

# DESERT PETROLEUM INC.

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9:34 am, Jun 23, 2011

Alameda County  
Environmental Health

June 9, 2011

Mr. Jerry Wickham  
Alameda County Health Care Services  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6791  
FACSMILE (510) 337-9335


RE: The following work plan proposes to investigate the degree of Natural Attenuation that has occurred since 2004 at DP 793, 4035 Park Blvd., Oakland, California 94602.


Dear Mr. Wickham:

I have reviewed the enclosed work plan that I contracted Western Geo-Engineers to prepare.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,

  
\_\_\_\_\_  
William Thompson, Desert Petroleum, Inc.

  
\_\_\_\_\_  
Date

WORK PLAN  
NATURAL ATTENUATION  
SOIL SAMPLING

FORMER DESERT SITE DP 793  
4035 PARK BLVD.  
OAKLAND, CA.

FOR

DESERT PETROLEUM

**June 8, 2011**

BY

-WEGE-  
WESTERN GEO-ENGINEERS  
1386 E. BEAMER STREET  
WOODLAND, CALIFORNIA 95776  
(530) 668-5300

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Mr. Bill Thompson  
Desert Petroleum  
3781 Telegraph Road  
Ventura, CA 93003  
(805) 644-6784 FAX (805) 654-0720

June 8, 2011

Dear Mr. Thompson:

The following work plan was developed to determine the degree of natural attenuation that has occurred at the site since the December 2004 soil core samples were obtained and analyzed for TPHg, BTEX and MtBE at DP793, 4035 Park Blvd., Oakland, California.

## **SITE LOCATION AND IDENTIFICATION NUMBERS**

Former Desert Petroleum #793 is a non-active service station (USTs and associated piping removed June 23, 1994), located on the northwest corner of the intersection of Park Boulevard and Hampel Street at 4035 Park Blvd., Oakland, California (Figure 1). The site is located in projected section 32; T1S; R3W; MDB&M at an approximate elevation of 210 feet above mean sea level (Figure 2).

East Bay Municipal Utility District - Sewer Discharge Permit #50435501,  
Alameda County Local Oversight STID 1248  
San Francisco Bay Regional Board (Region 2) Case # 01-0170  
Facility/Leak Site ID# T0600100158

## **LOCAL GEOLOGY**

### *Geomorphology*

The site is located on the western slope of the Berkeley Hills. The Berkeley Hills are a northwest-southeast trending range within the Coastal Range Province of California. Erosion of the Coastal Ranges has filled the valleys within and bordering the Coastal Range with sequences of gravels, silts, sands, and clays.

### *Stratigraphy*

#### **2.1.1 Station Property**

The native soil from surface to 13 feet below ground surface (BGS) consists of dark brown silty clay. The dark brown clay is underlain by light brown stiff clay that includes subrounded to rounded metavolcanic gravel. This clay extends to approximately 23 feet BGS at the northwest corner of the site. A fine to medium sand, clayey sand, and silty sand underlies the gravel and clay.

### 2.1.2 Backyard Sewer Lateral Route

Assessments performed along the sewer lateral as it leaves the site and routes through the residential area towards Brighton Avenue show the subsurface to consist of fill from a couple of inches thick to two feet thick. Beneath the fill is a sequence of clay formations that vary from light brown to dark gray to approximately the 6 foot depth. Silty clay then extends to approximately the 14-foot depth. Beneath the silty clay is sand with occasional gravel. This sand is 11 feet thick at RS05 and is underlain by silty clay.

### 2.1.3 Brighton Avenue

Construction of the receptor trench along the eastern curb area of Brighton Avenue revealed two separate sequences of lithology. North of the storm drain catch basin the sequence consists of; clay to the four foot depth, silty clay to the seven foot depth, fine silty sand to the 9 foot depth, medium sand to the 10 foot depth, silty clay to the 11 ½ foot depth, gravel to the 12 foot depth underlain by clay to the 16 foot depth. South of the storm catch basin is a sequence of silty clays and clays to depth.

Sandier sequence of sediments north of the storm water catch basin at Brighton Avenue compared to the sediments south of the storm water catch basin, indicate a facies change or a fault remnant striking east/west near the storm drain catch basin. A topographic lineation along the 200 foot contour is located in this area, see Figure 2.

