DESERT PETROLEUM
Station #793

OVER-EXCAVATION AND QUARTERLY GROUND WATER SAMPLE REPORT.

LOCATED AT

4035 Park Boulevard
OAKLAND, CALIFORNIA

NOVEMBER 24, 1995

BY

-WEGE-
WESTERN GEO-ENGINEERS
1386 E. BEAMER STREET
WOODLAND, CALIFORNIA 95776
(916) 668-5300

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WEGE WESTERN
GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

November 24, 1995

Mr. John Rutherford
Desert Petroleum
P.O. Box 1601
Oxnard, California 93032
(805) 644-5892
FAX (805) 654-0720

Dear Mr. Rutherford:

The following report represents our findings during the removal of previously excavated soil from the fuel and waste oil tank areas and the over-excavation of the pump dispenser area at former Desert Petroleum Station 793, located at 4035 Park Blvd., Oakland, Alameda County, California 94602.

INTRODUCTION

Western Geo-Engineers (WEGE) obtained and documented the necessary samples during the underground storage tank (UST) removal/closure (June 23, 1995). Soil contaminated with very low amounts of gasoline range hydrocarbons was found beneath the pump end of the regular leaded gasoline tank (T1A = 2 mg/Kg) and beneath the waste oil tank (WO-1 = 3 mg/Kg. Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) were associated with all samples taken and ranged from detection limits of 0.005 mg/Kg to a high of 0.16 mg/Kg of Xylenes from sample T1A. Figure 5 and Table 1 represent sample locations and laboratory results. The following report documents the activities that have occurred at this site since tank closures, June 23, 1995 through the installation of MW1 and subsequent sampling of all monitoring wells October 4, 1995.

LOCATION

Former Desert Petroleum #793 is an non-active station, located on the northwest corner of the intersection of Park Blvd. and Hampel at 4035 Park Blvd., Oakland, California, see Figure 1. Figure 2 is a portion of the U.S.G.S. Oakland East, photorevised 1980 7.5 minute quadrangle map and shows the site at an approximate elevation of 210 feet above mean sea level in projected section 32; T1S; R3W; MDB&M. Figure 3 represents the station conditions after excavation of gasoline tainted soils and subsequent backfill with clean fill.

LOCAL GEOLOGY, HYDROGEOLOGY AND GEOMORPHOLOGY.

GEOMORPHOLOGY

The site is situated on the western slope of the Berkeley Hills, east of Redwood Peak (elev. 1619 feet amsl) and south of Indian Gulch at an elevation of approximately 230 feet amsl. 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 boardering the Coastal Range with sequences of gravels, silts, sands and clays.

STRATIGRAPHY AND GROUND WATER OCCURRENCE

The native soil that comprised the sidewalls and floor of the UST excavation cavity consists of dark brown silty clay to the thirteen foot depth, overlaying this clay along the sidewall beneath the building is a thin asphalt/tar layer (approximately 1/2 inch thick) which seperates the native subsurface from approximately 1 1/2 to 2 feet of imported fill consisting of gravels and rock of cobble size beneath 4 inches of asphalt. Beneath the dark brown clay is a light brown firm to stiff clay with occasional gravel size pebbles. These pebbles are subrounded to rounded and do not interconnect and appear to be of metavolcanic origin. Observations of the sidewalls of the pump island dispenser excavation area and the excavations performed north of the building at the former waste oil UST area and west of the building adjacent to the restroom area show this fill to extent to the 7 and 8.5 foot depths respectively. The dark brown clay extends to approximately the 16 to 17 foot depth with the brown clay with occasional gravel extending to approximately the 20 foot depth at newly installed MW-1 at the southeast corner of the site and to approximately the 23 foot depth at the northwest corner of the site (RS-5). Beneath this gravely clay is a fine to medium sand, clayey sand and silty sand.

Measurements obtained on October 4, 1995 from the onsite ground water monitor wells indicate that the static water level is found between 12 to 18 feet below the surface.

UST REMOVAL

Manley and Sons excavated and removed three underground fuel storage tanks (UST's) and one waste oil UST on June 23, 1994: These tanks are shown on Figure 5 and are designated T1, T2, T3, and WO1. Tank T1 was a eight thousand gallon capacity single steel wall tank that at one time stored leaded regular fuel. Tank T2 was a ten thousand gallon capacity single steel wall tank that at one time stored unleaded fuel, Tank T3 was a six thousand gallon capacity single wall fiberglass tank that at one time stored unleaded fuel and Tank WO1 was a 500 gallon waste oil storage tank. Tank T3 broke on removal, all fiberglass was removed from the excavation. Also at this time one 200 gallon single wall steel tank that was used for waste oil was removed.

Prior to removal all fluids contained in the tanks (water utilized to conduct the last tank test) were removed by vacuum truck along with the triple rinse solution. WEGE used a GasTech LEL/O_2 meter to test the tanks prior to, and after inerting the tanks with dry ice. The readings were taken under the supervision of Mr. Larry James of the Oakland Fire Department. T1 and T2 tested below 5 % LEL both before and after dry ice, O_2 registered 20.75% before the dry ice and <1% after adding the dry ice. The waste oil tank did not show any vapor detection and the T3 broke apart during the uncovering prior to removal. These two tanks did not need to be inerted prior to removal. These site activities were witnessed by Ms. Jennifer Eberle, Hazardous Materials Specialist, Alameda County Health Agency, see Appendix A. UST's T1 and T2 were transpored by H & H for disposal under manifest #92218289 on June 23, 1994. The broken fiberglass and waste oil UST's and rinseate were transported for disposal by Manley and Sons Trucking on June 24, and June 22, 1994 respectively.

All samples of the native soil beneath the UST's were collected from the backhoe bucket and represents the 14 foot depth in the the fuel tank cavity and the 7.5 foot depth of the waste oil tank cavity. The product line samples (PL-1 and PL-2) were obtained by digging six inches into fresh soil adjacent to the dispenser locations within the product line trench. These samples were obtained at the 2.5 foot depth, see Table 1 and Figure 5. A Western Geo-Engineers (WEGE) geologist working directly under California Registered Geologist #3037 obtained the samples as required in the August 10, 1990 *TRI - REGIONAL BOARD STAFF RECOMMENDATIONS FOR PRELIMINARY EVALUATION AND INVESTIGATION OF UNDERGROUND TANK SITES*.

UST SAMPLING AND RESULTS

Inspection of the T1, T2 and the Waste Oil tanks after removal showed the tanks to be in good condition, ie. then still had tar wraps, with no obvious corrosion. The fiberglass tank broke apart prior to removal; all fiberglass was removed from the excavation. During removal of the waste oil UST staining was noted just below the asphalt near the fill. After removal of the fuel UST's, odorous soil (hydrocarbon) was noted at the 12 foot depth, but became clean at the 13 foot depth. All piping associated with the UST's and product dispensing system were removed. Field screening (UV fluorescence scope, with pentane extraction) was used to determine if over-excavation would be warranted, and to determine if petroleum hydrocarbons existed beneath the UST's. The UV screening favorably exploits petroleum hydrocarbon's fluorescing characteristics under ultraviolet light. A sample obtained with the original soil sample WO-1 (7.5 foot depth), had no fluorescence. Likewise samples obtained at the 14 foot depth beneath the fuel UST's had no fluorescence. Field screening indicated that major over-excavating was not necessary. Minor excavating continued until no (or trace amounts of) visible fluorescence was detected. At that time samples were

obtained from the base of the excavations and from the excavated soil for certified analyses. Sample results showed that the field screening technique worked well for the fuel and oil range hydrocarbons; was verified by the certified laboratory results, see Table 1 for certified laboratory results.

Other than the product line samples (PL-1 and PL-2) all samples were obtained from the bucket of the backhoe. The product line samples were obtained by hand digging 0.5 feet below the trench produced by removal of the product lines and filling a 2" X 6" clean brass sleeve with the native soil, approximately 0.5 feet into the native soil. All soil samples were placed into a 2" X 6" clean brass sleeves. The sleeves were completely filled with the soil (no air space), then the ends were covered with teflon wraps, capped with plastic end caps and sealed with duct tape. Each sleeved sample was then labeled with individual sample ID, time and date sampled and analysis to be performed. The sample was then placed into a zip lock baggie, sealed, placed on ice in a chest and cooled to 4^0C for chain of custody delivery to MATRIX Environmental Laboratories Inc. 3017 Kilgore Road #100, Rancho Cordova, California 95742, (916) 635-3962, (DHS Certified Laboratory #1676), see Appendix B.

The sample obtained beneath the waste oil tank (WO-1) was collected from the 7.5 foot depth and analyzed for Total Petroleum Hydrocarbons as Gasoline and Diesel (TPHg-d) 8015 modified, Oil and Grease 5520E, Benzene-Toluene-Ethylbenzene and Xylenes (BTEX), Volatile Organic Compounds 8240, Semi Volatile Organic Compounds 8270, and CAM Metals TTLC (Cd, Cr, Pb, Ni & Zn).

All compounds of interest for were below detection limits, with the exception of 3 mg/Kg of gasoline range hydrocarbons, trace amounts of BTEX and background amounts of the metals. Diesel range hydrocarbons, PCB's, Volatile Organic Compounds, and Cadmium were below detection limits.

The product line samples (PL-1 and PL-2) along with the fuel UST samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg) 8020 modified, and Benzene-Toluene-Ethylbenzene and Xylenes (BTEX). Samples T1A and T1B were also tested for CAM Metal TTLC Pb. All samples tested showed trace amounts of BTEX with only T1A testing positive for gasoline range hydrocarbons, at 2 mg/Kg. The lead values from T1A and T1B are most likely representative of background levels for lead, 3 and 7.2 mg/Kg respectively. See Table 1 for complete laboratory results.

EXCAVATED SOIL HANDLING

Approximately 20 cubic yards of soil was removed from the waste oil tank excavation. And 180 cubic yards form the product line and UST's excavations. Seven soil samples that represented

approximately 25 cubic yard increments were obtained from the excavated soil piles. With the exception of that soil generated from the waste oil cavity, all the soil was then placed back into the respective excavation, with the approval of Alameda County Department of Environmental Health. Safety and site restoration were the driving forces for this procedure. Due to the location of (behind lockable gates, and the minor amount of soil generated (approximately 20 cubic yards) the excavated soil from the waste oil tank cavity was left on the surface. It was agreed that, once excavated soil sample results were obtained a workplan would be developed for any future needs of treating/handling this soil.

Correspondence between Desert Petroleum Inc. and Alameda County Health Care Services agreed that the backfilled soils should be excavated and removed to the appropriate landfill for disposal, see Appendix A. WEGE initiated the profiling of this soil to Forward Landfill, Stockton, California. Along with the already generated sample results, Forward also required the Halogenated Volatile Organics (EPA Method 8010) and the TTLC metals for lead, nickel, zinc, chromium and cadmium on the backfilled soil generated from the waste oil UST area. Forward also needed TTLC lead from the pump island and fuel UST backfilled soil. On July 10, 1995, a WEGE geologist utilizing a hand auger sampling kit, hand augered to the seven foot depth in the waste oil backfilled soil and obtained two samples that would be composited into one (WO A & B), and hand augered and sampled six locations to the twelve foot depth in the fuel UST backfilled area and obtained twelve sample that were composited into six samples. These samples were Chain of Custody delivered to Superior Analytical Laboratory for the requested analysis. These laboratory results along with the earlier results obtained during the tank removals was submitted to Forward Landfill along with the profile form, see Appendix C.

REMOVAL OF BACKFILLED SOIL AND OVER-EXCAVATION OF PETROLEUM HYDROCARBON TAINTED SOIL.

Removal of the backfilled soil commenced on August 8, 1995. A WEGE geologist utilizing a portable gas chromatograph (Photovac 10S50) screened the base of the excavations and sidewalls once the removal of the backfill had been completed. Ms. Jennifer Eberle of the Alameda County, Department of Environmental Health (ACDEH) directed the confirmation sampling each time the field screening, utilized by the WEGE geologist, indicated that no more excavating was necessary in that specific area. The excavating, field screening confirmed through August 31, 1995, see Field Notes Appendix D and Regulatory Correspondence Appendix A. During this time the hydraulic hoists were removed and documentation sampling was performed, the pump island area was excavated to the 17 foot depth towards the building and 2 exploratory pits were dug to the 17 foot depth, north of the building (Former waste oil UST area) and west of the building. This was accomplished to further define the extent of, and to

remove as much as possible, of the degraded gasoline range tainted soils, see Figures 6 and 7, Table 1 and Appendix B - Laboratory Reports.

Prior to backfilling the excavations, 6 inch diameter F480 Schedule 40 PVC monitoring pipe was installed in the pump island and the two exploratory excavations. These three areas were then backfilled with 1/4 inch clean pea gravel from the base of the excavations to approximately the 7 foot depth in the pump island excavation and to the 3 foot depth in the 2 exploratory excavations. Once the pea gravel was in place all excavated areas were brough to grade using clean road base AB fill that was placed in two foot lifts and compacted, see Figure 3. The three six inch PVC slotted pipes can be used for fluid removal and/or injection if additional or further abatement procedures become necessary.

GROUND WATER CONDITIONS

The four existing wells (RS-2, RS-5, RS-6 and RS-7) along with the newly installed well (MW-1) were sampled on October 4, 1995. Prior to this sampling event MW-1 was installed on September 5, 1995 and developed on September 11, 1995. Figure 4 represents the ground water gradient beneath the site on October 4, 1995 and Figure 8 shows the chemical results from the sampling that same day. These figures indicate a ground water flow from the southeast corner of the site (MW-1) to the northwest between RS-5 and RS-6. Figure 7, which deplicts soil sample results, shows a contaminant flow pattern, see Tables 1 and 2.

HEALTH AND SAFETY

This site has been classified as Level D. Common sense and standard construction safety measures are to be maintained at all times. All WEGE personnel involved with this site have a current Certificate for OSHA-SARA Safety Training, as prescribed in 29CFR 1910.120.

SUMMARY

Upon removal of the underground storage tanks, gasoline odors were noted at the twelve foot depth of the excavation. This soil was removed and native soil samples obtained at the fourteen foot depth. UV fluorescent screening of the soil successfully identified the impacted soil. After obtaining the necessary samples the excavations were backfilled with the material that was excavated from them; except for the waste oil excavation which was left open and the excavated soil left on the surface. Certified laboratory results indicate that the contaminated soil does not exceed 14 feet below the surface in the fuel UST cavity, only to the 7.5 foot depth at the waste oil UST cavity and the 2.5 foot depth at the product line cavity. On August 8, 1995,

the backfilled soil was removed and it was discovered that the pump island area soil was impacted to the 15 to 17 foot depths. This area was over-excavated and all generated soil removed to Forward Landfill, Stockton, California. Excavation continued towards the building and was terminated where field screening indicated that the impacted soils had been removed or where/when undermining and possible collapse of the building became a concern. Also during this time the hydraulic hoists were removed and samples were obtained to document the possibility of gasoline range hydrocarbons beneath the building. The 14.5 foot depth sample indicated that the soil beneath the hoists has been impacted. Two exploratory excavations were then dug, one north of the building at the former waste oil UST area and one west of the building. Sample results of these two areas noted as T1 and T2 respectively indicated that gasoline range hydrocarbons exist at the 17 foot depth in T1, with minor contaminants found at 17.5 feet in T2, see Table 1 and Figure 7.

RECOMMENDATIONS

Western Geo-Engineers (WEGE) recommends Desert Petroleum continue quarterly sampling/monitoring of the exisiting ground water monitor wells (MW-1, RS-2, RS-5, RS-6 and RS-7). A workplan to further define the impact that may have occurred offsite to the north northwest (RS-7) should be generated. This workplan will specify methods to perform sampling in the backyards along the sewer lateral and method(s) to determine if remedial actions are necessary.

LIMITATIONS

This report 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.

The services performed by Western Geo-Engineers, a corporation, under California Registered Geologist #3037 and/or Contractors License #513857, 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. Please note that known contamination of soil and/or ground water must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely yours,

George L. Converse
Project Geologist

Jack E. Napper
Ca. Reg. Geologist #3037

cc: Ms. Jennifer Eberie, HMS, Alameda County Health
(510)271-4530

TABLE 1

SOIL- CHEMICAL ANALYSIS DATA SUMMARY

DESERT PETROLEUM, INC. SITE #793

4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(all concentrations in parts per million [mg/Kg, ppm])

SAMPLE LOCTION	SAMPLE ID#	DATE SAMPLED	DEPTH OF SAMPLE BELOW GROUND SURFACE IN FEET	TOTAL PETROLEUM HYDROCARBONS EPA METHODS 8020/5030 GASOLINE	8015/3550 DIESEL	5540 D&F OIL	AROMATIC VOLATILE ORGANICS EPA METHOD 8020 BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
BORING FOR RS-1	RS-1;5'	12/11/89	5	16	NA	NA	NA	NA	NA	NA
	RS-1;10	12/11/89	10	33	NA	NA	NA	NA	NA	NA
	RS-1;15	12/11/89	15	<1	NA	NA	NA	NA	NA	NA
	RS-1;20	12/11/89	20	<1	NA	NA	<0.003	0.008	<0.003	<0.003
	RS-1;25	12/12/89	25	10	NA	NA	0.056	0.12	0.041	0.13
	RS-1;30	12/12/89	30	<1	NA	NA	<0.003	0.012	<0.003	<0.003
BORING FOR RS-2	RS-2;5	12/11/89	5	<1	NA	NA	NA	NA	NA	NA
	RS-2;10	12/11/89	10	11	NA	NA	NA	NA	NA	NA
	RS-2;15	12/11/89	15	<1	NA	NA	NA	NA	NA	NA
	RS-2;20	12/11/89	20	<1	NA	NA	<0.003	0.017	<0.003	<0.003
BORING FOR RS-3	RS-3;5	12/11/89	5	<1	NA	NA	<0.003	0.043	<0.003	0.008
	RS-3;10	12/11/89	10	<1	NA	NA	<0.003	0.02	<0.003	<0.003
BORING FOR RS-4	RS-4;5	12/12/89	5	50	NA	NA	0.78	3.4	0.74	4.1
	RS-4;10	12/12/89	10	8	NA	NA	0.24	0.94	0.17	0.92
BORING FOR RS-5	RS-5;5	12/12/89	5	<1	NA	NA	NA	NA	NA	NA
	RS-5;10	12/12/89	10	<1	NA	NA	NA	NA	NA	NA
	RS-5;15	12/12/89	15	<1	NA	NA	NA	NA	NA	NA
	RS-5;20	12/13/89	20	530	NA	NA	* 1.5	8.4	3.9	22
	RS-5;25	12/13/89	25	4	NA	NA	0.7	0.42	0.058	0.26
	RS-5;30	12/13/89	30	1600	NA	NA	NA	NA	NA	NA
	RS-5;35	12/13/89	35	<1	NA	NA	NA	NA	NA	NA
	RS-5;40	12/13/89	40	1	NA	NA	0.036	0.069	0.009	0.043
BORING FOR RS-6	RS-6;5	12/13/89	5	<1	NA	NA	NA	NA	NA	NA
	RS-6;10	12/13/89	10	<1	NA	NA	NA	NA	NA	NA
	RS-6;15	12/13/89	15	<1	NA	NA	NA	NA	NA	NA
	RS-6;20	12/13/89	20	<1	NA	NA	0.017	0.007	<0.003	0.015
	RS-6;25	12/13/89	25	<1	NA	NA	0.009	0.011	<0.003	<0.003
	RS-6;30	12/13/89	30	<1	NA	NA	NA	NA	NA	NA
	RS-6;35	12/13/89	35	<1	NA	NA	0.005	0.007	<0.003	0.006
BORING FOR MW-1	MW1-5	09/05/95	5	<1	NA	NA	0.005	0.005	<0.005	0.015
	MW1-10	09/05/95	10	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
	MW1-15	09/05/95	15	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
	MW1-20	09/05/95	20	<1	NA	NA	<0.005	<0.005	<0.005	<0.005

* was the cap fungal at the time, but is no longer (196)

TABLE 1

SOIL- CHEMICAL ANALYSIS DATA SUMMARY

DESERT PETROLEUM, INC. SITE #793

4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(all concentrations in parts per million (mg/Kg, ppm))

SAMPLE LOCTION	SAMPLE ID#	DATE SAMPLED	[redacted] BELOW GROUND SURFACE IN FEET	TOTAL PETROLEUM HYDROCARBONS EPA METHODS 8020/5030 GASOLINE	8015/3550 DIESEL	5540 D&F OIL	AROMATIC VOLATILE ORGANICS EPA METHOD 8020 BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
EXCAVATION	WO-1	06/23/95	7.5	3	<1	<50	0.063	0.34	0.048	0.23
WASTE OIL UST	T1-17	08/31/95	17	940	NA	NA	2.1	3.3	7.9	33
UST REMOVAL	T1A	06/23/95	14	2	NA	NA	0.022	0.075	0.03	0.16
RL 8K	T1B	06/23/95	14	<1	NA	NA	0.027	0.028	0.006	0.026
UST REMOVAL	T2A	06/23/95	14	<1	NA	NA	0.022	0.027	0.005	0.022
UL 10K	T2B	06/23/95	14	<1	NA	NA	0.017	0.025	0.005	0.02
UST REMOVAL	T3A	06/23/95	14	<1	NA	NA	0.013	0.012	<0.005	<0.015
UL 6K	T3B	06/23/95	14	<1	NA	NA	0.013	0.011	<0.005	<0.015
PRODUCT LINES	PL-1	06/23/95	2.5	<1	NA	NA	0.01	<0.005	<0.005	0.02
DISPENSER	PL-2	06/23/95	2.5	<1	NA	NA	0.01	0.031	0.0059	0.032
HYDRAULIC HOIST	SLP-7	08/16/95	7	NA	NA	<50	NA	NA	NA	NA
	[redacted]	08/16/95	14.5	[redacted]	NA	NA	[redacted]	25	18	92
	NPL-7	08/16/95	7	NA	NA	<50	NA	NA	NA	NA
OVER-EXCAVATION										
WEST SIDEWALL	SWA-13	08/08/95	13	3	NA	NA	0.005	0.009	0.046	0.36
UST EXCAVATION	SWB-6	08/08/95	6	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
NORTH SIDEWALL	SWC-13	08/08/95	13	3	NA	NA	<0.005	<0.005	<0.005	0.022
UST EXCAVATION	SWD-6	08/08/95	6	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
SOUTH SIDEWALL										
UST EXCAVATION	SWB-11.5	08/08/95	11.5	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
WEST SIDEWALL	[redacted]	08/08/95	14	3	NA	NA	0.12	0.24	0.053	0.29
PUMP ISLAND AREA	G-17	08/08/95	17	6	NA	NA	0.16	0.31	0.11	0.68
[redacted]	[redacted]	08/10/95	[redacted]	1000	NA	NA	3.6	31	14	77
[redacted]	[redacted]	08/10/95		2000	NA	NA	4.5	35	18	130
WEST SIDEWALL	J-BOT WEST	08/11/95	13	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
PUMP ISLAND AREA	K-SW WEST 8	08/11/95	8	<1	NA	NA	<0.005	<0.005	<0.005	0.005

TABLE 1

SOIL- CHEMICAL ANALYSIS DATA SUMMARY

DESERT PETROLEUM, INC. SITE #793

4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(all concentrations in parts per million [mg/Kg, ppm])

SAMPLE LOCTION	SAMPLE ID#	DATE SAMPLED	DEPTH OF SAMPLE BELOW GROUND SURFACE IN FEET	TOTAL PETROLEUM HYDROCARBONS EPA METHODS 8020/5030 GASOLINE	8015/3550 DIESEL	5540 D&F OIL	AROMATIC VOLATILE ORGANICS EPA METHOD 8020 BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
SOUTH PUMP ISLAND	PI-1	08/14/95	12	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
EXCAVATION	PI-2	08/14/95	7	<1	NA	NA	[redacted]	<0.005	0.005	0.03
	PI-3	08/14/95	8	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
	PI-4	08/14/95	6	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
EXPLORATORY HOLE NORTH SIDE OF STORE	[redacted]	08/31/95	17	940	NA	NA	[redacted]	3.3	7.9	33
EXPLORATORY HOLE WEST SIDE OF STORE	T2-11.5	08/31/95	11.5	<1	NA	NA	<0.005	<0.005	<0.005	<0.005
	T2-17.5	08/31/95	17.5	4	NA	NA	[redacted]	0.07	0.062	0.31

TABLE 2

WATER CHEMICAL ANALYSIS DATA SUMMARY

DESERT PETROLEUM, INC. SITE #793

4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(all concentrations in parts per billion [ug/L, ppb])

(FBMSL = feet above mean sea level)

WELL ID#	DATE SAMPLED	WELL CASING ELEVATION FBMSL	DEPTH TO GROUND WATER FBMSL	GROUND WATER ELEVATION: FBMSL	TPH EPA METHODS 8020/5030 GASOLINE	AROMATIC VOLATILE ORGANICS EPA METHOD 8020 BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
RS-1	12/14/89	240	24.25	215.75	19000	2600	2700	200	1200
	12/90				15000	3500	330	170	760
	2/91				6900	910	200	39	540
	6/91				1600	56	180.000	12	26
	9/91				4100	730	7.6	5.1	24
	12/91				8300	950	160	71	190
	11/09/92	100.18	17.05	83.13	1700	730	9.6	16	14
	04/07/94	100.18	13	87.18	860	84	12	16	110
	06/19/94	228.15	13.37	214.78	1400	150	12	52	87
	09/17/94	228.15	16.33	211.82	310	30	1.8	2.8	3.9
	03/12/95	228.15	4.66	223.49	ND	ND	ND	ND	ND
	DESTROYED BY OVER-EXCAVATION OF UST-DISPENSER AREAS (8/14/95 REPLACED WITH MW-1 9/5/95.								
MW-1	10/04/95	232.57	12.38	220.19	ND	ND	ND	ND	ND
RS-2	06/19/94	227.19	10.89	216.3	140	9.2	34	4.3	24.0
	03/12/95	227.19	5.26	221.93	ND	ND	ND	ND	ND
	10/04/95	230.43	15.05	215.38	ND	ND	ND	ND	ND
RS-5	12/14/89	241.26	25.97	215.29	57000	3100	4300	670	3400
	2/91				FLOATING PRODUCT				
	6/91				FLOATING PRODUCT				
	9/91				FLOATING PRODUCT				
	12/91				FLOATING PRODUCT				
	11/09/92	98.99	20.73	78.26	50000	650	4800	1100	15000
	04/07/94	98.99	18.16	80.83	27000	5000	8700	550	2800
	06/19/94	227.65	18.11	209.54	20000	2100	5300	470	2500
	09/17/94	227.65	19.63	208.02	9300	230	340	110	700
	03/12/95	227.65	14.54	213.11	93000	6400	2000	19000	10000
	10/04/95	230.64	17.53	213.11 Same	16000 ↓	420 ↓	2100	320	1800
RS-6	12/14/89	240.23	22.52	217.71	11000	1400	1700	160	860
	2/91				FLOATING PRODUCT				
	6/91				95000	4200	4200	650	3700
	9/91				FLOATING PRODUCT				
	12/91				64000	3700	2300	730	4100
	11/09/92	99.27	19.43	79.84	19000	1600	710	500	1600

TABLE 2

WATER CHEMICAL ANALYSIS DATA SUMMARY

DESERT PETROLEUM, INC. SITE #793

4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(all concentrations in parts per billion (ug/L, ppb))

(FBMSL = feet above mean sea level)

WELL ID#	DATE SAMPLED	WELL CASING ELEVATION FBMSL	DEPTH TO GROUND WATER FBMSL	GROUND WATER ELEVATION FBMSL	TPH EPA METHODS 8020/5030 GASOLINE	AROMATIC VOLATILE ORGANICS EPA METHOD 8020 BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
	04/07/94	99.27	14.42	84.85	16000	1200	1300	290	1100
	06/19/94	227.22	14.45	212.77	23000	1300	2200	590	2200
	09/17/94	227.22	19.52	207.7	24000	630	790	250	1100
	03/12/95	227.22	8.9	218.32	3200	450	13	82	230
	10/04/95	230.22	17.78	212.44	3700 ↑	170 ↓	250	38	290
RS-7	7/90				5600000	24000	210000	50000	740000
	2/91					FLOATING PRODUCT			
	6/91					FLOATING PRODUCT			
	9/91					FLOATING PRODUCT			
	12/91				270000	11000	22000	2000	13000
	11/09/92	67.88	4.62	63.26	81000	12000	16000	1900	13000
	04/07/94	67.88	4.03	63.85	74000	16000	16000	1400	8500
	06/19/94	195.92	4.07	191.85	83000	22000	19000	1500	9500
	09/17/94	195.92	4.05	191.87	270000	13000	15000	2100	1100
	03/12/95	195.92	3.72	192.2	35000	5100	560	6300	3600
	10/04/95	199.35	4.03	195.32	96000 ↑	14000 ↑	14000	1300	7000

ND BELOW LABORATORY DETECTION LIMITS

-WEGE-

DESERT STATION #793
4035 Park Blvd.
Oakland, California

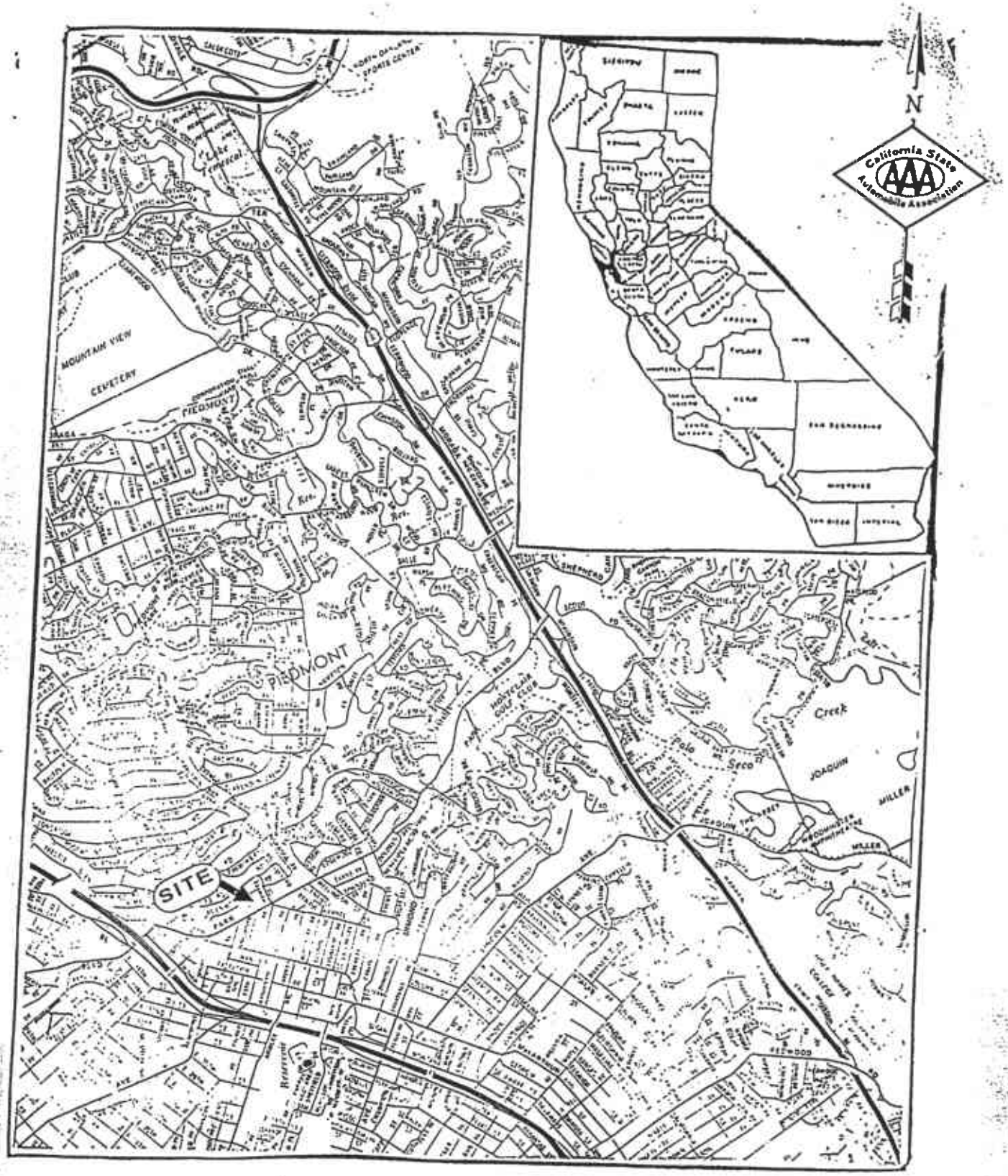


FIGURE 1

Location (AAA Map)

