USA GASOLINE CORPORATION

10700 MACARTHUR BOULEVARD,
OAKLAND, CALIFORNIA
Proj. Sec. 24; T2S; R3W MDB&M

UST'S REMOVAL SOIL SAMPLING and LIMITED OVEREXCAVATION

OCTOBER 6, 1994

BY
-WEGE-
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USA Gasoline Corporation
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(818) 865-9200
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October 6, 1994

RE: UST's Removal Sampling on 7/19/94 and Limited Overexcavation Sampling on 8/19/94 and 9/27/94 at USA Station #57, 10700 MacArthur Blvd., Oakland, Alameda County, CA for USA Gasoline Corporation.

LOCATION

The site, USA Gasoline Corporation Station #57 is located at 10700 MacArthur Boulevard, Oakland, Alameda County, California and lies in projected Sec. 24; T2S; R3W; MDB&M at an elevation of approximately 65 feet above mean sea level. This site is no longer an active retail service station.

SOIL SAMPLING AND UST REMOVAL

On July 19, 1994 Pacific Excavator's (Joe Madison) removed four Underground Storage Tanks, three 12,000 gallon gasoline UST's and one 8000 gallon diesel UST. Western Geo-Engineers collected twelve soil samples, seven in native soil beneath the tanks and five in native soil beneath the product line trench (see Field Notes, page 12). The samples were collected by Vern Bennett of Western Geo-Engineers under the direction of Ms. Eva Chu (Hazardous Materials Specialist), Alameda County Health Agency.

The soil samples were delivered with accompanying chain-of-custody documentation to American Environmental Network (AEN), a California State certified laboratory (DHS #1172). The soil samples were analyzed by AEN for concentrations of Total Petroleum Hydrocarbons as gasoline and diesel (TPH-G&D) using EPA methods 5030 and 3550; for Benzene, Toluene, Ethylbenzene and xylenes using EPA Method 8020 and for Total Threshold Limit Concentration (TTLC) Lead. TPH G&D, BTEX and Total Pb were run on the five product line soil samples (PI-E 3.5 and PI-2 thru PI-5) from beneath the product line trench; the five soil samples

collected beneath the UST's that stored gasoline (TP3 thru TP7) were analyzed for TPH-G and BTEX and Total Pb. The soil samples collected beneath the diesel UST (TP1 and TP2) were analyzed for TPH-D, BTEX and Total Pb; in addition, these two samples were analyzed for PNA's by EPA method 8270.

Petroleum Hydrocarbons were detected in concentrations above action levels in seven of the twelve samples collected. Of the five product line samples, PI-2 had elevated levels of TPH-G and BTEX above detection limits; of the seven soil samples from beneath the UST's, TP5 was the only sample that was below detection limit. In addition, Naphthalene was the only compound detected from M8270 analysis (probably from Tar wrapping of the Diesel UST).

Western Geo-Engineers questioned the lab on their 'elevated' detection limits for Volatile Organic Compounds (VOC's) from 8020 analysis on some of these soil samples; 'hydrocarbon interference' was noted by the laboratory for these raised detection limits. Soil samples TP2 and TP5 were analyzed on August 13, 1994 for Volatile Organics utilizing EPA method 8240, to identify 'target' compounds that may attribute to the increased detection limits of the 8020 analysis. All compounds from the 8240 analysis are 'non detect' other than VOC's, this analysis was for identification purposes only (holding time on samples had expired). Benzene and Toluene were not identified in M8240 suggesting that Benzene and Toluene in the 8020 results were probably 'Hydrocarbon Interference', the BTEX concentrations from the 8020 analysis should be used because of the 'holding time' constraints for either analysis.

Ms. Eva Chu requested of USA Gasoline Corp. that 2 soil samples each from the dispenser islands are still needed to complete the initial investigation from the UST and Product line sampling; this soil sampling occurred on August 19, 1994 and is addressed below in this text.

For a listing of the analytical results from the soil samples please see the enclosed worksheet (page 12), Table 1 and AEN laboratory report in Appendix B.

LIMITED OVEREXCAVATION, SOIL SAMPLING ON AUGUST 19, 1994

On August 18 and 19, 1994 Pacific Excavators (Joe Madison) overexcavated the UST tank cavity, to abate and/or remove entirely all of the contaminated soil from this site. This overexcavation was to implement the USA Gasoline Corporation Workplan prepared by Western Geo-Enginneers dated August 11, 1994.

The overexcavation was accomplished by utilizing an excavator tractor with an excavation reach of 19-20 feet. Soil screening with the use of a hand held photo-ionizing detector (PID), visual (soil staining) and olfactory senses was used as the determining tool to guide the excavating.

The overexcavation partially completed the extent that the workplan outlined (ie. excavate the perimeter of the tank cavity 2 feet and the base to one foot of the local ground water). The tank cavity was excavated to roughly 16 feet (in the gasoline UST portion of excavation) and 14½ feet in the diesel UST portion of the tank cavity, see Field Notes in Appendix C. A localized 'perched water' in sand lenses at approximately 12 feet was removed, dry soil was present beneath these intervals.

A soil sample (SM-1) was collected from 19.5 feet on August 18, 1994, this sample was taken at the vertical extent of the excavator for two reasons, 1) determine whether hydrocarbon tainted soil exists at that depth, and 2) see if ground water can be encountered at the site (monitor wells S1 and S2 indicate a depth to ground water at approximately 17 feet).

The dispenser islands were removed for soil sampling (Alameda County Health request, 7/19/94) on August 19, 1994. The Dispenser Islands and the Tank Cavity were sampled by Western Geo-Engineers (Vern Bennett) under the direction of Ms. Eva Chu of Alameda County Health Agency on August 19, 1994. Fourteen soil samples were collected, six from native soil beneath the dispenser islands (2 samples each island) and seven samples of the tank cavity; one sample was taken after overexcavating the 'hot area,PI-2' Request by Alameda County Health (Appendix D) from the initial product line sampling. The overexcavation sample PI2-O was collected at 9 feet after excavating an area of soil contamination; this area indicated a 'fill sand' interval from 3½ to 6 feet which was removed before sampling. The seven soil samples that were collected from the base of the tank cavity were taken at depths that indicated the lowest/least soil contamination (by field indicators, ie. PID, staining, etc.). These locations and depths and soil types are presented in the worksheets and map (Appendix C) and in Table 1.

The relatively undisturbed soil samples were collected from the bucket of the excavator in 2"X3" clean brass sleeves. Each sample was preserved by wrapping the sleeve ends with aluminum foil and then capping them with plastic caps which are secured to

the sleeve with duct tape. Each sleeve was labeled with the time, date, location number, depth, analyses to be run, site name and initials of the geologist. Each sample was then placed in a zip lock bag and deposited in an ice chest with enough ice to preserve the samples at 4° for chain-of-custody delivery to a California State Certified Laboratory.

The soil samples from the Tank cavity and Dispenser islands were delivered under chain-of custody to AEN laboratory and analyzed for concentrations of Total Petroleum Hydrocarbons as Gasoline and Volatile Aromatic Hydrocarbons, utilizing EPA methods 5030 and 8020, repectively. no diesel ?

The stockpiled soil from the UST removal and overexcavation efforts (525 cubic yards) were sampled on August 19, 1994. Eleven soil samples (Table 1, Worksheets in Appendix C and Lab results in Appendix E) were collected, one composite per 50 cubic yards of soil, this soil was analyzed by AEN laboratory for TPH,G and BTEX by EPA methods 5030 and 8020, repectively. In addition, TPH,D analysis was requested from USA Gasoline Corporation of the 4 soil pile samples SP3-1, SP3-2, SP3-3 and SP3-4 on September 1, 1994 (these results are also in Table 1 and Appendix E).

The excavation is secured by fencing, the excavated soil is placed on the asphalt paving of the station property and covered with visquine plastic.

LIMITED OVEREXCAVATION, SOIL SAMPLING ON SEPTEMBER 27, 1994

On September 21 and 22, 1994 Pacific Excavators (Joe Madison) overexcavated the UST tank cavity to abate and/or remove entirely contaminated soil from this site. This overexcavation was a continuation of the earlier excavation efforts and was to implement the USA Gasoline Corporation Workplan prepared by Western Geo-Enginneers dated August 11, 1994.

On September 27, 1994 Western Geo-Engineers collected fourteen soil samples, four in native soil at the base of the tank cavity and ten in native soil from sidewalls of the tank cavity (see Field Notes, page 14). The samples were collected by Vern Bennett of Western Geo-Engineers under the direction of Ms. Eva Chu (Hazardous Materials Specialist), Alameda County Health Agency.

Soil samples were collected, prepared and stored per QA/QC procedures presented in the earlier section of this text.

The soil samples from the Tank cavity (see Worksheet on page 14) were delivered under chain-of custody to AEN laboratory and analyzed for concentrations of Total Petroleum Hydrocarbons as Gasoline and Volatile Aromatic Hydrocarbons, utilizing EPA methods 5030 and 8020, repectively. In addition selected samples (TC2-5, TC2-7 and TC2-8) had TPH, Diesel run; these samples were collected in the vicinity of the former Diesel UST.

The stockpiled soil from this overexcavation effort (250 cubic yards) were sampled on September 27, 1994. Five soil samples (Table 1 and Lab results in Appendix E) were collected, one composite per 50 cubic yards of soil. This soil was analyzed by AEN laboratory for TPH,G and BTEX by EPA methods 5030 and 8020, repectively. In addition, TPH,D analysis was run on the composite sample from SP4.

The analytical results, methods and depths for soil samples from the UST's removal and overexcavation efforts are tabulated in Table 1, Appendix F; their locations are depicted in Figures 3, 4 and 5.

The excavation is secured by fencing, the excavated soil is placed on the asphalt paving of the station property and covered with visquine plastic.