## RECENT ON-SITE SOIL SAMPLES

Two geotechnical borings were performed and supervised by GTC GeoTrinity for obtaining a grading permit and performing a slope stability study for future excavation of onsite contaminated soils. During the geotechnical drilling (January 24, 2011) for the grading permit and slope stability study, conducted by GTC GeoTrinity, two soil samples were obtained for laboratory analysis to compare with soil samples obtained in December 2004 (6 years earlier) from the area to be excavated, see Table 1 and Figure 4. Soil sample GB 1-15 was obtained from the 15 foot depth near former core sample point C4. And soil sample GB 2-17.5 was obtained from the 17.5 foot depth near former core sample point C6. Results of the analytical analysis from the two soil samples indicate degradation (natural attenuation) of the gasoline range hydrocarbons is occurring. Core sample point C6 soil sample obtained from the 17 foot depth contained 1600 mg/Kg TPHg, 0.99 mg/Kg Benzene, 23 mg/Kg Ethylbenzene and 3.2 mg/Kg xylenes. The GB 2-17.5 sample contained 720 mg/Kg TPHg, <0.005 mg/Kg benzene, 9.2 mg/Kg Ethylbenzene and 11 mg/Kg xylenes. This sample was within 2 feet of the 2004 sample and showed reductions of; TPHg 55 %, Benzene 99.5%, Toluene was below laboratory lower detection limits for both samples, but using the lower detection limits as the concentration Toluene was reduced by 98% and Ethylbenzene 60%. Xylenes were greater in the GB 2 sample at 11 mg/Kg compared to the C6 sample which contained 3.2 mg/Kg. This can be attributed to a higher starting concentration for the GB2 sample by approximately 3.5 times.

Previous sampling on September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume.

## **WORK PLAN, SOIL SAMPLING**

Table 1 is a tabulation of soil samples that have been obtained on site from direct push cores in December 2004. Figure 4 is the location of those cores with the proposed soil sample locations that will be used to verify the degree of natural attenuation.

### *Soil Sample Locations*

As shown on Figure 4, four soil sample borings will be performed within 2 feet of the 2004 core borings C3, C9, C11 and C13. Soil samples from these core borings exhibited the highest concentrations of TPHg and Benzene in soil.

### *Drill Method and Sampling*

A Western Geo-Engineers geologist working directly under California Registered Geologist #3037 will supervise the drilling, direct push continuous cores, at 4 locations at 4035 Park Blvd, see Figure 4. Woodward Drilling, C57#710079 using their Power Probe Direct Push drilling rig, will obtain continuous cores (1 1/2 inch in diameter) in four foot sections of acrylic liner from the eight foot depth to total depth of the designated core holes. Cores will be examined for lithology, odor, color, the presence of water and field screened with a hand held photoionizing detector (PID) containing a 10.6 e.v. bulb. The core sample boring near previous sample boring C3 will be advanced to the 16 foot depth, the acrylic liner containing the soil representing C3 soil sample depth 15.0 – 15.5 foot depth will be obtained for laboratory analysis. Likewise the core sample boring near previous sample boring C9 will be advanced to the 16 foot depth and the section representing the 11.5 – 12.0 foot depth will be obtained for laboratory analysis. Core sample borings near C11 and C13 will be advanced to the 24 foot depth and samples representing the 23.5 – 24 foot depth and 21.0 – 21.5 foot depth respectively will be obtained for laboratory analysis. These samples will be preserved and chain of custody (COC) delivered to a State of California certified laboratory for analysis using EPA method 8260B (TPHg, BTEX, MtBE and TBA). Once total depth is achieved the inner core barrel will be retrieved, 1/2 inch diameter PVC casing, bottom five feet 0.02 inch slot will be installed and the outer drill pipe removed past the bottom interval to obtain a water sample with a disposable bailer. The drill rod and casing remained in the core hole until enough water had accumulated to obtain water samples. Once the water samples has been obtained the PVC casing along with the drill rod will be removed and the hole destroyed with a 5% bentonite/cement slurry place using a one inch diameter triemie pipe placed to the bottom of the core hole.

### **2.1.1 Field Screening for TPHg, Benzene and MtBE**

Field screening of the cored sections will be accomplished using a photoionizing detector (PID) with a 10.6 ev bulb. Field screening is necessary for Health and Safety and to determine the relative degree and presence of hydrocarbons in the soil.

### 2.1.2 Destruction of Holes

The core holes will be destroyed using 1 inch PVC tremie pipe placed to the bottom of the test hole. Neat cement (5 sack mix) with no more than 5% bentonite will then be pumped through the tremie pipe, filling the test hole as the tremie is removed to the surface.

#### *CALIFORNIA CERTIFIED LABORATORY SELECTION AND SOIL AND WATER ANALYSIS*

Contaminants of Concern (COC's) are gasoline range hydrocarbons, degraded gasoline (residuals from vapor extraction removal of volatiles), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and the fuel oxygenant MtBE. Groundwater and soil samples will be analyzed for Total Petroleum Hydrocarbons gasoline range, Benzene, Toluene, Ethylbenzene, Xylenes and the fuel oxygenants MtBE and TBA using EPA method 8260B. Western Geo-Engineers has a contract with and will use Kiff Analytical Laboratories (certification #2236), 720 Olive Drive, Suite D, Davis, California 95616 (530) 297-4800.

#### *ENCROACHMENT PERMITS*

Encroachment agreements will be obtained from the current property owner, Mr. Kin Man Li prior to any site activities.

#### *DRILLING PERMITS - Alameda County.*

Soil boring permit(s) will be obtained from Alameda County prior to drilling and/or obtaining any soil and groundwater samples.

#### *NOTIFICATIONS*

Upon approval of this workplan and obtaining of all necessary permits a 48-hour notice will be given to all concern parties and Underground Service Alert will be notified prior to commencing any probing or drilling activities.

