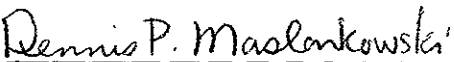
Prepared for:  
Thomas Peacock

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

**Fluor Daniel GTI, Inc.**  
Submitted by:

  
\_\_\_\_\_  
Melissa Gossell, R.E.A.  
Project Manager

**Fluor Daniel GTI, Inc.**  
Approved by:

  
\_\_\_\_\_  
Dennis P. Maslonkowski, C.E.G., C.H.G.  
Senior Hydrogeologist

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## 1.0 INTRODUCTION

Fluor Daniel GTI, Inc. (Fluor Daniel GTI), is submitting this Work Plan for a subsurface investigation to further characterize groundwater along the downgradient portion of Sears Store #1039, located at 1911 Telegraph Avenue in Oakland, California (figure 1). The purpose of this investigation is to collect additional data to delineate the lateral extent of petroleum hydrocarbon-impacted groundwater and to monitor the downgradient edge of the dissolved-phase hydrocarbon plume. Included in this Work Plan is a brief background description and a scope of work.

## 2.0 BACKGROUND

The Sears site consists of a former Chevron Service Station and parking area, which previously had a site investigation performed and seven monitoring wells installed. The seven groundwater monitoring wells, MW-1 through MW-7, are sampled on a quarterly basis. Historical groundwater sampling data indicates that hydrocarbon concentrations in wells on site are fairly stable, except for increasing hydrocarbon concentrations in monitoring wells MW-2, MW-5 and MW-7. Groundwater elevation levels fluctuate about 1 to 2 feet on a seasonal basis. The groundwater flow direction at the site has been consistent to the east-southeast. With dissolved-phase concentrations increasing in the downgradient well (MW-7) the boundary of the dissolved-phase plume has not been defined on-site.

## 3.0 OBJECTIVE

The objective of the investigation is to collect additional subsurface data to delineate the lateral extent of petroleum hydrocarbon-impacted groundwater, and to delineate the downgradient edge of the dissolved-phase plume on-site. Site characterization activities will include sampling three to four Geoprobe™ borings; and collection and analysis of soil and groundwater samples from the borings. Data from this investigation will be used to determine if a downgradient monitoring well should be installed at the most southeastern extent of the property, or if an off-site investigation on Telegraph Avenue and/or 19th Street is necessary.



#### 4.0 SCOPE OF WORK

Based on the existing data for the site, the following scope of work is proposed to complete the additional groundwater characterization. The scope of work includes the following:

- Review the site specific Health and Safety Plan to ensure that information is current and the tasks described in this document are addressed.
- Submit applications for boring installation permits to Alameda County Public Works for approval prior to commencement of field work.
- Notify utility surveyor to mark the locations of known subsurface utilities.
- Complete three to four Geoprobe™ soil borings and collect soil samples at 5-foot intervals for laboratory analysis. A grab groundwater sample will be collected from each boring for laboratory analysis.
- Prepare a report that presents the results of the investigation, and review data to determine if a downgradient monitoring well should be installed at the most southeastern extent of the site, or if additional off-site assessment needs to be performed.



## 5.0 TECHNICAL APPROACH

### 5.1 Soil Borings

Permit applications for soil boring installation will be submitted to the Alameda County Public Works for approval prior to the commencement of field work. A subsurface survey of underground utilities will also be completed to properly locate and mark feasible sampling locations in the field.

Soil samples will be collected at 5-foot intervals using the Geoprobe™ Systems sampling equipment. Tentative proposed locations for the borings are shown in figure 2. Actual locations will be determined in the field based on the utility survey results and access. Samples will be collected using a 2-foot sampler containing either 1-inch diameter acetate or brass liners. Volatile organic compounds will be monitored in the field using a photoionization detector (PID). From each soil sampling event, one tube (either brass or acetate) of soil will be capped at each end with a teflon sheet and a plastic lid. Selected soil samples will be analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons as gasoline (TPHg) and Oil and Grease, using EPA Methods 8020, 8015 and 413.2, respectively. Additional soil from each sampling event will be placed in a plastic bag and described using the Unified Soil Classification System and documented on a drilling log.

Groundwater samples will be collected at each boring location using Geoprobe™ Systems Hydropunch technology. A sealed, stainless steel screen will be driven to depth, then opened. A plastic tube will be inserted into the screen and a peristaltic pump will be used to collect water. The tubing will be purged for 1 minute prior to sampling. One water sample from each location will be placed in two 40-milliliter glass vials, and analyzed for BTEX with methyl-tertiary-butyl-ether (MTBE), TPHg, Oil and Grease and chlorinated hydrocarbons using EPA Methods 8020, 8015, 413.2 and 8010, respectively.