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

Sincerely,

Vern A. Bennett
Project Geologist

REGISTERED GEOLOGIST
JACK E. NAPPER
No. 3037
STATE OF CALIFORNIA

Jack E. Napper
Registered Geologist #3037

WEGE: TABLE 1

USA PETROLEUM CORPORATION
10700 MACARTHUR BLVD.,
OAKLAND, CALIFORNIA

SOIL SAMPLE LABORATORY RESULTS

SAMPLE LOCATION	SAMPLE ID	DATE SAMPLED	DEPTH SAMPLED IN FEET	SAMPLING COMPANY	LAB	TPH,G ppm	TPH,D ppm	BENZENE ppm	TOLUENE ppm	ETHYL BENZENE ppm	XYLENE ppm	TTLC LEAD ppm	STLC LEAD PPM	PNA's by M8270 ppm	VOL.ORGAN by 8240 ** ppm
P_L TRNCH	PI-B 3.5	07/19/94	3.5	WEGE	AEN	<0.2	<1.0	<.005	<.005	<.005	<.005	7			
P_L TRNCH	PI-2	07/19/94	3.5	WEGE	AEN	4500	<50	<1.0	6	60	440	4			
P_L TRNCH	PI-3	07/19/94	3.5	WEGE	AEN	<0.2	<1.0	<.005	<.005	<.005	<.005	5			
P_L TRNCH	PI-4	07/19/94	4	WEGE	AEN	<0.2	<1.0	<.005	<.005	<.005	<.005	6			
P_L TRNCH	PI-5	07/19/94	3.5	WEGE	AEN	<1.0	<1.0	<.005	<.005	<.005	<.005	7			
TNK FIELD	TP1	07/19/94	12.5	WEGE	AEN		60	<.005	0.015	0.007	0.008			<0.2	
TNK FIELD	TP2	07/19/94	12.5	WEGE	AEN		230	<1.0	0.79	2.2	0.7			* 0.77	ND
TNK FIELD	TP3	07/19/94	13	WEGE	AEN	94		0.18	0.25	1	5.9	3			
TNK FIELD	TP4	07/19/94	13	WEGE	AEN	1400		1.9	3.5	12	150	4			
TNK FIELD	TP5	07/19/94	13	WEGE	AEN	300		<.5	0.74	4.8	20	3			ND
TNK FIELD	TP6	07/19/94	13	WEGE	AEN	0.7		<.005	<.005	0.006	<.005	3			
TNK FIELD	TP7	07/19/94	13	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005	3			
TNK CAVTY	TC-1	08/19/94	16	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	TC-2	08/19/94	16	WEGE	AEN	93		<0.01	0.28	0.63	3.1				
TNK CAVTY	TC-3	08/19/94	17.5	WEGE	AEN	2.4	1	0.008	0.02	0.02	0.11				
TNK CAVTY	TC-4	08/19/94	15.5	WEGE	AEN	0.7	2	<.005	<.005	<.005	<.005				
TNK CAVTY	TC-5	08/19/94	17	WEGE	AEN	190		0.17	0.38	0.99	7.9				
TNK CAVTY	TC-6	08/19/94	18	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	SM-1	08/18/94	18.5	WEGE	AEN	0.4		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-1	09/27/94	17	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-2	09/27/94	13	WEGE	AEN	13		0.06	0.019	0.026	<.005				
TNK CAVTY	TC2-3	09/27/94	16	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-4	09/27/94	13	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-5	09/27/94	12	WEGE	AEN	100	200	0.13	0.12	0.1	0.25				
TNK CAVTY	TC2-7	09/27/94	13	WEGE	AEN	6.3	37	<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-8	09/27/94	13	WEGE	AEN	<1.0	16	<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-9	09/27/94	19	WEGE	AEN	0.4		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-11	09/27/94	13	WEGE	AEN	2200		9.6	21	40	260				
TNK CAVTY	TC2-12	09/27/94	12	WEGE	AEN	130		0.33	0.29	0.66	7.9				
TNK CAVTY	TC2-13	09/27/94	20	WEGE	AEN	620		1.1	4.9	6.4	66				
TNK CAVTY	TC2-14	09/27/94	11	WEGE	AEN	92		0.096	0.1	0.17	1.7				
TNK CAVTY	TC2-15	09/27/94	17	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
TNK CAVTY	TC2-16	09/27/94	14	WEGE	AEN	<1.0		<.005	<.005	<.005	<.005				
DISP ISL	DI-1	08/19/94	3.5	WEGE	AEN	720		0.19	2	9	53				
DISP ISL	DI-2	08/19/94	3.5	WEGE	AEN	280		0.12	0.8	4.6	33				
DISP ISL	DI-3	08/19/94	3	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				

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SOIL SAMPLE LABORATORY RESULTS

SAMPLE LOCATION	SAMPLE ID	DATE SAMPLED	DEPTH SAMPLED IN FEET	SAMPLING COMPANY	LAB	TPH,G ppm	TPH,D ppm	BENZENE ppm	TOLUENE ppm	ETHYL BENZENE ppm	XYLENE ppm	TTLC LEAD ppm	STLC LEAD PPM	PNA's by M8270 ppm	VOL.ORGAN by 8240 ** ppm
DISP ISL	DI-4	08/19/94	3	WEGE	AEN	590		0.7	2.5	13	81				
DISP ISL	DI-5	08/19/94	3.5	WEGE	AEN	570		0.1	1.5	2.7	17				
DISP ISL	DI-6	08/19/94	3.5	WEGE	AEN	1800		0.72	5.2	31	180				
PROD TRNC	PT2-O	08/19/94	9	WEGE	AEN	15		0.02	0.04	0.07	0.19				
SOIL PILESP1-1	A-D	08/19/94	6'UP2'IN	WEGE	AEN	31		<.005	0.053	<.005	1.2				
SOIL PILESP1-2	A-D	08/19/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
SOIL PILESP1-3	A-B	08/19/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005				
SOIL PILESP2-1	A-D	08/19/94	5'UP1.5IN	WEGE	AEN	22		<.01	0.029	<.01	0.075				
SOIL PILESP2-2	A-D	08/19/94	5'UP1.5IN	WEGE	AEN	66		0.02	0.11	0.065	0.25				
SOIL PILESP2-3	A-D	08/19/94	5'UP1.5IN	WEGE	AEN	51		<.01	0.07	<.01	0.32				
SOIL PILESP2-4	A-D	08/19/94	5'UP1.5IN	WEGE	AEN	210		0.04	0.76	0.48	3.1				
SOIL PILESP3-1	A-D	08/19/94	6'UP2'IN	WEGE	AEN	360	460	<.05	1.7	3.3	28				
SOIL PILESP3-2	A-D	08/19/94	6'UP2'IN	WEGE	AEN	<40	750	<.01	<.01	<.01	<.04				
SOIL PILESP3-3	A-D	08/19/94	6'UP2'IN	WEGE	AEN	<20	180	<.01	0.02	0.01	0.05				
SOIL PILESP3-4	A-D	08/19/94	6'UP2'IN	WEGE	AEN	73	400	<.02	0.03	0.08	1.3				
SOIL PILESP4-1	A-D	09/27/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005		0.2		
SOIL PILESP4-2	A-D	09/27/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005		<0.1		
SOIL PILESP4-3	A-D	09/27/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005		<0.1		
SOIL PILESP4-4	A-D	09/27/94	6'UP2'IN	WEGE	AEN	<0.2		<.005	<.005	<.005	<.005		<0.1		
SOIL PILE SP5	A-D	09/27/94	6'UP2'IN	WEGE	AEN	0.4	92	<.005	<.005	<.005	<.005		<0.1		
SPIL COMP1-2	& 1-2	08/19/94	6'UP2'IN	WEGE	AEN								0.3		
SPIL COMP1-3	& 2-2	08/19/94	6'UP2'IN	WEGE	AEN								0.1		
SPIL COMP2-3	& 2-4	08/19/94	6'UP2'IN	WEGE	AEN								0.1		
SPIL COMP3-1	& 3-2	08/19/94	6'UP2'IN	WEGE	AEN								0.1		
SPIL COMP3-3	& 3-4	08/19/94	6'UP2'IN	WEGE	AEN								0.3		

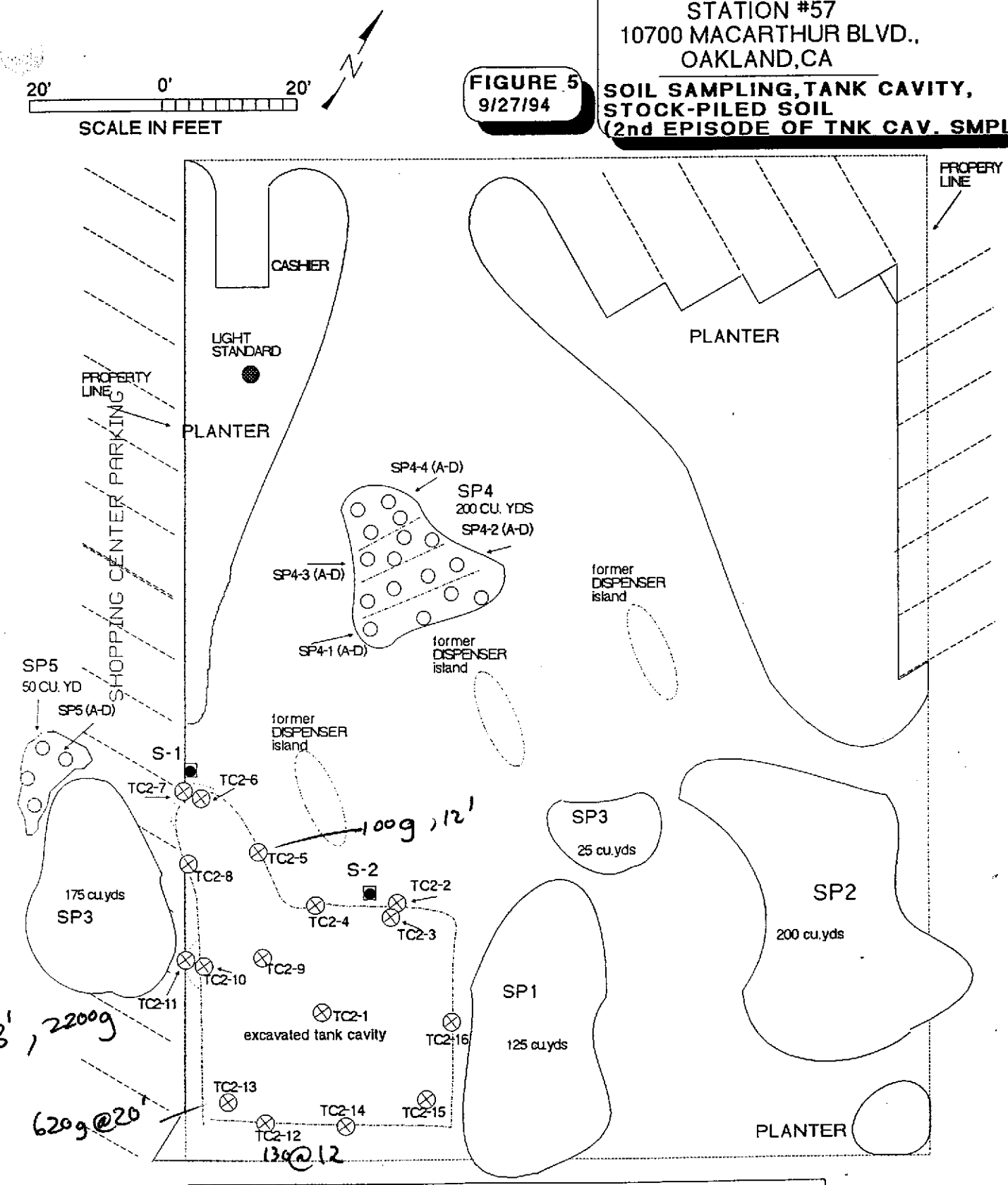
ppm= PARTS PER MILLION (mg/kg)
TPH= TOTAL FUEL HYDROCARBONS (GASOLINE)
TTLC= TOTAL THRESHOLD LIMIT CONCENTRATION
EPA METHOD 5030 USED FOR TPH,GASOLINE
EPA METHOD 3550 FOR TPH,DIESEL
EPA METHOD 8020 USED FOR (BTEX); BENZENE, TOLUENE, ETHYL BENZENE. XYLENE
EPA METHOD 7420 USED FOR TTLC (LEAD)

WEGE= WESTERN GEO-ENGINNERS
AEN= AMERICAN ENVIRONMENTAL NETWORK (DHS #1172)
* PNA'S by M8270, note Naphthaline is only PNA above detection limit.
BLANK &/or " ", sample not taken or analyzed.