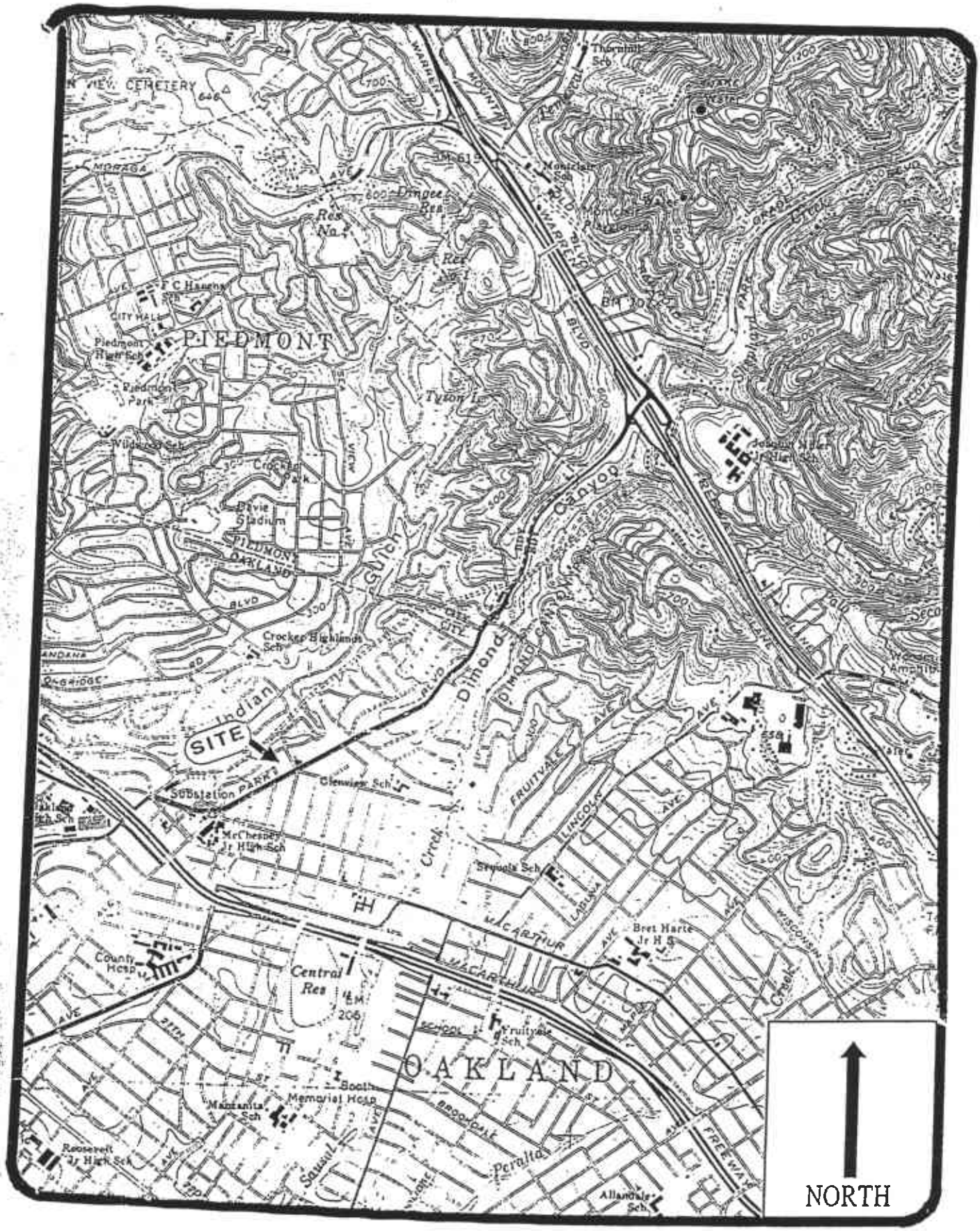
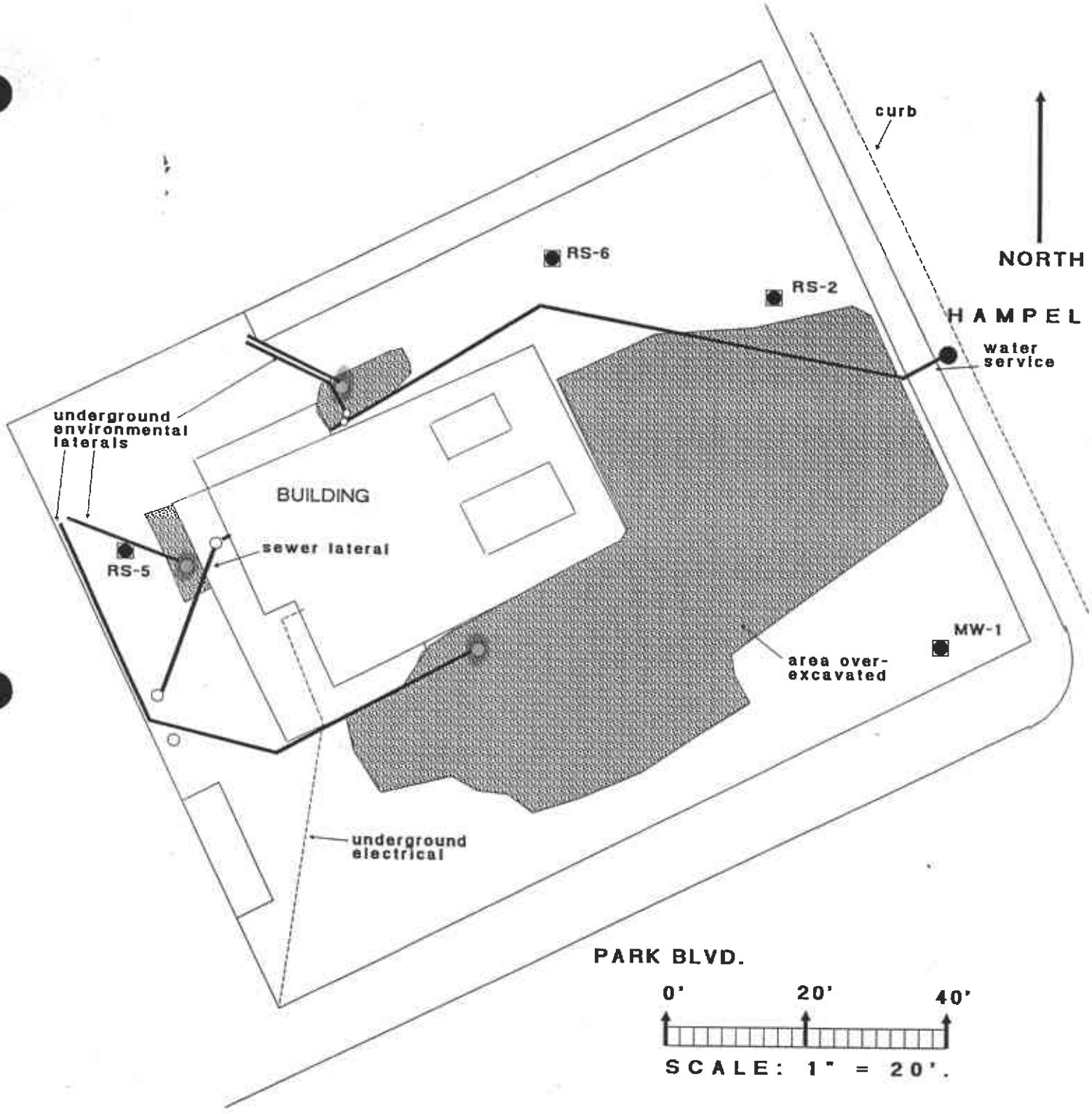


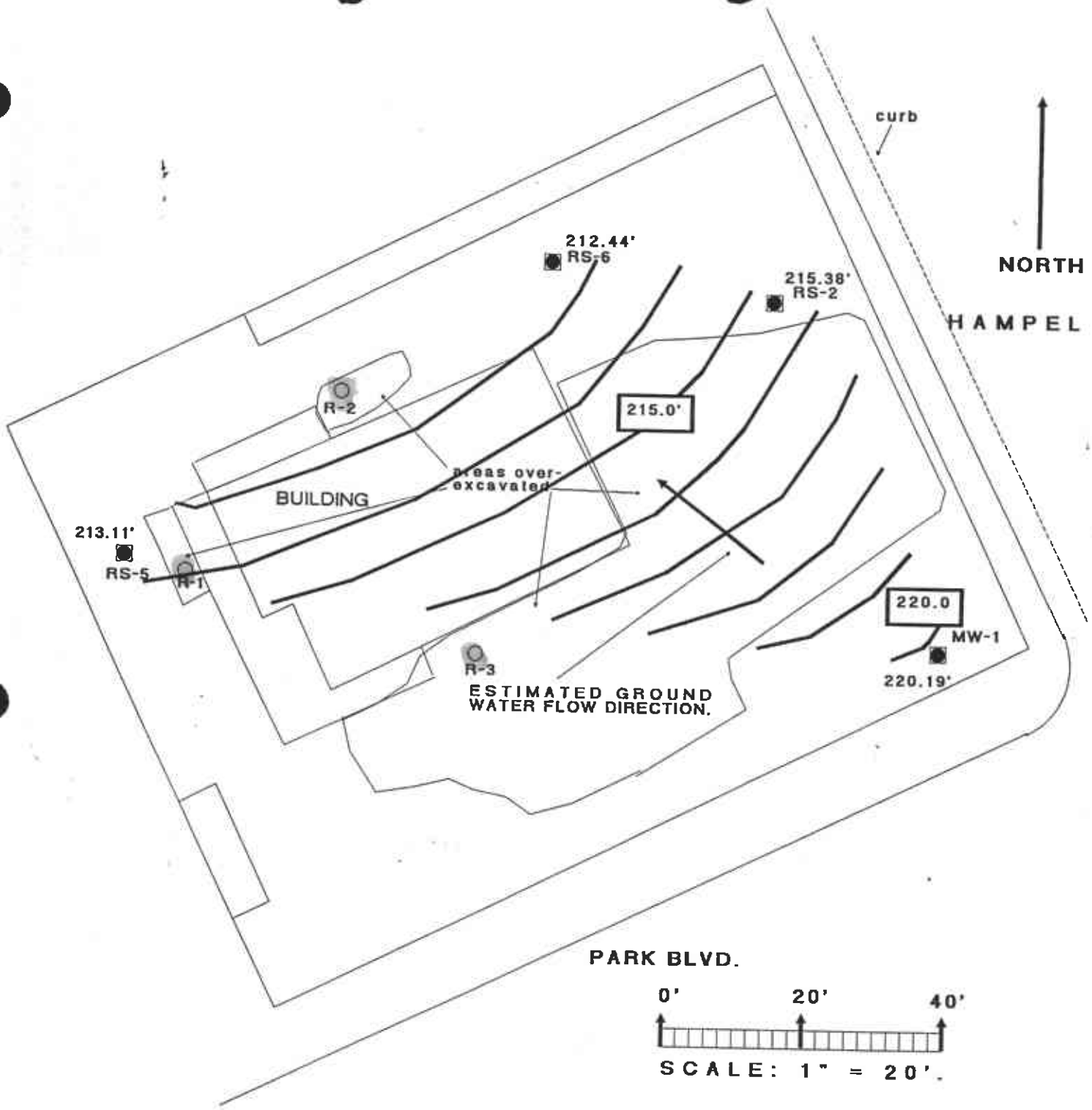
FIGURE 2,, USGS TOPOGRAPHIC MAP



DESERT PETROLEUM STATION #793
4035 PARK BLVD.,
OAKLAND, CALIFORNIA 94602

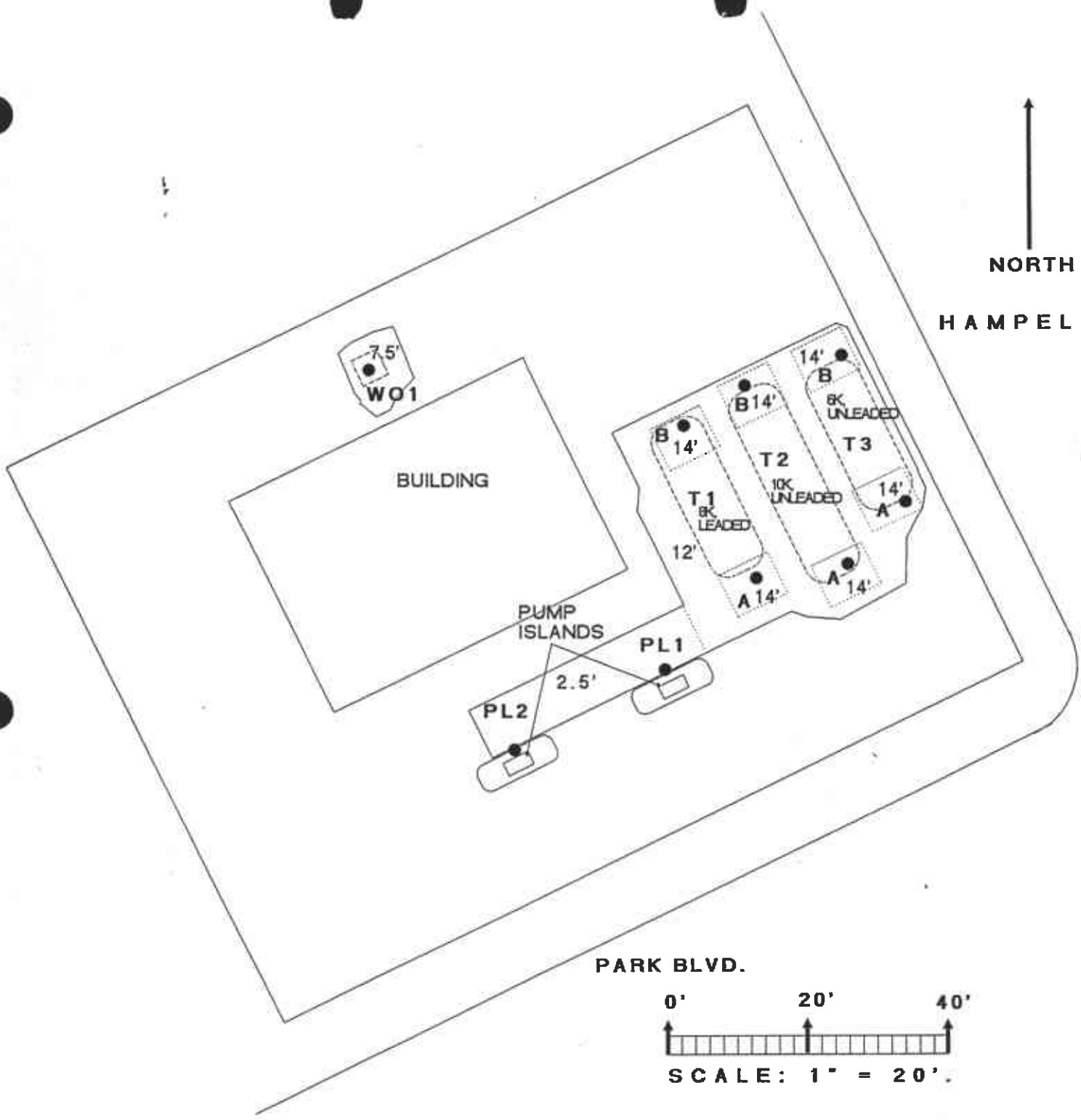
FIGURE 3
SITE BASE MAP

SEPTEMBER 8, 1995



DESERT PETROLEUM STATION #793
4035 PARK BLVD.,
OAKLAND, CALIFORNIA 94602

FIGURE 4
GROUND WATER
GRADIENT MAP
OCTOBER 4, 1995



DESERT PETROLEUM STATION *793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

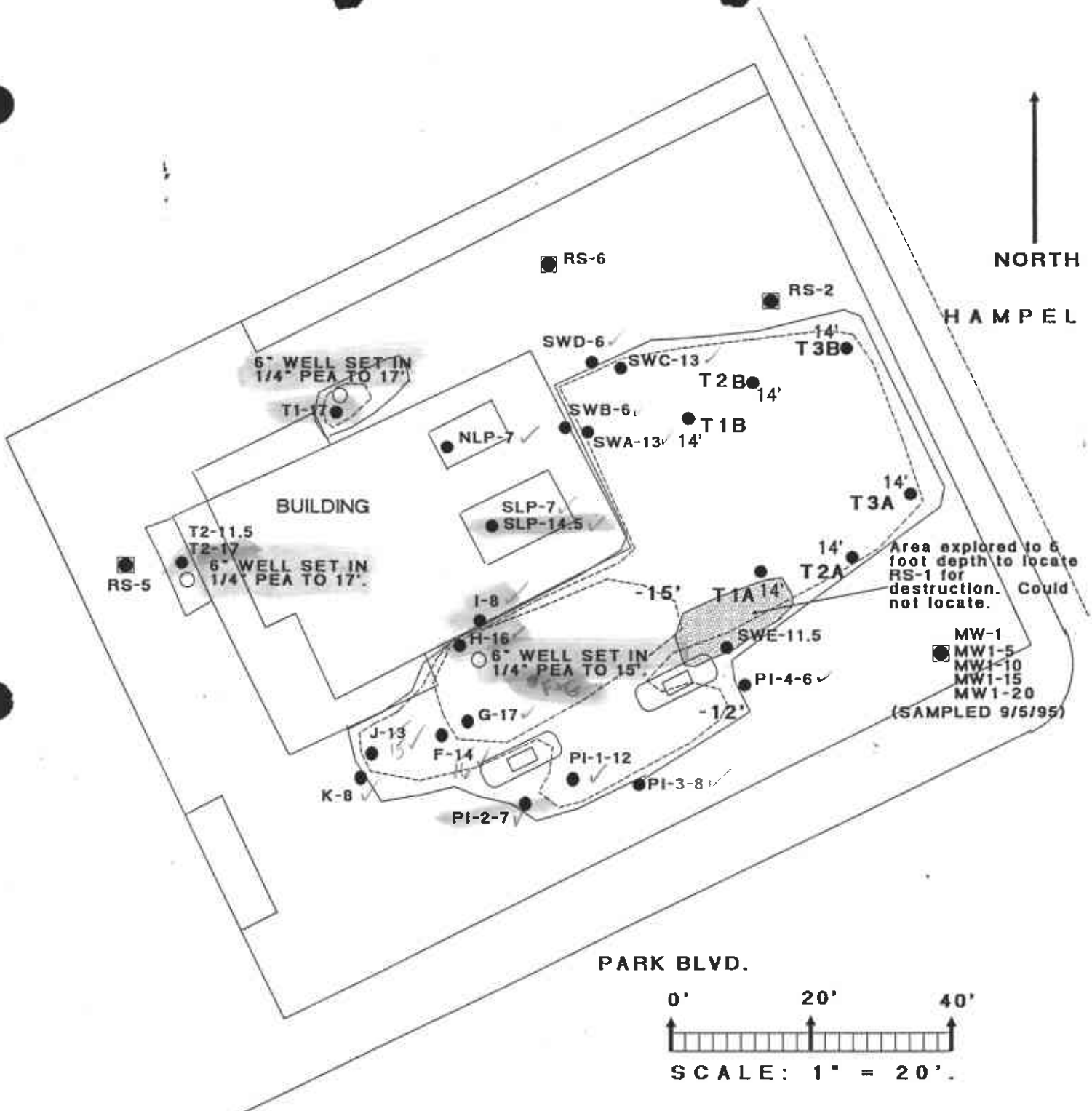
EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
● A 14'	SAMPLE POINT AND ID #.

FIGURE 5

UST AND PRODUCT LINE REMOVAL SAMPLING LOCATIONS

JUNE 23, 1994



EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
A 14'	SAMPLE POINT AND ID #.
-1.2'	BELOW GRADE CONTOUR IN FEET BELOW SURFACE.

DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

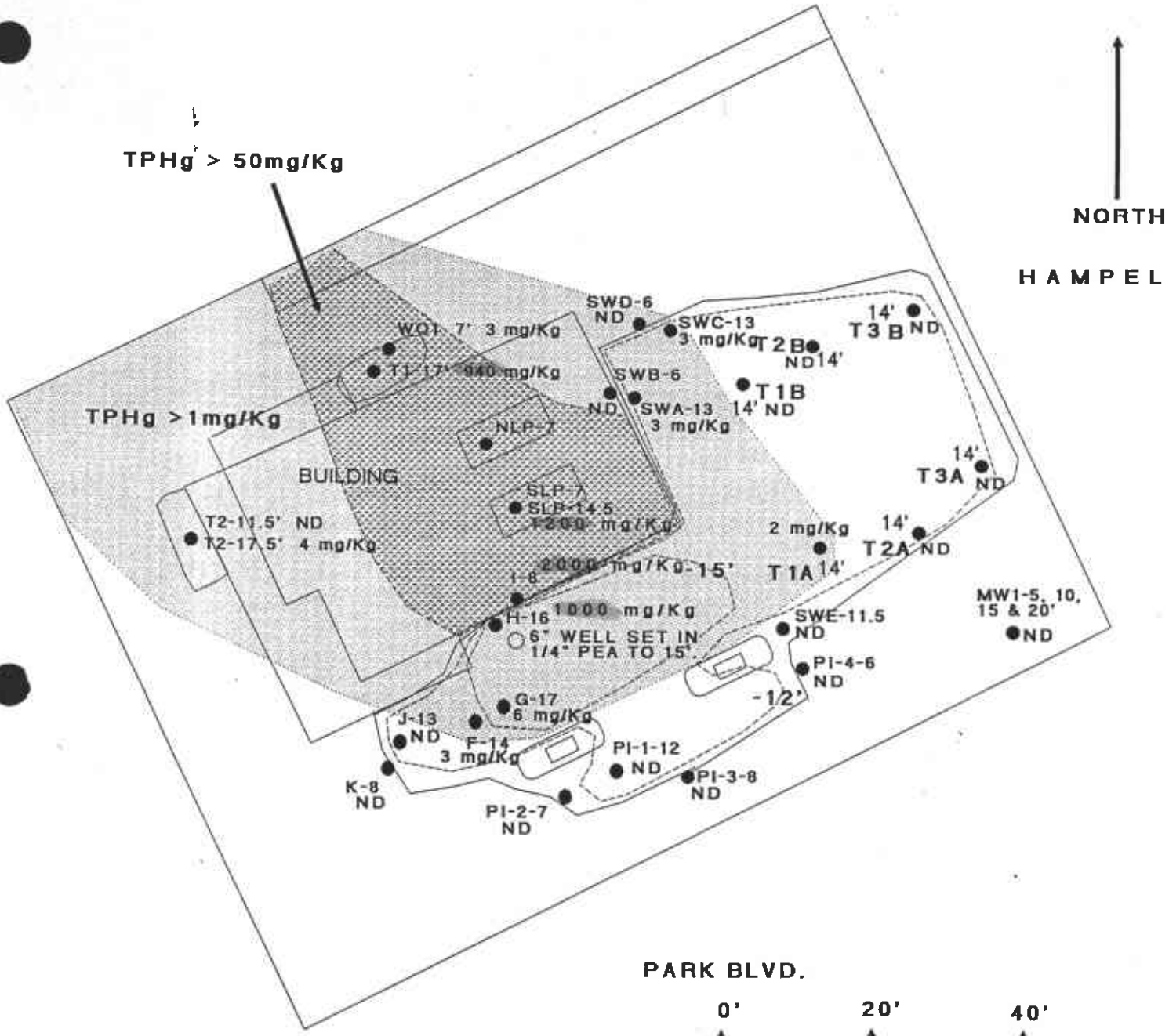
hot spots (see Table 1)

FIGURE 6

OVER-EXCAVATION SAMPLING LOCATIONS

AUGUST 8, 10, 11, 14, 16, AND 31, 1995

SE not there



EXPLANATION:

2.5' 7.5' 12' 14' — EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.

T1 — REMOVED TANK DESIGNATION.

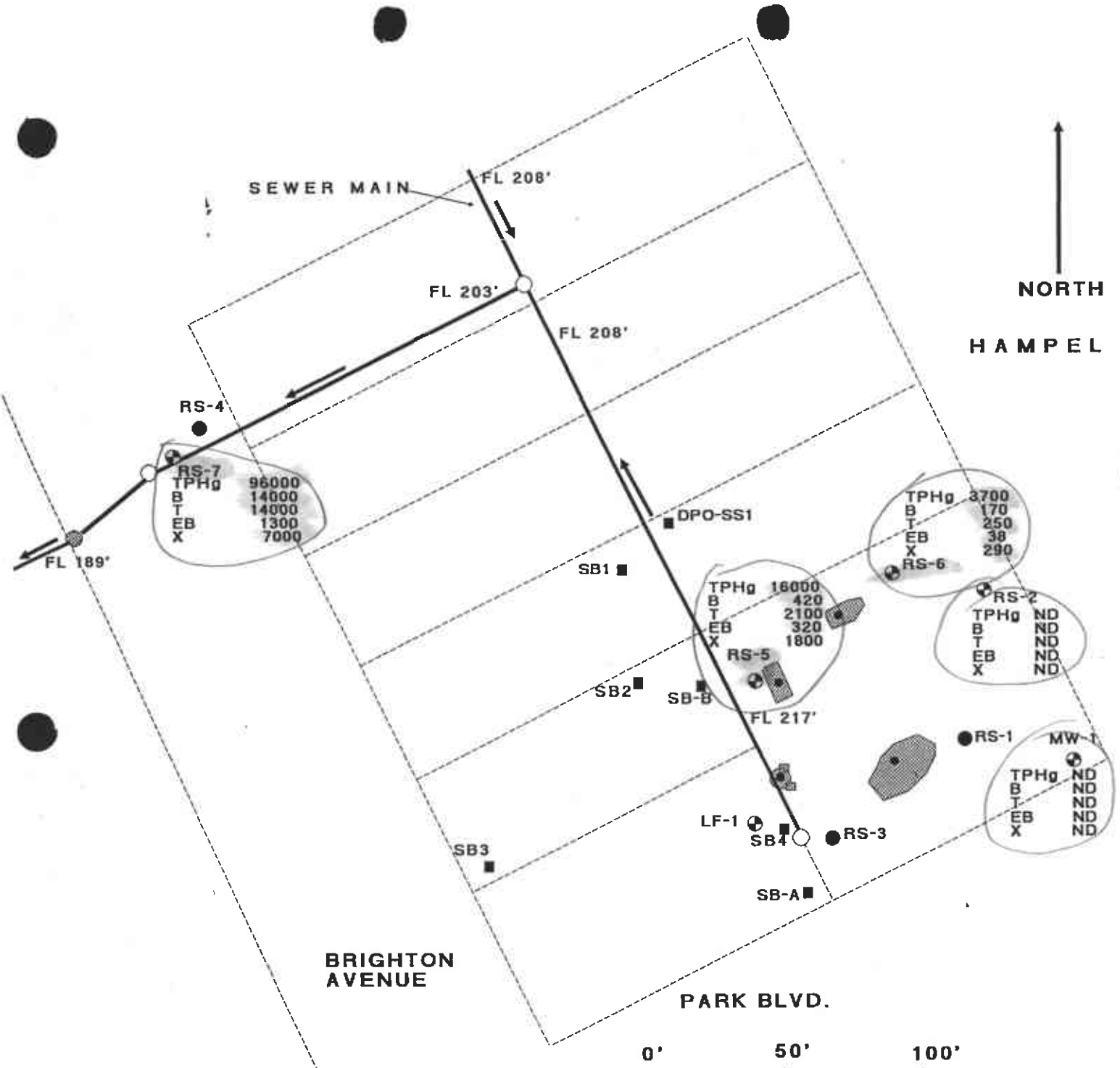
A 14' — SAMPLE POINT AND ID #.

-1/2' — BELOW GRADE CONTOUR IN FEET BELOW SURFACE.

DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

FIGURE 7

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE LEFT IN SOIL AFTER EXCAVATING ON AUGUST 31, 1995.



CONCENTRATIONS ARE IN UG/L, PPB DISSOLVED IN WATER.

RS-4 ● DESTROYED WELLS.

SB-A■ GRAB SOIL/WATER SAMPLE LOCATIONS.

MW-1 ■ MONITOR WELL LOCATION WITH ID# AND GROUND WATER ANALYTICAL RESULTS:
TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B = BENZENE
T = TOLUENE
EB = ETHYLBENZENE
X = XYLENES

INJECTION/RECOVERY TRENCHES.

DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

FIGURE 8
GROUND WATER
ANALYTICAL RESULTS
OCTOBER 4, 1995

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

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

July 27, 1995
STID 1248

John Rutherford
Desert Petroleum Inc.
PO Box 1601
Oxnard CA 93032

RE: Desert Petroleum site #793, 4035 Park Blvd., Oakland CA 94602

Dear Mr. Rutherford,

This letter is to document the agreement that we made during the fuel tank removal in June 1994. You were allowed to backfill the tank excavation with the stockpiled soils on the day of the tank removal due to a) lack of funds for offhauling, b) site safety, and c) the need to restore the site visually and aesthetically. However, we agreed to remediate this soil if it were later found to be contaminated. Maximum concentrations of 200 ppm TPH-g, 0.011 ppm benzene, 0.46 ppm toluene, 0.47 ppm ethylbenzene, and 4.9 ppm xylenes were subsequently detected in these backfilled soils. In addition, the stockpiled soils from the waste oil tank removal were apparently backfilled, as per a telecon with George Converse of WEGE today. These soils contained 1100 ppm O&G and 0.009 ppm benzene.

You have indicated your willingness to remediate these contaminated backfilled soils by excavation, as per our telecon today. This office agrees with this approach. Please contact me at least 2 business days in advance by telephone prior to field work.

We also discussed the need for further investigation in the vicinity of the west portion of the site. It appears that this area has not been fully characterized. This is the area where the piping leak was initially detected in November 1989. It is possible that "residual" soil contamination exists in this area, and is contributing to the groundwater contamination plume. **The Corrective Action Plan, previously requested in my letter dated 6/5/95, and due on October 20, 1995 (with the extension), should also address this issue.**

If you have any questions or comments, please contact me directly at 510-567-6761.

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Kevin Graves, RWQCB
Rick Pilat, Remediation Service, Intl, 2060 Knoll Dr., Suite 200, Ventura CA 93003
Cheryl Gordon, SWRCB, UST CleanUp Fund
George Converse, WEGE, 1386 E. Beamer St., Woodland CA 95776
Tom Peacock/file

je.1248-A

desert petroleum inc.

John Rutherford
Director
Environmental Affairs

August 14, 1995

Ms. Jennifer Eberle
Alameda County
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Re: Desert Petroleum, Inc.
4035 Park Blvd.
Oakland, CA

Dear Ms. Eberle:

This letter is to advise you that the investigation and further remedial work activities at the subject site have been assigned to Western Geo-Engineers, (WEGE). The contact person for the project is Mr. George Converse, 1386 East Beamer Street, Woodland, CA 95776-6003. The telephone number for WEGE is 916-668-5300.

Remediation Service will continue to do some site work of a minor nature from time to time, but the future project management of the work will be under the direction of Mr. Converse and WEGE.

I would like to express my appreciation to you for your cooperation and scheduling of your time last week during our site excavation work. This type of work rarely goes as planned and your availability for sample verification was most appreciated.

If you require information or have questions concerning the project please call me or contact Mr. Converse direct.

Very truly yours,

John Rutherford

cc: George Converse, WEGE

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Desert Petroleum Today Date 8/11/95 Friday

Site Address 4035 Park Blvd.

City Oakland Zip 94602 Phone ______

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:
____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Business Plans, Acute Hazardous Materials
✓ III. Underground Tanks

excavate + sample

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(i)
___	18. Exemption Request? (Y/N)	25536(b)
___	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ________

___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ____	2711
___	14. As Built Date: ____	2635

Rev 6/88

3:20 arrived onsite.

Comments:

Sampled SW wall bet bldg + pump island (see map). Samples J + K. Next excavation will be bet. pump island + Park Blvd.
They installed a well (6") bet. bldg + pump island, while backfilling. This was done prior to my arrival.
3:40 they're backfilling the pit. The stockpile is covered w/plastic.
3:41 Simon Winer of BAQM arrived due to an anonymous odor complaint. Hydraulic hoists to be removed next week. We'll sample/analyze soils at depth - for TPHg + BTEX. Today's samples (J + K) will also be analyzed for TPHg + BTEX. Waste oil pit will also be overexcavated next week.
4:05 left site

II, III

Contact: George L Converse
Title: Proj. Geol.
Signature: [signature]

Inspector: Jennifer Eberle
Signature: [signature]

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Desert Petroleum Today's Date 8/14/95

Site Address 4035 Park Blvd

City Oakland Zip 94602 Phone ________

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

overex + Sample

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Business Plans, Acute Hazardous Materials
✓ III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(f)
___	18. Exemption Request? (Y/N)	25536(b)
___	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
1) Monthly Test
2) Daily Vadose; Semi-annual gndwater; One time soils
3) Daily Vadose; One time soils; Annual tank test
4) Monthly Gndwater; One time soils
5) Daily Inventory; Annual tank testing; Cont pipe leak det; Vadose/gndwater mon.
6) Daily Inventory; Annual tank testing; Cont pipe leak det
7) Weekly Tank Gauge; Annual tank tstng
8) Annual Tank Testing; Daily Inventory
9) Other ________

___	7. Precis Tank Test Date: ______	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ______	2711
___	14. As Built Date: ______	2635

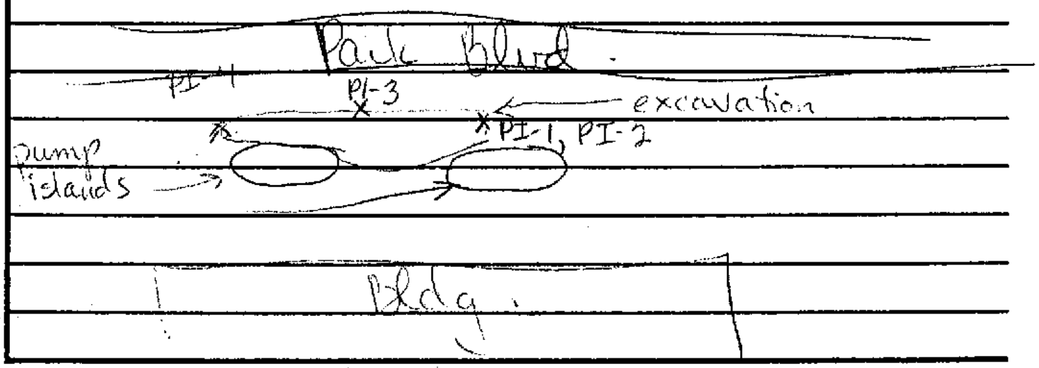
2:15 left site

Rev 6/88

Comments:

1:20 arrived onsite. They dug a trench bet. pumps + Park Blvd.
PI-1 ~ 12' bgs, no HC odor, clay-black
PI-2 ~ 7' bgs, " " "
PI-3 ~ 8' bgs, " " "
PI-4 → tried to take it, but the ~~canopy~~ started to fall. took it w/auger ?' bgs.

Hydraulic oil will be removed from the " lifts inside bldg.



Contact: George Converse
Title: Pi Geol
Signature: [signature]

II, III

Inspector: Jennifer Eberle
Signature: [signature]

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

II,III

Site ID # ____ Site Name Desert Petroleum Today's Date 8/16/95

Site Address 4035 Park blvd.

City Oakland Zip 94602 Phone ____

____ MAXIMUM stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER

____ II. Business Plans, Acute Hazardous Materials

✓ III. Underground Tanks

soil sampling

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	___
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(f)
___	18. Exemption Request? (Y/N)	25536(b)
___	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
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Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ____

___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ____	2711
___	14. As Built Date: ____	2635

Rev 6/88

Comments:

5:00 arrived. The waste oil pit was excavated to ~8' bgs to remove the dirty SP backfilled. The canopy is gone, so are the footings for pump islands, & the islands has gone also. They removed the fuels & excavated to ~7' bgs. Soil at bottom is clay. Took 2 samples. The backhoe cannot dig further. We'll analyze for O+G by 5520 or TPH-hydraulic fluid by 8015 mod. then dispose of 325 gal of purge water plus hydraulic oil on 8-15 to Allied Oil in San Jose. Continued to auger in the South pit. HC odor began at ~9.5' bgs in the black heavy clay. Odor continued until we sampled at ~14.5' bgs. HC odor has decreased. Soil is saturated heavy clay. They'll auger into waste oil pit to ~14 & I'll + sample there (after I leave site). Analyze the deep samples for TPHg + BTEX

6:10 left site

II, III

Contact: Ray Butler

Title: Geologist

Signature: Ray Butler

Inspector: Jennifer Eberle

Signature: Jennifer Eberle

MATRIX
ENVIRONMENTAL LABORATORIES INC.