## **WASTE MANAGEMENT**

#### *EXCAVATED WELL MATERIALS AND FLUIDS*

All materials (solids) excavated during the drilling/sampling and boring destruction will be placed on and covered with 6 mil plastic liner for profiling and if necessary later disposal at a California Class II Landfill.

All fluids generated by the drilling/sampling and boring destruction procedures will be placed into 55-gallon drums. The drums will be placed in the remediation system compound for temporary storage, to allow the solids to settle to the bottom of the drums. In two to three days the drums will be inspected and all clear fluids will be placed into the groundwater treatment system for treatment

and disposal to the city sewer system. The solids will be placed with the drill cuttings, contained within a plastic liner. Once the drums have been emptied they will be removed from the site.

## **SCHEDULE**

June 9, 2011	Email Workplan to Desert Petroleum for review. Once approved, mail Workplan to Alameda County Health for Approval.
After Alameda County Health Approval	Schedule Woodward Drilling and submit permits to Alameda County. Perform Continuous Core Sampling and submit soil and water samples to Kiff Analytical Laboratory for normal 1 week turnaround. Draft copy of report of findings to Desert Petroleum for review and comment.  Submit report of findings with recommendations to Alameda County Health.

## **LIMITATIONS**

This work plan is based upon the following:


- A. The observations of field personnel.
- B. The results of laboratory analyses performed by a state certified laboratory.
- C. Referenced documents.
- D. Our understanding of the regulations of the State of California, Alameda County and the City of Oakland.
- E. Changes in groundwater conditions can occur due to variations in rainfall, temperature, local and regional water use, and local construction practices.
- F. In addition, variations in the soil and groundwater conditions could exist beyond the points explored in this investigation.

State Certified Laboratory analytical results are included in this report. This laboratory follows EPA and State of California approved procedures; however, WEGE is not responsible for errors in these laboratory results. The services performed by Western Geo-Engineers have been conducted

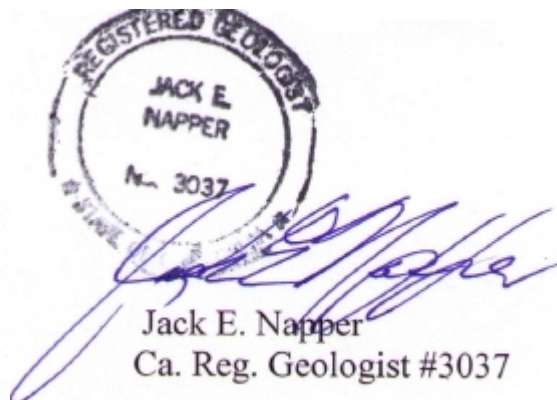


in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Oakland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Known or suspected contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely,



George Converse  
Project Geologist



Jack E. Napper  
Ca. Reg. Geologist #3037

cc: Mr. J. Wickham, Alameda County Health (510) 567-6791  
Mr. Kin Man Li, property owner (510) 599-7000

TABLE 1  
 SOIL SAMPLE (CERTIFIED LABORATORY RESULTS)  
 FORMER DP #793  
 4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID SAMPLE DATE BY DEPTH SAMPLED EPA METHOD 8020  
 BELOW SURFACE IN FEET  
 TPHg BENZENE TOLUENE ETHYL-BENZENE XYLENES MTBE TOC TBA  
 mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg

SOIL BORINGS/MONITOR WELLS INSTALLATIONS BY RSI

RS-1	RSI	12/11/1989	5	16	na	na	na	na		
RS-1	RSI	12/11/1989	10	33	na	na	na	na		
RS-1	RSI	12/11/1989	15	<1	na	na	na	na		
RS-1	RSI	12/11/1989	20	<1	<0.003	0.008	<0.003	<0.003		
RS-1	RSI	12/11/1989	25	10	0.056	0.12	0.041	0.13		
RS-1	RSI	12/11/1989	30	<1	<0.003	0.012	<0.003	<0.003		

RS-2	RSI	12/11/1989	5	<1	na	na	na	na		
RS-2	RSI	12/11/1989	10	11	na	na	na	na		
RS-2	RSI	12/11/1989	15	<1	na	na	na	na		
RS-2	RSI	12/11/1989	20	<1	<0.003	0.017	<0.003	<0.003		

RS-3	RSI	12/11/1989	5	<1	<0.003	0.043	<0.003	0.008		
RS-3	RSI	12/11/1989	10	<1	<0.003	0.02	<0.003	<0.003		

RS-4	RSI	12/12/1989	5	50	0.78	3.4	0.74	4.1		
RS-4	RSI	12/12/1989	10	8	0.25	0.94	0.17	0.92		

RS-5	RSI	12/12/1989	5	<1	na	na	na	na		
RS-5	RSI	12/12/1989	10	<1	na	na	na	na		
RS-5	RSI	12/12/1989	15	<1	na	na	na	na		
RS-5	RSI	12/12/1989	20	530	1.5	8.4	3.9	22		
RS-5	RSI	12/12/1989	25	4	0.7	0.42	0.58	0.26		
RS-5	RSI	12/12/1989	30	1600	na	na	na	na		
RS-5	RSI	12/12/1989	35	<1	na	na	na	na		
RS-5	RSI	12/12/1989	40	1	0.036	0.069	0.009	0.043		