USA GASOLINE CORPORATION
STATION #57
10700 MACARTHUR BLVD.,
OAKLAND,CA

FIGURE 5
9/27/94

SOIL SAMPLING, TANK CAVITY, STOCK-PILED SOIL (2nd EPISODE OF TNK CAV. SMPL)



SAMPLES TAKEN FROM BASE OF TANK CAVITY	TC2-1	TC2-2	TC2-8	SAMPLES TAKEN FROM SIDEWALLS OF TANK CAVITY
	TC2-9	TC2-3	TC2-11	
	TC2-13	TC2-4	TC2-12	SIDEWALL UNDERCUT - SAMPLES TAKEN
	TC2-15	TC2-5	TC2-14	TC2-6 AND TC2-10 TAKEN BUT NOT ANALYZED
		TC2-7	TC2-16	

WEGE: TABLE 1

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OAKLAND, CALIFORNIA

SOIL SAMPLE LABORATORY RESULTS

SAMPLE LOCATION	SAMPLE ID	DATE SAMPLED	DEPTH SAMPLED IN FEET	SAMPLING COMPANY	LAB	TPH,G ppm	TPH,D ppm	BENZENE ppm	TOLUENE ppm	ETHYL BENZENE ppm	XYLENE ppm	TTLC LEAD ppm	STLC LEAD PPM	PNA's by M8270 ppm	VOL.ORGAN by 8240 ** ppm

EPA METHOD 8270 FOR PNA'S

SAMPLE LOCATION & ID-SPIL COMP= SOIL PILE PILE OF PREVIOUS SAMPLES
TO 100 CUBIC YARDS - Pb LEAD ANALYSIS

** SOIL SAMPLES TP2 & TP5 ANALYZED ON 8/13/94, ANALYSIS WAS RAN TO IDENTIFY 'TARGET' COMPOUNDS OF VOLATILE ORGANICS FROM EPA M8240; QUESTIONS WERE RAISED FROM WEGE TO THE LAB BECAUSE OF HIGH DETECTION LIMITS FROM 8020 ANALYSIS ALL COMPOUNDS OF M8240 ARE 'NON-DETECT' FOR COMPOUNDS OTHER THAN VOC'S, M8020 WILL BE USED FOR LEVELS ON COMPOUNDS M8240 WAS WAS IDENTIFICATION PURPOSES ONLY-HOLDING TIME ON SAMPLES HAD EXPIRED, BENZENE & TOLUENE WERE NOT IDENTIFIED IN M8240, SUGESTING THAT B & T IN THE 8020 RESULTS WAS PROBABLY 'HYDROCARBON INTERFERENCE'.