Western GEO
1386 Beamer Street
Woodland, Ca 95776

7/8/94

ATTN: George Converse

Re: Project: **Desert - Oakland**
Lab Reference Number: **4525**
Date Samples Received: **6/24/94**
No. Samples Received: **16**

The samples were received by Matrix Environmental Laboratories intact and in good condition. Samples conformed to required sampling protocols for the requested analyses and were accompanied by required documentation.

Please call if we can be of further assistance.

Sincerely,

Charles R. Todd, for
Laboratory Director

3017 KILGORE ROAD #100 • RANCHO CORDOVA, CA 95742 PHONE (916) 635-3962 • FAX (916) 635-9331

MATRIX CHAIN OF CUSTODY NO. 4525

MATRIX ENVIRONMENTAL LABORATORIES (916) 635-3962 FAX: (916) 635-9331

C.O.C. - LOG-IN

PROJECT I.D. Desert - Oakland

PAGE 1 OF 1

CLIENT CHAIN OF CUSTODY #

LAB I.D. #	SAMPLE I.D.	DATE SAMPLED	TIME SAMPLED	MATRIX	NO. of CONTAINERS	BTEX	TPH (TPH-G)	TPH-D	624/8240	625/8270	418/O&G	5520/503 O&G	METALS CAM 5 TTLC Pb	SAMPLE CONDITION ICED
942014	T1 A	6/23/94	1125	Soil	1	✓	✓						✓	
942015	T1 B		1137		1	✓	✓						✓	
942016	T2 A		1120		1	✓	✓							
942017	T2 B		1125		1	✓	✓							
942018	T3 A		1620		1	✓	✓				Lab			
942019	T3 B		1615		1	✓	✓				✓			
942020	WO-1		1630		1	✓	✓	✓	✓	✓	X	✓	✓	
942021	PL-1		1651		1	✓	✓							
942022	PL-2		1700		1	✓	✓							
942023	SP-W		1710		1	✓	✓	✓				✓		
942024	SP1		1711		1	✓	✓							
942025	SP2		1712		1	✓	✓							
942026	SP3		1713		1	✓	✓							
942027	SP4		1714		1	✓	✓							
942028	SP5		1715		1	✓	✓							
942029	SP6		1716		1	✓	✓							

ANALYSIS

COMMENTS:

Normal TAT on Pb

8240/8270 modified w/ DL as 8010 & 8240

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6/24/94 0830	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
[signature]	6/24/94 0830	[signature]

Special Instructions

Report To: George Caravetta

Bill To: Western Geo Engineers
1386 E. Beamer St
Woodland, CA 95776

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **N/A**
Lab ID: **Method Blank**

Date Sampled: **N/A**
Date Received: **N/A**
Date Extracted: **6/27/94**
Date of Analysis: **6/27/94**
Matrix: **SOIL**

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.005
TOLUENE	ND	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	ND	0.015
SURROGATE RECOVERY	105%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **S P - W**
Lab ID: **942023**

Date Sampled: **6/23/94**
Date Received: **6/24/94**
Date Extracted: **6/27/94**
Date of Analysis: **6/27/94**
Matrix: **SOIL**

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.009	0.005
TOLUENE	0.008	0.005
ETHYLBENZENE	ND	0.005
TOTAL XYLENES	0.020	0.015
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **S P 1**
Lab ID: **942024**

Date Sampled: **6/23/94**
Date Received: **6/24/94**
Date Extracted: **6/27/94**
Date of Analysis: **6/28/94**
Matrix: **SOIL**

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.46	0.05
ETHYLBENZENE	0.46	0.05
TOTAL XYLENES	4.9	0.15
SURROGATE RECOVERY	108%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 10 ratio and the reporting limits adjusted accordingly.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **S P 2**
Lab ID: **942025**

Date Sampled: **6/23/94**
Date Received: **6/24/94**
Date Extracted: **6/27/94**
Date of Analysis: **6/28/94**
Matrix: **SOIL**

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.22	0.05
ETHYLBENZENE	0.34	0.05
TOTAL XYLENES	3.5	0.15
SURROGATE RECOVERY	105%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 10 ratio and the reporting limits adjusted accordingly.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO
CONTACT: G. Converse
COC No: 4525
Project No: Desert - Oakland
Sample ID: S P 3
Lab ID: 942026

Date Sampled: 6/23/94
Date Received: 6/24/94
Date Extracted: 6/27/94
Date of Analysis: 6/28/94
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.08	0.05
ETHYLBENZENE	0.47	0.05
TOTAL XYLENES	2.6	0.15
SURROGATE RECOVERY	103%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 10 ratio and the reporting limits adjusted accordingly.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO
CONTACT: G. Converse
COC No: 4525
Project No: Desert - Oakland
Sample ID: S P 4
Lab ID: 942027

Date Sampled: 6/23/94
Date Received: 6/24/94
Date Extracted: 6/27/94
Date of Analysis: 6/28/94
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	ND	0.05
TOLUENE	0.13	0.05
ETHYLBENZENE	0.13	0.05
TOTAL XYLENES	1.8	0.15
SURROGATE RECOVERY	106%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

This sample was diluted to a 1: 10 ratio and the reporting limits adjusted accordingly.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO
CONTACT: G. Converse
COC No: 4525
Project No: Desert - Oakland
Sample ID: S P 5
Lab ID: 942028

Date Sampled: 6/23/94
Date Received: 6/24/94
Date Extracted: 6/27/94
Date of Analysis: 6/27/94
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.011	0.005
TOLUENE	0.009	0.005
ETHYLBENZENE	0.14	0.005
TOTAL XYLENES	1.3	0.015
SURROGATE RECOVERY	100%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX, EPA 8020

CLIENT: Western GEO
CONTACT: G. Converse
COC No: 4525
Project No: Desert - Oakland
Sample ID: S P 6
Lab ID: 942029

Date Sampled: 6/23/94
Date Received: 6/24/94
Date Extracted: 6/27/94
Date of Analysis: 6/27/94
Matrix: SOIL

COMPOUND	mg/kg (ppm)	REPORTING LIMIT (ppm)
BENZENE	0.006	0.005
TOLUENE	0.013	0.005
ETHYLBENZENE	0.048	0.005
TOTAL XYLENES	0.51	0.015
SURROGATE RECOVERY	102%	ACCEPTABLE RANGE 70% TO 130%

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: BTEX SPIKE SUMMARY

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **N/A**
Lab ID: **LCS/LCSD**

Date Sampled: **N/A**
Date Received: **N/A**
Date Extracted: **6/27/94**
Date of Analysis: **6/27/94**
Matrix: **SOIL**

COMPOUND	CONC SPIKED mg/kg (ppm)	CONC MEASURED		PERCENT RECOVERY		
		LCS	LCSD	LCS	LCSD	RPD
BENZENE	0.588	0.604	0.645	103%	110%	7%
TOLUENE	0.896	0.859	0.915	96%	102%	6%
ETHYLBENZENE	0.690	0.609	0.647	88%	94%	6%
TOTAL XYLENES	1.76	1.54	1.63	87%	92%	6%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742 PHONE (916) 635-3962 FAX (916) 635-9331

ANALYSIS: TPH-GASOLINE by EPA 5030 PURGE-AND-TRAP

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Matrix: **SOIL**

Date Sampled: **6/23/94**
Date Received: **6/24/94**
Date Extracted: **6/27/94**
Date of Analysis: **6/27-28/1994**

Sample ID	Lab ID		GASOLINE mg/kg (ppm)	REPORTING LIMIT mg/kg (ppm)	SURROGATE RECOVERY
T1A	942014		2.0	1.0	117%
T1B	942015		ND	1.0	115%
T2A	942016		ND	1.0	113%
T2B	942017		ND	1.0	112%
T3A	942018		ND	1.0	109%
T3B	942019		ND	1.0	104%
WO-1	942020		3.0	1.0	103%
PL-1	942021		ND	1.0	98%
PL-2	942022		ND	1.0	97%
SP-W	942023		ND	1.0	96%
SP1	942024	**	110	10	114%
SP2	942025	**	200	10	120%
SP3	942026	**	170	10	112%
SP4	942027	**	68	10	109%
SP5	942028	**	110	10	106%
SP6	942029		19	1.0	105%
N/A	Method Blank		ND	1.0	107%

** These samples were analyzed at 1: 10 dilution and the reporting limits adjusted accordingly.

NOTE: (ND) NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742 *PHONE (916) 635-3962 FAX (916) 635-9331*

ANALYSIS: TPH-GASOLINE SPIKE SUMMARY

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **N/A**
Lab ID: **LCS/LCSD**

Date Sampled: **N/A**
Date Received: **N/A**
Date Extracted: **6/27/94**
Date of Analysis: **6/27/94**
Matrix: **SOIL**

COMPOUND	CONC SPIKED mg/kg (ppm)	CONC MEASURED		PERCENT RECOVERY		
		LCS	LCSD	LCS	LCSD	RPD
GASOLINE	4.55	4.64	4.93	102%	108%	6%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742 PHONE (916) 635-3962 FAX (916) 635-9331

ANALYSIS: TPH-D, EPA 8015 mod.

Client: Western GEO
Contact: G. Converse
COC No: 4525
Project No: Desert - Oakland
Matrix: SOIL

Date Sampled: 6/23/94
Date Received: 6/24/94
Date Extracted: 7/1/94
Date of Analysis: 7/1/94

Lab ID	Sample ID	Diesel mg/Kg (ppm)	REPORTING LIMIT mg/Kg (ppm)
Method Blank	N/A	ND	1.
942020	WO-1	ND	1.
942023	SP-W	ND	1.

NOTE: (ND) =NOT DETECTED AT OR ABOVE THE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

3017 KILGORE ROAD #100 RANCHO CORDOVA, CA 95742 PHONE (916) 635-3962 FAX (916) 635-9331

ANALYSIS: TPH MATRIX SPIKE SUMMARY

Client: Western GEO
Contact: G. Converse
COC No: 4525
Project No: Desert - Oakland
Matrix: SOIL

Date Sampled: N/A
Date Received: N/A
Date Extracted: 7/1/94
Date of Analysis: 7/1/94

COMPOUND	CONC SPIKED (mg/L)	CONC MEASURED		PERCENT RECOVERY		RPD
		LCS	LCSD	LCS	LCSD	
DIESEL	100	98	103	98%	103%	5%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: EPA 418.1, OIL & GREASE by IR SPECTROPHOTOMETER

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **SP-W**
Lab ID: **942023**

Date Sampled: **6/23/94**
Date Received: **6/24/94**
Date Extracted: **7/1/94**
Date of Analysis: **7/5/94**
Matrix: **SOIL**

COMPOUND	(mg/Kg) (ppm)	REPORTING LIMIT (ppm)
OIL & GREASE	1,100	50

NOTE: (ND) NOT DETECTED AT OR ABOVE REPORTING LIMITS.

MATRIX ENVIRONMENTAL LABORATORIES

ANALYSIS: EPA 418.1; OIL & GREASE SPIKE SUMMARY

CLIENT: **Western GEO**
CONTACT: **G. Converse**
COC No: **4525**
Project No: **Desert - Oakland**
Sample ID: **N/A**
Lab ID: **LCS/LCSD**

Date Sampled: **N/A**
Date Received: **N/A**
Date Extracted: **7/1/94**
Date of Analysis: **7/5/94**
Matrix: **SOIL**

COMPOUND	CONC SPIKED	CONC MEASURED		PERCENT RECOVERY		
		LCS	LCSD	LCS	LCSD	RPD
OIL & GREASE	500	400	493	80%	99%	21%

LCS= LABORATORY CONTROL SPIKE
LCSD= LABORATORY CONTROL SPIKE DUPLICATE
RPD= RELATIVE PERCENT DIFFERENCE
CONC= CONCENTRATION

Superior Precision Analytical, Inc.
825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

REQUEST FOR ADDITIONAL ANALYSIS(ANALYSES)

DATE OF REQUEST : 07/26/95

CLIENT : WESTERN GEO

CONTACT: GEORGE CONVERSE

OLD LAB JOB # : 82057-07

CLIENT JOB # : DESERT PETROLEUM OAKLAND

SAMPLE NO.	NEW ANALYSES	TAT
82057-07	TTLC-CAM5	5

FAX RESULTS TO : ATTN LYNETTE
FORWARD LANDFILL
COMMENT: DESERT PETROLEUM ~~LANDFILL~~ OAKLAND.

LAB J 6205 T

Chain of Custody and Analysis Request

Page 1 of 1

Superior Precision Analytical
825 Arnold Drive, Suite 114
Martinez, CA 94553
Phone: (510) 229-1512 Fax: (510) 229-1526
Contact:

Project No.: DP 793 P.O. No.

TURN AROUND TIME

Same Day 72 Hrs.
24 Hrs. 48 Hrs.
5 Day (circled) 10 Day

Bill To: Western Geo-Eng

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Analysis Request

Work Subcontracted to:

Laboratory Sample ID	Client Sample ID	Matrix S-Soil A-Air W-Water	8240	8260	8270	Pesticides	Flashpoint	TPH Motor Oil	TTLC Pb	8010	Cam 5 TTLC Pb, Cd, Zn, Cr			Date Sampled	# of Containers	Preservatives
	SP1 A&B	S	Composite						✓					7/10/95	2	No
	SP2 A&B	S	Composite						✓					(	(	(
	SP3 A&B	S	Composite						✓					(	(	(
	SP4 A&B	S	Composite						✓					(	(	(
	SP5 A&B	S	Composite						✓					(	(	(
	SP6 A&B	S	Composite						✓					(	(	(
	WO A&B	S	~~✓~~ No		✓	Composite				✓	✓			7/10/95	2	No

COMMENTS

☐ Please fax invoice or quote ASAP

☐ Please fax results to Superior, Martinez

☐ Please fax results to our client (see attached COC)

39

Hand Delivered Cold

Relinquished By: Gerry Conrad	Date 7/10/95	Time 15:40 am/pm	Received By:	Date / /	Time : am/pm
Organization: WEGE			Organization:		
Reliquished By:	Date / /	Time : am/pm	Received By:	Date / /	Time : am/pm
Organization:			Organization:		
Relinquished By:	Date / /	Time : am/pm	Received By: [signature]	Date 7/10/95	Time 3:40 am/pm (pm circled)
Organization:			Laboratory: Superior		

Lab - Please initial the following:

Samples Stored in Ice: [illegible]
Appropriate Containers: [illegible]
Samples Preserved: [illegible]
VOA without headspace: [illegible]
Comments:

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: July 19, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82057

Project Number/Name : DP 793

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on July 13, 1995

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 82057

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
WO A&B	07/10/95	07/10/95	07/12/95	07/12/95	BG122.08	07

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BG122.08-07	Method Blank	MB	Soil	07/12/95	07/12/95
BG122.08-11	WO A&B	MS 82057-07	Soil	07/12/95	07/12/95
BG122.08-12	WO A&B	MSD 82057-07	Soil	07/12/95	07/12/95
BG122.08-14	Laboratory Spike	LS	Soil	07/12/95	07/12/95

Certified Laboratories

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Martinez, California 94553
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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on July 13, 1995

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Dil.Factor	Moist.
82057-07	WO A&B	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82057-07 Conc. ug/Kg	RL
Chloromethane	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
Dichloromethane	ND	5.0
t-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
c-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
c-1,3-Dichloropropene	ND	5.0
1,2-Dichloropropane	ND	5.0
t-1,3-Dichloropropene	ND	5.0
Bromodichloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	5.0
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
>> Surrogate Recoveries (%) <<		
4-Bromofluorobenzene	80	

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 82057
Method Blank(s)

BG122.08-07

	Conc.	RL
Chloromethane	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
Dichloromethane	ND	5.0
t-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
c-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,3-Dichloropropene	ND	5.0
1,2-Dichloropropane	ND	5.0
t-1,3-Dichloropropene	ND	5.0
Bromodichloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	5.0
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0

>> Surrogate Recoveries (%) <<	
4-Bromofluorobenzene	109

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Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 82057

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	L... %	RPD %
For Soil Matrix (ug/Kg)						
BG122.08 14 / - Laboratory Control Spikes						
1,1-Dichloroethene		200	250	125	44-184	
Trichloroethene		200	260	130	55-141	
Chlorobenzene		200	230	115	63-158	
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				96	50-125	
For Soil Matrix (ug/Kg)						
BG122.08 11 / 12 - Sample Spi...: 82057 - 07						
1,1-Dichloroethene	ND	200	190/200	95/100	44-184	5
Trichloroethene	ND	200	160/170	80/85	55	6
Chlorobenzene	ND	200	130/140	65/70	63-...	?
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				77/61	50-125	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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(510) 229-1512 / fax (510) 229-1526

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Seattle, Washington 98108
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STERN GEO ENGINEERS
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Project DP 793
Reported on July 14, 1995

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Chronology

Laboratory Number 820[illegible]

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
WO A&B	07/10/95	07/10/95	07/12/95	07/12/95	BG121.24	07

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BG121.24-01	Method Blank	MB	Soil	07/12/95	07/12/95
BG121.24-02	Laboratory Spike	LS	Soil	07/12/95	07/12/95
BG121.24-03	Laboratory Spike Duplicate	LSD	Soil	07/12/95	07/12/95

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Project DP 793
Reported on July 14, 1995

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82057-07 X	WO A&B	Soil	10.0	-

RESULTS OF ANALYSIS

Compound	82057-07 Conc. ug/Kg	RL
bis(2-chloroethyl)ether	ND	3000
aniline	ND	3000
phenol	ND	3000
2-chlorophenol	ND	3000
1,3-dichlorobenzene	ND	3000
1,4-dichlorobenzene	ND	3000
1,2-dichlorobenzene	ND	3000
benzyl alcohol	ND	3000
bis-(2-chloroisopropyl)ether	ND	3000
2-methylphenol	ND	3000
hexachloroethane	ND	3000
n-nitroso-di-n-propylamine	ND	3000
4-methylphenol	ND	3000
nitrobenzene	ND	3000
isophorone	ND	3000
2-nitrophenol	ND	3000
2,4-dimethylphenol	ND	3000
bis(2-chloroethoxy)methane	ND	3000
2,4-dichlorophenol	ND	3000
1,2,4-trichlorobenzene	ND	3000
naphthalene	ND	3000
benzoic acid	ND	3000
4-chloroaniline	ND	3000
hexachlorobutadiene	ND	3000
4-chloro-3-methylphenol	ND	3000
2-methyl-naphthalene	ND	3000
hexaclorocyclopentadiene	ND	3000
2,4,6-trichlorophenol	ND	3000
2,4,5-trichlorophenol	ND	3000
2-chloronaphthalene	ND	3000
2-nitroaniline	ND	3000
acenaphthylene	ND	3000

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Seattle, Washington 98108
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Project DP 793
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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moist. %
82057-07 X	WO A&B	Soil	10.0	-

RESULTS OF ANALYSIS

Compound	82057-07 Conc. ug/Kg	RL
dimethylphthlate	ND	3000
2,6-dinitrotoluene	ND	3000
Acenaphthene	ND	3000
3-nitroaniline	ND	3000
2,4-dinitrophenol	ND	3000
dibenzofuran	ND	3000
2,4-dinitrotoluene	ND	3000
4-nitrophenol	ND	3000
fluorene	ND	3000
4-chlorophenyl-phenylether	ND	3000
diethylphthlate	ND	3000
4-nitroaniline	ND	3000
4,6-dinitro-2-methylphenol	ND	3000
n-nitrosodiphenylamine	ND	3000
4-bromo-phenyl-phenylether	ND	3000
hexachlorobenzene	ND	3000
pentachlorophenol	ND	3000
phenanthrene	ND	3000
anthracene	ND	3000
di-n-butylphthlate	ND	3000
fluoranthene	ND	3000
benzidine	ND	3000
pyrene	ND	3000
butylbenzylphthlate	ND	3000
3.3'-dichlorobenzidine	ND	3000
Benzo(a)Anthracene	ND	3000
chrysene	ND	3000
bis(2-ethylhexyl)phthalate	ND	3000
di-n-octylphthalate	ND	3000
benzo(b,k)fluoranthene	ND	3000
Benzo(a)Pyrene	ND	3000
Indeno(1,2,3)Pyrene	ND	3000

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Reported on July 14, 1995

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82057-07 X	WO A&B	Soil	10.0	-

R E S U L T S O F A N A L Y S I S

Compound	82057-07 Conc. ug/Kg	RL
dibenzo[a,h]anthracene	ND	3000
Benzo(g,h,i)Perylene	ND	3000
9H-Carbazole	ND	3000
>> Surrogate Recoveries (%) <<		
2-fluorophenol	91	
phenol-d5	107	
nitrobenzene-d5	81	
fluorobiphenyl	83	
,4,6-tribromophenol	96	
terphenyl-d14	95	

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309 S. Cloverdale St., Suite B-24
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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 82057
Method Blank(s)

BG121.24-01

	Conc. ug/Kg	RL
bis(2-chloroethyl)ether	ND	300
aniline	ND	300
phenol	ND	300
2-chlorophenol	ND	300
1,3-dichlorobenzene	ND	300
1,4-dichlorobenzene	ND	300
1,2-dichlorobenzene	ND	300
benzyl alcohol	ND	300
bis-(2-chloroisopropyl)ether	ND	300
2-methylphenol	ND	300
hexachloroethane	ND	300
n-nitroso-di-n-propylamine	ND	300
4-methylphenol	ND	300
nitrobenzene	ND	300
[illegible]ophorone	ND	300
[illegible]-nitrophenol	ND	300
2,4-dimethylphenol	ND	300
bis(2-chloroethoxy)methane	ND	300
2,4-dichlorophenol	ND	300
1,2,4-trichlorobenzene	ND	300
naphthalene	ND	300
benzoic acid	ND	300
4-chloroaniline	ND	300
hexachlorobutadiene	ND	300
4-chloro-3-methylphenol	ND	300
2-methyl-naphthalene	ND	300
hexaclorocyclopentadiene	ND	300
2,4,6-trichlorophenol	ND	300
2,4,5-trichlorophenol	ND	300
2-chloronaphthalene	ND	300
2-nitroaniline	ND	300
acenaphthylene	ND	300
dimethylphthlate	ND	300
2,6-dinitrotoluene	ND	300
Acenaphthene	ND	300
3-nitroaniline	ND	300
2,4-dinitrophenol	ND	300
dibenzofuran	ND	300

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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 82057
Method Blank(s)

	BG121.24-01 Conc. ug/Kg	RL
2,4-dinitrotoluene	ND	300
4-nitrophenol	ND	300
fluorene	ND	300
4-chlorophenyl-phenylether	ND	300
diethylphthlate	ND	300
4-nitroaniline	ND	300
4,6-dinitro-2-methylphenol	ND	300
n-nitrosodiphenylamine	ND	300
4-bromo-phenyl-phenylether	ND	300
hexachlorobenzene	ND	300
pentachlorophenol	ND	300
phenanthrene	ND	300
anthracene	ND	300
di-n-butylphthlate	ND	300
luoranthene	ND	300
enzidine	ND	300
pyrene	ND	300
butylbenzylphthlate	ND	300
3.3'-dichlorobenzidine	ND	300
Benzo(a)Anthracene	ND	300
chrysene	ND	300
bis(2-ethylhexyl)phthalate	ND	300
di-n-octylphthalate	ND	300
benzo(b,k)fluoranthene	ND	300
Benzo(a)Pyrene	ND	300
Indeno(1,2,3)Pyrene	ND	300
dibenzo[a,h]anthracene	ND	300
Benzo(g,h,i)Perylene		
9H-Carbazole		

>> Surrogate Recoveries (%) <<	
2-fluorophenol	60
phenol-d5	57
nitrobenzene-d5	82
2-fluorobiphenyl	81
2,4,6-tribromophenol	61
terphenyl-d14	89

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EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 82057

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (ug/Kg) BG121.24 02 / 03 - Laboratory Control Spikes						
phenol		3300	2426/2457	74/74	26-90	0
2-chlorophenol		3300	2348/2366	71/72	25-102	1
1,4-dichlorobenzene		1650	1353/1335	82/81	28-104	1
n-nitroso-di-n-propylamine		1650	1566/1590	95/96	41-126	1
1,2,4-trichlorobenzene		1650	1305/1288	79/78	38-107	1
4-chloro-3-methylphenol		3300	2428/2467	74/75	26-103	1
Acenaphthene		1650	1620/1687	98/102	31-137	4
2,4-dinitrotoluene		1650	1657/1670	100/101	28-89	1
4-nitrophenol		3300	2592/2612	79/79	11-114	0
pentachlorophenol		3300	2260/2173	68/66	17-109	3
pyrene		1650	1593/1597	97/97	35-142	0
Surrogate Recoveries (%) <<						
2-fluorophenol				73/72	25-121	
phenol-d5				69/72	24-113	
nitrobenzene-d5				87/90	23-120	
2-fluorobiphenyl				85/87	30-115	
2,4,6-tribromophenol				77/74	19-122	
terphenyl-d14				85/87	18-137	

X- Reporting limits were increased due to matrix interference

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on July 17, 1995
Revised on July 18, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

Chronology

Laboratory Number 82057

Sample ID	Sampled	Received	Extract.	Analyzed	QC	LAB #
SP1 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	01
SP2 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	02
SP3 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	03
SP4 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	04
SP5 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	05
SP6 A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG112.10	06
WO A&B	07/10/95	07/10/95	07/11/95	07/14/95	BG111.10	07

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BG112.10-01	Method Blank	MB		Sludge	07/11/95	07/14/95
BG112.10-02	Laboratory Spike	LS		Sludge	07/11/95	07/14/95
BG112.10-03	Laboratory Spike Duplicate	LSD		Sludge	07/11/95	07/14/95
BG112.10-04	UPI-17:A,B	MS	82049-01	Soil	07/11/95	07/14/95
BG112.10-05	UPI-17:A,B	MSD	82049-01	Soil	07/11/95	07/14/95
BG111.10-01	Method Blank	MB		Soil	07/11/95	07/14/95
BG111.10-02	Laboratory Spike	LS		Soil	07/11/95	07/14/95
BG111.10-03	Laboratory Spike Duplicate	LSD		Soil	07/11/95	07/14/95
BG111.10-04	WO A&B	MS	82057-07	Soil	07/11/95	07/14/95
BG111.10-05	WO A&B	MSD	82057-07	Soil	07/11/95	07/14/95

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Project DP 793
Reported on July 17, 1995
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EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82057-01	SP1 A&B	Soil	1.0	-
82057-02	SP2 A&B	Soil	1.0	-
82057-03	SP3 A&B	Soil	1.0	-
82057-04	SP4 A&B	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82057-01 Conc. mg/kg	RL	82057-02 Conc. mg/kg	RL	82057-03 Conc. mg/kg	RL	82057-04 Conc. mg/kg	RL
Cadmium (SW-846 6010)								
Chromium (SW-846 6010)								
Lead (SW-846 6010)	27	2	32	2	34	2	11	2
Nickel (SW-846 6010)								
Zinc (SW-846 6010)								

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Project DP 793
Reported on July 17, 1995
Revised on July 18, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82057-05	SP5 A&B	Soil	1.0	-
82057-06	SP6 A&B	Soil	1.0	-
82057-07	WO A&B	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82057-05 Conc. mg/kg	82057-05 RL	82057-06 Conc. mg/kg	82057-06 RL	82057-07 Conc. mg/L	82057-07 RL
Cadmium (SW-846 6010)					ND	0.025
Chromium (SW-846 6010)					0.083	0.05
Lead (SW-846 6010)	10	2	29	2	6.98	0.25
Nickel (SW-846 6010)					0.81	0.1
Zinc (SW-846 6010)					ND	10

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Seattle, Washington 98108
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EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82057
Method Blank(s)

	BG112.10-01		BG111.10-01	
	Conc. mg/kg	RL	Conc. mg/L	RL
Cadmium (SW-846 6010)	ND	0.1	ND	0.025
Chromium (SW-846 6010)	ND	0.2	ND	0.05
Lead (SW-846 6010)	ND	2	ND	0.25
Nickel (SW-846 6010)	ND	1	ND	0.1
Zinc (SW-846 6010)	ND	0.5	ND	10

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EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82057

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Sludge Matrix (mg/kg)						
BG112.10 02 / 03 - Laboratory Control Spikes						
Cadmium (SW-846 6010)		50	49.35/49.56	99/99	75-125	0
Chromium (SW-846 6010)		50	48.12/48.71	96/97	75-125	1
Lead (SW-846 6010)		50	48.62/50.13	97/100	75-125	3
Nickel (SW-846 6010)		50	49.24/50.10	98/100	75-125	2
Zinc (SW-846 6010)		50	45.93/47.59	92/95	75-125	3
For Soil Matrix (mg/L)						
BG111.10 02 / 03 - Laboratory Control Spikes						
Cadmium (SW-846 6010)		5	5.319/5.165	106/103	75-125	3
Chromium (SW-846 6010)		5	5.221/5.214	104/104	75-125	0
Lead (SW-846 6010)		5	5.239/5.247	100/105	75-125	5
Nickel (SW-846 6010)		5	5.408/5.460	108/109	75-125	1
Zinc (SW-846 6010)		5	4.704/4.745	94/95	75-125	1
For Soil Matrix (mg/kg)						
BG112.10 04 / 05 - Sample Spiked: 82049 - 01						
Cadmium (SW-846 6010)	2.052	50	39.9/43.3	76/82	75-125	8
Chromium (SW-846 6010)	35.26	50	65.8r/75.1r	61/80	75-125	27
Lead (SW-846 6010)	28.43	50	69.7r/73	83/89	75-125	7
Nickel (SW-846 6010)	22.26	50	64.3/65	84/85	75-125	1
Zinc (SW-846 6010)	420.0	50	165r/180r	0/0	75-125	****
For Soil Matrix (mg/L)						
BG111.10 04 / 05 - Sample Spiked: 82057 - 07						
Cadmium (SW-846 6010)	ND	5	5.5/5.5	110/110	75-125	0
Chromium (SW-846 6010)	.083	5	5.2/5.3	102/104	75-125	2
Lead (SW-846 6010)	6.98	5	11.18/11.31r	84/87	75-125	4
Nickel (SW-846 6010)	.81	5	5.9/6.03	102/104	75-125	2
Zinc (SW-846 6010)	ND	5	10/10.6r	200/212	75-125	6

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309 S. Cloverdale St., Suite B-24
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(206) 763-2992 / fax (206) 763-8429

rrative:

r - MS and/or MSD recoveries were out of control limits. LCS & LCSD recoveries were within acceptable limits.

Definitions:

ND	=	Not Detected
RL	=	Reporting Limit
NA	=	Not Analysed
RPD	=	Relative Percent Difference
ug/L	=	parts per billion (ppb)
mg/L	=	parts per million (ppm)
ug/kg	=	parts per billion (ppb)
mg/kg	=	parts per million (ppm)

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WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 1, 199

Attn: GEORGE CONVERSE

Laboratory Number : 82122

Project Number/Name : DESERT PETROLEUM OAKLAND

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DESERT PETROLEUM OAKLAND
Reported on August 2, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

Chronology

Laboratory Number 82122

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch #	WB #
WO A&B	07/10/95	07/26/95	08/01/95	08/02/95	BH011.10	01

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH011.10-01	Method Blank	MB	Soil	08/01/95	08/01/95
BH011.10-02	Laboratory Spike	LS	Soil	08/01/95	08/01/95
BH011.10-03	Laboratory Spike Duplicate	LSD	Soil	08/01/95	08/01/95
BH011.10-04	18EX2-01/18EX2-02	MS 82127-01	Soil	08/01/95	08/02/95
BH011.10-05	18EX2-01/18EX2-02	MSD 82127-01	Soil	08/01/95	08/02/95

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STERN GEO ENGINEERS
tn: GEORGE CONVERSE

Project DESERT PETROLEUM OAKLAND
Reported on August 2, 19 5

EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moist.
82122-01	WO A&B	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82122-01 Conc. mg/kg	RL
Cadmium (SW-846 6010)	1.6	0.1
Chromium (SW-846 6010)	46	0.2
Lead (SW-846 6010)	130	2
Nickel (SW-846 6010)	54	1
Zinc (SW-846 6010)	150	0.5

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Seattle, Washington 98108
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EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82122
Method Blank(s)

	BH011.10-01 Conc. mg/kg	RL
Cadmium (SW-846 6010)	ND	0.1
Chromium (SW-846 6010)	ND	0.2
Lead (SW-846 6010)	ND	2
Nickel (SW-846 6010)	ND	1
Zinc (SW-846 6010)	ND	0.5

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EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82122

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Lim... %	RPD %
For Soil Matrix (mg/kg) BH011.10 02 / 03 - Laboratory Control Spikes						
Cadmium (SW-846 6010)		50	57.08/56.48	114/113	75-125	1
Chromium (SW-846 6010)		50	48.49/49.42	97/99	75-125	2
Lead (SW-846 6010)		50	49.77/50.63	100/101	75-12	1
Nickel (SW-846 6010)		50	51.03/51.81	102/104	75-12	
Zinc (SW-846 6010)		50	47.53/47.98	95/96	75-125	1
For Soil Matrix (mg/kg) BH011.10 04 / 05 - Sample Spiked: 82127 - 01						
Cadmium (SW-846 6010)	.3011	50	53.01/52.58	105/105	75-125	0
Chromium (SW-846 6010)	12.57	50	57.52/26.9r	90/29	75-125	103
Lead (SW-846 6010)	3.103	50	49.20/36.1r	92/66	75-125	33
Nickel (SW-846 6010)	2.378	50	50.90/49.00	97/93	75-125	4
Zinc (SW-846 6010)	16.48	50	63.25/65.72	94/99	75-125	5

* - Hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.
r - MS and/or MSD recoveries were out of control limits. LCS & LCSD recoveries were within acceptable limits.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 11, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82210

Project Number/Name : DP 793

This report has been reviewed and

approved for release.