RS-6	RSI	12/13/1989	5	<1	na	na	na	na		
RS-6	RSI	12/13/1989	10	<1	na	na	na	na		
RS-6	RSI	12/13/1989	15	<1	na	na	na	na		
RS-6	RSI	12/13/1989	20	<1	0.017	0.007	<0.003	0.015		
RS-6	RSI	12/13/1989	25	<1	0.009	0.011	<0.003	<0.003		
RS-6	RSI	12/13/1989	30	<1	na	na	na	na		
RS-6	RSI	12/13/1989	35	<1	0.005	0.007	<0.003	0.006		

UST AND PIPING REMOVAL DOCUMENTATION SAMPLING

REGULAR LEADED STEEL UST

T1A	WEGE	6/23/1994	14	2	0.022	0.075	0.03	0.16		
T1B	WEGE	6/23/1994	14	<1	0.027	0.028	0.006	0.026		

UNLEADED STEEL UST

T2A	WEGE	6/23/1994	14	<1	0.022	0.027	0.005	0.022		
T2B	WEGE	6/23/1994	14	<1	0.017	0.025	0.005	0.02		

UNLEADED FIBERGLASS UST

T3A	WEGE	6/23/1994	14	<1	0.013	0.012	<0.005	<0.015		
T3B	WEGE	6/23/1994	14	<1	0.013	0.011	<0.005	<0.015		

WASTE OIL UST

WO-1	WEGE	6/23/1994	7.5	3	0.063	0.34	0.048	0.23		
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PRODUCT DISPENSING SYSTEM

PL-1	WEGE	6/23/1994	2.5	<1	0.01	<0.005	<0.005	0.02		
PL-2	WEGE	6/23/1994	2.5	<1	0.01	0.031	0.0059	0.032		

OVER-EXCAVATION OF USTs AND PRODUCT DISPENSING AREAS

SIDEWALLS OF UST EXCAVATION AND SOUTH OF BUILDING

SWA-13	WEGE	8/8/1995	13	3	0.005	0.009	0.046	0.36		
SWB-6	WEGE	8/8/1995	6	<1	<0.005	<0.005	<0.005	<0.005		
SWC-13	WEGE	8/8/1995	13	3	<0.005	<0.005	<0.005	0.022		



TABLE 1  
 SOIL SAMPLE (CERTIFIED LABORATORY RESULTS)  
 FORMER DP #793  
 4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID	SAMPLER BY	DATE SAMPLED	DEPTH BELOW SURFACE IN FEET	EPA METHOD 8020							TOC mg/Kg	TBA mg/Kg
				TPHg mg/Kg	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL-BENZENE mg/Kg	XYLENES mg/Kg	MTBE mg/Kg			
C6-34.75/35	WEGE	12/13/2004	35	<1	0.035	<0.005	<0.005	<0.005	<0.005	<0.005		
CORE HOLE 7												
C7-7.75/8	WEGE	12/15/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
C7-18/18.25	WEGE	12/15/2004	18.25	220	0.055	0.031	0.64	0.05	<0.025			
C7-29.75/30	WEGE	12/15/2004	30	<1	0.14	0.028	0.013	0.029	<0.005			
C7-45.75/46	WEGE	12/15/2004	46	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C7-48.75/49	WEGE	12/15/2004	49	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 8												
C8-7.75/8	WEGE	12/14/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C8-11.75/12.0	WEGE	12/14/2004	12	470	<0.1	<0.1	0.13	<0.1	<0.1			
C8-15.75/16.0	WEGE	12/14/2004	16	7.2	0.08	0.043	0.25	0.3	<0.005			
C8-29.75/30.0	WEGE	12/14/2004	30	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C8-37.75/38	WEGE	12/14/2004	38	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 9												
C9-7.75/8	WEGE	12/14/2004	8	520	<0.25	<0.25	4.2	5.4	<0.25			
C9-11.75/12	WEGE	12/14/2004	12	1300	<0.25	0.72	17	75	<0.25			
C9-23.75/24	WEGE	12/14/2004	24	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C9-30.75/31	WEGE	12/14/2004	31	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 10												
C10-7.75/8	WEGE	12/13/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C10-16/16.25	WEGE	12/13/2004	16.25	1.1	0.005	<0.005	0.026	0.067	<0.005			
C10-29.75/30	WEGE	12/13/2004	30	<1	0.085	<0.005	<0.005	<0.005	0.0066			
C10-33.75/34	WEGE	12/13/2004	34	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 11												
C11-7.75/8	WEGE	12/13/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C11-17.5/18	WEGE	12/13/2004	18	2.4	0.012	<0.005	0.013	0.028	<0.005			
C11-23.75/24.0	WEGE	12/13/2004	24	210	3.9	15	4.4	23	<0.025			
C11-28.75/29	WEGE	12/13/2004	29	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C11-31.75/32	WEGE	12/13/2004	32	<1	0.027	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 12												
C12-5.75/6.0	WEGE	12/10/2004	6	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C12-15.75/16	WEGE	12/10/2004	16	6	<0.005	<0.005	0.056	<0.005	<0.005			
C12-19.75/20	WEGE	12/10/2004	20	3.2	<0.005	<0.005	<0.005	<0.005	<0.005			
C12-29.75/30	WEGE	12/10/2004	30	4.4	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 13												
C13-3.75/4.0	WEGE	12/9/2004	4	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C13-13.75/14	WEGE	12/9/2004	14	23	0.097	<0.005	0.31	0.46	<0.005			
C13-21/21.5	WEGE	12/9/2004	21.5	180	0.74	1.1	2.8	12	<0.025			
C13-23.75/24	WEGE	12/10/2004	24	<1	0.19	<0.005	<0.005	0.016	0.0094			
C13-29.75/30	WEGE	12/10/2004	30	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
Geotechnical Evaluation Drilling for proposed excavation slope stability and grading permit.												
GB 1-15	WEGE	1/24/2011	15	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
GB 2-17.5	WEGE	1/24/2011	17.5	720	<0.005	<0.005	9.2	11	<0.005			