WESTERN GEO-ENGINEERS

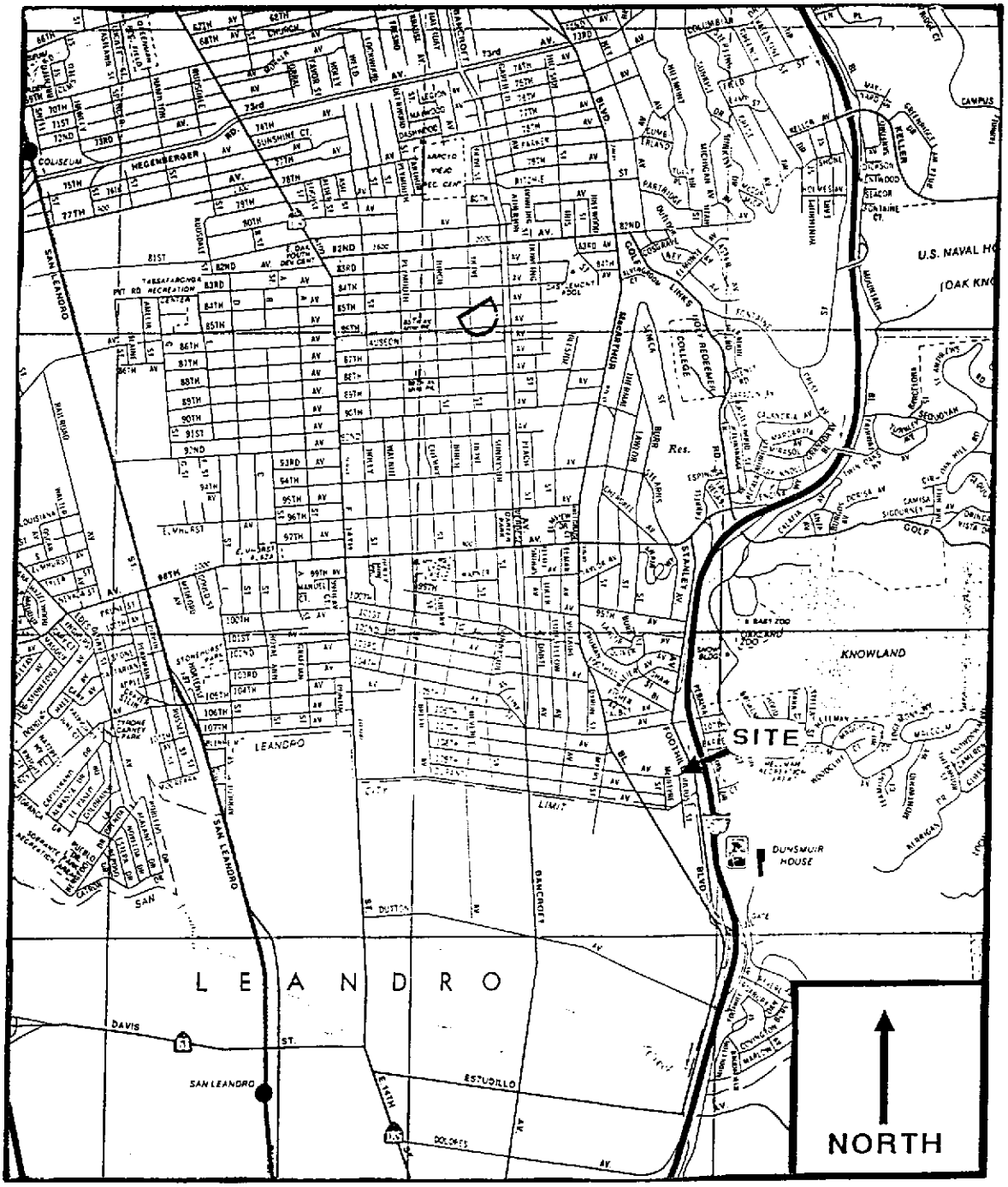


FIGURE 1, AAA, SITE LOCATION MAP

WESTERN GEO-ENGINEERS

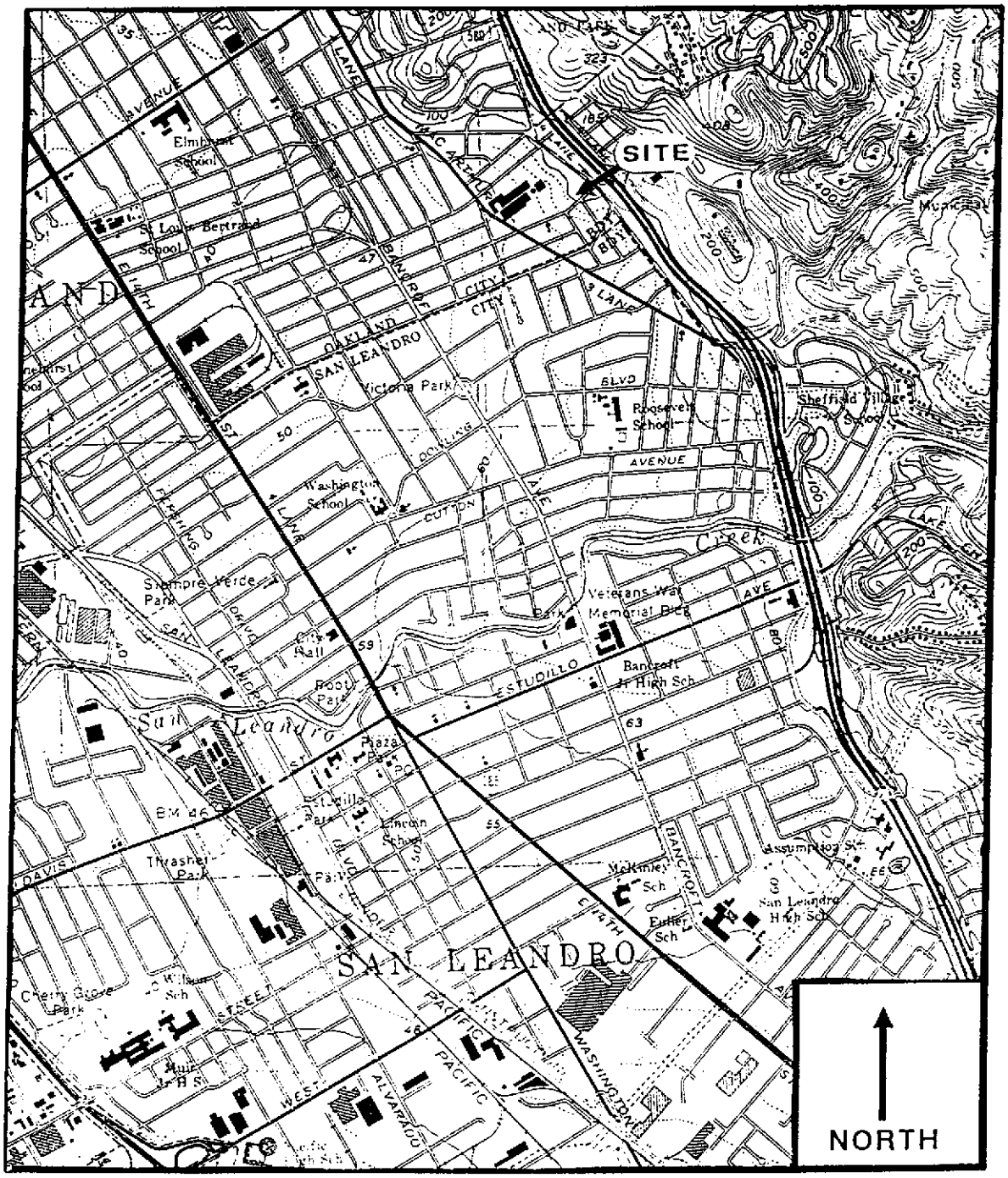


FIGURE 2. USGS TOPO SHEET SITE LOCATION MAP

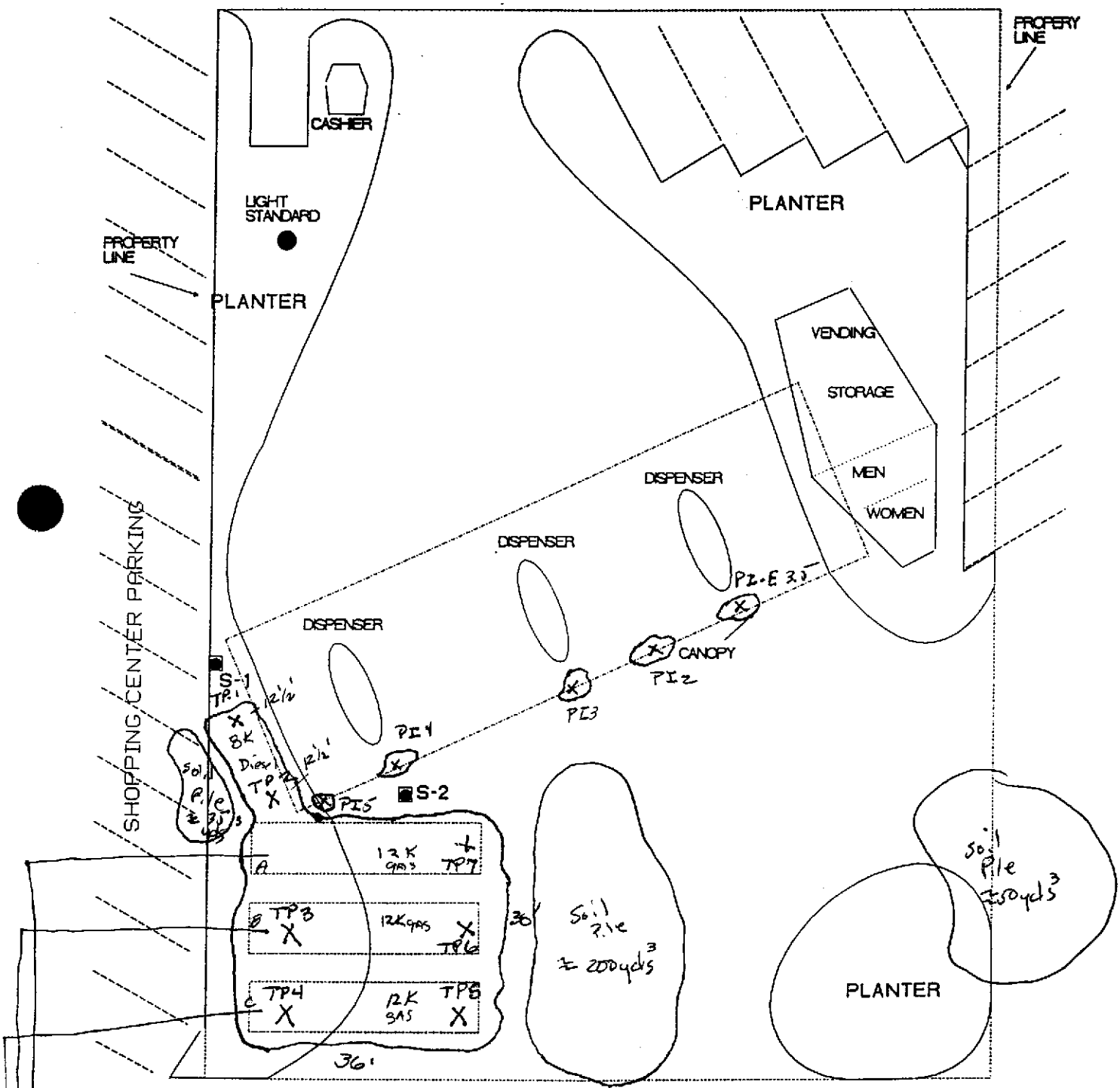
USTA AND PRODUCT LINE
SOIL SAMPLING

20' 0' 20'
SCALE IN FEET

N

FIGURE 3
7/19/94

USA GASOLINE CORPORATION
STATION #57
10700 MACARTHUR BLVD.,
OAKLAND, CA
SITE BASE MAP



A pulled, clean interior - no holes
B pulled, 1/8" hole (fill side bottom) - leaking water
C pulled, no holes interior

used HNU LEL/O_2 meter to pull tanks
perched water on site ≈ 10½' GW 5, -16'
S2 - 17'

Analysis directive by Alameda Co. Mrs. Eva Chu

TP_1, TP_2 TPH, D - BTEX 8270 PNA's
TP_3 - TP_7 TPH G/BTEX Pb
PI 1 - PI 5

WEGE WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

proj.

SEC. 24; T 2S; R 3W; MDB&M
JOB DESCRIPTION Tank Pull + Product Line Soil Sampling
LOCATION USA Gasoline Corp. Sta. #57
ADDRESS 10700 MacArthur BLVD.
CITY Oakland STATE CA
COUNTY Alameda
CLIENT USA Gasoline Corp.
ADDRESS 30101 Agoura Court, Ste. 200
CITY Agoura Hills STATE CA ZIP 91301
PHONE (818) 865-9200 FAX (818) 865-0092
CLIENT REP. Srikanth Dasappa

WORK PERFORMED BY Vern Bennett
DATE 7/19/94
LEAVE OFFICE 9:30 AM (½ hr offtime)
ARRIVE SITE 11:00 AM
MILEAGE 90 mi.
LEAVE SITE 6:30
ARRIVE OFFICE mob to another site
MILEAGE mob to another site
#SOIL SAMP. 12
#WATER SAMP. N/A
LABORATORY AEN
WEGE TO PAY LAB (YES) (NO)

SITE MAP

see Figure 3

APPROX. SCALE

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
Alameda Co. Environ. Health	Ms. Eva Chu	1131 Harbor Bay PKwy Alameda, CA 94502	~~(510) 337-9335~~ (510) 567-6700	~~(510) 337-28-64~~ (510) 337-9335

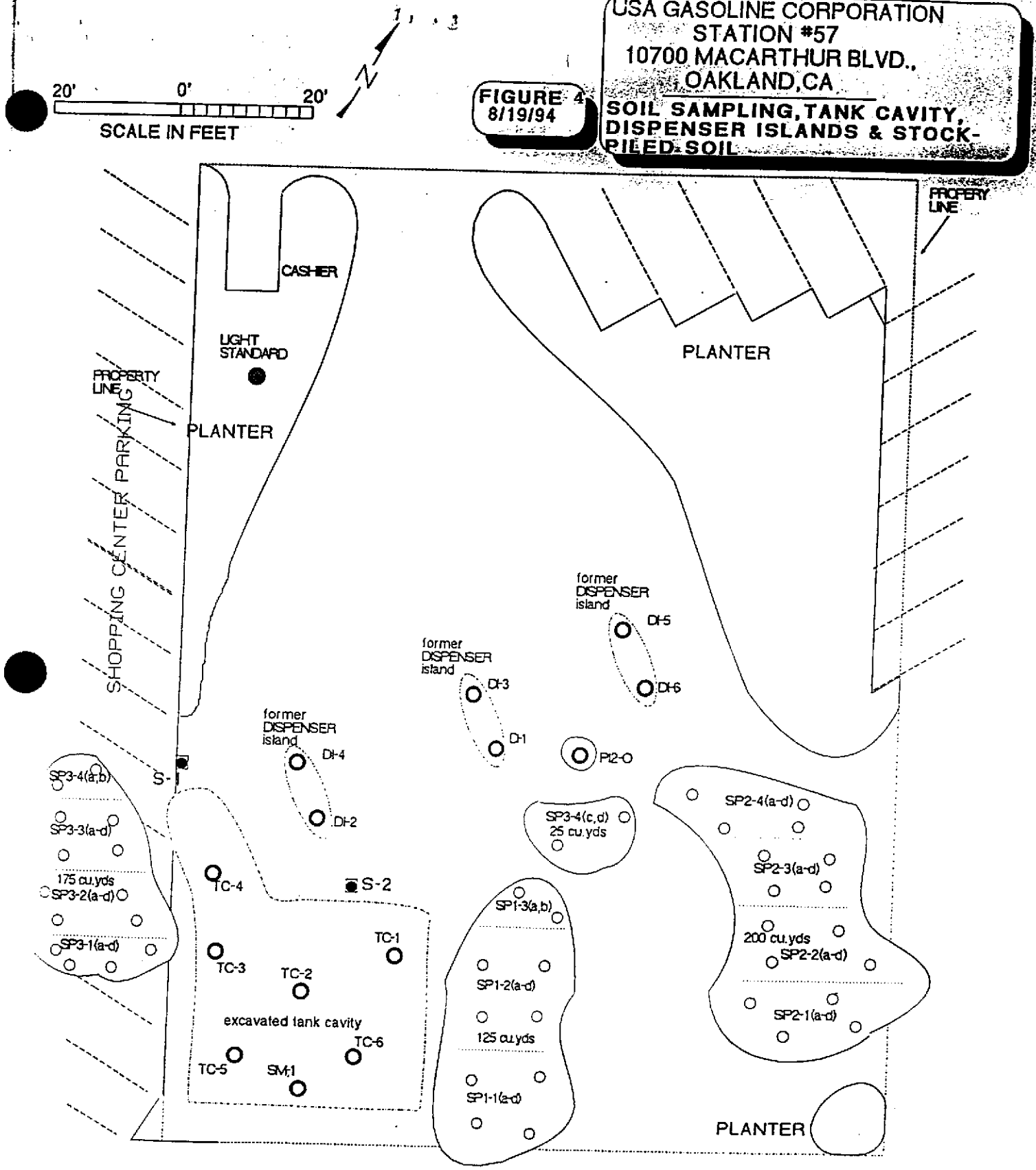
SITE ACTIVITY LOG	NOTES:
9:30 - 11:00	Mob to site
11:00 - 12:00	Recon site w/ Srikanth D., map excavation
12:00 - 12:30	Lunch w/ USA
12:30 - 1:30	H+H Vacuum tanks Don Madison - contractor - Dry Ice Tanks
1:30 - 2:45	1:00 Alameda Co. - Eva Chu arrives - Sample pump Islands
	Prop owners - env. consultant - take duplicates of soil samples
2:45 - 5:30	Pull Tanks / H+H LEL O2 meter - Fire Dept oversees
	pull 1, 8K Diesel UST, 3 12K Gasoline UST
	Take soil samples of Tank field by Direction
	of Alameda Co. Rep. - Ms Eva Chu
	Pulled middle Gas UST 1/8" hole bottom of fill side
	All other UST's - appear tight - intact
	some water in excavation, Purged for Recharge by H+H
	GW in MW's S1 + S2 @ 16-18' BGS - water in pit, perched
5:30 - 6:00	→ sample PI5