Michael R. Veroy
Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 11, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Chronology

Laboratory Number 82210

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SP1,2,3-A&B	07/10/95	08/07/95	08/07/95	08/11/95	BH071.10	01
SP4,5,6-A&B	07/10/95	08/07/95	08/07/95	08/11/95	BH071.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH071.10-01	Method Blank	MB	Soil	08/07/95	08/11/95
BH071.10-02	Laboratory Spike	LS	Soil	08/07/95	08/11/95
BH071.10-03	Laboratory Spike Duplicate	LSD	Soil	08/07/95	08/11/95
BH071.10-04	SP1,2,3-A&B	MS 82210-01	Soil	08/07/95	08/11/95
BH071.10-05	SP1,2,3-A&B	MSD 82210-01	Soil	08/07/95	08/11/95

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Seattle, Washington 98108
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WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 11, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82210-01 *DI*	SP1,2,3-A&B	Soil	1.0	-
82210-02	SP4,5,6-A&B	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82210-01 Conc. mg/L	RL	82210-02 Conc. mg/L	RL
Lead (SW-846 6010)	ND	0.25	ND	0.25

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82210
Method Blank(s)

	BH071.10-01	
	Conc.	RL
	mg/L	
Lead (SW-846 6010)	ND	0.25

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82210

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/L) BH071.10 02 / 03 - Laboratory Control Spikes						
Lead (SW-846 6010)		5	4.709/4.620	94/92	75-125	2
For Soil Matrix (mg/L) BH071.10 04 / 05 - Sample Spiked: 82210 - 01						
Lead (SW-846 6010)	.0949	5	4.744/4.970	93/98	75-125	5

Note: Soluble Threshold Limit Concentration (STLC) extraction was performed using Deionized Ultrafiltered Water (DIUF) in place of normal (STLC) extraction fluid.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 17, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82239

Project Number/Name : DP793

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

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STERN GEO ENGINEERS
tn: GEORGE CONVERSE

Project DP793
Reported on August 17, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 82239

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SWA-13	08/08/95	08/09/95	08/16/95	08/16/95	BH152.05	01
SWB-6	08/08/95	08/09/95	08/15/95	08/15/95	BH144.05	02
SWC-13	08/08/95	08/09/95	08/15/95	08/15/95	BH144.05	03
SWD-6	08/08/95	08/09/95	08/15/95	08/15/95	BH144.05	04
SWE-11.5	08/08/95	08/09/95	08/15/95	08/15/95	BH144.05	05

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BH144.05-04	95-1765QS	MS	82223-01	Soil	08/14/95	08/14/95
BH144.05-05	95-1765QS	MSD	82223-01	Soil	08/14/95	08/14/95
BH152.05-03	BV2L-01-01	MS	82230-01	Soil	08/15/95	08/15/95
BH152.05-04	BV2L-01-01	MSD	82230-01	Soil	08/15/95	08/15/95
BH144.05-01	Method Blank	MB		Soil	08/14/95	08/14/95
BH152.05-24	Method Blank	MB		Soil	08/16/95	08/16/95
BH144.05-06	95-1765QS	MS	82223-01	Soil	08/14/95	08/14/95
BH144.05-07	95-1765QS	MSD	82223-01	Soil	08/14/95	08/14/95
BH152.05-05	BV2L-01-01	MS	82230-01	Soil	08/15/95	08/15/95
BH152.05-06	BV2L-01-01	MSD	82230-01	Soil	08/15/95	08/15/95

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Project DP793
Reported on August 17, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82239-01	SWA-13	Soil	1.0	-
82239-02	SWB-6	Soil	1.0	-
82239-03	SWC-13	Soil	1.0	-
82239-04	SWD-6	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82239-01		82239-02		82239-03		82239-04	
	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	3	1	ND	1	3	1	ND	1
Benzene	0.005	0.005	ND	0.005	ND	0.005	ND	0.005
Toluene	0.009	0.005	ND	0.005	ND	0.005	ND	0.005
Ethyl Benzene	0.046	0.005	ND	0.005	ND	0.005	ND	0.005
lenes	0.36	0.005	ND	0.005	0.022	0.005	ND	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	95		116		110		119	

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Project DP793
Reported on August 17, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82239-05	SWE-11.5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82239-05 Conc. mg/kg	RL
Gasoline_Range	ND	1
Benzene	ND	0.005
Toluene	ND	0.005
Ethyl Benzene	ND	0.005
ylenes	ND	0.005
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	106	

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82239
Method Blank(s)

	BH144.05-01		BH152.05-24	
	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	99		99	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82239

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH144.05 04 / 05 - Sample Spiked: 82223 - 01						
Benzene	ND	0.200	0.21/0.18	105/90	65-125	15
Toluene	ND	0.200	0.20/0.18	100/90	65-125	11
Ethyl Benzene	ND	0.200	0.20/0.18	100/90	65-125	11
Xylenes	ND	0.600	0.62/0.53	103/88	65-125	16
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				99/100	50-150	
For Soil Matrix (mg/kg) BH152.05 03 / 04 - Sample Spiked: 82230 - 01						
Benzene	ND	0.200	0.20/0.22	100/110	65-125	10
Toluene	ND	0.200	0.20/0.21	100/105	65-125	5
Ethyl Benzene	ND	0.200	0.21/0.21	105/105	65-125	0
Xylenes	ND	0.600	0.63/0.63	105/105	65-125	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				96/101	50-150	
For Soil Matrix (mg/kg) BH144.05 06 / 07 - Sample Spiked: 82223 - 01						
Gasoline_Range	ND	20	18/20	90/100	65-135	5
For Soil Matrix (mg/kg) BH152.05 05 / 06 - Sample Spiked: 82230 - 01						
Gasoline_Range	ND	20	21/22	105/110	65-135	10

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rrative:

Definitions:

ND	=	Not Detected			
RL	=	Reporting Limit			
NA	=	Not Analysed			
RPD	=	Relative Percent Difference			
ug/L	=	parts per billion (ppb)	ug/kg	=	parts per billion (ppb)
mg/L	=	parts per million (ppm)	mg/kg	=	parts per million (ppm)

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8223 9

Chain of Custody and Analysis Request

Page 1 of 2

Company: Western Geo-Engineers
Address: 1386 E. Beamer Street
City, State, Zip: Woodland, CA 95776-6003
Phone: (916)668-5300 Fax: (916)662-0273
Project Manager: George Comeaux
Alternate Contact: Dave Thielen
Project No.: DP 793 P.O. No.

TURN AROUND TIME
(circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George Comeaux
Regulatory Agency: Local Co.

Sample Identification	S=Soil A=Air W=Water Matrix	TPH-BTEX											Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
1 SwA-13	S	/											8/5/95	1220			
2 SwB-6	S	/												1249			
3 SwC-13	S	/												1245			
4 SwD-6	S	/												1245			
5 SwE-11.5	S	/												1530			
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Relinquished By: George Comeaux
Organization: WGE
Date/Time: 8/4/95 15:30

Reliquished By:
Organization:
Date/Time:

Relinquished By:
Organization:
Date/Time:

Received By:
Organization:
Date/Time:

Received By:
Organization:
Date/Time:

Received By:
Laboratory: SPA
Date/Time: 8-10-95 10:00

Lab: Please initial the following:
Samples Stored in Ice: Y
Appropriate Containers: Y
Samples Preserved:
VOAs without headspace:
Comments:

FedEx
Federal Express

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER
2846167623

4357A 2846167623

RECIPIENT'S COPY

1 Date: 8/9/95

From (Your Name) Please Print: George Converse
Your Phone Number (Very Important): (916) 668-5300
Company: WESTERN GEO-ENGINEERS
Department/Floor No.:
Street Address: 1386 E. Beaver Street
City: Woodland, CA **State:** **ZIP Required:** 95776-6003

2 **To (Recipient's Name) Please Print:** SUPERIOR A[illegible]
Recipient's Phone Number (Very Important): ( ) [illegible]7
Company:
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): R[illegible] ARNOLD [illegible]
City: MARTINEZ **State:** [illegible] **ZIP Required:** [illegible]

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H **IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here**
Street Address:
City: State: ZIP Required:

3 **PAYMENT:** 1 ☐ Bill Sender 2 ☒ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check

4 **SERVICES** (Check only one box)

Priority Overnight (Delivery by next business morning†)		Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)	
1	☒ OTHER PACKAGING	51	☐ OTHER PACKAGING
16	☐ FEDEX LETTER*	56	☐ FEDEX LETTER*
12	☐ FEDEX PAK*	52	☐ FEDEX PAK*
13	☐ FEDEX BOX	53	☐ FEDEX BOX
14	☐ FEDEX TUBE	54	☐ FEDEX TUBE

Economy Two-Day (Delivery by second business day†)		Government Overnight (Restricted for authorized users only)	
30	☐ ECONOMY*	46	☐ GOVT LETTER
		41	☐ GOVT PACKAGE

*Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Freight Service (for packages over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required)
80 ☐ TWO-DAY FREIGHT**
†Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 **DELIVERY AND SPECIAL HANDLING** (Check services required)

Weekday Service
1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 ☒ DELIVER WEEKDAY

Saturday Service
31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 ☐ SATURDAY PICK-UP (Extra charge)

Special Handling
4 ☐ DANGEROUS GOODS (Extra charge)
6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845, ____ X ____ kg, 904 III
☐ DESCRIPTION
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	20	
1	20	
Total	Total	Total

DIM SHIPMENT (Chargeable Weight)
☐ ____ lbs.
L x W x H

Received At:
1 ☐ Regular Stop 2 ☒ Drop Box
3 ☐ On-Call Stop 4 ☐ B.S.C. 5 ☐ Station

7 Release Signature:

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 4/94
PART #145412 FXEM 8/94
FORMAT #160
160

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WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 23, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82259

Project Number/Name : DP 793

This report has been reviewed and

approved for release.

CAHom for

Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

STERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	02
PI-1	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	03
PI-2	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	04
PI-3	08/14/95	08/14/95	08/17/95	08/17/95	BH171.05	05
PI-4	08/14/95	08/14/95	08/17/95	08/17/95	BH171.05	06

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH171.05-01	Method Blank	MB	Soil	08/17/95	08/17/95
BH171.05-18	Method Blank	MB	Soil	08/18/95	08/18/95
BH171.05-19	Laboratory Spike	LS	Soil	08/17/95	08/17/95
BH171.05-20	Laboratory Spike Duplicate	LSD	Soil	08/18/95	08/18/95

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Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
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STERN GEO ENGINEERS
tn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	5.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-
82259-03	PI-1	Soil	1.0	-
82259-04	PI-2	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/kg	RL	82259-02 Conc. mg/kg	RL	82259-03 Conc. mg/kg	RL	82259-04 Conc. mg/kg	RL
Gasoline_Range	110	5	37	1	ND	1	ND	1
Benzene	ND	0.025	ND	0.005	ND	0.005	0.011	0.005
Toluene	0.27	0.025	0.10	0.005	ND	0.005	ND	0.005
Ethyl Benzene	0.54	0.025	0.17	0.005	ND	0.005	0.005	0.005
lenes	2.3	0.025	1.6	0.005	ND	0.005	0.030	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	112		138		107		106	

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
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ttn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-05	PI-3	Soil	1.0	-
82259-06	PI-4	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-05 Conc. mg/kg	RL	82259-06 Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
ylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	126		119	

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(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH171.05-01		BH171.05-18	
	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	97		98	

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
BH171.05 19 / 20 - Laboratory Control Spikes						
Gasoline_Range		3.20	4.1/3.8	128/119	65-135	7
Benzene		0.200	0.21/0.20	105/100	65-135	5
Toluene		0.200	0.22/0.20	110/100	65-135	10
Ethyl Benzene		0.200	0.21/0.21	105/105	65-135	0
Xylenes		0.600	0.62/0.61	103/102	65-135	1
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				96/96	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/21/95	08/22/95	BH212.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/21/95	08/22/95	BH212.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH212.10-01	Method Blank	MB	Soil	08/21/95	08/22/95
BH212.10-02	Laboratory Spike	LS	Soil	08/21/95	08/22/95
BH212.10-03	Laboratory Spike Duplicate	LSD	Soil	08/21/95	08/22/95
BH212.10-04	CD-SPIKED	MS 82263-01	Soil	08/21/95	08/22/95
BH212.10-05	CD-SPIKED	MSD 82263-01	Soil	08/21/95	08/22/95

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

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tn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/kg	RL	82259-02 Conc. mg/kg	RL
Lead (SW-846 6010)	17	2	19	2

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San Francisco, California 94124
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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
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EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH212.10-01 Conc.	RL
	mg/kg	
Lead (SW-846 6010)	ND	2

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH212.10 02 / 03 - Laboratory Control Spikes						
Lead (SW-846 6010)		50	51.71/47.62	103/95	75-125	8
For Soil Matrix (mg/kg) BH212.10 04 / 05 - Sample Spiked: 82263 - 01						
Lead (SW-846 6010)	14.24	50	13.3r/14.7r	-2/1	75-125	-600

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
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mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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San Francisco, California 94124
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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

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Project DP 793
Reported on August 21, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/18/95	08/21/95	BH181.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/18/95	08/21/95	BH181.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH181.10-01	Method Blank	MB	Soil	08/18/95	08/21/95
BH181.10-03	Laboratory Spike	LS	Soil	08/18/95	08/21/95
BH181.10-04	Laboratory Spike Duplicate	LSD	Soil	08/18/95	08/21/95
BH181.10-05	SPC 4431-1 A,B,C,D	MS 82259-01	Soil	08/18/95	08/21/95
BH181.10-06	SPC 4431-1 A,B,C,D	MSD 82259-01	Soil	08/18/95	08/21/95

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

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Project DP 793
Reported on August 21, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/L	RL	82259-02 Conc. mg/L	RL
Lead (SW-846 6010)	0.63	0.25	0.94	0.25

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH181.10-01 Conc. mg/L	RL
Lead (SW-846 6010)	ND	0.25

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/L) BH181.10 03 / 04 - Laboratory Control Spikes						
Lead (SW-846 6010)		5	5.216/5.419	104/108	75-125	4
For Soil Matrix (mg/L) BH181.10 05 / 06 - Sample Spiked: 82259 - 01						
Lead (SW-846 6010)	.6328	5	5.658/5.748	101/102	75-125	1

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

8259 Chain of Custody and Analysis Request

Company: Western Geo-Engineers
Address: 1386 E. Beamer St
City, State, Zip: Woodland, CA 95776-6003
Phone: 916 668 5300 Fax:
Project Manager: George Converse
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day (circled)

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: G. Converse
Regulatory Agency: Alameda Co.

	Sample Identification	Matrix (S=Soil A=Air W=Water)	TPHg	BTEX	TTLC Pb	Di Pb								Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks
1	SPC 4431-1(A-D)	S	✓	✓	✓	✓	Composite 4 into 1							8/14	1730	4	No	
2	SPC 4431-1(E-H)	S	✓	✓	✓	✓	Composite 4 into 1							⟆	⟆	4	No	
3																		
4	PI-1	S	✓	✓										8/14	1330	1	No	
5	PI-2	S	✓	✓										⟆	1340	1	No	
6	PI-3	S	✓	✓											1345	1	No	
7	PI-4	S	✓	✓											1400	1	No	
8																		
9																		
10																		
11																		
12																		

Sampling Remarks: Bioremediation; UST (circled); Monitoring; Recent Contamination; Unknown Compounds; COMMENTS:

Please initial: AL Y 5° Y

Relinquished By / Organization	Date/Time	Received By / Organization	Date/Time
Relinquished By: George Converse Organization: WGE	Date/Time	Received By: [illegible signature] Organization: [illegible]	8/15/95 9:00
Reliquished By: [illegible signature] Organization: [illegible]	Date/Time 8/15/95 9:15	Received By: Organization:	Date/Time
Relinquished By: Organization:	Date/Time	Received By: [illegible signature] Laboratory: SPA	Date/Time 8/15/95 [illegible]

Lab: Please initial the following:
Samples Stored in Ice: ______
Appropriate Containers: ______
Samples Preserved: ______
VOA's without headspace: ______
Comments: ______

WESTERN GEO ENGINEERS
n: GEORGE CONVERSE

Project DP 793
Reported on *bad date* 0, 0
Revised on August 28, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/28/95	08/28/95	BH281.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/28/95	08/28/95	BH281.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH281.10-01	Method Blank	MB	Water	08/28/95	08/28/95
BH281.10-02	Laboratory Spike	LS	Water	08/28/95	08/28/95
BH281.10-03	Laboratory Spike Duplicate	LSD	Water	08/28/95	08/28/95
BH281.10-04	82158-01	MS 20008-01	Soil	08/28/95	08/28/95
BH281.10-05	82158-01	MSD 20008-01	Soil	08/28/95	08/28/95

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Martinez, California 94553
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STERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP 793
Reported on *bad date* 0, 0
Revised on August 28, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/L	RL	82259-02 Conc. mg/L	RL
Lead (SW-846 6010)	ND	.05	ND	0.05

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH281.10-01	
	Conc.	RL
	mg/L	
Lead (SW-846 6010)	ND	0.05

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (mg/L)						
BH281.10 02 / 03 - Laboratory Control Spikes						
Lead (SW-846 6010)		1	.9624/.9493	96/95	75-125	1
For Soil Matrix (mg/L)						
BH281.10 04 / 05 - Sample Spiked: 20008 - 01						
Lead (SW-846 6010)	0	5	4.871/4.788	97/96	75-125	1

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)

ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 23, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82262

Project Number/Name : DP79[illegible]

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
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STERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 82262

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
F-14'	08/15/95	08/15/95	08/17/95	08/17/95	BH171.[illegible]	01
G-17'	08/10/95	08/15/95	08/17/95	08/17/95	BH171.05	02
H-SW BOTTOM 16'	08/10/95	08/15/95	08/17/95	08/17/95	BH171.05	03
I-SW BUILD 8'	08/10/95	08/15/95	08/21/95	08/21/95	BH211.05	04
J-BOTTOM WEST	08/11/95	08/15/95	08/21/95	08/21/95	BH211.05	05
K-SW WEST 8'	08/11/95	08/15/95	08/17/95	08/17/95	BH171.05	06

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BH211.05-21	95-1819QS	MS	82265-02	Soil	08/21/95	08/21/[illegible]
BH211.05-22	95-1819QS	MSD	82265-02	Soil	08/21/95	08/21[illegible]
BH171.05-18	Method Blank	MB		Soil	08/18/95	08/18[illegible]
BH171.05-19	Laboratory Spike	LS		Soil	08/17/95	08[illegible]
BH171.05-20	Laboratory Spike Duplicate	LSD		Soil	08/18/9[illegible]	[illegible]/95
BH211.05-23	Method Blank	MB		Soil	08/21/9[illegible]	[illegible]1/95
BH211.05-02	95-1819QS	MS	82265-02	Soil	08/21/95	08/21/95
BH211.05-02	95-1819QS	MSD	82265-02	Soil	08/21/95	08/21/95

Certified Laboratories

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STERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82262-01	F-14'	Soil	1.0	-
82262-02	G-17'	Soil	1.0	-
82262-03	H-SW BOTTOM 16'	Soil	200.0	-
82262-04	I-SW BUILD 8'	Soil	100.0	-

R E S U L T S O F A N A L Y S I S

Compound	82262-01 Conc. mg/kg	82262-01 RL	82262-02 Conc. mg/kg	82262-02 RL	82262-03 Conc. mg/kg	82262-03 RL	82262-04 Conc. mg/kg	82262-04 RL
Gasoline_Range	3	1	6	1	1000	200	2000	100
Benzene	0.12	0.005	0.16	0.005	3.6	1.0	4.5	0.50
Toluene	0.24	0.005	0.31	0.005	31	1.0	35	0.50
Ethyl Benzene	0.053	0.005	0.11	0.005	14	1.0	18	0.50
ylenes	0.29	0.005	0.68	0.005	77	1.0	130	0.50
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	101		104		115		150	

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STERN GEO ENGINEERS
tn: GEORGE CONVERSE

Project DP793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82262-05	J-BOTTOM WEST	Soil	1.0	-
82262-06	K-SW WEST 8'	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82262-05 Conc. mg/kg	RL	82262-06 Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
lenes	ND	0.005	0.005	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	99		107	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82262
Method Blank(s)

	BH171.05-18		BH211.05-23	
	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	98		100	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82262

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
BH171.05 19 / 20 - Laboratory Control Spikes						
Gasoline_Range		3.20	4.1/3.8	128/119	65-135	7
Benzene		0.200	0.21/0.20	105/100	65-135	5
Toluene		0.200	0.22/0.20	110/100	65-13[illegible]	10
Ethyl Benzene		0.200	0.21/0.21	105/105	65-13[illegible]	[illegible]
Xylenes		0.600	0.62/0.61	103/102	65-135	[illegible]
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				96/96	50-150	
For Soil Matrix (mg/kg)						
BH211.05 21 / 22 - Sample Spiked: 82265 - 02						
Benzene	ND	0.200	0.20/0.21	100/105	65-125	10
Toluene	ND	0.200	0.20/0.21	100/105	65-125	5
Ethyl Benzene	ND	0.200	0.20/0.21	100/105	65-125	5
Xylenes	ND	0.600	0.59/0.62	98/103	65-125	5
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				107/100	50-150	
For Soil Matrix (mg/kg)						
BH211.05 02 / 02 - Sample Spiked: 82265 - 02						
Gasoline_Range	ND	20	19/19	95/95	65-135	

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Seattle, Washington 98108
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rrative:

Definitions:

ND	=	Not Detected
RL	=	Reporting Limit
NA	=	Not Analysed
RPD	=	Relative Percent Difference
ug/L	=	parts per billion (ppb)
mg/L	=	parts per million (ppm)
ug/kg	=	parts per billion (ppb)
mg/kg	=	parts per million (ppm)

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

82262 Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo - Engineers
Address: 1386 E Beamer St
City, State, Zip: Woodland, CA 95776
Phone: (916) 668 5300 Fax:
Project Manager: George Comeau
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)

Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George Comeau
Regulatory Agency: Alameda Co.

	Sample Identification	Matrix (S = Soil, A = Air, W = Water)	TPH-BTEX												Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
										AH									
1	F-14'	S	/							X	6,2				8/10	1355	1	No	
2	G-17'	S	/							X					8/10	1425	1	No	
3	H-SW Bottom 16'	S	/												8/10	1455	1	No	
4	I-SW Bottom 8'	S	/												8/10	1450	1	No	
5	J-Bottom-west	S	/												8/11	1535	1	No	
6	K-SW west 8'	S	/												8/11	1537	1	No	
7																			
8																			
9																			
10																			
11																			
12																			

Relinquished By: George Comeau
Organization: WEG-E
Date/Time

Relinquished By:
Organization:
Time

Relinquished By:
Organization:
Date/Time

Received By: [signature]
Organization:
Date/Time

Received By:
Organization:
Date/Time

Received By:
Laboratory: PA
Date/Time 8-15-95 11:45

Lab: Please initial the following:

Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOAs without headspace:
Comments:

FedEx
Federal Express

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
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QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

2846167601

2846167601

RECIPIENT'S COPY

1 Date: 9/14/95

From (Your Name) Please Print: George Converse
Your Phone Number (Very Important): (916) 668-530
Company: WESTERN GEO-ENGINEERS
Department/Floor No.:
Street Address: 1386 E. Beamer Street
City: Woodland,
State: CA
ZIP Required: 95776-6003

2 To (Recipient's Name) Please Print: KATIE HILL
Recipient's Phone Number (Very Important):
Company:
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.):
City:
State:
ZIP Required:

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address:
City:
State:
ZIP Required:

3 PAYMENT 1 ☐ Bill Sender 2 ☒ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
- 11 ☒ OTHER PACKAGING
- 16 ☐ FEDEX LETTER*
- 12 ☐ FEDEX PAK*
- 13 ☐ FEDEX BOX
- 14 ☐ FEDEX TUBE

Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
- 51 ☐ OTHER PACKAGING
- 56 ☐ FEDEX LETTER*
- 52 ☐ FEDEX PAK*
- 53 ☐ FEDEX BOX
- 54 ☐ FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
- 30 ☐ ECONOMY*

* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
- 46 ☐ GOVT LETTER
- 41 ☐ GOVT PACKAGE

Freight Service (for packages over 150 lbs.)
- 70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required)
- 80 ☐ TWO-DAY FREIGHT**

† Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
- 1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
- 2 ☒ DELIVER WEEKDAY

Saturday Service
- 31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
- 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
- 9 ☐ SATURDAY PICK-UP (Extra charge)

Special Handling
- 4 ☐ DANGEROUS GOODS (Extra charge)
- 6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required
  Dry Ice, 9, UN 1845, ____ x ____ kg, 904 III
- ☐ DESCRIPTION
- 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE (See right)
1	21	
Total 1	Total 21	Total

DIM SHIPMENT (Chargeable Weight)
____ lbs.
L x W x H

Received At:
- 1 ☐ Regular Stop
- 3 ☐ Drop Box
- ☒ On-Call Stop
- 4 ☐ I.B.O.S.C.
- 5 ☐ Station

7 Release Signature:

Emp. No. | Date
- ☐ Cash Received
- ☐ Return Shipment
- ☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address:
City | State | Zip:
Received By: X
Date/Time Received | FedEx Employee Number:

Federal Express Use
- Base Charges
- Declared Value Charge
- Other 1
- Other 2
- Total Charges

REVISION DATE 4/94
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8262

Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo-Engineers
Address: 1386 E Bianna St
City, State, Zip: Woodland, CA 95776
Phone: (916) 668-5300 Fax:
Project Manager: George Comeau
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George L Comeau
Regulatory Agency: Alameda Co.

Sample Identification	S=Soil A=Air W=Water Matrix	TPH-BTEX												Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
1 F-14'	S	✓							All			6.2°		8/10	1355	1	No	
2 G-17'	S	✓												8/10	1425	1	No	
3 H-SW Bottom 16'	S	✓												8/10	1455	1	No	
4 I-SW Bottom 8'	S	✓												8/10	1450	1	No	
5 J-Bottom-west	S	✓												8/11	1535	1	No	
6 K-SW west 8'	S	✓												8/11	1537	1	No	
7																		
8																		
9																		
10																		
11																		
12																		

Relinquished By: George Comeau
Organization: Western Geo

Reliquished By:
Organization:

Relinquished By:
Organization:

Date/Time

Received By:
Organization:

Received By:
Organization:

Received By:
Laboratory: SPA

Date/Time

Date/Time

Date/Time
8-15-95
11:45

Lab: Please initial the following:
Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOA without headspace:
Comments:

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 24, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82291

Project Number/Name : DP

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

STERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP793
Reported on August 23, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 82291

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPL-14.5	08/16/95	08/19/95	22/95	08/22/95	BH221.05	02

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BH221.05-01	Method Blank	MB		Soil	08/22/95	08/22/95
BH221.05-03	CASBV-BV5L-02-01	MS	82289-04	Soil	08/22/95	08/22/95
BH221.05-04	CASBV-BV5L-02-01	MSD	82289-04	Soil	08/22/95	08/22/95
BH221.05-05	CASBV-BV5L-02-01	MS	82289-04	Soil	08/22/95	08/22/95
BH221.05-06	CASBV-BV5L-02-01	MSD	82289-04	Soil	08/22/95	08/22/95

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STERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP793
Reported on August 23, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82291-02	SPL-14.5	Soil	200.0	-

R E S U L T S O F A N A L Y S I S

Compound	82291-02 Conc. mg/kg	RL
Gasoline Range	1200	200
Benzene	8.8	1.0
Toluene	25	1.0
Ethyl Benzene	18	1.0
Xylenes	92	1.0
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	115	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82291
Method Blank(s)

	BH221.05-01 Conc. mg/kg	RL
Gasoline_Range	ND	1
Benzene	ND	0.005
Toluene	ND	0.005
Ethyl Benzene	ND	0.005
Xylenes	ND	0.005
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	100	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82291

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH221.05 03 / 04 - Sample Spiked: 82289 - 04						
Benzene	ND	2.000	2.0/1.9	100/95	65-135	5
Toluene	0.053	2.000	2.1/2.0	102/97	65-[illegible]	5
Ethyl Benzene	0.081	2.000	2.1/2.0	101/96	65-[illegible]	5
Xylenes	0.70	6.000	6.9/6.7	103/100	65-135	3
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				97/92	50-150	
For Soil Matrix (mg/kg) BH221.05 05 / 06 - Sample Spiked: 82289 - 04						
Gasoline_Range	170	200	350/370	90/100	65-135	11

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per [illegible] (ppb)
mg/kg = parts per [illegible] (ppm)

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ESTERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP793
Reported on August 22, 1995

Total Oil and Grease by Standard Method 5520

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82291-01	SPL-7	Soil	1.0	-
82291-03	NPL-7	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82291-01 Conc. mg/kg	RL	82291-03 Conc. mg/kg	RL
Oil and Grease	ND	50	ND	50

Certified Laboratories

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(415) 647-2081 / fax (415) 821-7123

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Total Oil and Grease by Standard Method 5520

Quality Assurance and Control Data

Laboratory Number: 82291
Method Blank(s)

	BH221.34-01 Conc. mg/kg	RL
Oil and Grease	ND	50

Certified Laboratories

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Total Oil and Grease by Standard Method 5520

Quality Assurance and Control Data

Laboratory Number: 82291

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH221.34 02 / 03 - Sample Spiked: 82291 - 03						
Oil and Grease	ND	1000	823/920	82/92	60-110	11

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

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(206) 763-2992 / fax (206) 763-8429

8229 Chain of Custody and Analysis Request

Page 1 of 2

Company: Western Geo-Engineers
Address: 1386 East Beamer
City, State, Zip: Woodland, CA 95776
Phone: (916) 668-5300 Fax: (916) 662-0273
Project Manager: George Converse
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: Roy Butler
Regulatory Agency: Alameda County

Sample Identification	S=Soil A=Air W=Water Matrix	oil+Grease (5520)	TPH g/BTEX	Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
1 SPL-7	S	X		8/4/95		1	none	
2 SPL-14.5	S		X	↓		1	none	
3 NPL-7	S	X		↓		1	none	
4								
5								
6								
7								
8								
9								
10								
11								
12								

Relinquished By: Roy Butler GE — Date/Time 8/17/95 9:30
Organization:

Relinquished By:
Organization:

Relinquished By:
Organization:

Received By:
Organization:

Received By:
Organization:

Received By:
Laboratory:

Date/Time

Date/Time

Date/Time 8-18-95 3:30

Lab: Please initial the following:
Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOAs without headspace:
Comments:

Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo - Engineers
Address: 1386 E Bianna St
City, State, Zip: Ventura, CA 93001
Phone: (916) 668-5300 Fax:
Project Manager: George Comeau
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME
(circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George L Comeau
Regulatory Agency: Alameda Co.

Sample Identification	S = Soil A = Air W = Water Matrix	TPH-BTEX												Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
1 F-14'	S	✓												8/10	1355	1	No	
2 G-17'	S	✓												8/10	1425	1	No	
3 H-SW Bottom 16'	S	✓												8/10	1455	1	No	
4 I-SW Bank 8'	S	✓												8/10	1450	1	No	
5 J-Bottom-west	S	✓												8/11	1535	1	No	
6 K-SW west 8'	S	✓												8/11	1537	1	No	
7																		
8																		
9																		
10																		
11																		
12																		

Relinquished By: George Comeau
Organization: Western Geo
Date/Time

Relinquished By:
Organization:
Date/Time

Relinquished By:
Organization:
Date/Time

Received By: K Peder
Organization:
Date/Time

Received By:
Organization:
Date/Time

Received By:
Laboratory:
Date/Time

Lab: Please initial the following:

Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOAs without headspace:
Comments:

FedEx
Federal Express

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QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER
2846167601

4257R 2846167601

SENDER'S COPY

SENDER'S COPY

1 SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

Date: 8/14/95

From (Your Name) Please Print: George Converse
Your Phone Number (Very Important): (916 668-5306

Company: WESTERN GEO-ENGINEERS
Department/Floor No.:

Street Address: 1386 E. Beamer Street

City: Woodland,
State: CA
ZIP Required: 95776-6003

2 To (Recipient's Name) Please Print: KATIE HILL
Recipient's Phone Number (Very Important): 510-313-0857

Company: SUPERIOR ANALYTICAL LAB
Department/Floor No.:

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 825 ARNOLD DR STE 114

City: MARTINEZ
State: CA
ZIP Required: 9 4 5 5 3

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address:
City / State / ZIP Required:

3 PAYMENT 1 [ ] Bill Sender 2 [X] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash/Check Acct./Credit Card No. 1462-6965-6 Exp. Date: /

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
11 [X] OTHER PACKAGING
16 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon (no Saturday delivery†))
51 [ ] OTHER PACKAGING
56 [ ] FEDEX LETTER*
52 [ ] FEDEX PAK*
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
30 [ ] ECONOMY*
* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 [ ] GOVT LETTER
41 [ ] GOVT PACKAGE

Freight Service (for packages over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT**
†Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 [ ] HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 [X] DELIVER WEEKDAY

Saturday Service
31 [ ] HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 [ ] SATURDAY PICK-UP (Extra charge)

Special Handling
4 [ ] DANGEROUS GOODS (Extra charge)
6 [ ] DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845 ____ X ____ kg, 954 III
[ ] DESCRIPTION
12 [ ] HOLDIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	21	
Total 1	Total 21	Total

DIM SHIPMENT (Chargeable Weight)
[ ] ____ lbs.
L x W x H
Received At:
51 [ ] Regular Stop
[X] On Call Stop
31 [ ] Drop Box
41 [ ] B.S.C.
91 [ ] Station

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

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We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is $500.

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7 Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature:

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Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 4/94
PART #145412 FXLM 8.94
FORMAT #160
160
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Chain of Custody and Analysis Request

Company: Western Geo-Engineers
Address: 1386 East Beamer
City, State, Zip: Woodland, CA 95776
Phone: (916) 668-5300 Fax: (916) 662-0273
Project Manager: George Converse
Alternate Contact:
Project No.: DP 793 P.O. No.