RSI REMEDIATION SERVICE, INTL < BELOW LABORATORY LOWER DETECTION LIMITS  
 WWC WATERWORKS CORP. mg/Kg milligrams per kilogram (parts per million)  
 LF LEVINE-FRICKE TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE  
 WEGE WESTERN GEO-ENGINEERS MTBE METHYL TERTIARY BUTYL ETHER  
 TOC Total Organic Carbon

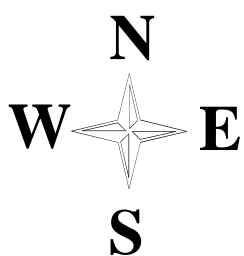
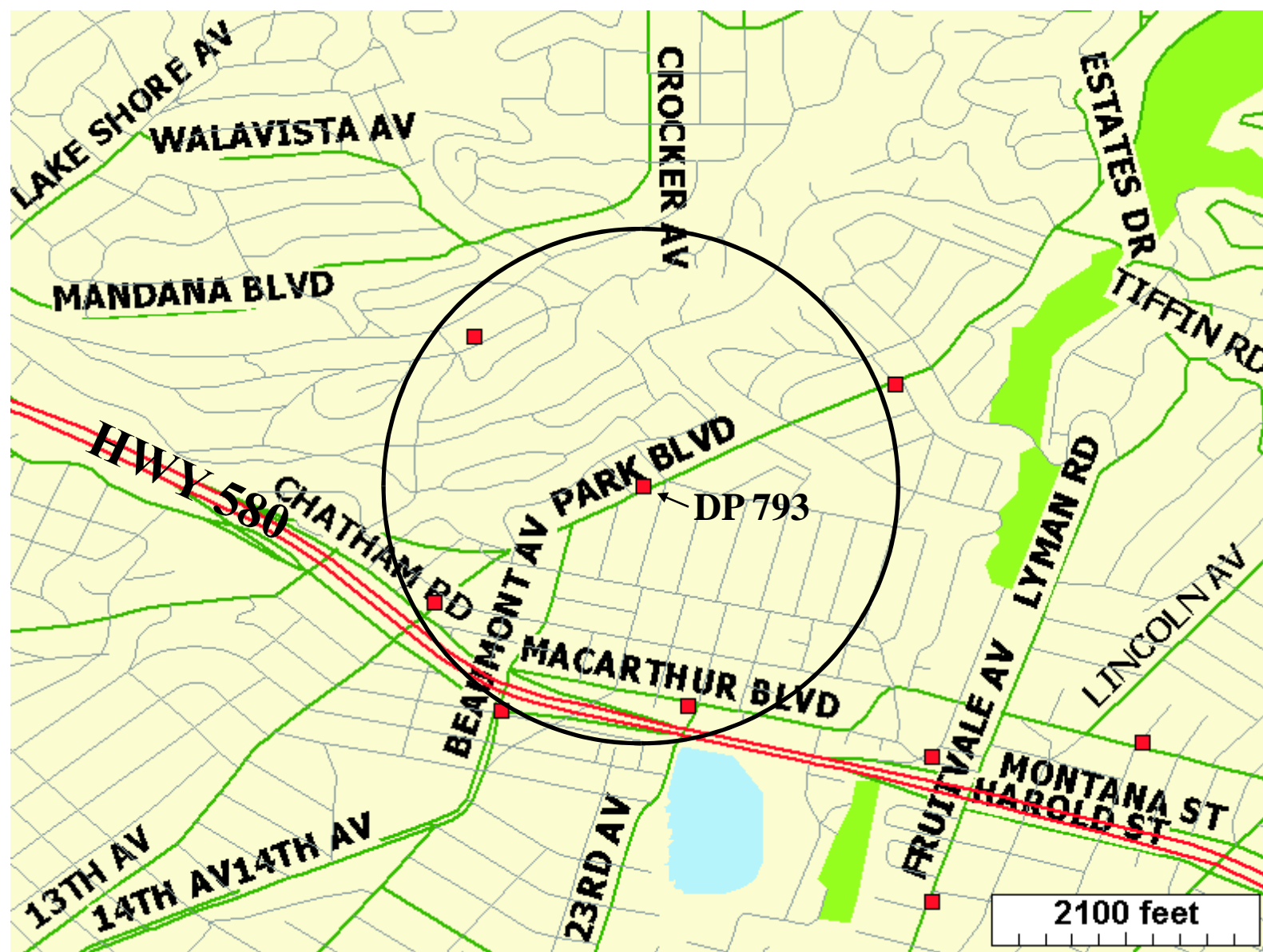