SAMPLE DATA

	ID	LOCATION	DEPTH	TYPE	TIME	TIP
PI-E	3.5	E Island	3.5'	SILT	1:30	0 PPM
Product Line Trench	PI2	mid of mid E Is.	3.5	SILTY S	1:45	300 ppm
	PI3	middle Isl	3.5'	SILT	2:15	0 PPM
	PI4	West Isl	4.0	Clayey sd-silt	2:35	0 PPM
	PI5	West of West Is.	3.5	"	5:45	0 PPM
Tank Field	TP1	Diesel Tank N	12.5	Sdy silt	3:15	0 PPM
	TP2	Diesel Tank S	12.5	Clayey sd	3:25	0 PPM
	TP3	mid Gas Tank W	13	Clay sd	4:45	16 ppm
	TP4	S - Gas Tank W	13	Clay sd-fn	4:50	360 ppm
	TP5	S - Gas Tank E	13	Silty sd	5:00	126 ppm
	TP6	M - Gas Tank E	13	SILT	5:10	0
	TP7	N - Gas Tank E	13	SILTY Sd	5:15	0

LABORATORY RESULTS

see Table 1 + soil Results


USA GASOLINE CORPORATION
STATION #57
10700 MACARTHUR BLVD.,
OAKLAND,CA
FIGURE 4
8/19/94
SOIL SAMPLING, TANK CAVITY, DISPENSER ISLANDS & STOCK-PILED SOIL
20' 0' 20'
SCALE IN FEET
PROPERTY LINE
CASHIER
LIGHT STANDARD
PLANTER
PROPERTY LINE
SHOPPING CENTER PARKING
PLANTER
former DISPENSER island
DI-5
DI-6
former DISPENSER island
DI-3
DI-1
former DISPENSER island
DI-4
DI-2
PI2-O
S-1
SP3-4(a,b)
SP3-3(a-d)
175 cu.yds
SP3-2(a-d)
SP3-1(a-d)
TC-4
S-2
TC-1
TC-3
TC-2
excavated tank cavity
TC-6
TC-5
SM-1
SP3-4(c,d)
25 cu.yds
SP1-3(a,b)
SP1-2(a-d)
125 cu.yds
SP1-1(a-d)
SP2-4(a-d)
SP2-3(a-d)
200 cu.yds
SP2-2(a-d)
SP2-1(a-d)
PLANTER

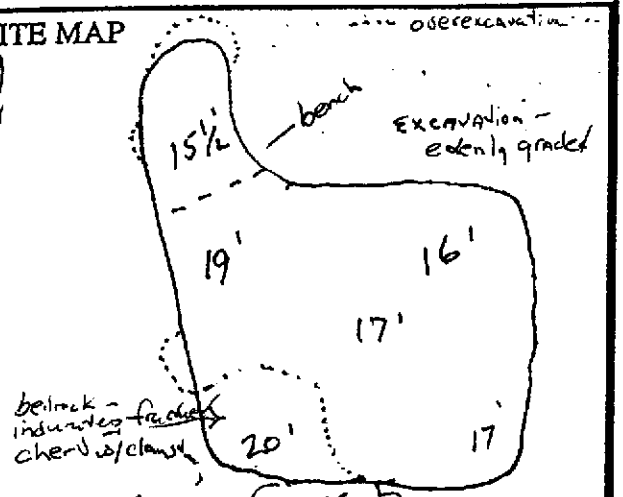
WEGE WESTERN GEO-ENGINEERS

1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. 24; T 2 S ; R 3 W ; MDB&M
JOB DESCRIPTION overexcavation
50.1 sampling
LOCATION USA Gasoline Corp, Stn #57
ADDRESS 10200 MacArthur Blvd.
CITY Oakland STATE CA
COUNTY Alameda
CLIENT USA Gasoline Corp
ADDRESS 30101 Agoura Court Ste 200
CITY Agoura STATE CA ZIP 91301
PHONE (818) 865-9200 FAX (818) 865-0092
CLIENT REP. Serena Dascoppa

WORK PERFORMED BY Vern Bennett
DATE 9/27/94
LEAVE OFFICE 9:00 AM
ARRIVE SITE 11:00 AM
MILEAGE 90 mi
LEAVE SITE 5:45 PM
ARRIVE OFFICE 8:15 PM
MILEAGE 90 mi
#SOIL SAMP. 10 ~~12~~ 21
#WATER SAMP. N/A
LABORATORY AEN
WEGE TO PAY LAB (YES) (NO)

SITE MAP



See Figure 5 for detailed depiction of sampling

APPROX. SCALE
NO Scale

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
Alameda Co. Environ. Health	Ms. Eva Chu	1131 Harbor Bay Parkway Alameda, CA 94502	(510) 567-6700	(510) 337-9335

SITE ACTIVITY LOG	NOTES:
11:00 - 11:30	Recon site w/ Joe Madison - prepare to sample
11:30 - 11:45	Alameda County (Ms. Eva Chu) arrives, go over site and plans for sampling
11:45 - 2:30	sample under direction of Eva Chu Tank cavity and sidewalls of overexcavation. Tank cavity was evenly overexcavation - all sidewalls - except NE wall of main cavity was taken back 1'-2', the base was excavated & evenly graded as shown above 4 soil samples of base & 10 samples of sidewalls were taken - minor overexcavation of sidewalls were done 9/27
	Co. leaves
2:30 - 2:45	Secure site w/ Joe Madison - Joe leaves
2:45 - 5:45	Sample soil pile ≈ 350 cubic yards
	725 cubic yards of soil generated from Tank Pull & 2 overexcavation episodes

SAMPLE DATA

	ID	LOCATION	DEPTH	TYPE	TIME	TIP
TC2-	1	TankCav base	17'	silty clay	11:45	0 ppm
TC2-	2	TankCav SW	13'	clayey silty sand	12:00	35 ppm
TC2-	3	TankCav SW	16'	sandy silty clay	12:30	0 ppm
TC2-	4	TankCav SW	13'	silt	12:45	0 ppm
TC2-	5	TankCav SW	12'	silty clay	1:00	7 ppm
TC2-	7	TankCav SW	13'	silty clay & bedrock	1:25	70 ppm
TC2-	8	TankCav SW	13'	silty clay	1:30	0 ppm
TC2-	9	TankCav base	19'	gravelly clay	1:40	20 ppm
TC2-	11	TankCav SW	13'	brown silt	2:00	150 ppm
TC2-	12	TankCav SW	12'	silty clay	2:10	20 ppm
TC2-	13	TankCav base	20'	sandy silty clay & bedrock	2:15	40 ppm
TC2-	14	TankCav SW	11'	clay	2:30	100 ppm

LABORATORY RESULTS
for soil Results see Table 1

WEGE WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SITE MAP

APPROX. SCALE

SEC. ;T ;R ; B&M	
JOB DESCRIPTION	
LOCATION	
ADDRESS	
CITY	STATE
COUNTY	
CLIENT	
ADDRESS	
CITY	STATE ZIP
PHONE	FAX
CLIENT REP.	
WORK PERFORMED BY	
DATE	
LEAVE OFFICE	
ARRIVE SITE	
MILEAGE	
LEAVE SITE	
ARRIVE OFFICE	
MILEAGE	
#SOIL SAMP.	
#WATER SAMP.	
LABORATORY	
WEGE TO PAY LAB (YES) (NO)	

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX

SITE ACTIVITY LOG

NOTES: 9/27/94

Continued Page

SAMPLE DATA

	ID	LOCATION	DEPTH	TYPE	TIME	TIP
TC2-	15	Tnk Cav base	17'	silt	2:35	OPPm
TC2-	16	Tnk Cav SW	14'	clay	2:40	OPPm

LABORATORY RESULTS

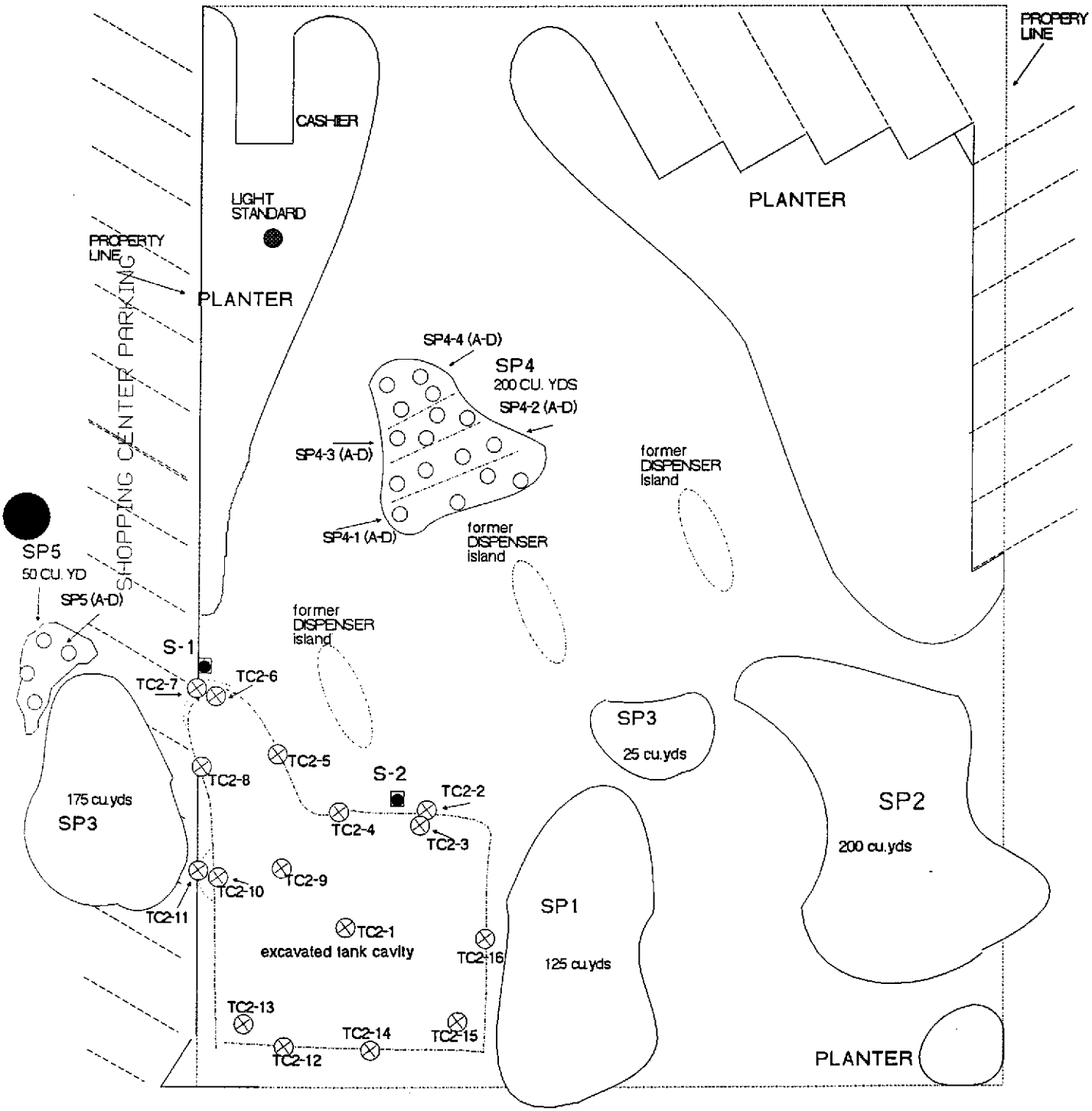
See Table 1 for results

USA GASOLINE CORPORATION
STATION #57
10700 MACARTHUR BLVD.,
OAKLAND,CA

FIGURE 5
9/27/94

SOIL SAMPLING, TANK CAVITY, STOCK-PILED SOIL (2nd EPISODE OF TNK CAV. SMPL)