TURN AROUND TIME
(circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: Roy Butler
Regulatory Agency: Alameda County

Sample Identification	S = Soil A = Air W = Water Matrix	oil & Grease (5520)	TPH g/BTEX												Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks Bioremediation UST Monitoring Recent Contamination Unknown Compounds COMMENTS:
1 SPL-7	S	X													8/16/95	1715	1	none	
2 SPL-14.5	S		X													1810	1	none	
3 NPL-7	S	X													↓	1730	1	none	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Relinquished By: Roy Butler
Organization: WEGE
Date/Time: 8/17/95 1730

Reliquished By:
Organization:
Date/Time

Relinquished By:
Organization:
Date/Time

Received By:
Organization:
Date/Time

Received By:
Organization:
Date/Time

Received By:
Laboratory:
Date/Time

Lab: Please initial the following:

Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOA Vials without headspace:
Comments:

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: September 15, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 20094

Project Number/Name : DP 793

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on September 15, 1995
Revised on September 15, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 20094

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
T1-17	08/31/95	09/07/95	09/15/95	09/15/95	BI141.05	01
T2-11.5	08/31/95	09/07/95	09/12/95	09/12/95	BI121.04	02
T2-17.5	08/31/95	09/07/95	09/12/95	09/12/95	BI111.19	03
MW1-5	09/05/95	09/07/95	09/11/95	09/11/95	BI111.19	04
MW1-10	09/05/95	09/07/95	09/14/95	09/14/95	BI411.05	05
MW1-15	09/05/95	09/07/95	09/14/95	09/14/95	BI141.05	06
MW1-20	09/05/95	09/07/95	09/14/95	09/14/95	BI141.05	07

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BI111.19-01	Method Blank	MB		Soil	09/11/95	09/11/95
BI111.19-02	MW-1-1	MS	20076-01	Soil	09/11/95	09/11/95
BI111.19-03	MW-1-1	MSD	20076-01	Soil	09/11/95	09/11/95
BI121.04-02	BHP-5,5.5	MS	20031-25	Soil	09/12/95	09/12/95
BI121.04-03	BHP-5,5.5	MSD	20031-25	Soil	09/12/95	09/12/95
BI141.05-01	Method Blank	MB		Soil	09/14/95	09/14/95
BI141.05-03	MW1-10	MS	20094-05	Soil	09/14/95	09/14/95
BI141.05-04	MW1-10	MSD	20094-05	Soil	09/14/95	09/14/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

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309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

STERN GEO ENGINEERS
ttn: GEORGE CONVERSE

Project DP 793
Reported on September 15, 1995
Revised on September 15, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
20094-01	T1-17	Soil	20.0	-
20094-02	T2-11.5	Soil	1.0	-
20094-03	T2-17.5	Soil	1.0	-
20094-04	MW1-5	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	20094-01 Conc. mg/kg	RL	20094-02 Conc. mg/kg	RL	20094-03 Conc. mg/kg	RL	20094-04 Conc. mg/kg	RL
Gasoline_Range	940	20	ND	1	4	1	ND	1
Benzene	2.1	0.10	ND	0.005	0.050	0.005	0.005	0.005
oluene	3.3	0.10	ND	0.005	0.070	0.005	0.005	0.005
hyl Benzene	7.9	0.10	ND	0.005	0.062	0.005	ND	0.005
Xylenes	33	0.10	ND	0.005	0.31	0.005	0.015	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	164I		99		123		118	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
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1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

STERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on September 15, 1995
Revised on September 15, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
20094-05	MW1-10	Soil	1.0	-
20094-06	MW1-15	Soil	1.0	-
20094-07	MW1-20	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	20094-05 Conc. mg/kg	RL	20094-06 Conc. mg/kg	RL	20094-07 Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1	ND	1
Benzene	ND	0.005	ND	0.005	ND	0.005
oluene	ND	0.005	ND	0.005	ND	0.005
thyl Benzene	ND	0.005	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)	100		97		97	

Certified Laboratories

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Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

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San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20094
Method Blank(s)

	BI111.19-01		BI141.05-01	
	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	121		98	

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20094

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg)						
BI111.19 02 / 03 - Sample Spiked: 20076 - 01						
Gasoline_Range	ND	3.20	3.7/3.6	116/113	65-135	3
Benzene	ND	0.200	0.204/0.204	102/102	65-135	0
Toluene	ND	0.200	0.208/0.208	104/104	65-135	0
Ethyl Benzene	ND	0.200	0.207/0.206	104/103	65-135	1
Xylenes	ND	0.600	0.613/0.612	102/102	65-135	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				105/105	50-150	
For Soil Matrix (mg/kg)						
BI121.04 02 / 03 - Sample Spiked: 20031 - 25						
Gasoline_Range	ND	3.20	4/4	125/125	65-135	0
Benzene	ND	0.200	0.21/0.22	105/110	65-135	5
Toluene	ND	0.200	0.21/0.22	105/110	65-135	5
Ethyl Benzene	ND	0.200	0.21/0.22	105/110	65-135	5
Xylenes	ND	0.600	0.62/0.65	103/108	65-135	5
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				98/100	50-150	
For Soil Matrix (mg/kg)						
BI141.05 03 / 04 - Sample Spiked: 20094 - 05						
Gasoline_Range	ND	3.20	4/4	125/125	65-135	0
Benzene	ND	0.200	0.20/0.21	100/105	65-135	5
Toluene	ND	0.200	0.20/0.20	100/100	65-135	0
Ethyl Benzene	ND	0.200	0.21/0.21	105/105	65-135	0
Xylenes	ND	0.600	0.62/0.62	103/103	65-135	0

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20094

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				95/96	50-150	

I - The surrogate recovery was high due to the presence of interfering compounds in the sample.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

28094 Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo-Engineers
Address: 1386 E. Beamer St.
City, State, Zip: Woodland, CA. 95776-6007
Phone: 916 668 5300 Fax: 916 662-0273
Project Manager: George Converse
Alternate Contact: Dick Thielfall
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George Converse
Regulatory Agency: Alameda Co. Zone 7

	Sample Identification	S=Soil A=Air W=Water Matrix	TPH-BTEX											Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation / UST / Monitoring / Recent Contamination / Unknown Compounds / COMMENTS:
1	T1-17'	S	✓											8/31	1300	1	No	
2	T2-11.5	S	✓												1235	1	No	
3	T2-17.5	S	✓												1400	1	No	
4								A	H									
5	MW1-5	S	✓						Y	15.0'				9/5	0825	1	No	
6	MW1-10	S	✓						Y						0930	1	No	
7	MW1-15	S	✓												0934	1	No	
8	MW1-20	S	✓												0940	1	No	
9																		
10																		
11																		
12																		

Relinquished By: George Converse	Date/Time 9/6/95 0900	Received By: X	Date/Time	Lab: Please initial the following:
Organization: WESCE		Organization:		
Reliquished By: X	Date/Time	Received By: X	Date/Time	Samples Stored in Ice:
Organization:		Organization:		Appropriate Containers:
Relinquished By: X	Date/Time	Received By:	Date/Time 1260	Samples Preserved:
Organization:		Laboratory: SPL	9/6/95	VOAs without headspace:
				Comments:

FEDERAL EXPRESS

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USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 7757572343

3163R 7757572343

RECIPIENT'S COPY

1 Date: 9/6/95

From (Your Name) Please Print: GEORGE CONVERSE
Your Phone Number (Very Important): (510)685-6300
Company: WESTERN GEO. ENVIR.
Department/Floor No.:
Street Address: 1330 EAST BLVD.
City: ROSEVILLE State: CA ZIP Required: 9 5 6 6 5

2 To (Recipient's Name) Please Print: KATIE HILL
Recipient's Phone Number (Very Important): (510) 313-0857
Company: SUPERIOR ANALYTICAL LAB
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 825 Arnold Drive, Suite 114
City: Martinez, State: CA ZIP Required: 9 4 5 5 3

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address:
City: State: ZIP Required:

3 PAYMENT 1 ☐ Bill Sender 2 ☒ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)	Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
11 ☒ OTHER PACKAGING	51 ☐ OTHER PACKAGING
16 ☐ FEDEX LETTER*	56 ☐ FEDEX LETTER*
12 ☐ FEDEX PAK*	52 ☐ FEDEX PAK*
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day (Delivery by second business day †)	Government Overnight (Restricted for authorized users only)
30 ☐ ECONOMY*	46 ☐ GOVT LETTER
	41 ☐ GOVT PACKAGE

* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Freight Service (for packages over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT** 80 ☐ TWO-DAY FREIGHT**
(Confirmed reservation required)
† Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 ☐ DELIVER WEEKDAY

Saturday Service
31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 ☐ SATURDAY PICK-UP (Extra charge)

Special Handling
4 ☐ DANGEROUS GOODS (Extra charge)
6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845, ____ X ____ kg, 904 III
☐ DESCRIPTION
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	25	
Total 1	Total 25	Total

DIM SHIPMENT (Chargeable Weight) ☐ ____ lbs.
L x W x H

Received At
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ I.B.S.C. 5 ☐ Station

7 Release Signature:

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 12/92
PART #137204 FXEM 5/93
FORMAT #158
158

Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo-Engineers
Address: 1386 E. Beamer St.
City, State, Zip: Woodland, CA. 95776-6007
Phone: 916 668 5200 Fax: 916 662-0273
Project Manager: George Conrene
Alternate Contact: Dan Threlfall
Project No.: DP 793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553
Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: George Conrene
Regulatory Agency: Alameda Co. Zone 7

	Sample Identification	S=Soil A=Air W=Water Matrix	TPH-g - BTEX												Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation, UST, Monitoring, Recent Contamination, Unknown Compounds, COMMENTS:
1	T1-17'	S	✓												8/31	1300	1	No	
2	T2-11.5	S	✓													1235	1	No	
3	T2-17.5	S	✓													1400	1	No	
4																			
5	MW1-5	S	✓												9/5	0825	1	No	
6	MW1-10	S	✓													0930	1	No	
7	MW1-15	S	✓													0934	1	No	
8	MW1-20	S	✓													0946	1	No	
9																			
10																			
11																			
12																			

Relinquished By: George Conrene	Date/Time 9/6/95 0900	Received By: Jolie FOX	Date/Time 9/6/95 1600	Lab: Please initial the following:
Organization: WGE		Organization:		Samples Stored in Ice:
Reliquished By:	Date/Time	Received By:	Date/Time	Appropriate Containers:
Organization:		Organization:		Samples Preserved:
Relinquished By:	Date/Time	Received By:	Date/Time	VOAs without headspace:
Organization:		Laboratory:		Comments:

Superior Analytical Laboratory

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: October 13, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 20248

Project Number/Name : D793

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Customer Service: (800) 521-6109 • Laboratory: (510) 313-0850 • Facsimile: (510) 229-0916
Post Office Box 2648 • 835 Arnold Drive • Suite #106 • Martinez, California 94553
1555 Burke Street • Suite A • San Francisco, California 94124

Superior Analytical Laboratory

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project D793
Reported on October 13, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 20248

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW1	10/04/95	10/06/95	10/06/95	10/06/95	BJ061.37	01
RS-2	10/04/95	10/06/95	10/06/95	10/06/95	BJ061.37	02
RS-6	10/04/95	10/06/95	10/10/95	10/10/95	BJ092.05	03
RS-5	10/04/95	10/06/95	10/12/95	10/12/95	BJ091.37	04
RS-7	10/04/95	10/06/95	10/13/95	10/13/95	BJ121.04	05

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
BJ061.37-01	Method Blank	MB		Water	10/06/95	10/06/95
BJ061.37-02	Laboratory Spike	LS		Water	10/06/95	10/06/95
BJ061.37-03	MW2	MS	20223-02	Water	10/06/95	10/06/95
BJ061.37-04	MW2	MSD	20223-02	Water	10/06/95	10/06/95
BJ091.37-01	Method Blank	MB		Water	10/09/95	10/09/95
BJ091.37-18	95400305	MS	20229-05	Water	10/10/95	10/10/95
BJ091.37-19	95400305	MSD	20229-05	Water	10/10/95	10/10/95
BJ092.05-01	Method Blank	MB		Water	10/10/95	10/10/95
BJ092.05-02	WP1-1-995	MS	20222-02	Water	10/10/95	10/10/95
BJ092.05-03	WP1-1-995	MSD	20222-02	Water	10/10/95	10/10/95
BJ121.04-01	Method Blank	MB		Water	10/12/95	10/12/95
BJ121.04-02	Laboratory Spike	LS		Water	10/12/95	10/12/95
BJ121.04-03	Laboratory Spike Duplicate	LSD		Water	10/12/95	10/12/95
BJ121.04-04	1687-ACES	MS	20256-02	Water	10/12/95	10/12/95
BJ121.04-05	1687-ACES	MSD	20256-02	Water	10/12/95	10/12/95

ESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project D793
Reported on October 13, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
20248-01	MW1	Water	1.0	-
20248-02	RS-2	Water	1.0	-
20248-03	RS-6	Water	5.0	-
20248-04	RS-5	Water	25.0	-

R E S U L T S O F A N A L Y S I S

Compound	20248-01 Conc. ug/L	RL	20248-02 Conc. ug/L	RL	20248-03 Conc. ug/L	RL	20248-04 Conc. ug/L	RL
Gasoline_Range	ND	50	ND	50	3700	250	16000	1300
Benzene	ND	0.5	ND	0.5	170	2.5	420	13
Toluene	ND	0.5	ND	0.5	250	2.5	2100	13
Ethyl Benzene	ND	0.5	ND	0.5	38	2.5	320	13
otal Xylenes	ND	0.5	ND	0.5	290	2.5	1800	13
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	95		92		104		137	

Superior Analytical Laboratory

ESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project D793
Reported on October 13, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
20248-05	RS-7	Water	100.0	-

R E S U L T S O F A N A L Y S I S

Compound	20248-05 Conc. ug/L	RL
Gasoline Range	96000	5000
Benzene	14000	50
Toluene	14000	50
Ethyl Benzene	1300	50
otal Xylenes	7000	50

>> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)	107

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20248
Method Blank(s)

	BJ061.37-01		BJ091.37-01		BJ092.05-01		BJ121.04-01	
	Conc. ug/L	RL	Conc. ug/L	RL	Conc. ug/L	RL	Conc. ug/L	RL
Gasoline_Range	ND	50	ND	50	ND	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	ND	0.5	ND	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	94		94		98		100	

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20248

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) BJ061.37 02 / - Laboratory Control Spikes						
Gasoline_Range		320	387	121	65-135	
Benzene		20	19	95	65-135	
Toluene		20	19	95	65-135	
Ethyl Benzene		20	19	95	65-135	
Total Xylenes		60	54	90	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				91	50-150	
For Water Matrix (ug/L) BJ121.04 02 / 03 - Laboratory Control Spikes						
Gasoline_Range		320	394/470	123/147	65-135	18
Benzene		20	19/21	95/105	65-135	10
Toluene		20	20/21	100/105	65-135	5
Ethyl Benzene		20	20/20	100/100	65-135	0
Total Xylenes		60	59/60	98/100	65-135	2
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				99/123	50-150	
For Water Matrix (ug/L) BJ061.37 03 / 04 - Sample Spiked: 20223 - 02						
Gasoline_Range	ND	320	376/435	118/136	65-135	14
Benzene	ND	20	19/20	95/100	65-135	5
Toluene	ND	20	18/20	90/100	65-135	11
Ethyl Benzene	ND	20	19/20	95/100	65-135	5
Total Xylenes	ND	60	51/55	85/92	65-135	8
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				94/95	50-150	

Superior Analytical Laboratory

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 20248

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) BJ091.37 18 / 19 - Sample Spiked: 20229 - 05						
Gasoline_Range	ND	320	330/370	103/116	65-135	12
Benzene	ND	20	16/17	80/85	65-135	6
Toluene	ND	20	17/17	85/85	65-135	0
Ethyl Benzene	ND	20	17/17	85/85	65-135	0
Total Xylenes	ND	60	47/47	78/78	65-135	0
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				79/91	50-150	
For Water Matrix (ug/L) BJ092.05 02 / 03 - Sample Spiked: 20222 - 02						
Gasoline_Range	ND	320	370/390	116/122	65-135	5
Benzene	ND	20	21/22	105/110	65-135	5
Toluene	ND	20	21/22	105/110	65-135	5
Ethyl Benzene	ND	20	21/22	105/110	65-135	5
Total Xylenes	ND	60	62/65	103/108	65-135	5
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				95/97	50-150	
For Water Matrix (ug/L) BJ121.04 04 / 05 - Sample Spiked: 20256 - 02						
Gasoline_Range	940	320	1199/1189	81/78	65-135	4
Benzene	4.6	20	22/21.86	87/86	65-135	1
Toluene	19.2	20	36/34.76	84/78	65-135	7
Ethyl Benzene	7.28	20	24/24.36	84/85	65-135	1
Total Xylenes	53.63	60	99/100	76/77	65-135	1
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				99/115	50-150	

Superior
Analytical Laboratory

arrative:

Definitions:

ND	=	Not Detected
RL	=	Reporting Limit
NA	=	Not Analysed
RPD	=	Relative Percent Difference
ug/L	=	parts per billion (ppb)
mg/L	=	parts per million (ppm)
ug/kg	=	parts per billion (ppb)
mg/kg	=	parts per million (ppm)

20248 Chain of Custody and Analysis Request

Page 1 of 1

Company: Western Geo-Engineers
Address: 1386 East Beamer
City, State, Zip: Woodland, CA
Phone: 916 668 5300 Fax: 916 662 0273
Project Manager: George Converse
Alternate Contact: D. Thetford
Project No.: D793 P.O. No.

TURN AROUND TIME (circle one)
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
Normal 5 Day

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Martinez I: (510) 229-1512
Martinez II: (510) 229-0166
San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: D. Thetford
Regulatory Agency:

Sample Identification	S=Soil A=Air W=Water Matrix		TPH-G	BTEX									Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation / UST / Monitoring / Recent Contamination / Unknown Compounds / COMMENTS:
1 MW1-water	W		X	X									10/4/95		3	yes	
2 RS-2 water	W		X	X									"		"	"	
3 RS-6 water	W		X	X									"		"	"	
4 RS-5 water	W		X	X									"		"	"	
5 RS-7 water	W		X	X									10/4/95		3	yes	
6													NJ				
7													Y	1600			
8													Y				
9																	
10																	
11																	
12																	

Relinquished By: Attached
Organization: WEGE
Date/Time: 10/5/95

Reliquished By: FedEx
Organization:
Date/Time: 1450 10-5-95

Relinquished By:
Organization:
Date/Time:

Received By:
Organization:
Date/Time:

Received By:
Organization:
Date/Time:

Received By:
Laboratory: Superior
Date/Time: 13:00 10/6/95

Lab: Please initial the following:
Samples Stored in Ice:
Appropriate Containers:
Samples Preserved:
VOAs without headspace:
Comments:

FEDERAL EXPRESS

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONT... U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER 775

MULTIPLE

7759572321

RECIPIENT'S COPY

1 [redacted]

Date: 10/5/95

From (Your Name) Please Print: George Converse

Your Phone Number (Very Important): [illegible]

Company: [illegible]

Department/Floor No.

Street Address: [illegible]

City: [illegible] State: CA ZIP Required: [illegible]

2 To (Recipient's Name) Please Print: Katie Hill

Recipient's Phone Number (Very Important): (510) 313-0857

Company: SUPERIOR ANALYTICAL LAB

Department/Floor No.

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 925 Arnold Drive, Suite 114

City: Martinez, State: CA ZIP Required: 94553

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address
City State ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☒ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check [redacted]

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
11 ☒ OTHER PACKAGING
16 ☐ FEDEX LETTER*
12 ☐ FEDEX PAK*
13 ☐ FEDEX BOX
14 ☐ FEDEX TUBE

Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
51 ☐ OTHER PACKAGING
56 ☐ FEDEX LETTER*
52 ☐ FEDEX PAK*
53 ☐ FEDEX BOX
54 ☐ FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
30 ☐ ECONOMY*
*Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 ☐ GOV'T LETTER
41 ☐ GOV'T PACKAGE

Freight Service (for packages over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required)
80 ☐ TWO-DAY FREIGHT**
† Delivery commitment may be later in some areas.
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 ☐ DELIVER WEEKDAY

Saturday Service
31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 ☐ SATURDAY PICK-UP (Extra charge)

Special Handling
4 ☐ DANGEROUS GOODS (Extra charge)
6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845, ______ x ______ kg. 904 III
☐ DESCRIPTION
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	15	
Total 1	Total 15	Total

DIM SHIPMENT (Chargeable Weight) ☐ ______ lbs.
L x W x H

Received At
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ B.S.C. 5 ☐ Station

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City State Zip
Received By:
X
Date/Time Received FedEx Employee Number

7 Release Signature:

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 12/92
PART #137204 FXEM 5/93
FORMAT #158

158

7759572321
7759572321

FAX TRANSMITTAL COVER SHEET

DATE: 7/24/95

FROM: J. Rutherford

COMPANY: Desert Petroleum

P.O. Box 1601
Oxnard, CA 93032
(805) 644-6784 FAX No. (805) 654-0720

Number of pages including cover sheet: 2

MESSAGE TO: G. Converse

COMPANY: WEGE

FAX NUMBER: 916-662-0273

COMMENTS:

Profile #793

Original will: ___not follow ___follow by mail ___follow by _____

Please contact _____ at extension _____if you have any problems with this transmission.

WESTERN GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

FROM: George Conner DATE: July 21, 1995

TO: John Rutherford FAX #: (805) 654-0720
Desert Petroleum

TOTAL PAGES
INCLUDING THIS PAGE

2

COMMENTS:

John,
RE: Forward Profile Form Back
page - Desert Station # 793
please sign and date form, fax
back to me
Thanks,
GC

TABLE 2

DESERT PETROLEUM #793

4035 PARK BLVD.

OAKLAND, CALIFORNIA 94602

EXCAVATED SOIL SAMPLE RESULTS

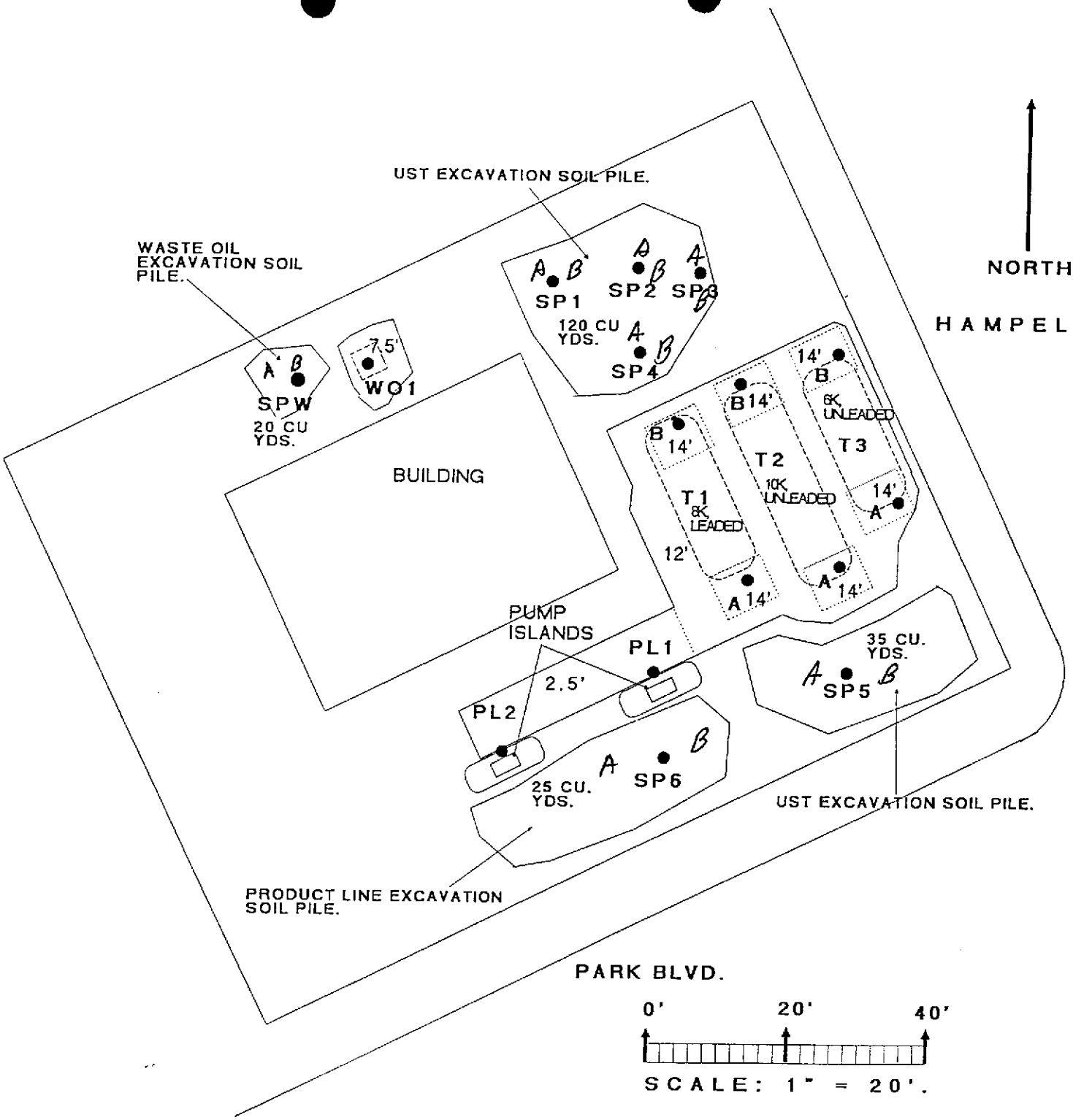
SAMPLE ID	AREA	DEPTH SAMPLED IN FEET	DATE SAMPLED	EPA METHOD 8015 GASOLINE mg/Kg	5540 D&F DIESEL mg/Kg	OIL/GREASE mg/Kg	METHOD 8020 BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg	METHOD 8010 ug/Kg	METHOD 8270 mg/Kg	METHOD 6010 LEAD mg/Kg	CADMIUM mg/Kg	CHROMIUM mg/Kg	NICKEL mg/Kg	ZINC mg/Kg
SP1 (SP1 A&B)	UST EXCAVATED	2	06/23/94	110	NA	NA	<0.05	0.46	0.46	4.9			27				
SP2 (SP2 A&B)	SOIL	2	06/23/94	200	NA	NA	<0.05	0.22	0.340	3.5			32				
SP3 (SP3 A&B)		2	06/23/94	170	NA	NA	<0.05	0.08	0.47	2.6			34				
SP4 (SP4 A&B)		2	06/23/94	68	NA	NA	<0.05	0.13	0.130	1.8			11				
SP5 (SP5 A&B)		2	06/23/94	110	NA	NA	0.011	0.009	0.140	1.3			10				
SP6 (SP6 A&B)	PUMP ISLAND EXCAVATED SOIL	2	06/23/94	19	NA	NA	0.006	0.013	0.048	0.51			29				
SP-W (WO A&B)	WASTE OIL TANK EXCAVATION	2	06/23/94	<1	<1	1100	0.009	0.008	<0.005	0.02	<5	<3	6.98	<0.025	0.083	0.81	<10
SPC 4431-1(ABCD)	STOCKPILED SOIL 200 CU YDS.	2	08/14/95	110	NA	NA	<0.025	0.27	0.54	2.3	NA	NA	17	NA	NA	NA	NA
SPC 4431-1(EFGH)	STOCKPILED SOIL 200 CU YDS.	2	08/14/95	37	NA	NA	<0.005	0.1	0.17	1.6	NA	NA	19	NA	NA	NA	NA

(A&B)

NOTE: 8010, 8270, and metal analysis samples obtained from hand auger sampling on July 10, 1995.

< or ND = BELOW LABORATORY DETECTION LIMITS

NA = NOT ANALYZED



DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
A 14'	SAMPLE POINT AND ID #.

A B Samples obtained by Hand Auger July 10, 1995

FIGURE 1

UST AND PRODUCT LINE REMOVAL SAMPLING LOCATIONS

JUNE 23, 1994

TABLE 2
DESERT PETROLEUM #793
4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602

EXCAVATED SOIL SAMPLE RESULTS

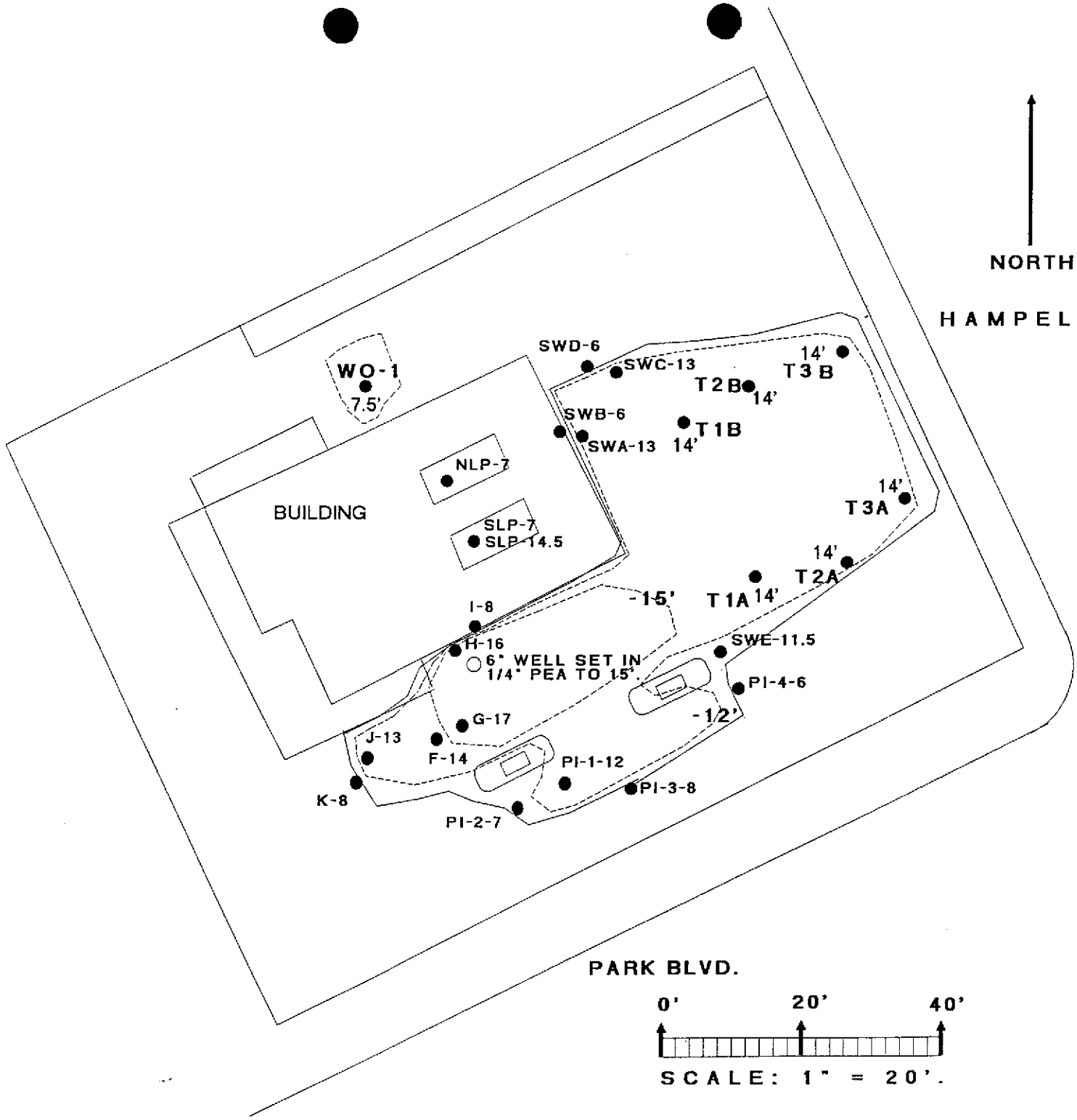
SAMPLE ID	AREA	DEPTH SAMPLED IN FEET	DATE SAMPLED	EPA METHOD 8015 GASOLINE mg/Kg	5540 D&F DIESEL mg/Kg	OIL/GREASE mg/Kg	METHOD 8020 BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg
SP1	UST EXCAVATED SOIL	2	06/23/94	110	NA	NA	<0.05	0.46	0.46	4.9
SP2		2	06/23/94	200	NA	NA	<0.05	0.22	0.340	3.5
SP3		2	06/23/94	170	NA	NA	<0.05	0.08	0.47	2.6
SP4		2	06/23/94	68	NA	NA	<0.05	0.13	0.130	1.8
SP5		2	06/23/94	110	NA	NA	0.011	0.009	0.140	1.3
SP6	PUMP ISLAND EXCAVATED SOIL	2	06/23/94	19	NA	NA	0.006	0.009	0.048	0.51
SP-W	WASTE OIL TANK EXCAVATION	2	06/23/94	<1	<1	1100	0.009	0.008	<0.005	0.02

ND = BELOW LABORATORY DETECTION LIMITS
NA = NOT ANALYZED

8240 ND

8270 ND

STLC Pb 6.98 mg/L



EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
A 14'	SAMPLE POINT AND ID #.
-1.2'	BELOW GRADE CONTOUR IN FEET BELOW SURFACE.

DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

FIGURE 2

OVER-EXCAVATION SAMPLING LOCATIONS

AUGUST 8, 10, 11, 14, AND 16, 1995

LAB JOB# [illegible]

Chain of Custody and Analysis Request

Page 1 of 1

Superior Precision Analytical
825 Arnold Drive, Suite 114
Martinez, CA 94553
Phone: (510) 229-1512 Fax: (510) 229-1526
Contact:

Project No.: DP. 793 P.O. No.

TURN AROUND TIME
Same Day 72 Hrs.
24 Hrs. 48 Hrs.
5 Day (circled) 10 Day

Bill To: Western Geo-Eng

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Analysis Request

Work Subcontracted to:

Laboratory Sample ID	Client Sample ID	S-Soil A-Air W-Water Matrix	8240	8260	8270	Pesticides	Flashpoint	TPH Motor Oil	TTLC Pb	8010	Com STLC Pb, Ni, Zn, Cr	TTLC: Pb, Ni, Zn, Cr, Cd (7-26-95)	Date Sampled	# of Containers	Preservative	COMMENTS
	SP1 A & B	S	Composite						✓							
	SP2 A & B	S	Composite						✓				7/10/95	2	No	☐ Please fax invoice or quote ASAP
	SP3 A & B	S	Composite						✓							
	SP4 A & B	S	Composite						✓							☐ Please fax results to Superior, Martinez
	SP5 A & B	S	Composite						✓							☐ Please fax results to our client (see attached COC)
	SP6 A & B	S	Composite						✓							
	WO A & B	S	(crossed out) NO		✓	Composite				✓	✓	✓	7/10/95	2	NO	

[illegible] SA
[illegible] Hand Delivered Cold

		Date	Time			Date	Time
Relinquished By:	Gary Conrad [signature]	7/10/95	15:40 am/pm	Received By:		/ /	: am/pm
Organization:	WGEE			Organization:			
Relinquished By:		/ /	: am/pm	Received By:		/ /	: am/pm
Organization:				Organization:			
Relinquished By:		/ /	: am/pm	Received By:	Stan [signature]	7/10/95	3:40 am/pm (pm circled)
Organization:				Laboratory:	Superior		

Lab - Please initial the following:
Samples Stored in Ice: ✓
Appropriate Containers:
Samples Preserved:
VOAs without headspace:
Comments:

LAB JOB: 2007

Chain of Custody and Analysis Request

Page 1 of 1

Superior Precision Analytical
825 Arnold Drive, Suite 114
Martinez, CA 94553
Phone: (510) 229-1512 Fax: (510) 229-1526
Contact:

Project No.: DP 793 P.O. No.