FIGURE 1  
 GEOTRACKER  
 AREA WELL & LUST MAP  
 DP 793  
 4035 PARK BLVD.  
 OAKLAND, CA

- LUST SITES
- WELLS

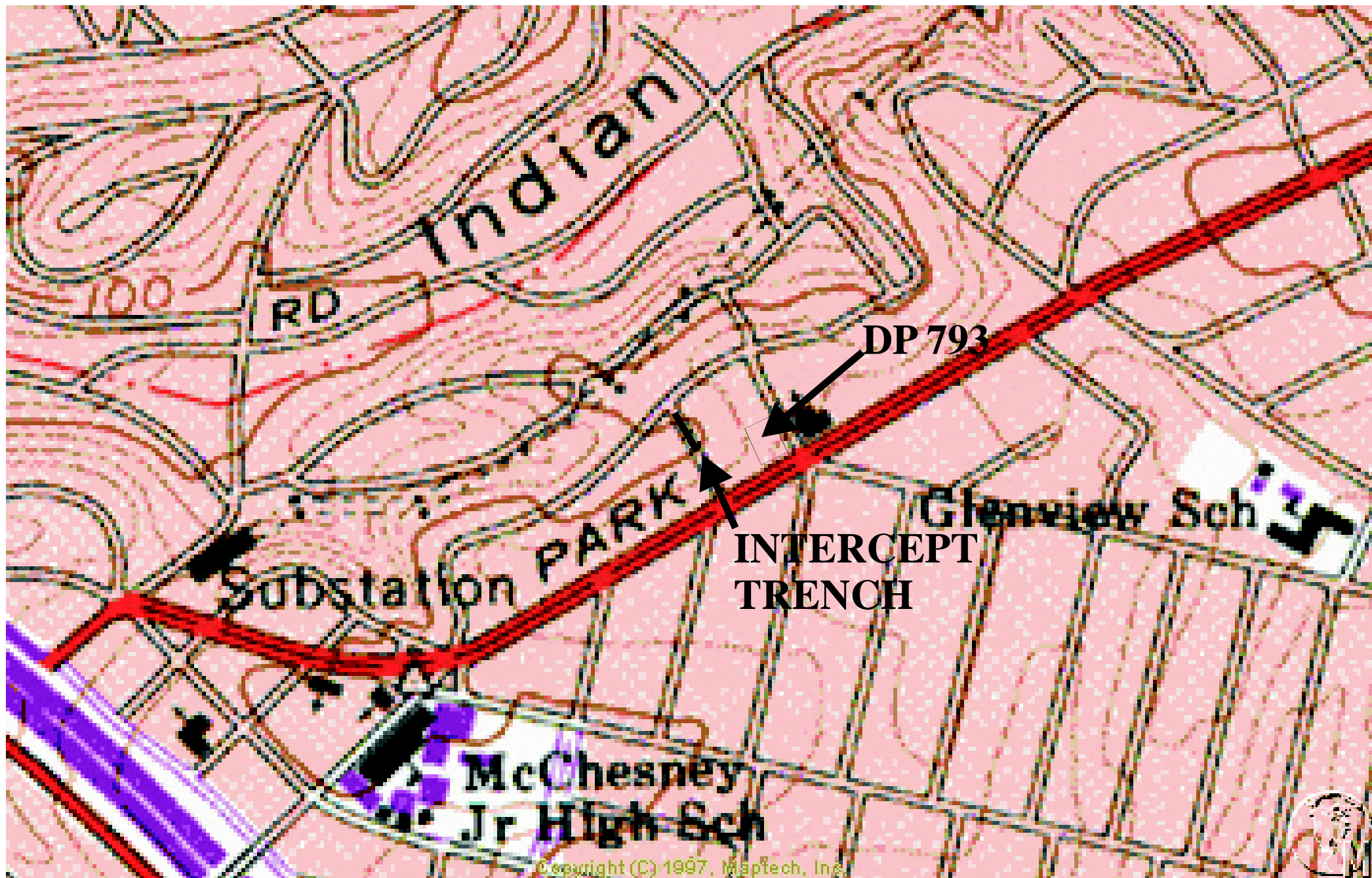
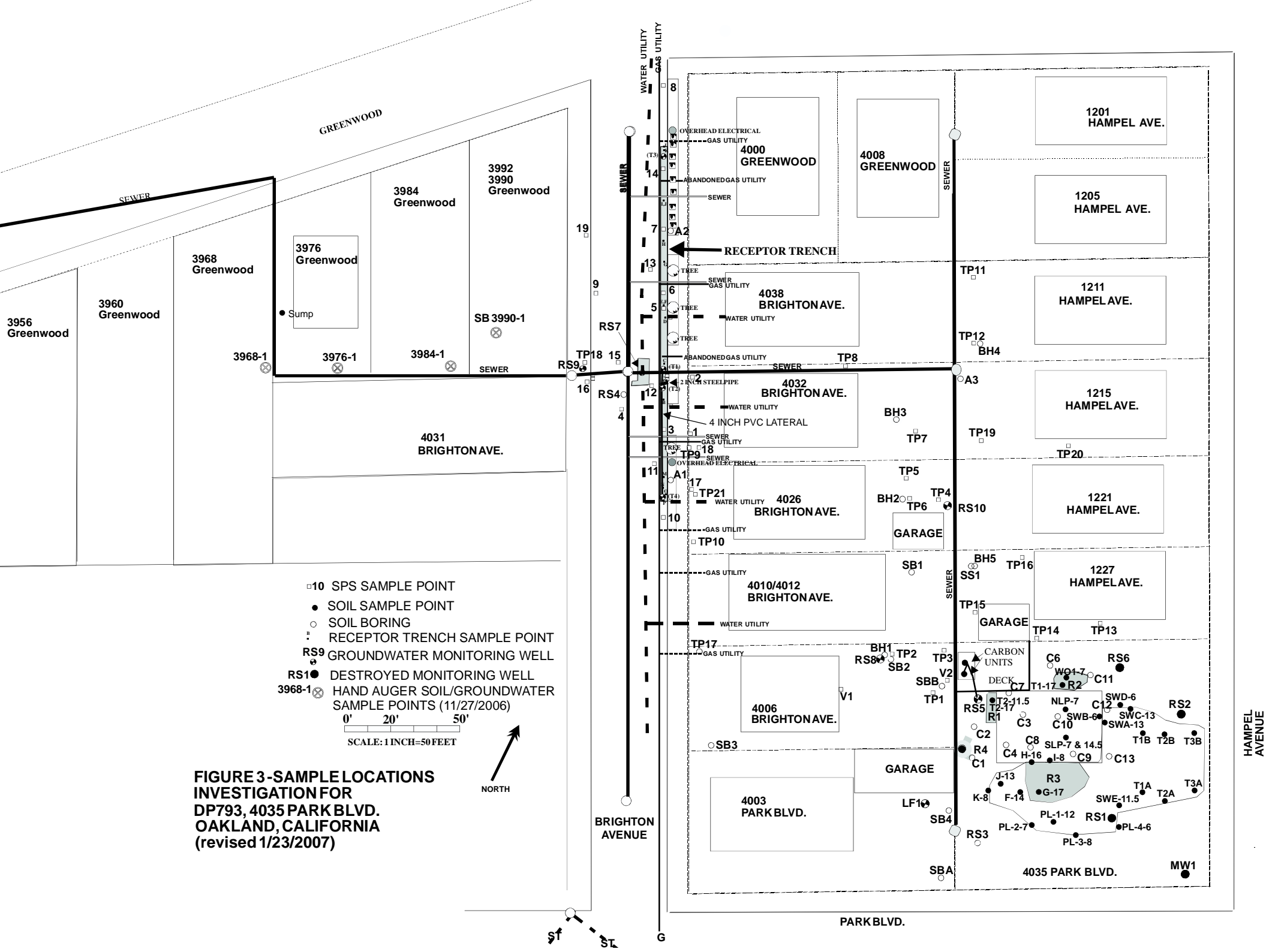