20' 0' 20'
SCALE IN FEET



SAMPLES TAKEN FROM BASE OF TANK CAVITY: TC2-1, TC2-9, TC2-13, TC2-15

SAMPLES TAKEN FROM SIDEWALLS OF TANK CAVITY: TC2-2, TC2-3, TC2-4, TC2-5, TC2-7, TC2-8, TC2-11, TC2-12, TC2-14, TC2-16

SIDEWALL UNDERCUT - SAMPLES TAKEN

TC2-6 AND TC2-10 TAKEN BUT NOT ANALYZED

APPENDIX A

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH

TANK REMOVAL NOTES

USA GASOLINE CORPORATION
STATION #57

10700 MACARTHUR BLVD.,
OAKLAND, CA.

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# ______ Site Name USA [illegible] Today's Date 7/19/94

Site Address [illegible] EPA ID# ______

City [illegible] Zip 94605 Phone ______

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month?

Inspection Categories:

___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
___ II. Business Plans, Acute Hazardous Materials
___ III. Underground Tanks [illegible]

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

	Item	Code
	___ 1. Waste ID	* 66471
	___ 2. EPA ID	66472
	___ 3. > 90 days	66508
	___ 4. Label dates	66508
	___ 5. Biennial	66493
Manifest	___ 6. Records	66492
	___ 7. Correct	66484
	___ 8. Copy sent	66492
	___ 9. Exception	66484
	___ 10. Copies Rec'd	66492
	___ 11. Treatment	66371
	___ 12. On-site Disp. (H.S.&C.)	26189.5
	___ 13. Ex Haz. Waste	66570
Prevention	___ 14. Communications	67121
	___ 15. Aisle Space	67124
	___ 16. Local Authority	67126
	___ 17. Maintenance	67120
	___ 18. Training	67105
Contin-gency	___ 19. Prepared	67140
	___ 20. Name List	67141
	___ 21. Copies	67141
	___ 22. Emg. Coord. Trng.	67144
Containers, Tanks	___ 23. Condition	67241
	___ 24. Compatibility	67242
	___ 25. Maintenance	67243
	___ 26. Inspection	67244
	___ 27. Buffer Zone	67246
	___ 28. Tank Inspection	67259
	___ 29. Containment	67245
	___ 30. Safe Storage	67261
	___ 31. Freeboard	67257

I.B TRANSPORTER (Title 22)

	Item	Code
	___ 32. Applic./Insurance	66428
	___ 33. Comp. Cert./CHP Insp.	66448
	___ 34. Containers	66465
Manifest	___ 35. Vehicles	66465
	___ 36. EPA ID #s	66531
	___ 37. Correct	66541
	___ 38. HW Delivery	66543
	___ 39. Records	66544
Cont'rs	___ 40. Name/ Covers	66545
	___ 41. Recyclables	66800

/88

Comments:

[illegible]

Tank [illegible]

[illegible] TPH-G [illegible]

[illegible] TPH-D BTEX [illegible]

Contact: ______

Title: [illegible]

Signature: [illegible]

Inspector: [illegible]

Signature: [illegible]

ALAMEDA COUNTY, DEPARTMENT OF

ENVIRONMENTAL HEALTH

Hazardous Materials Division Inspection Form

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Site ID# ______ Site Name [illegible] Today's Date [illegible]

Site Address [illegible] EPA ID# ______

City [illegible] Zip 94[illegible] Phone ______

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month?

Inspection Categories:

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

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

	Item	Code
	___ 1. Waste ID	* 66471
	___ 2. EPA ID	66472
	___ 3. > 90 days	66508
	___ 4. Label dates	66508
	___ 5. Biennial	66493
Manifest	___ 6. Records	66492
	___ 7. Correct	66484
	___ 8. Copy sent	66492
	___ 9. Exception	66484
	___ 10. Copies Rec'd	66492
...c.	___ 11. Treatment	66371
	___ 12. On-site Disp. (H.S.&C.)	26189.5
	___ 13. Ex Haz. Waste	66570
Prevention	___ 14. Communications	67121
	___ 15. Aisle Space	67124
	___ 16. Local Authority	67126
	___ 17. Maintenance	67120
	___ 18. Training	67105
Contingency	___ 19. Prepared	67140
	___ 20. Name List	67141
	___ 21. Copies	67141
	___ 22. Emg. Coord. Trng.	67144
Containers, Tanks	___ 23. Condition	67241
	___ 24. Compatibility	67242
	___ 25. Maintenance	67243
	___ 26. Inspection	67244
	___ 27. Buffer Zone	67246
	___ 28. Tank Inspection	67259
	___ 29. Containment	67245
	___ 30. Safe Storage	67261
	___ 31. Freeboard	67257

I.B TRANSPORTER (Title 22)

	Item	Code
	___ 32. Applic./Insurance	66428
	___ 33. Comp. Cert./CHP Insp.	66448
	___ 34. Containers	66465
Manifest	___ 35. Vehicles	66465
	___ 36. EPA ID #s	66531
	___ 37. Correct	66541
	___ 38. HW Delivery	66543
	___ 39. Records	66544
Cont'rs	___ 40. Name/ Covers	66545
	___ 41. Recyclables	66800

Comments: [illegible]

/88

Contact: ______________

Title: ______________

Signature: ______________

Inspector: ______________

Signature: ______________

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name _____ Today's Date __/__/94

Site Address _____ EPA ID# _____

City _____ Zip 94__ Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month? _____

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

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

	___ 1. Waste ID	* 66471
	___ 2. EPA ID	66472
	___ 3. > 90 days	66508
	___ 4. Label dates	66508
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	___ 10. Copies Rec'd	66492
	___ 11. Treatment	66371
	___ 12. On-site Disp. (H.S.&C.)	26189.5
	___ 13. Ex Haz. Waste	66570
Prevention	___ 14. Communications	67121
	___ 15. Aisle Space	67124
	___ 16. Local Authority	67126
	___ 17. Maintenance	67120
	___ 18. Training	67105
Contin. gency	___ 19. Prepared	67140
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Containers, Tanks	___ 23. Condition	67241
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	___ 25. Maintenance	67243
	___ 26. Inspection	67244
	___ 27. Buffer Zone	67246
	___ 28. Tank Inspection	67259
	___ 29. Containment	67245
	___ 30. Safe Storage	67261
	___ 31. Freeboard	67257

I.B TRANSPORTER (Title 22)

	___ 32. Applic./Insurance	66428
	___ 33. Comp. Cert./CHP Insp.	66448
	___ 34. Containers	66465
Manifest	___ 35. Vehicles	66465
	___ 36. EPA ID #s	66531
	___ 37. Correct	66541
	___ 38. HW Delivery	66543
	___ 39. Records	66544
Cont'rs	___ 40. Name/ Covers	66545
	___ 41. Recyclables	66800

Comments:

Contact: _____

Title: _____ Inspector: _____

Signature: _____ Signature: _____

B1

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name USA [illegible] Today's Date 9/27/94

Site Address [illegible] MacArthur

City Oakland Zip 94 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 [illegible]

* 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 ____

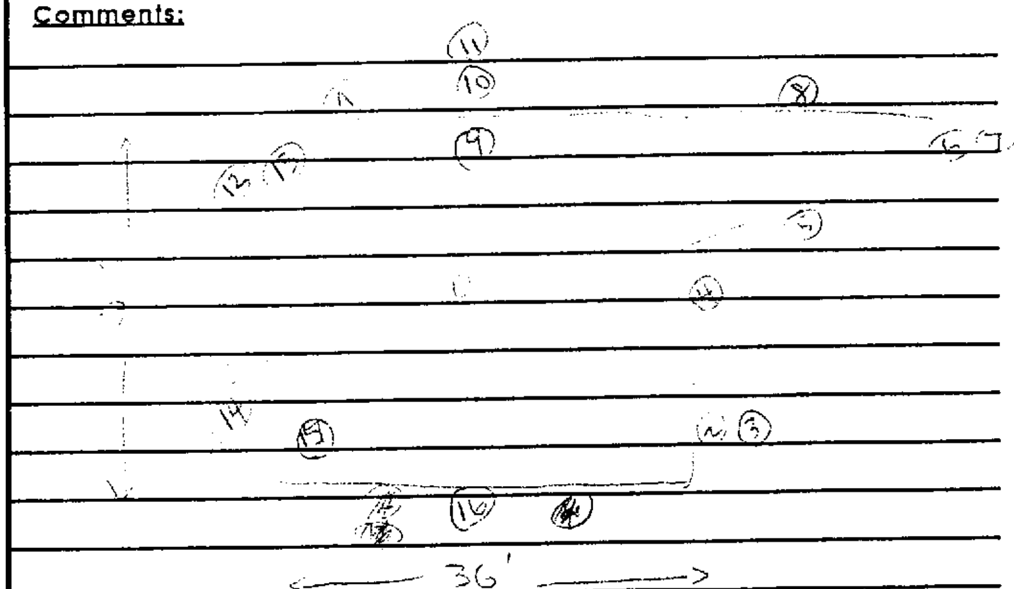
___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

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

Rev 6/88

Comments:



(1) [illegible] at 17' [illegible]
(2) sidewall at 13.5' [illegible] odor some staining
(3) sidewall [illegible] at 16' - no odor sl staining
(4) sidewall at 13' brown silty [illegible] - no odor
(5) sidewall at 12' stained sl-[illegible] odor.
(6) sidewall at 12' stained - strong [illegible] odor
(7) sidewall 2' in from (6) at 12' stained sl-[illegible] odor
(8) sidewall at 12' [illegible] sl. odor

II, III

Contact: ____

Title: [illegible]

Signature: [illegible]

Inspector: [illegible]

Signature: [illegible]

Page 2

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name USA Petroleum Today's Date 9/27/94

Site Address 15700 MacArthur

City Oakland Zip 94 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 [illegible]

* 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

Rev 6/88

Comments:

(9) [illegible] ~ 19' rock, silty clay - mod odor
(10) [illegible] ~ 12' [illegible] silty clay
(11) [illegible] ~ 12' [illegible] 2' [illegible] (10) mod-strong odor
(12) [illegible] ~ 12' [illegible] as (11) - [illegible]
[illegible] contamination [illegible]
[illegible] ~ 12' depth
(13) [illegible] ~ 12' depth - mod odor
(14) [illegible] ~ 19-20' [illegible] odor
(15) [illegible] ~ 11' [illegible] odor
(16) [illegible] ~ 17' - sl odor
(17) [illegible] ~ 14' [illegible] odor

Anal [illegible] 5, 7, + 8 for TPH-G, TPH-D and BTEX
" " [illegible] for TPH-G and BTEX

II, III

Contact: ____
Title: ____
Signature: ____

Inspector: [illegible]
Signature: [illegible]

APPENDIX B

AMERICAN ENVIRONMENTAL NETWORK (AEN)

TANK REMOVAL AND PRODUCT LINE SOIL RESULTS 7/19/94

USA GASOLINE CORPORATION STATION #57

10700 MACARTHUR BLVD., OAKLAND, CA.

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 08/23/94
DATE(S) SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
AEN WORK ORDER: 9407233

P.O. NUMBER: USA #57

PROJECT SUMMARY:

On July 21, 1994, this laboratory received 12 soil sample(s).