TURN AROUND TIME

Same Day	72 Hrs.
24 Hrs.	48 Hrs.
5 Day	10 Day

Bill To: Western Geo-Eng

Superior Precision Analytical Inc.
P.O. Box 1545
Martinez, California 94553

Analysis Request

Work Subcontracted to:

Laboratory Sample ID	Client Sample ID	S-Soil A-Air W-Water	8240	8260	8270	Pesticides	Flashpoint	TPH Motor Oil	TTLC Pb	8010	Cam 5 TTLC Pb, Ni, Zn, Cu, Cd	TTLC: Pb, Ni, Zn, Cu, Cd 7-26-95	Date Sampled	# of Containers	Preservative	COMMENTS
	SP1A&B	S	Composite						✓				7/6/95	2	NO	☐ Please fax invoice or quote ASAP
Composit	SP2A&B	S	Composite				DiH2O		✓							☐ Please fax results to Superior, Martinez
	SP3A&B	S	Composite				Pb		✓							☐ Please fax results to our client (see attached COC)
	SP4A&B	S	Composite						✓							
Composit	SP5A&B	S	Composite				DiH2O		✓							
	SP6A&B	S	Composite				Pb		✓							
	VOA&B	S	~~X~~ NO		✓	Composite				✓	✓	✓	7/6/95	2	NO	

Temperature Initial: 29

Temperature Received: Hand Delivered Cold

Relinquished By: Gary Conner	Date 7/10/95	Time 15:40 am/pm	Received By: Organization:
Reliquished By: Organization:	Date / /	Time : am/pm	Received By: Organization:
Relinquished By: Organization:	Date / /	Time : am/pm	Received By: Laboratory: Superior

Date / /	Time :	am/pm
Date / /	Time :	am/pm
Date 7/10/95	Time 3:40	am/pm

Lab - Please initial the following:

- Samples Stored in Ice:
- Appropriate Containers:
- Samples Preserved:
- VOAs without headspace:
- Comments:

FORWARD INCORPORATED

PROFILE # 6131

APPROVAL #

WASTE PROFILE FORM

PLEASE DETACH AND RETURN TO: FORWARD INC., P.O. BOX 6336, STOCKTON, CA 95206 FAX (209) 466-1067 PHONE (209) 466-4482

A. GENERAL INFORMATION

Generator Name: DESERT PETROLEUM INC.
Mailing Address: P.O. BOX 1601
City: Oxnard, State: CA Zip: 93032
Contact: John Rutherford Title: Env. Manager
Telephone No.: (805) 644-6784 Fax No.: (805) 654-0720

Billing Name: DESERT PETROLEUM
Billing Address: P.O. Box 1601
City: Oxnard, State: CA Zip: 93032
Contact: John Rutherford Title: ENv. Manager
Telephone No.: (805) 644-6784 Fax No.: (805) 654-0720

Consultant Name: WESTERN GEO-ENGINEERS
Mailing Address: 1386 E. Beamer Street
City: Woodland, State: CA Zip: 95776-6003
Contact: GEORGE CONVERSE Title: PROJECT MANAGER
Telephone No.: (916) 668-5300 Fax No.: (916) 662-0273

Transporter: MANLEY AND SONS
Mailing Address: 9340 Gerber Road
City: Sacramento, State: CA Zip: 95829
Contact: TIM MANLEY Title:
Telephone No.: (916) 381-6864 Fax No.: (916) 381-1573

B. WASTE STREAM IDENTIFICATION

Site Address: 4035 Park BLvd., Oakalnd, CA 94602
Description of waste: EXCAVATED SOIL FROM UST REMOVAL
Process generating waste: EXCAVATED SOIL GENERATED FROM UST REMOVAL

C. WASTE STREAM DESCRIPTION

1. Waste Type: ☒ Soil ☐ Sludge ☐ Ash ☐ Treated Wood ☐ Debris ☐ Asbestos ☐ Other
2. Anticipated Volume: ☐ Tons ☒ Cubic Yards 700 ☐ Drums ☐ Other
3. Method of Shipment: ☒ Bulk solid ☐ Containerized (Type):
4. Shipping Frequency: ☐ Monthly ☐ Yearly ☒ One Time ☐ Other
5. Asbestos Containment Method: ☐ Bags ☐ Cartons ☐ Drums ☐ Wrapped ☐ Other 6. DOT Proper Shipping Name:
7. Physical State: ☒ Solid ☐ Slurry ☐ Paste ☐ Powder ☐ Other 8. Percent Moisture: 4%
9. Odor: ☐ Strong ☐ Mild ☐ None 10. Color of Material: brown 11. pH: 6.5 - 7.5
12. Soil Type: % 40 Sand 40 Silt 20 Clay 13. Free Standing Liquids: ☐ Yes ☒ No

D. ANALYTICAL SUMMARY (ATTACH ALL CERTIFIED LAB RESULTS AND CHAIN OF CUSTODY DOCUMENTATION)

TOTAL PETROLEUM HYDROCARBONS (Specify Method - e.g. 8015)	AVG	HIGH	Units (PPM /ppb)	BTEX (EPA 8020)	AVG	HIGH	Units (PPM /ppb)
Gasoline	97	200	ppm	Benzene	0.03	<0.05	ppm
Diesel	<1	<1	ppm	Toluene	0.13	0.46	ppm
Motor Oil or TOG	1100	1100	ppm	Ethylbenzene	0.23	0.47	ppm
Other:				Xylenes	2.09	4.9	ppm
VOLATILE ORGANICS (Specify Method - e.g. 8260) List Detected Analytes:				SEMI-VOLATILE ORGANICS (EPA 8270) List Detected Analytes:			
8010	ND	ND	ppb		ND	ND	ppm
Other Analytical Methods:				Other Analytical Methods:			

Element	TTLC			STLC			TCLP		
	Average	High	Units	Average	High	Units	Average	High	Units
Antimony (Sb)									
Arsenic (As)									
Barium (Ba)									
Beryllium (Be)									
Cadmium (Cd)	<0.025	<0.025	ppm						
Chromium (Cr)	0.083	0.083	ppm						
Hexavalent Cr (Cr+6)									
Cobalt (Co)									
Copper (Cu)									
Lead (Pb)	21.4	34.0	ppm						
Mercury (Hg)									
Molybdenum (Mo)									
Nickel (Ni)	0.81	0.81	ppm						
Selenium (Se)									
Silver (Ag)									
Thallium (Tl)									
Vanadium (V)									
Zinc (Zn)	<10	<10	ppm						

E. Terms And Conditions

The below named generator (Generator) agrees to the following terms and conditions (Terms and Conditions) for treatment and/or disposal of waste at the Forward, Inc. (Forward) Landfill.

1. Generator warrants that the above, attached, and any other submitted waste profile information is complete and accurate and that none of the waste is hazardous as defined or listed in 40 CFR Part 261 or Title 22 of the California Code of Regulations, with the exception of asbestos properly described above. If any portion of this waste, other than asbestos properly described above, is determined to be hazardous (Hazardous Waste) according to any of the above mentioned regulations, each party shall promptly notify the other in writing upon learning of such determination. Within 10 days after receiving such written notification, Generator at its sole cost shall remove from the Forward Landfill, transport, and dispose offsite such Hazardous Waste in accordance with applicable laws and regulations. If Generator fails to remove such Hazardous Waste, Forward may do so at its option, at Generator's sole cost. Within 30 days after such removal operation is complete, Forward shall refund treatment/disposal fees previously paid concerning the Hazardous Waste, less 50 percent of disposal fee handling charge plus right of offset for losses and costs incurred respecting such Hazardous Waste (such offset right shall not limit Forward's other rights of recovery).
2. Generator agrees that, in the event Generator, its consultant or its contractor learns that constituents, characteristics, or concentrations regarding the waste vary from those set forth in this waste profile or on any attached or submitted documents, Generator will immediately submit a corrected Waste Profile Form.
3. Generator warrants that any asbestos delivered to the Forward Landfill has been properly described above and will be prepared for transportation to and disposal at the Forward Landfill in compliance with applicable regulatory requirements.
4. Generator shall indemnify, defend, and hold harmless Forward, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents, and representatives against any and all claims, orders, liabilities, judgments, actions, liens, regulatory directives, fees, costs (including attorneys', experts' and consultants' fees and costs), penalties, fines, taxes, and liens (collectively, Liabilities), to the extent arising from: a breach of any warranty or obligation of Generator hereunder; non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste, caused by Generator, its consultants or contractors, or their respective employees, agents, representative or subcontractors; or any or all of Generator's waste which is Hazardous Waste.
5. Forward shall indemnify, defend and hold harmless Generator, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents and representatives against any and all Liabilities, to the extent arising from non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste (not including Hazardous Waste), caused by Forward, its consultants, or contractors, or their respective employees, agents, representatives or subcontractors.
6. The Landfill must be notified no less than 24 hours in advance for waste deliveries. The Landfill's operating hours are from 7:00 a.m. to 4:00 p.m. Monday through Friday. Arrangements can be made to extend the Landfill's hours. No waste will be accepted when weather or Landfill conditions/activities impair deliveries, handling or disposal. Generator acknowledges that Forward's acceptance of waste is subject to regulatory requirements, and that Forward shall have no liability for inability to accept waste due to regulatory requirements or restrictions, regardless of cause.
7. No waste will be accepted by Forward until Forward has received a completed Waste Profile Form, has issued an approval number, and has received a signed Payment Terms Contract. Forward, can accept additional waste from Generator which is related to the waste stream or waste removal job described in Sections A-D above but which was not previously approved for acceptance (Additional Waste). These Terms and Conditions shall apply to Additional Waste, except Additional Waste for which Forward requires submission of a separate signed Waste Profile Form.
8. California Law shall govern these Terms and Conditions. If any action or proceeding arises regarding a claim concerning these Terms and Conditions or is brought to enforce or interpret these Terms and Conditions the prevailing party shall be entitled to recover its attorneys' and experts' fees and costs, whether or not prosecuted to judgment.

THE GENERATOR ACKNOWLEDGES THAT IT HAS READ AND UNDERSTOOD THE PRECEDING TERMS AND CONDITIONS AND AGREES TO THE SAME, AND THE PERSON SIGNING BELOW WARRANTS THAT HE/SHE IS AUTHORIZED TO SIGN FOR THE GENERATOR.

Generator Name: DESERT PETROLEUM INC.

By (Print Name): JOHN RUTHERFORD Title: DIR. ENVIR. AFFAIRS

Signature: [signature] Date: 7-24-95

FORWARD INC.

FORWARD INCORPORATED

P.O. BOX 6336
STOCKTON, CA 95206

(209) 466-4482
FAX (209) 465-0

August 7, 1995

Mr. George Converse
Western Geo-Engineers
9340 Gerber Road
Sacramento, California 95829

Re: Temporary Stockpile Agreement #SPC-4431
from Desert Petroleum, Inc.
4035 Park Boulevard, Oakland, CA

Dear Mr. Converse :

This letter serves as an agreement between *FORWARD, INC.* ("FORWARD") and Western Geo-Engineers (Agent for Desert Petroleum, Inc.) for temporary stockpiling of non-hazardous contaminated Waste from the site referenced above ("Waste"), pending completion of testing. The stockpiling is done as an accommodation to Western Geo-Engineers, and will be performed at the *FORWARD* Landfill in San Joaquin County, California.

A Waste Profile Form must be signed and completed by except for Section D (Analytical Summary), and must be approved by *FORWARD* prior to deliveries of any Waste for stockpiling. Section E ("Terms and Conditions") of the Waste Profile Form shall apply to stockpiling of Waste, in addition to any treatment/disposal.

The minimum testing required prior to final acceptance sh.. e as follows: Soluble lead using deionized water extract.

All test data and supplemental information regarding Waste, when received by *FORWARD*, shall be deemed incorporated into the Waste Profile Form.

Western Geo-Engineers shall diligently complete its testing of Waste and shall provide the Chain of Custody Form within three (3) days of receipt of Waste for temporary stockpiling at *FORWARD*. The required test results must be received by *FORWARD* within ten (10) days after receipt of the Waste at *FORWARD*. If Western Geo-Engineers fails to provide the analytical data to *FORWARD* as required , such testing shall be initiated by *FORWARD* at Western Geo-Engineers's expense.

If *FORWARD* does not accept Waste for treatment/disposal based on the results of the analytical testing, then agrees to remove all Waste from the Landfill at 's sole expense within ten (10) days after *FORWARD* notifies of such election in writing. If fails to so remove the Waste within such period, then *FORWARD* at its option may thereafter remove the Waste, at Western Geo-Engineers's sole expense, based on 50% of previously quoted rate for disposal. Analytical results must be received in our office within ten (10) days after we receive the waste at our landfill facility. If not, *FORWARD* will have the Waste sampled at Western Geo-Engineers' sole expense.

This agreement applies only to temporary stockpiling of Waste. *FORWARD*'s acceptance of Waste for treatment and/or disposal is subject to *FORWARD*'s entering into a separate agreement with Western Geo-Engineers.

The disposed material will be priced when *FORWARD* has reveiwed all the analytical results of the waste. At that time Western Geo-Engineers or party responsible for payment will receive a Payment Terms and Conditions agreement.

If this letter agreement is acceptable, please have an authorized person sign and return the letter and attachment to us. After we receive the letter, and after we notify you that we have approved the Waste Profile Form, Generator may begin delivering Waste to *FORWARD* Landfill for temporary stockpiling, in accordance with the Terms and Conditions and the provisions set forth herein.

If you have any questions or comments, please feel free to contact me at (800) 204-4242 We appreciate this opportunity to work with you.

Sincerely,

FORWARD, INC.

Seth P. Catalli /frw

Seth P. Catalli
Account Manager

/frw

READ, ACCEPTED AND AGREED TO:

Western Geo-Engineers

By: George L Converse

Print Name: George L Converse

Title: Project Geologist

Date Signed: 8-7-95

ok to bring in more soil under stockpile agreement composite 4 into 1 / 200 yds
Gas BTEX TTLC Pb
Dionic Pb

if TTLC > 50
will also need Title 22 wet Pb

Superior ((510) 313 0850).

WESTERN GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

FROM: D. Threlkeld DATE: 8/4/95

TO: Seth Catalli FAX #: (209) 466-1067

TOTAL PAGES
INCLUDING THIS PAGE
6

Superior Precision Analytical Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DESERT PETROLEUM OAKLAND
Reported on August 2, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

Laboratory Number 82122

Chronology

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
WO A&B	07/10/95	07/26/95	08/01/95	08/02/95	BH011.10	01

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH011.10-01	Method Blank	MB	Soil	08/01/95	08/01/95
BH011.10-02	Laboratory Spike	LS	Soil	08/01/95	08/01/95
BH011.10-03	Laboratory Spike Duplicate	LSD	Soil	08/01/95	08/01/95
BH011.10-04	18EX2-01/18EX2-02	MS 82127-01	Soil	08/01/95	08/02/95
BH011.10-05	18EX2-01/18EX2-02	MSD 82127-01	Soil	08/01/95	08/02/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DESERT PETROLEUM OAKLAND
Reported on August 2, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82122-01	WO A&B	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82122-01 Conc. mg/kg	RL
Cadmium (SW-846 6010)	1.6	0.1
Chromium (SW-846 6010)	46	0.2
Lead (SW-846 6010)	130	2
Nickel (SW-846 6010)	54	1
Zinc (SW-846 6010)	150	0.5

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82122
Method Blank(s)

	BH011.10-01 Conc. mg/kg	RL
Cadmium (SW-846 6010)	ND	0.1
Chromium (SW-846 6010)	ND	0.2
Lead (SW-846 6010)	ND	2
Nickel (SW-846 6010)	ND	1
Zinc (SW-846 6010)	ND	0.5

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82122

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH011.10 02 / 03 - Laboratory Control Spikes						
Cadmium (SW-846 6010)		50	57.08/56.48	114/113	75-125	1
Chromium (SW-846 6010)		50	48.49/49.42	97/99	75-125	2
Lead (SW-846 6010)		50	49.77/50.63	100/101	75-125	2
Nickel (SW-846 6010)		50	51.03/51.81	102/104	75-125	2
Zinc (SW-846 6010)		50	47.53/47.98	95/96	75-125	1
For Soil Matrix (mg/kg) BH011.10 04 / 05 - Sample Spiked: 82127 - 01						
Cadmium (SW-846 6010)	.3011	50	53.01/52.58	105/105	75-125	0
Chromium (SW-846 6010)	12.57	50	57.52/26.9r	90/29	75-125	103
Lead (SW-846 6010)	3.103	50	49.20/36.1r	92/66	75-125	33
Nickel (SW-846 6010)	2.378	50	50.90/49.00	97/93	75-125	4
Zinc (SW-846 6010)	16.48	50	63.25/65.72	94/99	75-125	5

* - Hydrocarbons were found in the range of gasoline, but do not resemble a gasoline fingerprint.
r - MS and/or MSD recoveries were out of control limits. LCS & LCSD recoveries were within acceptable limits.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

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Superior Precision Analytical Inc.
A member of ESSCON Environmental Support Service Consortium

WESTERN GEO ENGINEERS
1386 E.BEAMER
WOODLAND, CA 95776

Date: August 1, 1995

Attn: GEORGE CONVERSE

Laboratory Number : 82122

Project Number/Name : DESERT PETROLEUM OAKLAND

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
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(206) 763-2992 / fax (206) 763-8429

WEGE E[illegible]ERN
GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

FROM: Vern Bennett

DATE: 8/21/95

TO: Lynnette

FAX #: (209) 466-1067

RE: Desert Petroleum soil

'Amended profile' - excluding 'waste oil'

TOTAL PAGES INCLUDING THIS PAGE: 3

This excludes motor oil analysis from profile & includes STLC Pb analysis

Thank you,

Vern

8/21

Geo — Lynette w/ forwarded wanted an 'amended profile' for her file since waste oil stuff was sent elsewhere
— whited out M.O.
A.O.K.

FORWARD INCORPORATED

PROFILE # 6131

APPROVAL # ———

WASTE PROFILE FORM

PLEASE DETACH AND RETURN TO: FORWARD INC., P.O. BOX 6336, STOCKTON, CA 95206 FAX (209) 466-1067 PHONE (209) 466-4482

A. GENERAL INFORMATION

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Mailing Address: P.O. BOX 1601
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Contact: John Rutherford Title: Env. Manager
Telephone No.: (805) 644-6784 Fax No.: (805) 654-0720

Billing Name: MANLEY & SONS ~~DESERT PETROLEUM~~
Billing Address: P.O. Box 1601
City: Oxnard, State: CA Zip: 93032
Contact: John Rutherford Title: ENv. Manager
Telephone No.: (805) 644-6784 Fax No.: (805) 654-0720

Consultant Name: WESTERN GEO-ENGINEERS
Mailing Address: 1386 E. Beamer Street
City: Woodland, State: CA Zip: 95776-6003
Contact: GEORGE CONVERSE Title: PROJECT MANAGER
Telephone No.: (916) 668-5300 Fax No.: (916) 662-0273

Transporter: MANLEY AND SONS
Mailing Address: 9340 Gerber Road
City: Sacramento, State: CA Zip: 95829
Contact: TIM MANLEY Title:
Telephone No.: (916) 381-6864 Fax No.: (916) 381-1573

B. WASTE STREAM IDENTIFICATION

Site Address: 4035 Park BLvd., Oakalnd, CA 94602
Description of waste: EXCAVATED SOIL FROM UST REMOVAL
Process generating waste: EXCAVATED SOIL GENERATED FROM UST REMOVAL

C. WASTE STREAM DESCRIPTION

1. Waste Type: ☒ Soil ☐ Sludge ☐ Ash ☐ Treated Wood ☐ Debris ☐ Asbestos ☐ Other
2. Anticipated Volume: ☐ Tons ☒ Cubic Yards 700 ☐ Drums ☐ Other
3. Method of Shipment: ☒ Bulk solid ☐ Containerized (Type):
4. Shipping Frequency: ☐ Monthly ☐ Yearly ☒ One Time ☐ Other
5. Asbestos Containment Method: ☐ Bags ☐ Cartons ☐ Drums ☐ Wrapped ☐ Other 6. DOT Proper Shipping Name:
7. Physical State: ☒ Solid ☐ Slurry ☐ Paste ☐ Powder ☐ Other 8. Percent Moisture: 4%
9. Odor: ☐ Strong ☐ Mild ☐ None 10. Color of Material: brown 11. pH: 6.5 - 7.5
12. Soil Type: % 40 Sand 40 Silt 20 Clay 13. Free Standing Liquids: ☐ Yes ☒ No

D. ANALYTICAL SUMMARY (ATTACH ALL CERTIFIED LAB RESULTS AND CHAIN OF CUSTODY DOCUMENTATION)

TOTAL PETROLEUM HYDROCARBONS (Specify Method - e.g. 8015)	AVG	HIGH	Units (PPM /ppb)	BTEX (EPA 8020)	AVG	HIGH	Units (PPM /ppb)
Gasoline	97	200	ppm	Benzene	0.03	<0.05	ppm
Diesel	<1	<1	ppm	Toluene	0.13	0.46	ppm
Motor Oil or TOG				Ethylbenzene	0.23	0.47	ppm
Other:				Xylenes	2.09	4.9	ppm
VOLATILE ORGANICS (Specify Method - e.g. 8260) List Detected Analytes:				SEMI-VOLATILE ORGANICS (EPA 8270) List Detected Analytes:			
8010	ND	ND	ppb		ND	ND	ppm
Other Analytical Methods:				Other Analytical Methods:			

Element	TTLC			STLC			TCLP		
	Average	High	Units	Average	High	Units	Average	High	Units
Antimony (Sb)									
Arsenic (As)									
Barium (Ba)									
Beryllium (Be)									
Cadmium (Cd)	<0.025	<0.025	ppm						
Chromium (Cr)	0.083	0.083	ppm						
Hexavalent Cr (Cr+6)									
Cobalt (Co)									
Copper (Cu)									
Lead (Pb)	21.4	34.0	ppm	<0.25	<0.25	mg/L VB 8/7/95			
Mercury (Hg)									
Molybdenum (Mo)									
Nickel (Ni)	0.81	0.81	ppm						
Selenium (Se)									
Silver (Ag)									
Thallium (Tl)									
Vanadium (V)									
Zinc (Zn)	<10	<10	ppm						

E. Terms And Conditions

The below named generator (Generator) agrees to the following terms and conditions (Terms and Conditions) for treatment and/or disposal of waste at the Forward, Inc. (Forward) Landfill.

1. Generator warrants that the above, attached, and any other submitted waste profile information is complete and accurate and that none of the waste is hazardous as defined or listed in 40 CFR Part 261 or Title 23 of the California Code of Regulations, with the exception of asbestos properly described above. If any portion of this waste, other than asbestos properly described above, is determined to be hazardous (Hazardous Waste) according to any of the above mentioned regulations, each party shall promptly notify the other in writing upon learning of such determination. Within 10 days after receiving such written notification, Generator at its sole cost shall remove from the Forward Landfill, transport, and dispose off-site such Hazardous Waste in accordance with applicable laws and regulations. If Generator fails to remove such Hazardous Waste, Forward may do so at its option, at Generator's sole cost. Within 30 days after such removal operation is complete, Forward shall refund treatment/disposal fees previously paid concerning the Hazardous Waste, less 50 percent of disposal fee handling charge plus right of offset for losses and costs incurred respecting such Hazardous Waste (such offset right shall not limit Forward's other rights of recovery).
2. Generator agrees that, in the event Generator, its consultant or its contractor learns that constituents, characteristics, or concentrations regarding the waste vary from those set forth in this waste profile or on any attached or submitted documents, Generator will immediately submit a corrected Waste Profile Form.
3. Generator warrants that any asbestos delivered to the Forward Landfill has been properly described above and will be prepared for transportation to and disposal at the Forward Landfill in compliance with applicable regulatory requirements.
4. Generator shall indemnify, defend, and hold harmless Forward, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents, and representatives against any and all claims, orders, liabilities, judgments, actions, liens, regulatory directives, fees, costs (including attorneys', experts' and consultants' fees and costs), penalties, fines, taxes, and liens (collectively, Liabilities), to the extent arising from: a breach of any warranty or obligation of Generator hereunder; non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste, caused by Generator, its consultants or contractors, or their respective employees, agents, representatives or subcontractors; or any or all of Generator's waste which is Hazardous Waste.
5. Forward shall indemnify, defend and hold harmless Generator, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents and representatives against any and all Liabilities, to the extent arising from non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste (not including Hazardous Waste), caused by Forward, its consultants, or contractors, or their respective employees, agents, representatives or subcontractors.
6. The Landfill must be notified no less than 24 hours in advance for waste deliveries. The Landfill's operating hours are from 7:00 a.m. to 4:00 p.m. Monday through Friday. Arrangements can be made to extend the Landfill's hours. No waste will be accepted when weather or Landfill conditions/activities impair deliveries,handling or disposal. Generator acknowledges that Forward's acceptance of waste is subject to regulatory requirements, and that Forward shall have no liability for inability to accept waste due to regulatory requirements or restrictions, regardless of cause.
7. No waste will be accepted by Forward until Forward has received a completed Waste Profile Form, has issued an approval number, and has received a signed Payment Terms Contract. Forward, can accept additional waste from Generator which is related to the waste stream or waste removal job described in Sections A-D above but which was not previously approved for acceptance (Additional Waste). These Terms and Conditions shall apply to Additional Waste, except Additional Waste for which Forward requires submission of a separate signed Waste Profile Form.
8. California Law shall govern these Terms and Conditions. If any action or proceeding arises regarding a claim concerning these Terms and Conditions or is brought to enforce or interpret these Terms and Conditions the prevailing party shall be entitled to recover its attorneys' and experts' fees and costs, whether or not prosecuted to judgment.

THE GENERATOR ACKNOWLEDGES THAT IT HAS READ AND UNDERSTOOD THE PRECEDING TERMS AND CONDITIONS AND AGREES TO THE SAME, AND THE PERSON SIGNING BELOW WARRANTS THAT HE/SHE IS AUTHORIZED TO SIGN FOR THE GENERATOR.

Generator Name: DESERT PETROLEUM Inc.

By (Print Name): JOHN RUTHERFORD Title: DIR. ENVIR. OFFICES

Signature: [signature] Date: 7-24-95

WESTERN GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

Aug. 24, 1995

FROM: George Conversa DATE: ~~June 14, 1995~~

TO: Lynette Forward FAX #: (209) 41616-1067

TOTAL PAGES INCLUDING THIS PAGE

~~2~~ 15

Stockpile # SPC 4431-1

	(A-D) (200 yds³)	(E-H) (200 yds³)
TPHg	110 mg/kg	37 mg/kg
Benzene	ND	ND
Toluene	0.27	0.1
E. Benzene	0.54	0.17
Xylenes	2.3	1.6
TTLC Pb	17 mg/kg	19 mg/kg
Need STLC → D: TCLP Pb	0.63 mg/L	0.94 mg/L

89[illegible]59 Chain of Custody and Analysis Request

Page [illegible] 1

Company: Western Geo-Engineers Address: 1386 E. Beamer St City, State, Zip: Woodland, CA 95776-6003 Phone: 916 668 5900 Fax: Project Manager: George Converse Alternate Contact: Project No.: DP 793 P.O. No.	TURN AROUND TIME (circle one) Same Day 72 Hrs. 24 Hrs. 48 Hrs. (circled) Normal 5 Day	Superior Precision Analytical Inc. P.O. Box 1545 Martinez, California 94553 Martinez I: (510) 229-1512 Martinez II: (510) 229-0166 San Francisco: (415) 647-2081

Section II: Analysis Request

Sampler: G. Converse
Regulatory Agency: Alameda Co

#	Sample Identification	Matrix (S=Soil A=Air W=Water)	TPHg	BTEX	TTLC Pb	Di Pb								Date Sampled	Time Sampled	# of Containers	Preservatives (yes or no)	Sampling Remarks: Bioremediation / UST (circled) / Monitoring / Recent Contamination / Unknown Compounds / COMMENTS:
1	SPC 4431-1(A-D)	S	✓	✓	✓	✓		Composite 4 into 1						8/14	1330	4	No	
2	SPC 4431-1(E-H)	S	✓	✓	✓	✓		Composite 4 into 1						}	}	4	No	
3																		
4	PI-1	S	✓	✓										8/14	1330	1	No	
5	PI-2	S	✓	✓										}	1340	1	No	
6	PI-3	S	✓	✓											1345	1	No	
7	PI-4	S	✓	✓											1400	1	No	
8																		
9																		
10																		
11																		
12																		

Relinquished By: George Converse Organization: WGE	Date/Time	Received By: [illegible] Organization: [illegible]	Date/Time 8/15/95 9:00	Lab: Please initial the following:
Relinquished By: [illegible] Organization: [illegible]	Date/Time 8/15/95 9:55	Received By: Organization:	Date/Time	Samples Stored in Ice: ____ Appropriate Containers: ____ Samples Preserved: ____ VOAs without headspace: ____
Relinquished By: Organization:	Date/Time	Received By: [illegible] Laboratory: SPA	Date/Time 8/15/95 [illegible]	Comments: ____

[illegible]TERN GEO ENGINEERS
[illegible]: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	02
PI-1	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	03
PI-2	08/14/95	08/14/95	08/18/95	08/18/95	BH171.05	04
PI-3	08/14/95	08/14/95	08/17/95	08/17/95	BH171.05	05
PI-4	08/14/95	08/14/95	08/17/95	08/17/95	BH171.05	06

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH171.05-01	Method Blank	MB	Soil	08/17/95	08/17/95
[illegible]171.05-18	Method Blank	MB	Soil	08/18/95	08/18/95
[illegible]171.05-19	Laboratory Spike	LS	Soil	08/17/95	08/17/95
BH171.05-20	Laboratory Spike Duplicate	LSD	Soil	08/18/95	08/18/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit I
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	5.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-
82259-03	PI-1	Soil	1.0	-
82259-04	PI-2	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/kg	RL	82259-02 Conc. mg/kg	RL	82259-03 Conc. mg/kg	RL	82259-04 Conc. mg/kg	RL
Gasoline_Range	110	5	37	1	ND	1	ND	1
Benzene	ND	0.025	ND	0.005	ND	0.005	0.011	0.005
Toluene	0.27	0.025	0.10	0.005	ND	0.005	ND	0.005
Ethyl Benzene	0.54	0.025	0.17	0.005	ND	0.005	0.005	0.005
Xylenes	2.3	0.025	1.6	0.005	ND	0.005	0.030	0.005
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	112		138		107		106	

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Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2092 / fax (206) 763-9429

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range Quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-05	PI-3	Soil	1.0	-
82259-06	PI-4	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82259-05 Conc. mg/kg	RL	82259-06 Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	126		119	

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San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH171.05-01		BH171.05-18	
	Conc. mg/kg	RL	Conc. mg/kg	RL
Gasoline_Range	ND	1	ND	1
Benzene	ND	0.005	ND	0.005
Toluene	ND	0.005	ND	0.005
Ethyl Benzene	ND	0.005	ND	0.005
Xylenes	ND	0.005	ND	0.005
>> Surrogate Recoveries (%) <<				
Trifluorotoluene (SS)	97		98	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH171.05 19 / 20 - Laboratory Control Spikes						
Gasoline_Range		3.20	4.1/3.8	128/119	65-135	7
Benzene		0.200	0.21/0.20	105/100	65-135	5
Toluene		0.200	0.22/0.20	110/100	65-135	10
Ethyl Benzene		0.200	0.21/0.21	105/105	65-135	0
Xylenes		0.600	0.62/0.61	103/102	65-135	1
>> Surrogate Recoveries (%) <<						
rifluorotoluene (SS)				96/96	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526
1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 921-7123
309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2092 / fax (206) 763-8429

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/21/95	08/22/95	BH212.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/21/95	08/22/95	BH212.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH212.10-01	Method Blank	MB	Soil	08/21/95	08/22/95
BH212.10-02	Laboratory Spike	LS	Soil	08/21/95	08/22/95
BH212.10-03	Laboratory Spike Duplicate	LSD	Soil	08/21/95	08/22/95
BH212.10-04	CD-SPIKED	MS 82263-01	Soil	08/21/95	08/22/95
BH212.10-05	CD-SPIKED	MSD 82263-01	Soil	08/21/95	08/22/95

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1555 Burke St., Unit I
San Francisco, California 94124

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Seattle, Washington 98108

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on August 22, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	82259-01 Conc. mg/kg	RL	82259-02 Conc. mg/kg	RL
Lead (SW-846 6010)	17	2	19	2

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Martinez, California 94553

1555 Burke St., Unit I
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH181.10-01	
	Conc.	RL
	mg/L	
Lead (SW-846 6010)	ND	0.25

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

1555 Burke St., Unit I
San Francisco, California 94124

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2993 / Fax (206) 763-8429

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/L) BH181.10 03 / 04 - Laboratory Control Spikes						
Lead (SW-846 6010)		5	5.216/5.419	104/108	75-125	4
For Soil Matrix (mg/L) BH181.10 05 / 06 - Sample Spiked: 82259 - 01						
Lead (SW-846 6010)	.6328	5	5.658/5.748	101/102	75-125	1

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories
825 Arnold Dr., Suite 114
Martinez, California 94553
1555 Burke St., Unit I
San Francisco, California 94124
309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

TERN GEO ENGINEERS
tn: GEORGE CONVERSE

Project DP 793
Reported on August 21, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/18/95	08/21/95	BH181.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/18/95	08/21/95	BH181.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH181.10-01	Method Blank	MB	Soil	08/18/95	08/21/95
BH181.10-03	Laboratory Spike	LS	Soil	08/18/95	08/21/95
BH181.10-04	Laboratory Spike Duplicate	LSD	Soil	08/18/95	08/21/95
BH181.10-05	SPC 4431-1 A,B,C,D	MS 82259-01	Soil	08/18/95	08/21/95
BH181.10-06	SPC 4431-1 A,B,C,D	MSD 82259-01	Soil	08/18/95	08/21/95

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San Francisco, California 94124

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STERN GEO ENGINEERS
n: GEORGE CONVERSE

Project DP 793
Reported on August 21, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by EPA 1311 TCLP Method.