FIGURE 2  
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP





**FIGURE 3-SAMPLE LOCATIONS INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA (revised 1/23/2007)**



ST ST G

HAMPEL AVENUE

PARK BLVD.

BRIGHTON AVENUE

1201 HAMPEL AVE.

1205 HAMPEL AVE.

1211 HAMPEL AVE.

1215 HAMPEL AVE.

1221 HAMPEL AVE.

1227 HAMPEL AVE.

4000 GREENWOOD

4008 GREENWOOD

3984 Greenwood

3992  
3990  
Greenwood

3976 Greenwood

3968 Greenwood

3960 Greenwood

3956 Greenwood

4038 BRIGHTON AVE.

4032 BRIGHTON AVE.

4031 BRIGHTON AVE.

4026 BRIGHTON AVE.

4010/4012 BRIGHTON AVE.

4006 BRIGHTON AVE.

4003 PARK BLVD.

4035 PARK BLVD.

OVERHEAD ELECTRICAL

GAS UTILITY

ABANDONED GAS UTILITY

SEWER

GAS UTILITY

SEWER

2 INCH STEEL PIPE

WATER UTILITY

4 INCH PVC LATERAL

SEWER

GAS UTILITY

OVERHEAD ELECTRICAL

SEWER

WATER UTILITY

GAS UTILITY

SEWER

GAS UTILITY

WATER UTILITY

GAS UTILITY

WATER UTILITY

GAS UTILITY

WATER UTILITY

GAS UTILITY

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WATER UTILITY

GAS UTILITY

WATER UTILITY

GAS UTILITY

WATER UTILITY

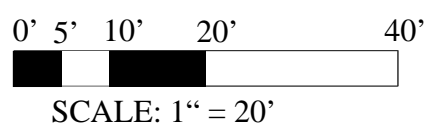
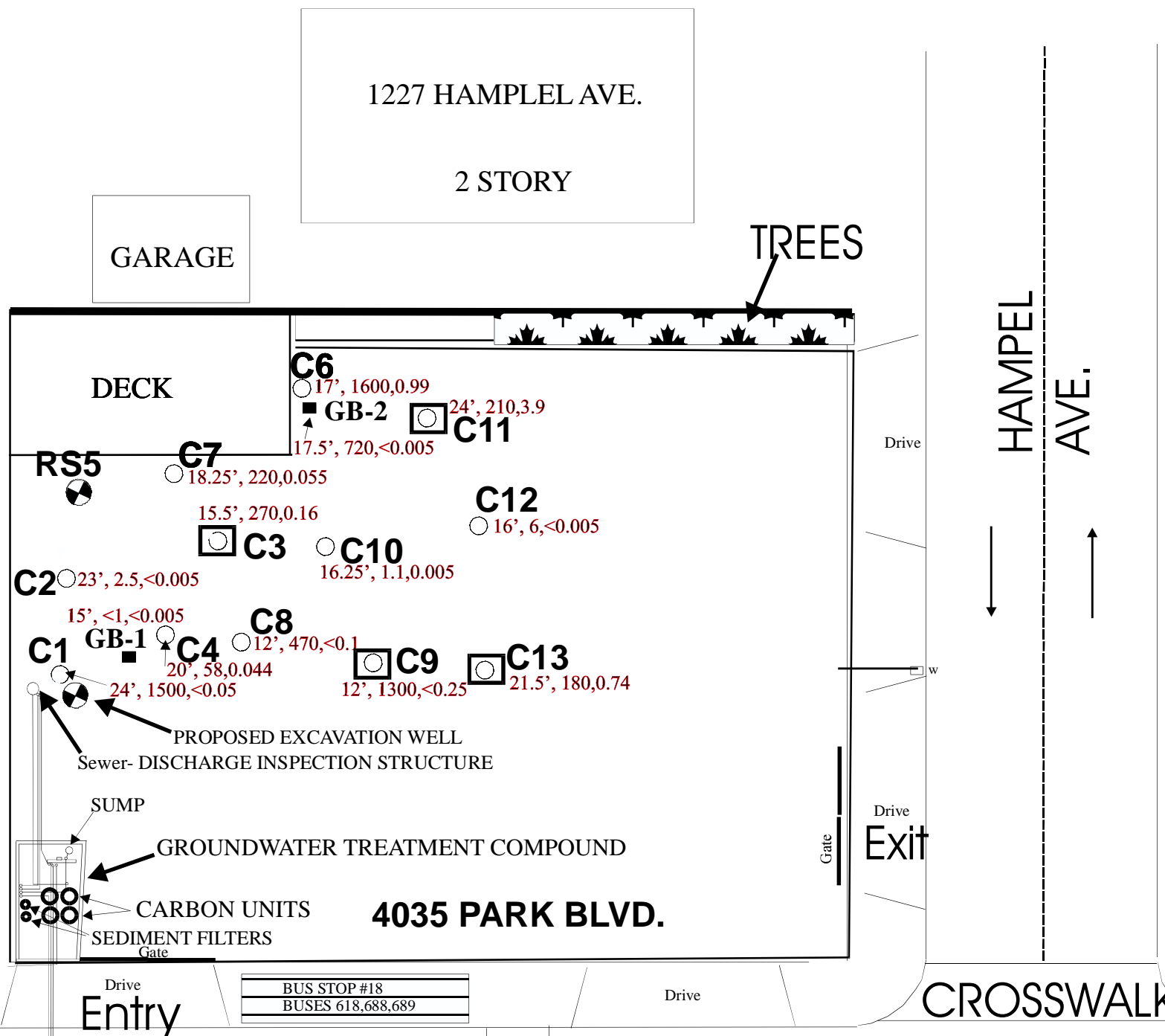
GAS UTILITY

WATER UTILITY

GAS UTILITY

WATER UTILITY

GAS UTILITY



- DP793**  
**NEW TREATMENT COMPOUND (2-28-2011)**  
**WITH SOIL SAMPLE CORE LOCATIONS**
- **C13** SOIL CORES (DECEMBER 2004)
  - **GB-2** GEOTECH BORING LOCATIONS (FEBRUARY 2011)
  - Proposed Soil sample location and depth
- 17.5', 720,<0.005*  
Soil sample depth, TPHg mg/Kg, Benzene mg/Kg

**FIGURE 4**



# DESERT PETROLEUM INC.

Mr. Jerry Wickham  
Alameda County Health Care Services  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6791  
FACSMILE (510) 337-9335

June 9, 2011

RE: The following work plan proposes to investigate the degree of Natural Attenuation that has occurred since 2004 at DP 793, 4035 Park Blvd., Oakland, California 94602.

Dear Mr. Wickham:

I have reviewed the enclosed work plan that I contracted Western Geo-Engineers to prepare.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,

William Thompson, Desert Petroleum, Inc.

Date