Client requested samples be analyzed for inorganic and organic parameters. Per client request, additional organic analysis was added to 2 samples. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

Revision of report dated 08/19/94

WESTERN GEO-ENGINEERING

SAMPLE ID: PI-E 3.5
AEN LAB NO: 9407233-01
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/27/94
Toluene	108-88-3	ND	5	ug/kg	07/27/94
Ethylbenzene	100-41-4	ND	5	ug/kg	07/27/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/27/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	07/27/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	ND	1	mg/kg	07/29/94
Lead	EPA 7420	7 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: PI-2
AEN LAB NO: 9407233-02
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	1000	ug/kg	07/28/94
Toluene	108-88-3	6,000 *	200	ug/kg	07/28/94
Ethylbenzene	100-41-4	60,000 *	200	ug/kg	07/28/94
Xylenes, Total	1330-20-7	440,000 *	200	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	4,500 *	8	mg/kg	07/28/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	ND	50	mg/kg	07/29/94
Lead	EPA 7420	4 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

Reporting limits elevated for Benzene by EPA Method 8020 and Diesel by EPA Method 3550 due to hydrocarbon interference.

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: PI-3
AEN LAB NO: 9407233-03
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/27/94
Toluene	108-88-3	ND	5	ug/kg	07/27/94
Ethylbenzene	100-41-4	ND	5	ug/kg	07/27/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/27/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	07/27/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	ND	1	mg/kg	07/29/94
Lead	EPA 7420	5 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

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WESTERN GEO-ENGINEERING

SAMPLE ID: PI-4
AEN LAB NO: 9407233-04
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/27/94
Toluene	108-88-3	ND	5	ug/kg	07/27/94
Ethylbenzene	100-41-4	ND	5	ug/kg	07/27/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/27/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	07/27/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	ND	1	mg/kg	07/29/94
Lead	EPA 7420	6 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

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WESTERN GEO-ENGINEERING

SAMPLE ID: PI-5
AEN LAB NO: 9407233-05
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/28/94
Toluene	108-88-3	ND	5	ug/kg	07/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	07/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	1	mg/kg	07/28/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	ND	1	mg/kg	07/29/94
Lead	EPA 7420	7 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

Reporting limit elevated for Gasoline by EPA Method 5030 due to matrix effects.

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: TP1
AEN LAB NO: 9407233-06
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/29/94
Toluene	108-88-3	15 *	5	ug/kg	07/29/94
Ethylbenzene	100-41-4	7 *	5	ug/kg	07/29/94
Xylenes, Total	1330-20-7	8 *	5	ug/kg	07/29/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	60 *	1	mg/kg	07/29/94
#Extraction for PNAs	EPA 3550	-		Extrn Date	07/27/94
PNAs by EPA 8270	EPA 8270				
Acenaphthene	83-32-9	ND	200	ug/kg	07/27/94
Acenaphthylene	208-96-8	ND	200	ug/kg	07/27/94
Anthracene	120-12-7	ND	200	ug/kg	07/27/94
Benzo(a)anthracene	56-55-3	ND	200	ug/kg	07/27/94
Benzo(b)fluoranthene	205-99-2	ND	200	ug/kg	07/27/94
Benzo(k)fluoranthene	207-08-9	ND	200	ug/kg	07/27/94
Benzo(g,h,i)perylene	191-24-2	ND	200	ug/kg	07/27/94
Benzo(a)pyrene	50-32-8	ND	200	ug/kg	07/27/94
Chrysene	218-01-9	ND	200	ug/kg	07/27/94
Dibenzo(a,h)anthracene	53-70-3	ND	200	ug/kg	07/27/94
Fluoranthene	206-44-0	ND	200	ug/kg	07/27/94
Fluorene	86-73-7	ND	200	ug/kg	07/27/94
Indeno(1,2,3-cd)pyrene	193-39-5	ND	200	ug/kg	07/27/94
Naphthalene	91-20-3	ND	200	ug/kg	07/27/94
Phenanthrene	85-01-8	ND	200	ug/kg	07/27/94
Pyrene	129-00-0	ND	200	ug/kg	07/27/94

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: TP2
AEN LAB NO: 9407233-07
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	1000	ug/kg	07/28/94
Toluene	108-88-3	790 *	200	ug/kg	07/28/94
Ethylbenzene	100-41-4	2,200 *	200	ug/kg	07/28/94
Xylenes, Total	1330-20-7	700 *	200	ug/kg	07/28/94
#Extraction for TPH	EPA 3550	-		Extrn Date	07/27/94
TPH as Diesel	GC-FID	230 *	1	mg/kg	07/29/94
VOCs in Soil by 8240	EPA 8240				
Acetone	67-64-1	ND	500	ug/kg	08/11/94
Benzene	71-43-2	ND	30	ug/kg	08/11/94
Bromodichloromethane	75-27-4	ND	30	ug/kg	08/11/94
Bromoform	75-25-2	ND	30	ug/kg	08/11/94
Bromomethane	74-83-9	ND	50	ug/kg	08/11/94
2-Butanone	78-93-3	ND	500	ug/kg	08/11/94
Carbon Disulfide	75-15-0	ND	50	ug/kg	08/11/94
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	08/11/94
Chlorobenzene	108-90-7	ND	30	ug/kg	08/11/94
Chloroethane	75-00-3	ND	50	ug/kg	08/11/94
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	08/11/94
Chloroform	67-66-3	ND	30	ug/kg	08/11/94
Chloromethane	74-87-3	ND	50	ug/kg	08/11/94
Dibromochloromethane	124-48-1	ND	30	ug/kg	08/11/94
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	08/11/94
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	08/11/94
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	08/11/94
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	08/11/94
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	08/11/94
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	08/11/94
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	08/11/94
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	08/11/94
Ethylbenzene	100-41-4	460 *	10	ug/kg	08/11/94
2-Hexanone	591-78-6	ND	300	ug/kg	08/11/94
Methylene Chloride	75-09-2	ND	30	ug/kg	08/11/94
4-Methyl-2-pentanone	108-10-1	ND	300	ug/kg	08/11/94
Styrene	100-42-5	ND	30	ug/kg	08/11/94
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	08/11/94
Tetrachloroethene	127-18-4	ND	30	ug/kg	08/11/94
Toluene	108-88-3	ND	30	ug/kg	08/11/94
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	08/11/94

WESTERN GEO-ENGINEERING

SAMPLE ID: TP2
AEN LAB NO: 9407233-07
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	08/11/94
Trichloroethene	79-01-6	ND	30	ug/kg	08/11/94
Vinyl Acetate	108-05-4	ND	300	ug/kg	08/11/94
Vinyl Chloride	75-01-4	ND	50	ug/kg	08/11/94
Xylenes Total	1330-20-7	220 *	20	ug/kg	08/11/94
#Extraction for PNAs	EPA 3550	-		Extrn Date	07/27/94
PNAs by EPA 8270	EPA 8270				
Acenaphthene	83-32-9	ND	200	ug/kg	07/27/94
Acenaphthylene	208-96-8	ND	200	ug/kg	07/27/94
Anthracene	120-12-7	ND	200	ug/kg	07/27/94
Benzo(a)anthracene	56-55-3	ND	200	ug/kg	07/27/94
Benzo(b)fluoranthene	205-99-2	ND	200	ug/kg	07/27/94
Benzo(k)fluoranthene	207-08-9	ND	200	ug/kg	07/27/94
Benzo(g,h,i)perylene	191-24-2	ND	200	ug/kg	07/27/94
Benzo(a)pyrene	50-32-8	ND	200	ug/kg	07/27/94
Chrysene	218-01-9	ND	200	ug/kg	07/27/94
Dibenzo(a,h)anthracene	53-70-3	ND	200	ug/kg	07/27/94
Fluoranthene	206-44-0	ND	200	ug/kg	07/27/94
Fluorene	86-73-7	ND	200	ug/kg	07/27/94
Indeno(1,2,3-cd)pyrene	193-39-5	ND	200	ug/kg	07/27/94
Naphthalene	91-20-3	770 *	200	ug/kg	07/27/94
Phenanthrene	85-01-8	ND	200	ug/kg	07/27/94
Pyrene	129-00-0	ND	200	ug/kg	07/27/94