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/L	RL	82259-02 Conc. mg/L	RL
Lead (SW-846 6010)	0.63	0.25	0.94	0.25

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1555 Burke St., Unit I
San Francisco, California 94124

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Seattle, Washington 98108

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH212.10-01 Conc.	RL
	mg/kg	
Lead (SW-846 6010)	ND	2

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Seattle, Washington 98108

EPA SW-846 Method 6010 and/or 7000 Series Metals

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (mg/kg) BH212.10 02 / 03 - Laboratory Control Spikes						
Lead (SW-846 6010)		50	51.71/47.62	103/95	75-125	8
For Soil Matrix (mg/kg) BH212.10 04 / 05 - Sample Spiked: 82263 - 01						
Lead (SW-846 6010)	14.24	50	13.3r/14.7r	-2/1	75-125	-600

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1517 / fax (510) 229-1626

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2092 / fax (206) 763-8429

WESTERN GEO-ENGINEERS
CALIF CONTRACTOR # 513857 A CORPORATION
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
FAX (916) 662-0273
(916) 668-5300

FROM: George Converse DATE: August 28, 1995

TO: Seth FAX #: (209) 465-0631
Forward 455-1067

TOTAL PAGES INCLUDING THIS PAGE
8
7

STLC Pb & Metals Form
Desert Pet. 793
Oakland, CA
Stockpile * SPC 4431-1

FORWARD INCORPORATED

PROFILE # 7382

APPROVAL #

WASTE PROFILE FORM

PLEASE DETACH AND RETURN TO: FORWARD INC., P.O. BOX 6336, STOCKTON, CA 95206 FAX (209) 466-1067 PHONE (209) 466-4482

A. GENERAL INFORMATION

Generator Name: DESERT PETROLEUM INC.
Mailing Address: P.O. Box 1601
City: Oxnard, State: CA Zip: 93032
Contact: John Rutherford Title: ENV. MANAGER
Telephone No.: (805) 644-6784 Fax No.: (805) 654-0720

Billing Name: MANLEY & SONS
Billing Address: 9340 Gerber Road
City: Sacramento State: CA Zip: 95829
Contact: Tim Manley Title:
Telephone No.: (916) 381-6864 Fax No.: (916) 381-1573

Consultant Name: WESTERN GEO-ENGINEERS
Mailing Address: 1386 E. Beamer Street
City: Woodland State: CA Zip 95776-6003
Contact: George Converse Title: Prj Manager
Telephone No.: (916) 668-5300 Fax No.: (916) 662-0273

Transporter: MANLEY & SONS
Mailing Address: 9340 Gerber Road
City: Sacramento State: CA Zip 95829
Contact: Tim Manely Title:
Telephone No.: (916) 381-6864 Fax No.: (916) 381-1573

B. WASTE STREAM IDENTIFICATION

Site Address: 4035 Park Blvd., Oakland, CA 94602
Description of waste: EXCAVATED SOIL FROM PUMP ISLAND AREA
Process generating waste: EXCAVATED SOIL GENERATED FROM OVER-EXCAVATION OF PUMP ISLAND

C. WASTE STREAM DESCRIPTION

Waste Type: ☒ Soil ☐ Sludge ☐ Ash ☐ Treated Wood ☐ Debris ☐ Asbestos ☐ Other
Anticipated Volume: ☐ Tons ☒ Cubic Yards 400 ☐ Drums ☐ Other
3. Method of Shipment: ☒ Bulk solid ☐ Containerized (Type):
4. Shipping Frequency: ☐ Monthly ☐ Yearly ☒ One Time ☐ Other
5. Asbestos Containment Method: ☐ Bags ☐ Cartons ☐ Drums ☐ Wrapped ☐ Other 6. DOT Proper Shipping Name:
7. Physical State: ☒ Solid ☐ Slurry ☐ Paste ☐ Powder ☐ Other 8. Percent Moisture: 4%
9. Odor: ☐ Strong ☐ Mild ☐ None 10. Color of Material: brown 11. pH: 6.5 - 7.5
12. Soil Type: % 20 Sand 40 Silt 40 Clay 13. Free Standing Liquids: ☐ Yes ☒ No

D. ANALYTICAL SUMMARY (ATTACH ALL CERTIFIED LAB RESULTS AND CHAIN OF CUSTODY DOCUMENTATION)

TOTAL PETROLEUM HYDROCARBONS (Specify Method - e.g. 8015)	AVG	HIGH	Units (PPM /ppb)	BTEX (EPA 8020)	AVG	HIGH	Units (PPM /ppb)
Gasoline	73.5	110	ppm	Benzene	0.05	0.05	ppm
Diesel				Toluene	0.18	0.27	ppm
Motor Oil or TOG				Ethylbenzene	0.36	0.54	ppm
Other:				Xylenes	1.95	2.3	ppm
VOLATILE ORGANICS (Specify Method - e.g. 8260) List Detected Analytes:				SEMI-VOLATILE ORGANICS (EPA 8270) List Detected Analytes:			
Other Analytical Methods:				Other Analytical Methods:			

Element	TTLC mg/kg			STLC mg/L			TCLP		
	Average	High	Units	Average	High	Units	Average	High	Units
Antimony (Sb)									
Arsenic (As)									
Barium (Ba)									
Beryllium (Be)									
Cadmium (Cd)									
Chromium (Cr)									
Hexavalent Cr (Cr+6)									
Cobalt (Co)									
Copper (Cu)									
Lead (Pb)	18	19	mg/kg	ND	ND	mg/L			
Mercury (Hg)									
Molybdenum (Mo)									
Nickel (Ni)									
Selenium (Se)									
Silver (Ag)									
Thallium (Tl)									
Vanadium (V)									
Zinc (Zn)									

E. Terms And Conditions

The below named generator (Generator) agrees to the following terms and conditions (Terms and Conditions) for treatment and/or disposal of waste at the Forward, Inc. (Forward) Landfill.

1. Generator warrants that the above, attached, and any other submitted waste profile information is complete and accurate and that none of the waste is hazardous as defined or listed in 40 CFR Part 261 or Title 22 of the California Code of Regulations, with the exception of asbestos properly described above. If any portion of this waste, other than asbestos properly described above, is determined to be hazardous (Hazardous Waste) according to any of the above mentioned regulations, each party shall promptly notify the other in writing upon learning of such determination. Within 10 days after receiving such written notification, Generator at its sole cost shall remove from the Forward Landfill, transport, and dispose off-site such Hazardous Waste in accordance with applicable laws and regulations. If Generator fails to remove such Hazardous Waste, Forward may do so at its option, at Generator's sole cost. Within 30 days after such removal operation is complete, Forward shall refund treatment/disposal fees previously paid concerning the Hazardous Waste, less 50 percent of disposal fee handling charge plus right of offset for losses and costs incurred respect- such Hazardous Waste (such offset right shall not limit Forward's other rights of recovery).

Generator agrees that, in the event Generator, its consultant or its contractor learns that constituents, characteristics, or concentrations regarding the waste vary from those set forth in this waste profile or on any attached or submitted documents, Generator will immediately submit a corrected Waste Profile Form.

3. Generator warrants that any asbestos delivered to the Forward Landfill has been properly described above and will be prepared for transportation to and disposal at the Forward Landfill in compliance with applicable regulatory requirements.

4. Generator shall indemnify, defend, and hold harmless Forward, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents, and representatives against any and all claims, orders, liabilities, judgments, actions, liens, regulatory directives, fees, costs (including attorneys', experts' and consultants' fees and costs), penalties, fines, taxes, and liens (collectively, Liabilities), to the extent arising from: a breach of any warranty or obligation of Generator hereunder; non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste, caused by Generator, its consultants or contractors, or their respective employees, agents, representative or subcontractors; or any or all of Generator's waste which is Hazardous Waste.

5. Forward shall indemnify, defend and hold harmless Generator, its affiliates, and their successors and assigns, and their respective officers, directors, employees, agents and representatives against any and all Liabilities, to the extent arising from non-compliance with applicable laws/regulations, or negligence, or willful misconduct regarding the waste (not including Hazardous Waste), caused by Forward, its consultants, or contractors, or their respective employees, agents, representatives or subcontractors.

6. The Landfill must be notified no less than 24 hours in advance for waste deliveries. The Landfill's operating hours are from 7:00 a.m. to 4:00 p.m. Monday through Friday. Arrangements can be made to extend the Landfill's hours. No waste will be accepted when weather or Landfill conditions/activities impair deliveries,handling or disposal. Generator acknowledges that Forward's acceptance of waste is subject to regulatory requirements, and that Forward shall have no liability for inability to accept waste due to regulatory requirements or restrictions, regardless of cause.

7. No waste will be accepted by Forward until Forward has received a completed Waste Profile Form, has issued an approval number, and has received a signed Payment Terms Contract. Forward, can accept additional waste from Generator which is related to the waste stream or waste removal job described in Sections A-D above but which was not previously approved for acceptance (Additional Waste). These Terms and Conditions shall apply to Additional Waste, except Additional Waste for which Forward requires submission of a separate signed Waste Profile Form.

8. California Law shall govern these Terms and Conditions. If any action or proceeding arises regarding a claim concerning these Terms and Conditions or is brought to enforce or interpret these Terms and Conditions the prevailing party shall be entitled to recover its attorneys' and experts' fees and costs, whether or not prosecuted to judgment.

THE GENERATOR ACKNOWLEDGES THAT IT HAS READ AND UNDERSTOOD THE PRECEDING TERMS AND CONDITIONS AND AGREES TO THE SAME, AND THE PERSON SIGNING BELOW WARRANTS THAT HE/SHE IS AUTHORIZED TO SIGN FOR THE GENERATOR.

Generator Name: Desert Petroleum

By (Print Name): George A. Converse **Title:** Project Geologist

Signature: George A. Converse **Date:** 8/28/95

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on *bad date* 0, 0
Revised on August 28, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Chronology

Laboratory Number 82259

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
SPC 4431-1 A,B,C,D	08/14/95	08/14/95	08/28/95	08/28/95	BH281.10	01
SPC 4431-1 E,F,G,H	08/14/95	08/14/95	08/28/95	08/28/95	BH281.10	02

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BH281.10-01	Method Blank	MB	Water	08/28/95	08/28/95
BH281.10-02	Laboratory Spike	LS	Water	08/28/95	08/28/95
BH281.10-03	Laboratory Spike Duplicate	LSD	Water	08/28/95	08/28/95
BH281.10-04	82158-01	MS 20008-01	Soil	08/28/95	08/28/95
BH281.10-05	82158-01	MSD 20008-01	Soil	08/28/95	08/28/95

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

WESTERN GEO ENGINEERS
Attn: GEORGE CONVERSE

Project DP 793
Reported on *bad date* 0, 0
Revised on August 28, 1995

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
82259-01	SPC 4431-1 A,B,C,D	Soil	1.0	-
82259-02	SPC 4431-1 E,F,G,H	Soil	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	82259-01 Conc. mg/L	RL	82259-02 Conc. mg/L	RL
Lead (SW-846 6010)	ND	.05	ND	0.05

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EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82259
Method Blank(s)

	BH281.10-01	
	Conc.	RL
	mg/L	
Lead (SW-846 6010)	ND	0.05

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(206) 763-2992 / fax (206) 763-8429

EPA SW-846 Method 6010 and/or 7000 Series Metals
Extracted by STLC Method

Quality Assurance and Control Data

Laboratory Number: 82259

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
		For Water Matrix (mg/L)				
	BH281.10	02 / 03 - Laboratory Control Spikes				
Lead (SW-846 6010)		1	.9624/.9493	96/95	75-125	1
		For Soil Matrix (mg/L)				
	BH281.10	04 / 05 - Sample Spiked: 20008 - 01				
Lead (SW-846 6010)	0	5	4.871/4.788	97/96	75-125	1

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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8/8/95 8:40 SW A 11' 10.5g sl bio odor Tr Pet 5.6uS = 10 mg/kg
grey clay [2 ppm]

9:10 SW B 10' Black clay no odor - no Init fluor
SW B Bot Brown clay no odor 12.0g < 1 mg/kg

9:00 Cal = 150 mg/gm/kg / 8.0293 uS = 18.68

9:48 SW C 11' Grey clay sl pet odor uncut Bright yellow fluor
Hexane cut dull milky yellow

10:10 SW D 10' grey clay sl bio odor Tr Pet odor?
No fluor. 12.7 g 4.0395uS = 5.94 mg/kg
[1.2]

10:45 SW E 9.5' 17 grams chocolate brown moist clay
Tr bio odor
18.88 uS 27 mg/kg
[4.2]

11 AM cal 150 mg/gm/kg / 12.0670uS = 24.5

Sidewall Base W SW A-13 7.43 uS
25 g sandy clay vfn-fn = dry sandstone in grey clay (3.6 ppm) no odor 7.4 mg/kg
Sidewall 6' W SW B-6 brown silty clay no odor

Sidewall Base N SW C-13 brown clay - layers of grey green stiff clay
15g no odor 1.213 uS (0.98 ppm) 2 mg/kg
Sidewall 6' N SW D-6 14.2g brown silty clay no odor
0.47 uS (0.4 ppm) 0.8 mg/kg
Cal 13:40 10.159 150/10.159 = 24.92 x uS/grms sample

Cal 14:20 12.3686 uS 150/12.3686 = (12.127)
new cal 14:50 39.35 uS = [3.812 Factor]

Sidewall Base SW E 11.5' S Run between Mud & Pump Island brown grey clay
Tr odor?
9.54uS / 14.3g = 2.5 mg/kg

8/10/95 T1 Bottom brown clay 16 grams 83.06uS 111.4 mg/kg
P1 Pile

T2 Sidewall grey seam ± 6' depth 13g Black clay tr bio odor pet odor
1127.5 uS 1861 mg/kg
Cal = 6.9888 uS = 21.46 x uS / gm
T3 12.0 g Bottom PI Brown clay w/ Tr gravel sand 36 uS 64.5 mg/kg
T4 16.5 SW Building ± 8' - Black clay tr dry odor ~~48.4 mg/kg~~
~~36.05 uS~~
13300 uS ± ~~20,000 mg/kg~~
17,000 mg/kg

8/10/95 T5 Bottom 14' Brown grey clay
16.3g

Sample F 13:14' Brown 16g

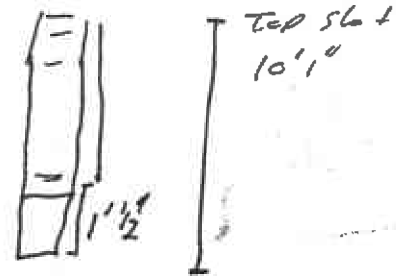
T6 SW Build 17' grey wet clay

Sample G 14:25 17' 14g Brown Clay Bottom 42.3 = 72 mg/kg (28)

Sample H Bottom SW Build 16' 1455 6g grey 398 mg/kg

I 8' SW Build 8' 1450 10g Brown 5.595 us ~~12,007~~ 4,772 mg/kg

Cal 17.5839 us = 8.53 x us / g



8/11/95 Cal ~~TB~~ 300 mg/kg/kg/ 4.54 us = 66.079 x us / gm
(K mg/l gas ink 1 l)

T7 Bottom SW PI Ex 16' brown clay no odor 66.7 us 6.9g ( ) 638. mg/kg

Cal 150 mg/kg/gm/3.5 us = (42.647 x us / gm)

T7 rerun 91.7 us 319.5 mg/kg

T8 Black clay 13g Tr dy pet odor 5.87 us 20 mg/kg

T9 Black clay ± 16' 14g Tr dy pet odor 4.77 us 14.8 mg/kg

8/14/95

T9 Black clay ± 18.91 us 16.1g 28 mg/kg

T10 grey green w/ Black clay Tr dy pet odor ±6' 9.1g K8 us = 34 mg/kg

Cal 9.2148 us 150 mg/kg/g / 9.2148 = 16.278 x us sample / gm sample = mg/kg

T11 Brown clay ±8' no odor 9.5g 9.8 us 16.4 mg/kg

T12 Brown clay ±8' no odor 11.2g W ~~SW~~ ± 8ft 20.4 us = 29.7 mg/kg

8-14-95

T13 Bottom 11' 14g gry green clay no odor 466 us 542 mg/kg

T14 Bottom 13'

T15 Bottom 15' 8.5 g Brown clay no odor 6.22 us 12 mg/kg

T16 S Sec ±8' Brown clay no odor 10.4g 6.74 us 10.5 mg/kg

T17 S Sec ±8' Brn Clay 10g 15.74 us 24.97 mg/kg

T18 E Sec ±8' Brn clay 17.3g 3.8 us 3.6 mg/kg

13:30 – 14:00 Sample PI1 .. PI4

17:30 Sample SPC 4431-1 at Forward & sample 4 into 1

8-15-95 Cal. $\frac{150 \text{ mg/kg/gm}}{3.4009 \text{ us}} = \frac{44.105 \times \text{us}}{\text{gram sample}}$

8-16-95 Side wall South Lift Pit – 7.06 gms ND

Bottom SLP ND

Bottom NLP

Cal $\frac{300 \text{ mg/kg/gm}}{69.5} = 4.31$

Cal 25 mg/kg/gm

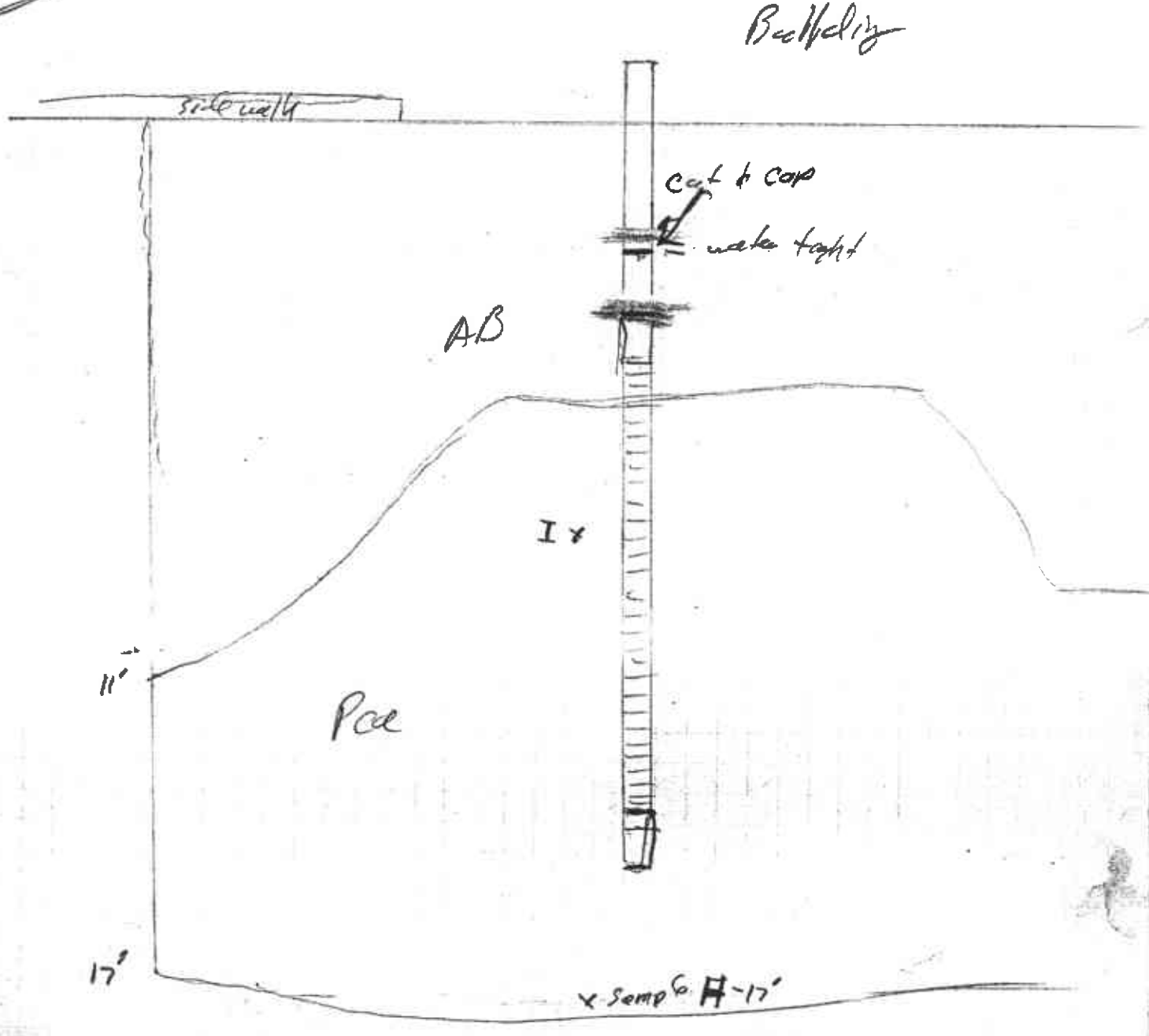
Sample for Lab SLP-7'

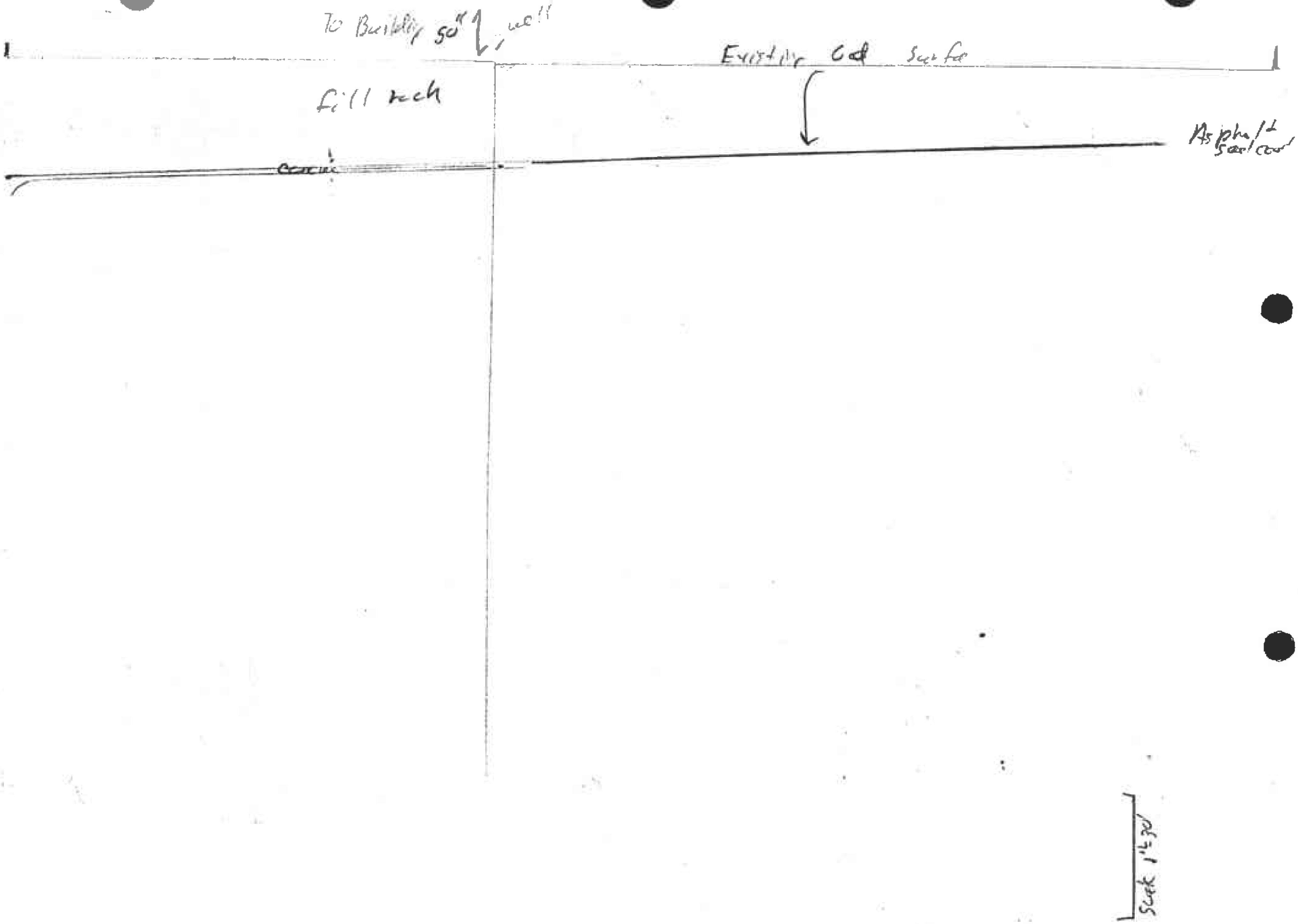
hand auger + 7–14.5 — smell gasoline contamination at 9.5 feet collect SLP-14.5'

sample for Lab NLP-7'

Scale 1"=30'

2pm





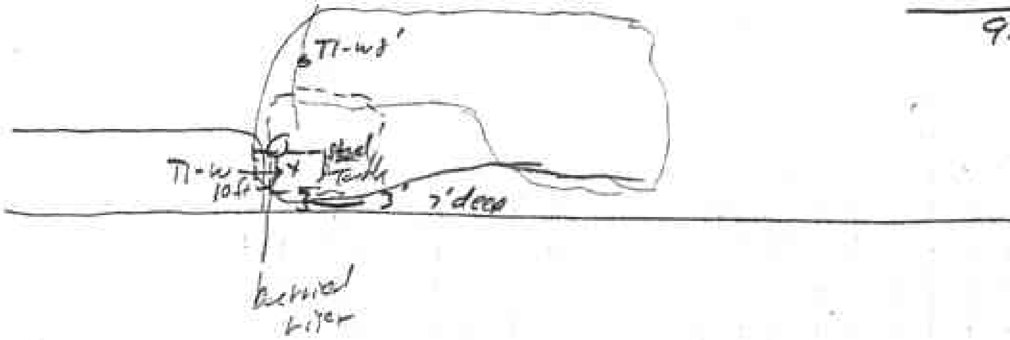
To Building 50"
fill rock
Existing Grd Surface
Asphalt seal coat
Scale 1"=30'

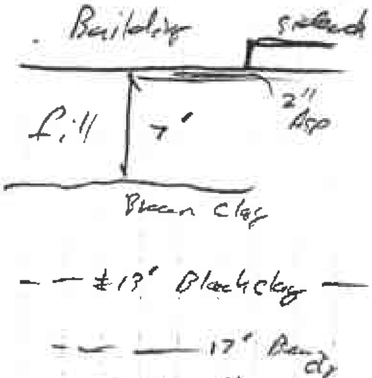
8/31/95
Trench near W.O. area

T1-W 8' west sidewall @ 8' Fluor bright yellow spotty
cuts milky yellow rapid

11.5g Dk brown clay - bio odor 77.67 uS 30.6 mg/kg
Found steel tank buried ± 8' deep

Cal = 33.1026 uS 150/33.102 = 4.53 x uS / gm



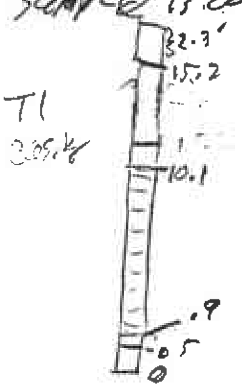


T1-W-10ft Brown clay silty - no odor .6493 uS / 7.7g 0.4 mg/kg
no fluor cut = No

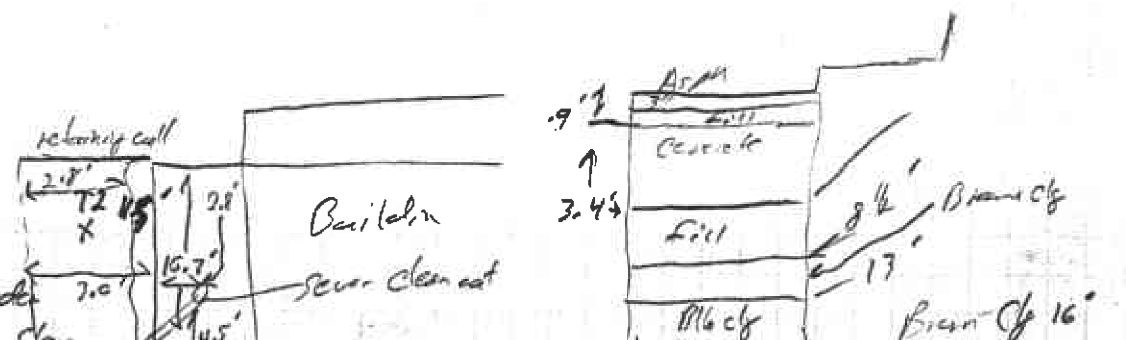
T1-Bottom ± 13' Black clay - odor? no fluor cut = No 171.6 uS / 10.5g = 74 mg/kg

T1-Bottom 17.5' Clay moist but not as wet as 15' 11,538 uS / 14.7 = 3556 mg/kg
(lt brown - motley Tr odor no fluor
(w sharp gravel very Ign/met cut = No

Sample @ 13:00



RS-5 water ± 16' 11:25 8/31/95 2.54 uS / 20 ml 587 ug/L

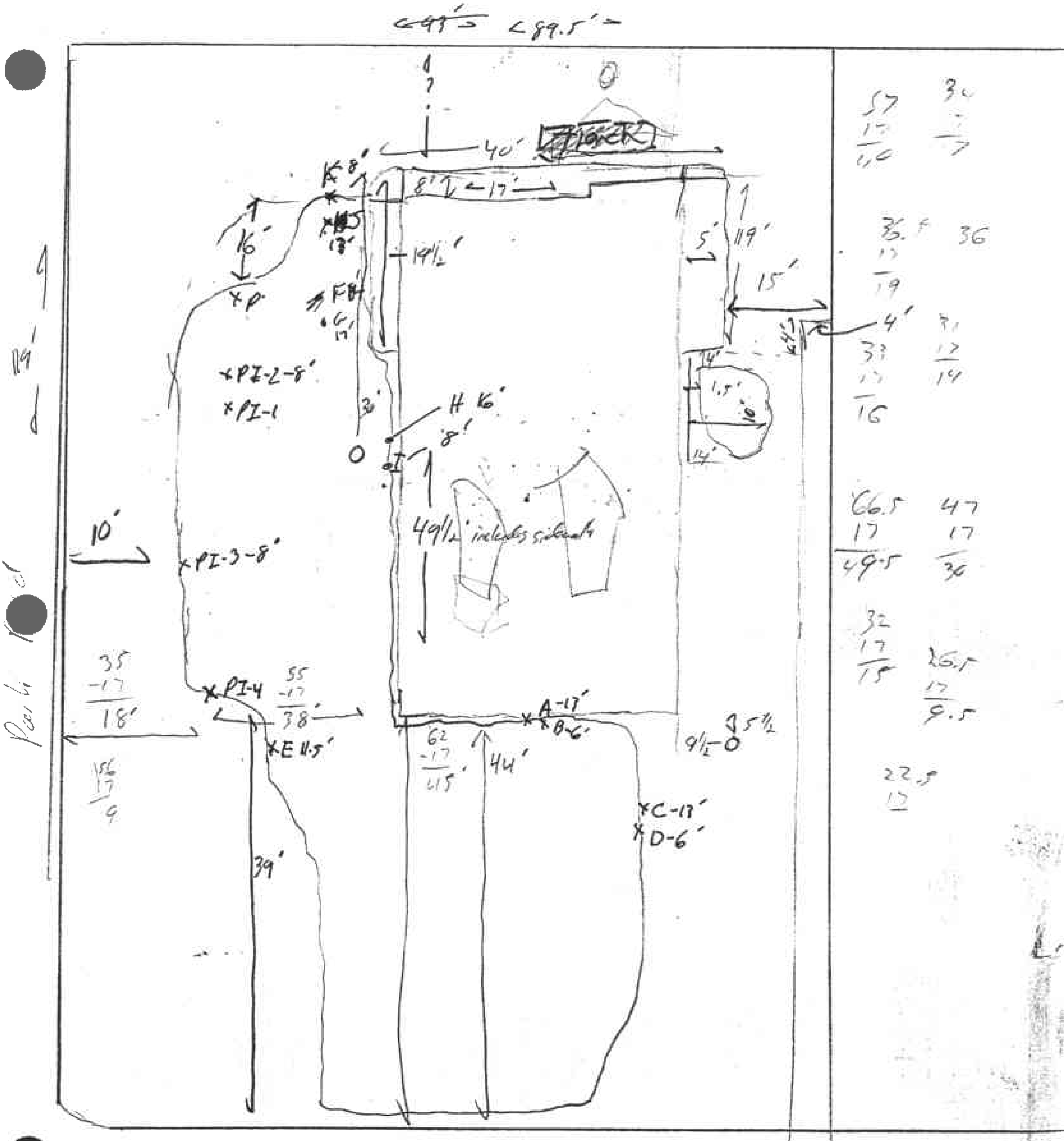


T2 11.5' No odor brown clay 7.7g 2.8 uS/7.7 1.66 mg/kg

T2 15' Black clay 8588 uS 4740 mg/kg
Tr odor 8.2g , Tr Fluor in evident water from heating sample

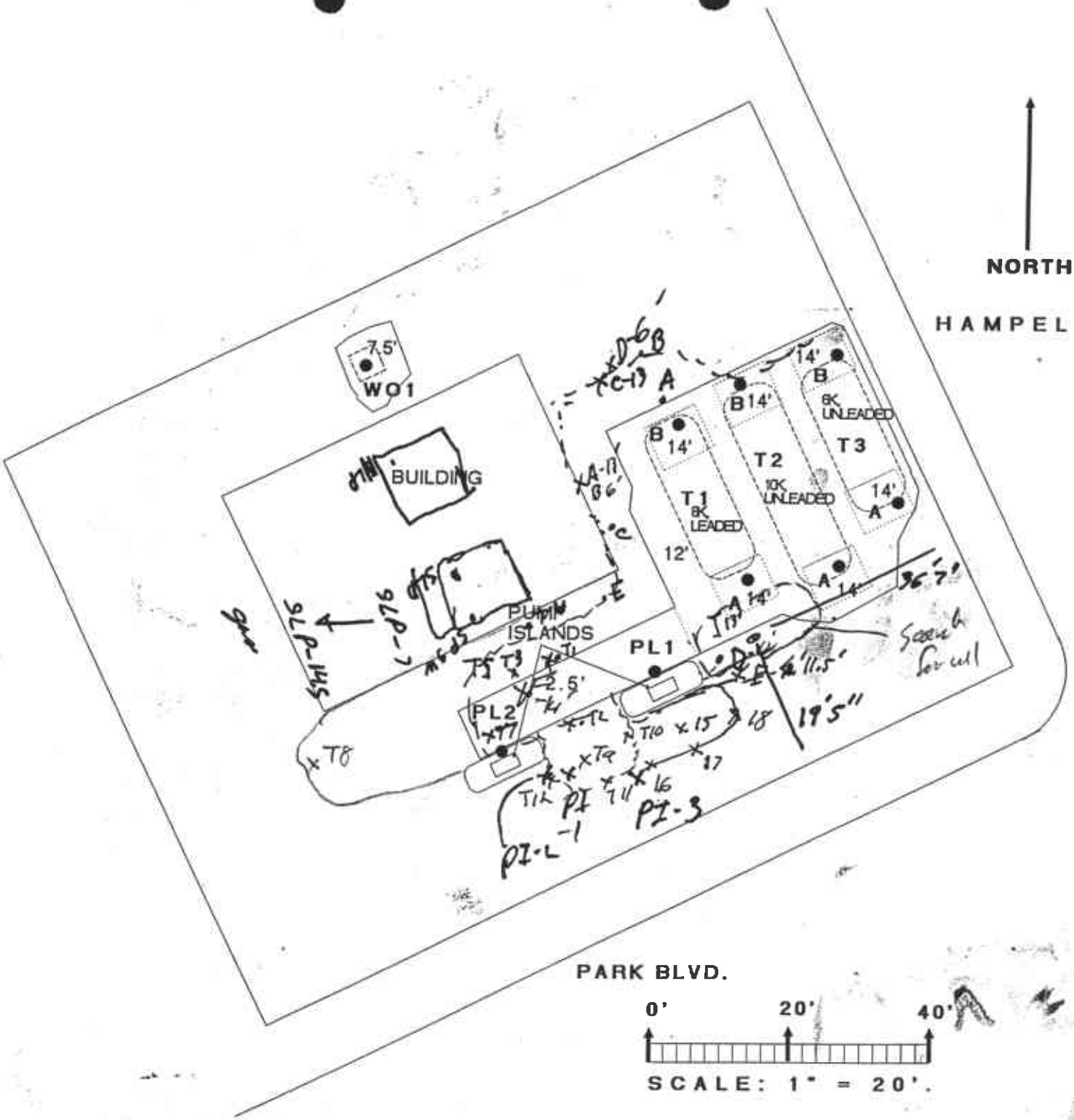
T2-17' 12.8g Brown clay odor 5885 uS = 20,835 mg/kg

T1 17' sample 8g T2 sample 8.4g 17 1/2' 3808.7 uS 20,529 mg/kg



<89.5'>
40'
TOWER
K 8'
8' 17'
16'
13'
14½'
5'
119'
15'
4'
X P
F8
PI-2-8'
PI-1
H 16'
8'
14'
14'
10'
49½' includes sidewalk
PI-3-8'
PI-4
55 -17 38'
35 -17 18'
E 11.5'
A-17'
B-6'
5½
9½
62 -17 45'
44'
C-13'
D-6'
39'
119'
57 17 40
36
66.5 17 49.5
47 17 30
32 17 15
26.5 17 9.5

Hampel



EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
A 14'	SAMPLE POINT AND ID #.