All samples will be sent to a State-certified laboratory, under chain-of-custody protocol. Additional soil samples may be retained for physical testing to collect data needed for future remedial action or RBCA analysis, if warranted. Such samples would be analyzed for physical parameters such as porosity, air permeability, grain size analysis and bulk density (physical parameter package). Following collection of the soil and groundwater samples, the borings will be grouted from the total depth to the surface grade.



## 5.2 Equipment Decontamination/Disposal Procedures

Geoprobe equipment will be cleaned after each sample event for all borings. The soil and groundwater sampling equipment will be cleaned in a solution of Alconox and rinsed with distilled water prior to use at each sampling location.

Soil cuttings and decon water will be stored on site in DOT-rated, 55-gallon drums, supplied by a Sears contractor. All drums used during the assessment will be labeled and documented on a Drum Inventory Form.

Following receipt of the laboratory results, the soil/water will be classified and shipped to an appropriate disposal facility. Proper shipping and disposal documentation will be prepared. Copies of these documents will be sent to the proper state and local authorities. In addition, copies will be kept with the generator as required by law.

## 6.0 REPORTING

Upon completion of the site assessment activities, and receipt of laboratory analyses results, a report of the findings will be prepared and submitted to Sears and Alameda County Health Care Services Agency.



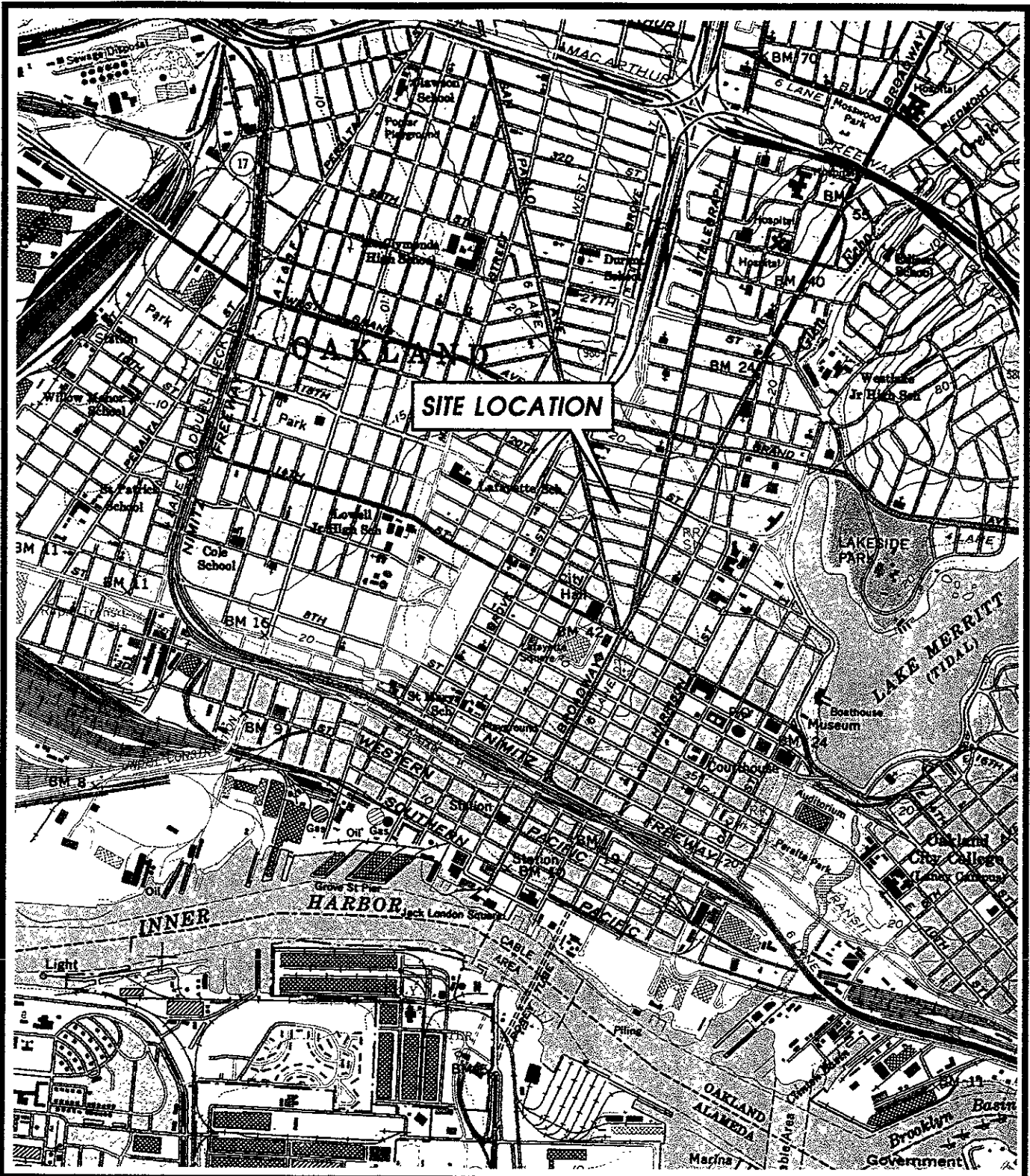
**FIGURES**

1. Site Location Map
2. Proposed Soil Boring Location Map

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**FLUOR DANIEL GTI**



SOURCE: U.S.G.S. 7.5' QUAD SHEET  
OAKLAND WEST, CALIFORNIA  
PHOTOREVISED 1980



SCALE:

0 FEET 2000

**SITE LOCATION MAP**

CLIENT:

SEARS, ROEBUCK & COMPANY  
SITE NO. 1039

DATE:

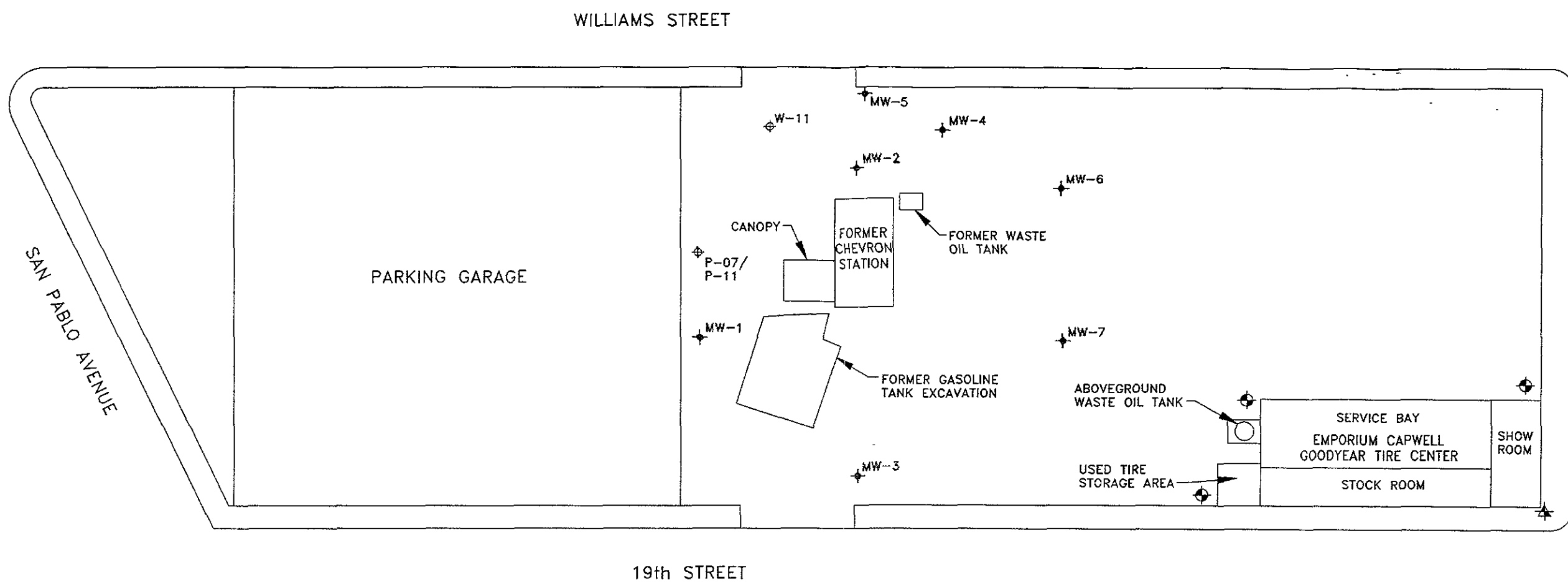
6/16/98

LOCATION:

1901-1911 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

FIGURE:

1



**LEGEND**

- ⊕ PROPOSED BORING LOCATION
- ★ TENTATIVE BORING LOCATION (BASED ON ACCESS AND SUBSURFACE UTILITIES)
- ⊕ MONITORING WELL
- ⊕ SOIL PROBE

**FLUOR DANIEL GTI** 



**PROPOSED SOIL BORING LOCATION MAP**

CLIENT: SEARS, ROEBUCK & CO.  
SITE NO. 1039

LOCATION: 1901-1911 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

ACAD FILE: PBORLOC PROJECT NO.: 104391

REV.: 1

DES.: MG	DET.: ML	DATE: 6/16/98	FIGURE: <b>2</b>
PM:	PE/RG:		