DESERT PETROLEUM STATION #793
4035 PARK BLVD.,
OAKLAND, CALIFORNIA 94602

FIGURE 1

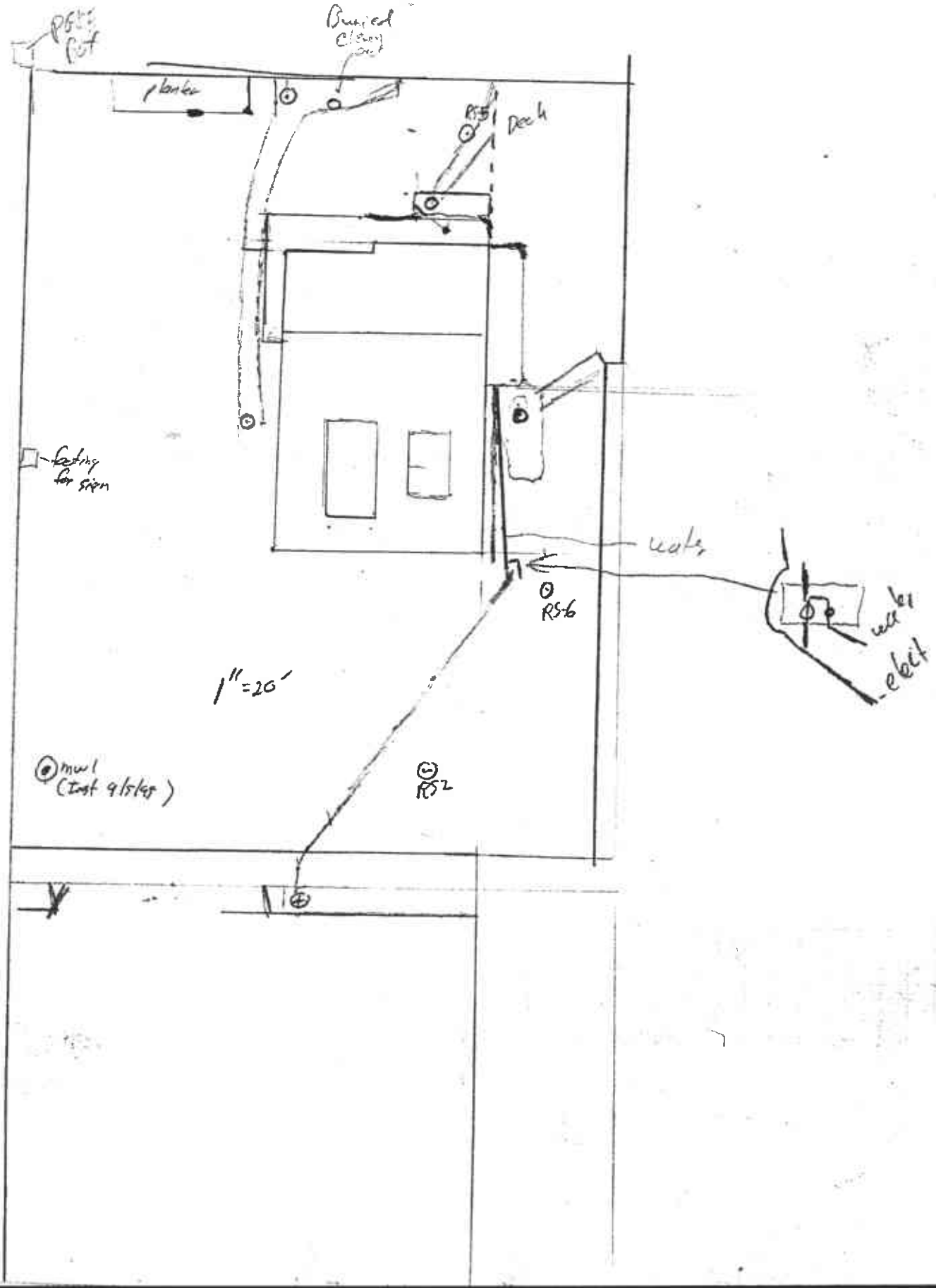
UST AND PRODUCT LINE REMC
SAMPLING LOCATIONS

JUNE 23, 1994

Cal = 42.7662 v 15.42 = 3.5

Comb 2829

8-31-95



DP 793   9/5/95

MW1

8"

surface Asphalt

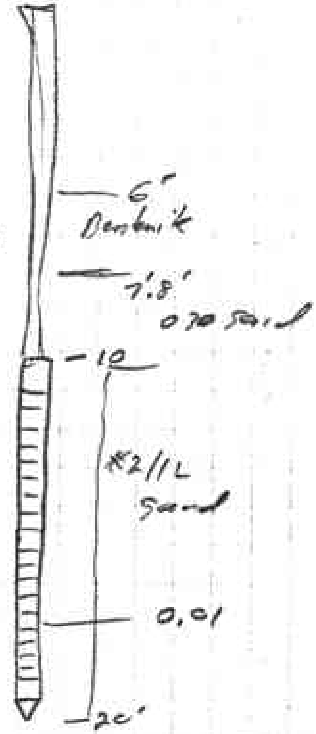
5' 2-1-2 moist clay brown silty
no color

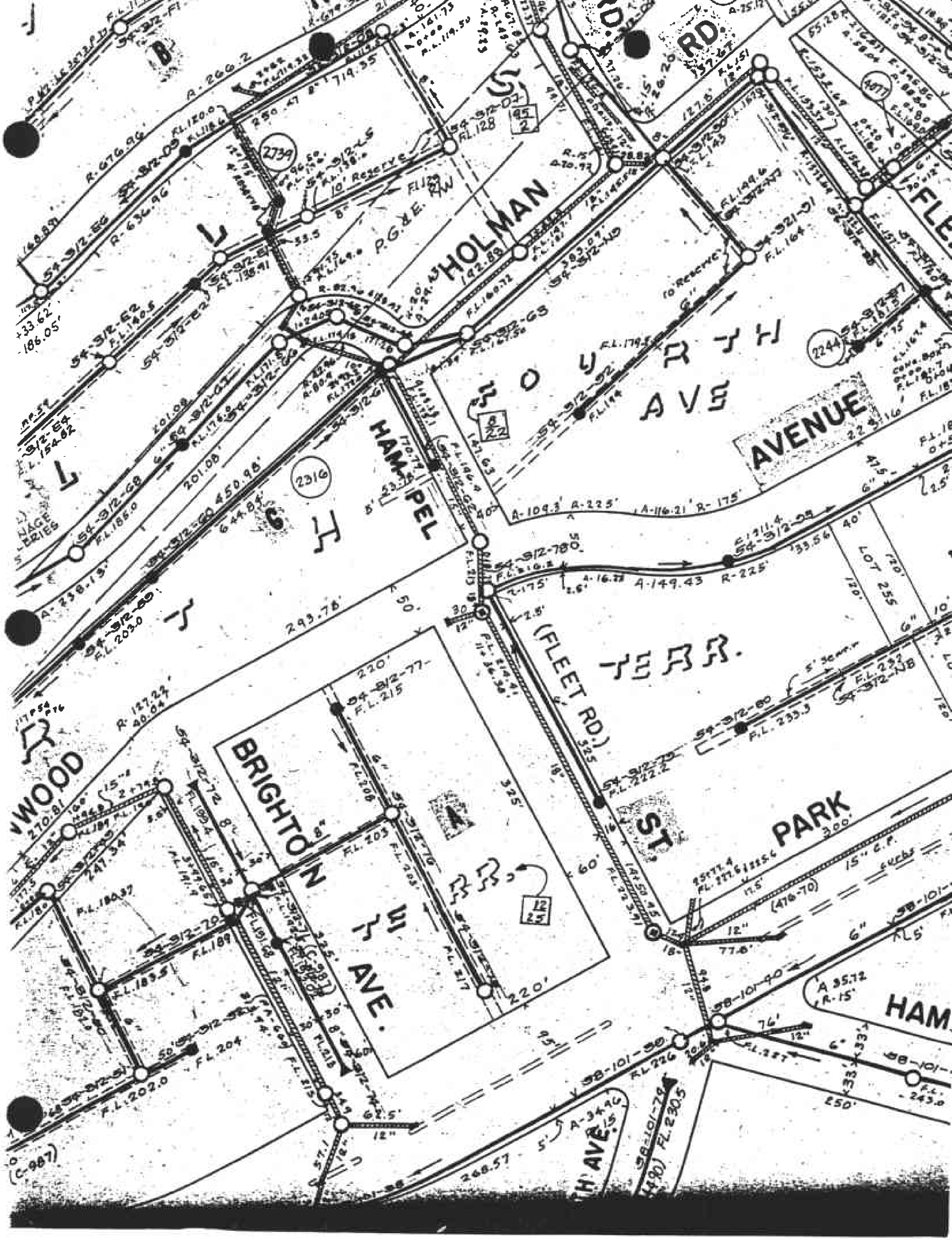
8' firm — — — — —

10' 2-4-10 Brown stiff clay no odor
silty

15' 6-11-17 Clay w/ gravel sharp-ang qtz & mat cole
brown stiff no odor

20' 10-17-24 Sand -wet no odor brown
fn-md qtz w/ minor crs mat igh/col occ pebble
subround ast qtz





HOLMAN
AVENUE
AVE
HAMPEL
BRIGHTON AVE.
(FLEET RD.)
TERR.
ST
PARK
RD.
P.G.&E. R/W
10' Reserve
2739
2316
2244
(C-987)

WEGE WELL CONSTRUCTION LOG

PROJECT NAME DESERT PETROLEUM, INC — MONITOR WELL NUMBER MW-1

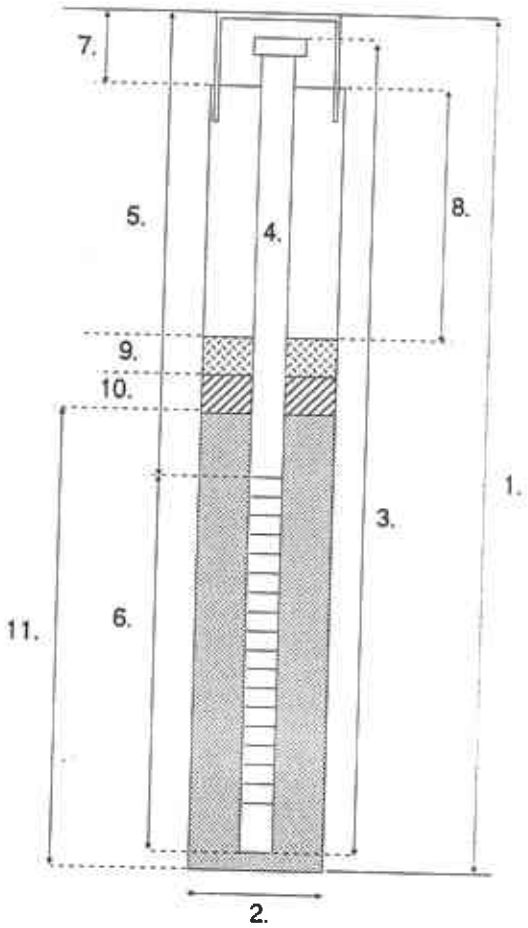
4035 PARK BLVD., OAKLAND, CA. — TOP OF CASING ELEVATION

PROJECT NUMBER DP #793 — DATE COMPLETED 9/5/95

WELL TYPE 2" PVC GROUND WATER MONITORING WELL

REMARKS: UPGRADIENT REPLACEMENT GROUND WATER MONITORING WELL. REPLACES RS-1, DESTROYED DURING OVER-EXCAVATION OF UST AND PUMP ISLAND AREAS.

TYPICAL MONITORING WELL



WELL CONSTRUCTION

1. Total Depth of hole 20.0'
2. Diameter of boring 8"
3. Casing length 20'
4. Casing diameter 2"
5. Depth to top of screen 10'
6. Length of screen 10'
   screen interval 10'-20'
   screen type sch 40 PVC F480
   screen size 0.010"
7. Surface seal surface - 1'
   seal material TB w/concrete
8. Backfill 1' - 6'
   seal material neat cement.
9. Upper seal 6'-7.8'
   seal material 1/4" hydrated ~~bentonite pellets.~~
10. Lower seal 7.8"-10'
    seal material #030 Sand
11. Annulus 10' - 20'
    material #2/12 sand

NOTE EACH WELL CONSTRUCTED WITH POLY-VINYL CHLORIDE (PVC) CASING WITH TREADED BOTTOM CAPS AND WATER TIGHT LOCABLE TOP CAPS. ALL PVC STEAM CLEANED PRIOR TO CONSTRUCTION OF WELL.

-WEGE-
WESTERN GEO-ENGINEERS

PAGE 1 OF 1

BORING: MW-1
DATE DRILLED: 9/5/95

▌ SAMPLE INTERVAL
▼ WATER

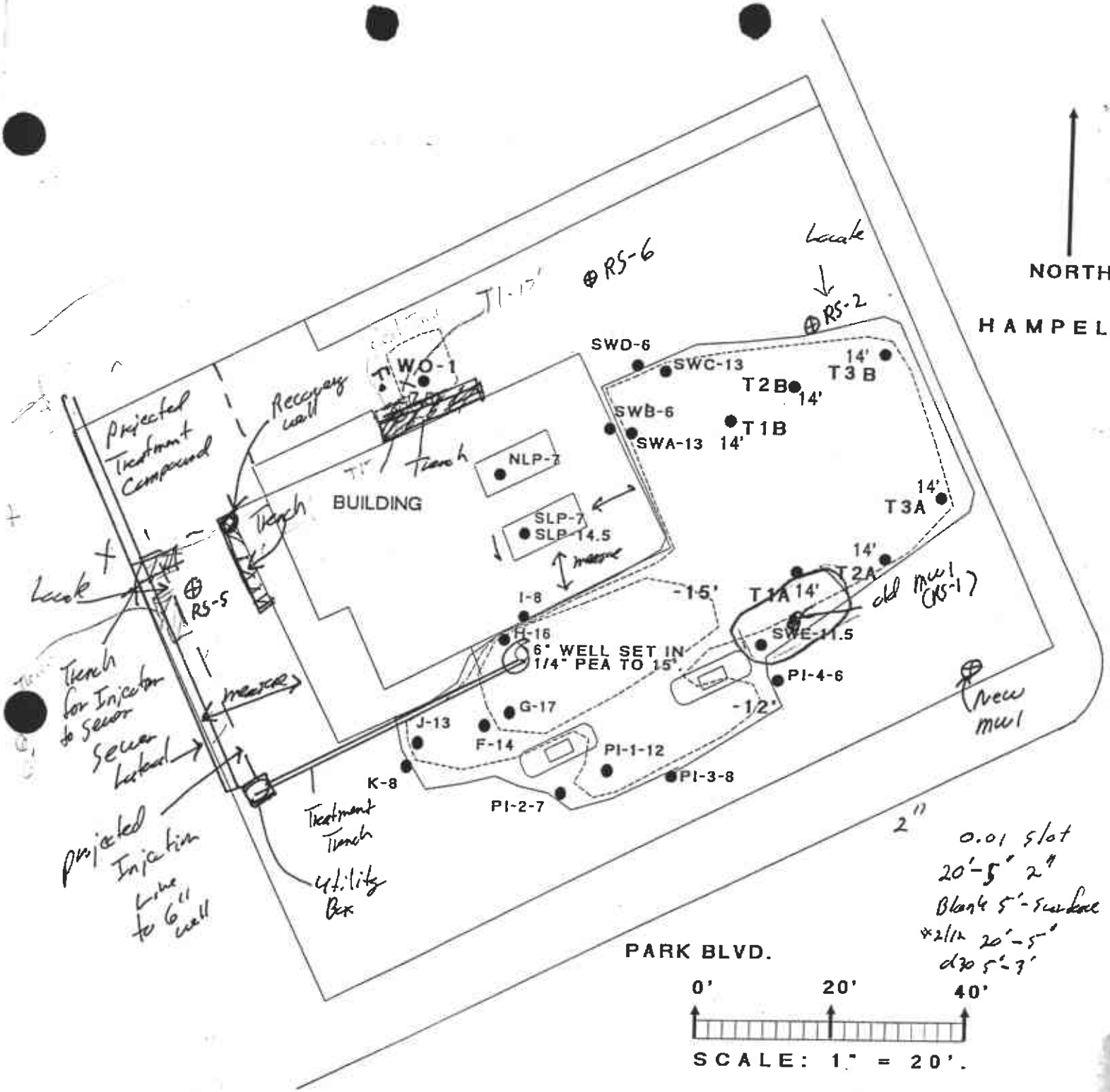
BORE HOLE LOG

DESERT PETROLEUM, INC.

PROJECT: D.P. STATION #793	GEOLOGIST: G. CONVERSE	SURFACE ELEVATION:
LOCATION: 4035 PARK BLVD. Oakland, California	DRILLER: E. Forsstrom	TOTAL DEPTH: 20'
DRILLING CONTRACTOR: WOODWARD DRILLING	DEPTH TO WATER: 18'	CASING: 2" PVC TO 20'.

REMARKS: 8" hollow stem auger powered by Mobile drill rig used to drill well. HNU PID WITH 10.2 EV BULB USED TO SCREEN SAMPLES AND DRILLING.

DEPTH (FT)	SAMPLE No.	BLOWS/5 FT	PPM TVO VAPOR	CORE DESCRPTION	GRAPHIC LOG	REMARKS
			0	3" ASPHALT SURFACE		
5'	MW1-5	2/1/2	0/0/0	CLAY, DARK BROWN, SILTY, MOIST, NO ODOR. (CL-ML)		BORING CONVERTED INTO GROUND WATER MONITORING WELL MW-1.
				DRILL STIFF AT 8 FEET.		
10'	MW1-10	2/4/10	0/0/0	CLAY, BROWN, STIFF, DECREASE IN SILT, NO ODOR. (CL-ML)		
15'	MW1-15	6/11/17	0/0/0	CLAY, LT BROWN, STIFF, MOIST, NO ODOR, WITH OCC. GRAVEL, SBANG-ANG, QTZ & MET VOLC. (CL-GP)		
▼ 20'	MW1-20	10/17/24	0/0/0	SAND, BROWN, WET, FINE-MEDIUM, QUARTZ, SUBROUND, W/VARIG. MET VOLC/IGN. OCC PEBBLES, SUBRD, WHT. QTZ. NO ODOR. (SP-SC)		FIRST WATER @ 18' BGS.
25'						
30'						
35'						
40'						
45'						NOTE: PID CALIBRATED WITH ISOBUTYLENE AS 100 PPM VAPOR



EXPLANATION:

2.5' 7.5' 12' 14'	EXCAVATION AND/OR SAMPLE DEPTH BELOW SURFACE.
T1	REMOVED TANK DESIGNATION.
A 14'	SAMPLE POINT AND ID #.
-1.2'	BELOW GRADE CONTOUR IN FEET BELOW SURFACE.

DESERT PETROLEUM STATION #793
4035 PARK BLVD..
OAKLAND, CALIFORNIA 94602

FIGURE 2

OVER-EXCAVATION SAMPLING LOCATIONS

AUGUST 8, 10, 11, 14, AND 16, 1995

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588-5127 • PHONE (510) 484-2600 FAX (510) 462-3914

1 September 1995

Mr. George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776-6003

Dear Mr. Converse:

Enclosed is drilling permit 95562 for the destruction of wells 1S/3W 31A80 at 4035 Park Boulevard in Oakland for Desert Petroleum.

Please note that permit condition A-2 requires that a Well Destruction Report be submitted after completion of the work. The report should include a description of methods and materials used to destroy the well, location sketch, date of destruction, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact Craig Mayfield at extension 233 or me at extension 235.

Very truly yours,

Wyman Hong

Wyman Hong
Water Resources Technician II

WH:ab
Enc.

1 September 1995

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

DESERT PETROLEUM
4035 PARK BOULEVARD
OAKLAND
WELL 1S/3W 31A80
PERMIT 95562

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.

2. Sound the well as deeply as practicable and record for your report.

3. Using a tremie pipe, fill the hole to 2 feet below the low of finished grade or original ground with neat cement.

4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by George Converse of Western Geo-Engineers meet or exceed the Zone 7 minimum requirements.

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Desert Petroleum #793
4035 Park Blvd.
Oakdland, California 94602

CLIENT
Name Desert Petroelum Inc.
Address P.O. Box 1601 Voice (805) 644-6784
City Oxnard, CA Zip 93032

APPLICANT
Name WESTERN GEO-ENGINEERS
Fax (916) 662-0273
Address 1386 E. Beamer Street Voice (916) 668-5300
City Woodland, CA Zip 95776-6003

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection		General	
Water Supply		Contamination	
Monitoring	x	Well Destruction	x

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger x
Cable ___ Other ___

DRILLER'S LICENSE NO. C-57 #513857

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 10 ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

ESTIMATED STARTING DATE September 5, 1995
ESTIMATED COMPLETION DATE September 5, 1995

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] Date August 29, 1995

FOR OFFICE USE

PERMIT NUMBER 95562
LOCATION NUMBER 1S/3W 31A80

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

(E.) WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 1 Sep 95
Wyman Hong

91992

P.2/2

AUG 29 '95 13:50 WEST.GEO-ENG(CONF)(916)668-5300

To: Wyman Hong

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588 (510) 484-2600 FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Desert Petroleum #793
4035 Park Blvd.
Oakland, CA 94602

CLIENT
Name Desert Petroleum, Inc.
Address PO Box 1601 Phone (805) 644-6704
City Oxnard, CA Zip 93032

APPLICANT Jack E. Napier for George Conners
Name Western Geo-Engineers
1886 E. Beamer St.
Address Woodland, CA Phone (916) 668-5300
City _____ Zip 95776

TYPE OF PROJECT
Well Construction
Cathodic Protection ___
Water Supply ___
Monitoring X
Geotechnical Investigation
General ___
Contamination ___
Well Destruction ___

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other _____
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other _____

DRILLER'S LICENSE NO. 513857

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth 5 ft. Number 1

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

ESTIMATED STARTING DATE 9/5/95
ESTIMATED COMPLETION DATE 9/5/95

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Jack E. Napier Date 9/1/95

FOR OFFICE USE

PERMIT NUMBER 95567
LOCATION NUMBER _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 1 Sep 95
Wyman Hong

51991

CA 800-642-2444 NV 800-227-2600

USA LOCATION REQUEST FORMAT

BEGIN DATE: Sept. 5, 1995 BEGIN TIME: 9 AM

YOUR NAME: George Converse

YOUR COMPANY'S NAME: Western Geo-Engineers

YOUR COMPANY'S MAILING ADDRESS: 1396 E. Beamer Street

CITY: Woodland STATE: CA ZIP: 95776-6603

TELEPHONE NUMBER WHERE YOU CAN BE CONTACTED: (916) 668. 5300 EXT.

NATURE OF YOUR WORK: Drilling - monitor well destruction / Construction

WHO IS THE WORK BEING DONE FOR: Desert Petroleum Inc.

FOREMAN OF THE JOB: George Converse

HAVE YOU OUTLINED YOUR EXCAVATION WITH WHITE PAINT: Yes

WORK PERMIT — CITY, COUNTY, OR STATE: Alameda #

ADDRESS OR DESCRIPTION WHERE YOU WILL BE DIGGING: (INCLUDE SIDE OF STREET, FOOTAGES OR OTHER TIE IN MEASUREMENTS. NEAREST INTERSECTING STREET, CITY AND COUNTY.)

4035 Park Blvd., Oakland, CA 94602

County
Pac Bell
PG&E
City Oakland

LOC REQ # 184515 DATE CALLED: 8/29/95 EXPIRATION DATE: 9-12-95

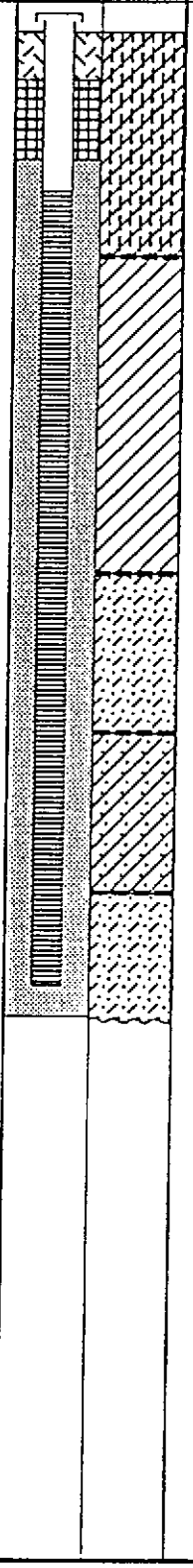
TWO WORKING DAYS NOTICE IS REQUIRED ON ALL LOCATION REQUESTS. EACH LOCATION IS ACTIVE FOR 14 CALENDAR DAYS FROM THE DATE IT IS CALLED IN.

USA OBSERVED HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING DAY, DAY AFTER THANKSGIVING, HALF DAY BEFORE CHRISTMAS, CHRISTMAS DAY.

DESERT PETROLEUM S[illegible]TION #793
Oakland, CA
Date: 12-11-89
Time Started/Finished: 9:00/1:00 (12-12-89)
Sampling Method: Mod Cal
Rig Type: MOBILE B-61 HSA
Drilling Contractor: Datum

used to Destroy
BORING/MONITORING WELL: RS-1
Logged By: BJM
Casing Size & Type: 4" PVC
Screen Size & Type: 4" PVC; 0.020" Slots
Filter Pack: #3 Sand
Traffic Cover Elevation:
Datum/Reference:

DEPTH (FEET)	SAMPLE INT.	PID ppm	BLOWS PER HALF FOOT	USCS	SOIL DESCRIPTION AND NOTES
0					
5	X	110	2, 3, 3	CL	SILTY CLAY, BLACK, VERY DAMP, SLIGHT HYDROCARBON ODOR.
10	X	52	7, 10, 13	CL	CLAY, BLACK, VERY MOIST, "STICKY", SLIGHT HYDROCARBON ODOR.
15	X	105	17, 22, 28		CLAY, BROWN, DAMP, MALLEABLE, NO HYDROCARBON ODOR.
20	X	102	14, 17, 21	SC	CLAYEY SAND WITH SOME GRAVEL, GREY-TAN, FINE-MEDIUM GRAIN, DAMP, NO HYDROCARBON ODOR.
					12-11-89
					12-12-89
25	X	50	11, 13, 18	CL	SANDY CLAY WITH GRAVEL, TAN, FINE GRAIN, SAMPLER WET BUT SAMPLE IS NOT SATURATED, SLIGHT HYDROCARBON ODOR.
30	X	5	21, 37, 50	SC	CLAYEY SAND WITH SOME GRAVEL, TAN, MEDIUM-COARSE GRAIN, SAMPLER WET BUT SAMPLE IS NOT SATURATED, NO HYDROCARBON ODOR.
					TD AT 31 FEET.
					CSG AT 30 FEET.
35					
40					
45					



PCI

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE D 793	DATE 10/4/95	TIME 9:45
WELL mw1	SAMPLED BY. DPT	
WELL ELEVATION		
PRODUCT THICKNESS	None	
DEPTH TO WATER	12.38	
FLUID ELEVATION		
BAILER TYPE	Disposable, Polyethylene	
PUMP	GTT Vacuum Lift	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP.	pH	COND.
~~B~~ 9:45	5 gallons			
	Purged 3 well volumes			
	Sampled @ 10:05			

FINAL VOLUME PURGED	5 gallons
TIME SAMPLED	10:05
SAMPLE ID.	mw1-water
SAMPLE CONTAINERS	3 40 mL VOA vials
ANALYSIS TO BE RUN	TPH-G, BTEX
LABORATORY	Sequoia
NOTES:	Bottom of well 19.65
	Turbid odor 1st bailer -
	purged 5 gallons, no odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE D793	DATE 10/4/95	TIME 10:15
WELL RS-2	SAMPLED BY. DPT	
WELL ELEVATION		
PRODUCT THICKNESS	none	
DEPTH TO WATER	15.05'	
FLUID ELEVATION		
BAILER TYPE	Disposable, Polyethylene	
PUMP	GTT Vacuum lift	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP.	pH	COND.
10:15 - 10:25	10 gallons			
	Purged 3 well Volumes			
	Sampled @ 11:15			

FINAL VOLUME PURGED	10 gallons
TIME SAMPLED	11:15
SAMPLE ID.	RS-2: water
SAMPLE CONTAINERS	3 40ml VOA Vials
ANALYSIS TO BE RUN	TPH-6, BTEX
LABORATORY	Sequoia
NOTES:	clear, no odor
	slow return

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE D793	DATE 10/4/95	TIME 10:50
WELL RS-5	SAMPLED BY. DPT	
WELL ELEVATION		
PRODUCT THICKNESS	None	
DEPTH TO WATER	17.53'	
FLUID ELEVATION		
BAILER TYPE	Disposable Polyethylene	
PUMP	GTT Vacuum Lift	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP.	pH	COND.
10:50 - 11:45	40 gallons			
	Purged 3 well volumes			
	Sampled @ 11:45			

FINAL VOLUME PURGED	40 gallons
TIME SAMPLED	11:45
SAMPLE ID.	RS-5 water
SAMPLE CONTAINERS	3 40 ml VOA vials
ANALYSIS TO BE RUN	TPH-G, BTEX
LABORATORY	Superior
NOTES:	Clear, slight pet odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE D793	DATE 10/4/95	TIME 1025
WELL RS-6	SAMPLED BY. DDT	
WELL ELEVATION		
PRODUCT THICKNESS	None	
DEPTH TO WATER	17.78 from top of rubber-boot	
FLUID ELEVATION		
BAILER TYPE	Disposable, Polyethylene	
PUMP	LTT Vacuum lift	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP.	pH	COND.
10:25-10:45	30 gallons			
	Purged 3 well volumes			
	Sampled @ 11:30			

FINAL VOLUME PURGED	31 gallons
TIME SAMPLED	11:30
SAMPLE ID.	RS-6 water
SAMPLE CONTAINERS	3 40 ml VOA vials
ANALYSIS TO BE RUN	TPH-G, BTEX
LABORATORY	Superior
NOTES:	
	Clear, no odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE 3793	DATE 10/4/95	TIME 11:45
WELL ~~#2~~ RS-7	SAMPLED BY. Paul B.	
WELL ELEVATION		
PRODUCT THICKNESS	none	
DEPTH TO WATER	4.03	
FLUID ELEVATION		
BAILER TYPE	Disposable Polyethylene	
PUMP	LTT Vacuum lift	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP.	pH	COND.
11:45	5 gallons			
	purged 3 well volumes			

FINAL VOLUME PURGED	5 gallons
TIME SAMPLED	11:50
SAMPLE ID.	RS-7 water
SAMPLE CONTAINERS	3 VOAs
ANALYSIS TO BE RUN	TPH-G, BTEX
LABORATORY	Superior
NOTES:	Slight turbid, Slight petr odor.