Reporting limit elevated for Benzene by EPA Method 8020 due to hydrocarbon interference. Reporting limits for 8240 compounds = MDL x Dilution factor.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TP3
AEN LAB NO: 9407233-08
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	180 *	5	ug/kg	07/28/94
Toluene	108-88-3	250 *	5	ug/kg	07/28/94
Ethylbenzene	100-41-4	1,000 *	5	ug/kg	07/28/94
Xylenes, Total	1330-20-7	5,900 *	5	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	94 *	0.2	mg/kg	07/28/94
Lead	EPA 7420	3 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: TP4
AEN LAB NO: 9407233-09
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	1,900 *	5	ug/kg	07/28/94
Toluene	108-88-3	3,500 *	5	ug/kg	07/28/94
Ethylbenzene	100-41-4	12,000 *	5	ug/kg	07/28/94
Xylenes, Total	1330-20-7	150,000 *	5	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	1,400 *	0.2	mg/kg	07/28/94
Lead	EPA 7420	4 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: TP5
AEN LAB NO: 9407233-10
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	500	ug/kg	07/28/94
Toluene	108-88-3	740 *	100	ug/kg	07/28/94
Ethylbenzene	100-41-4	4,800 *	100	ug/kg	07/28/94
Xylenes, Total	1330-20-7	20,000 *	100	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	300 *	4	mg/kg	07/28/94
Lead	EPA 7420	3 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94
VOCs in Soil by 8240	EPA 8240				
Acetone	67-64-1	ND	1000	ug/kg	08/13/94
Benzene	71-43-2	ND	50	ug/kg	08/13/94
Bromodichloromethane	75-27-4	ND	50	ug/kg	08/13/94
Bromoform	75-25-2	ND	50	ug/kg	08/13/94
Bromomethane	74-83-9	ND	100	ug/kg	08/13/94
2-Butanone	78-93-3	ND	1000	ug/kg	08/13/94
Carbon Disulfide	75-15-0	ND	100	ug/kg	08/13/94
Carbon Tetrachloride	56-23-5	ND	50	ug/kg	08/13/94
Chlorobenzene	108-90-7	ND	50	ug/kg	08/13/94
Chloroethane	75-00-3	ND	100	ug/kg	08/13/94
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/kg	08/13/94
Chloroform	67-66-3	ND	50	ug/kg	08/13/94
Chloromethane	74-87-3	ND	100	ug/kg	08/13/94
Dibromochloromethane	124-48-1	ND	50	ug/kg	08/13/94
1,1-Dichloroethane	75-43-3	ND	50	ug/kg	08/13/94
1,2-Dichloroethane	107-06-2	ND	50	ug/kg	08/13/94
1,1-Dichloroethene	75-35-4	ND	50	ug/kg	08/13/94
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/kg	08/13/94
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/kg	08/13/94
1,2-Dichloropropane	78-87-5	ND	50	ug/kg	08/13/94
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/kg	08/13/94
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/kg	08/13/94
Ethylbenzene	100-41-4	5,800 *	100	ug/kg	08/13/94
2-Hexanone	591-78-6	ND	500	ug/kg	08/13/94
Methylene Chloride	75-09-2	ND	50	ug/kg	08/13/94
4-Methyl-2-pentanone	108-10-1	ND	500	ug/kg	08/13/94
Styrene	100-42-5	ND	50	ug/kg	08/13/94
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/kg	08/13/94
Tetrachloroethene	127-18-4	ND	50	ug/kg	08/13/94
Toluene	108-88-3	ND	50	ug/kg	08/13/94

WESTERN GEO-ENGINEERING

SAMPLE ID: TP5
AEN LAB NO: 9407233-10
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,1,1-Trichloroethane	71-55-6	ND	50	ug/kg	08/13/94
1,1,2-Trichloroethane	79-00-5	ND	50	ug/kg	08/13/94
Trichloroethene	79-01-6	ND	50	ug/kg	08/13/94
Vinyl Acetate	108-05-4	ND	500	ug/kg	08/13/94
Vinyl Chloride	75-01-4	ND	100	ug/kg	08/13/94
Xylenes Total	1330-20-7	19,000 *	200	ug/kg	08/13/94

Reporting limit elevated for Benzene by EPA Method 8020 due to hydrocarbon interference. Reporting limits for 8240 compounds = MDL x Dilution factor.

ND = Not detected at or above the reporting limit
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WESTERN GEO-ENGINEERING

SAMPLE ID: TP6
AEN LAB NO: 9407233-11
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/28/94
Toluene	108-88-3	ND	5	ug/kg	07/28/94
Ethylbenzene	100-41-4	6 *	5	ug/kg	07/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	0.7 *	0.2	mg/kg	07/28/94
Lead	EPA 7420	3 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TP7
AEN LAB NO: 9407233-12
AEN WORK ORDER: 9407233
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 07/19/94
DATE RECEIVED: 07/21/94
REPORT DATE: 08/23/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	07/28/94
Toluene	108-88-3	ND	5	ug/kg	07/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	07/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	07/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	07/28/94
Lead	EPA 7420	3 *	3	mg/kg	07/27/94
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	07/24/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9407233

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

Sample PI-2 (9407233-02) showed surrogate recovery outside QC limits due to matrix interference for EPA Method 3550 GCFID.

All other laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE EXTRACTED: 07/27/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
07/29/94	PI-E 3.5	01	65
07/29/94	PI-2	02	*
07/29/94	PI-3	03	61
07/29/94	PI-4	04	70
07/29/94	PI-5	05	64
07/29/94	TP1	06	56
07/29/94	TP2	07	104

* Surrogate recovery outside of QC limits due to matrix interference

Current QC Limits

Surrogate	Percent Recovery
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE EXTRACTED: 07/26/94
DATE ANALYZED: 07/26/94
SAMPLE SPIKED: 9407272-03
INSTRUMENT: C
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	41.7	82	2	44-108	13

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9407233
INSTRUMENT: H,F
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
07/27/94	PI-E 3.5	01	100
07/28/94	PI-2	02	84
07/27/94	PI-3	03	100
07/27/94	PI-4	04	100
07/28/94	PI-5	05	100
07/29/94	TP1	06	101
07/28/94	TP2	07	96
07/28/94	TP3	08	99
07/28/94	TP4	09	95
07/28/94	TP5	10	96
07/28/94	TP6	11	98
07/28/94	TP7	12	99

Current QC Limits

Surrogate	Percent Recovery
Fluorobenzene	78-114

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE ANALYZED: 07/27/94
SAMPLE SPIKED: LCS
INSTRUMENT: H
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Percent Recovery
Benzene	19.6	89
Toluene	72.9	90
Hydrocarbons as Gasoline	1000	90

Current QC Limits

Analyte	Percent Recovery
Benzene	65-122
Toluene	67-124
Gasoline	60-125

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9407233
INSTRUMENT: 12
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8240

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	p-Bromofluorobenzene
08/11/94	TP2	07	82	110	103
08/13/94	TP5	10	107	113	108

Current QC Limits

Surrogate	Percent Recovery
1,2-Dichloroethane-d4	68-141
Toluene-d8	89-119
p-Bromofluorobenzene	85-112

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE ANALYZED: 08/09/94
SAMPLE SPIKED: 9407298-10
INSTRUMENT: 12
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 8240

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD
1,1-Dichloroethene	50.0	140	3
Trichloroethene	50.0	102	6
Benzene	50.0	105	6
Toluene	50.0	97	<1
Chlorobenzene	50.0	98	6

Current QC Limits

Analyte	Percent Recovery	RPD
1,1-Dichloroethene	66-143	15
Trichloroethene	60-127	12
Benzene	88-117	10
Toluene	70-126	14
Chlorobenzene	89-111	13

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE EXTRACTED: 07/27/94
INSTRUMENT: 11
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8270

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	Nitro-benzene-d_5	2-Fluoro-biphenyl	Terphenyl-d_{14}	Phenol-d_5	2-Fluoro-phenol	2,4,6-Tribromo-phenol
07/27/94	TP1	06	61	78	76	62	64	78
07/27/94	TP2	07	73	93	87	71	76	104

Current QC Limits

Surrogate	Percent Recovery
Nitrobenzene-d_5	23-120
2-Fluorobiphenyl	30-115
Terphenyl-d_{14}	18-137
Phenol-d_5	24-113
2-Fluorophenol	25-121
2,4,6-Tribromophenol	19-122

QUALITY CONTROL DATA

AEN JOB NO: 9407233
DATE EXTRACTED: 07/22/94
DATE ANALYZED: 07/26/94
SAMPLE SPIKED: 9407256-03
INSTRUMENT: 11
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 8270

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD
Phenol	3330	62	20
2-Chlorophenol	3330	47	25
1,4-Dichlorobenzene	3400	55	2
N-Nitroso-di-n-propylamine	3320	60	16
1,2,4-Trichlorobenzene	3330	58	10
4-Chloro-3-methylphenol	3270	76	3
Acenaphthene	3330	72	<1
4-Nitrophenol	3300	56	5
2,4-Dinitrotoluene	3330	58	3
Pentachlorophenol	3380	68	9
Pyrene	3320	79	<1

Current QC Limits

Analyte	Percent Recovery	RPD
Phenol	26- 90	35
2-Chlorophenol	25-102	50
1,4-Dichlorobenzene	28-104	27
4-Nitroso-di-n-propylamine	41-126	38
1,2,4-Trichlorobenzene	38-107	23
4-Chloro-3-methylphenol	26-103	33
Acenaphthene	31-137	19
4-Nitrophenol	11-114	50
2,4-Dinitrotoluene	28- 89	47
Pentachlorophenol	17-109	47
Pyrene	35-142	36

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9407233
SAMPLE SPIKED: SAND
DATE ANALYZED: 07/27/94
MATRIX: SOIL

Method Spike Recovery Summary

Analyte	Inst./ Method	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits % Rec. Limit	QC Limits RPD Limit
Pb, Lead	V22/7420	50	98	2	75-125	20

Daily method blanks for all associated runs showed no contamination over the reporting limit.

*** END OF REPORT ***

R-4, 5-6

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN 9407233

Page 1 of 1

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Reporting Information:

1. Client: USA Gasoline Corp
Address: 30101 Agoura Ct, Ste 200 Agoura Hills, CA 91301
Contact: Srikanth Dasappa
Alt. Contact:

Address Report To:

2. Western Geo-Engineers
1386 E. Beamer St.
Woodland, CA 95776
Attn: Vern Bennett

Send Invoice To:

3. Same As #1

Lab Job Number: USA #57
Lab Destination:
Date Samples Shipped:
Lab Contact: Robin Byars
Date Results Required: 7/29/94
Date Report Required: 7/31/94
Client Phone No.: (916) 668-5300
Client FAX No.: (916) 662-0273

Send Report To: 1 or (2) (Circle one)

Client P.O. No.: USA #57 Client Project I.D. No.: USA #57

Sample Team Member (s) Vern Bennett

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	TPH G BTEX	TPH D	BTEX	Pb 7420	8270 - PNAs	8240					Comments / Hazards
01A	PI-E 3.5		7/19/94 1:3	8, Soil		1	Brass	X	X		X							Please FAX
02A	PI-2		1:45					X	X		X							Normal TAT
03A	PI-3		2:15					X	X		X							
04A	PI-4		2:35					X	X		X							08/03/94 Per Verne
05A	PI-5		5:45					X	X		X							Bennett, pls. add
06A	TP1		3:15						X	X		X						8240 analysis (to
07A	TP2		3:25						X	X		X	✓					confirm presence /absence
08A	TP3		4:45					X			X							of benzene) to samples
09A	TP4		4:50					X			X							TP2 and TP5. A std.
10A	TP5		5:00					X			X		✓					TAT is requested.
11A	TP6		5:10					X			X							VRS
12A	TP7		5:15					X			X							

Relinquished by: (Signature) Vern Bennett	DATE 7/21/94	TIME 1200	Received by: (Signature) [signature]	DATE 7/21/94	TIME 1200
Relinquished by: (Signature) [signature]	DATE 7/21/94	TIME 1700	Received by: (Signature) Lisa L. Pruitt	DATE 7-21-94	TIME 1700
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Method of Shipment			Lab Comments		

*Sample type (Specify): 1) 37mm 0.8 μm MCEF 2) 25mm 0.8 μm MCEF 3) 25mm 0.4 μm polycarb. filter 4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water (8) Soil) 9) Bulk Sample 10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

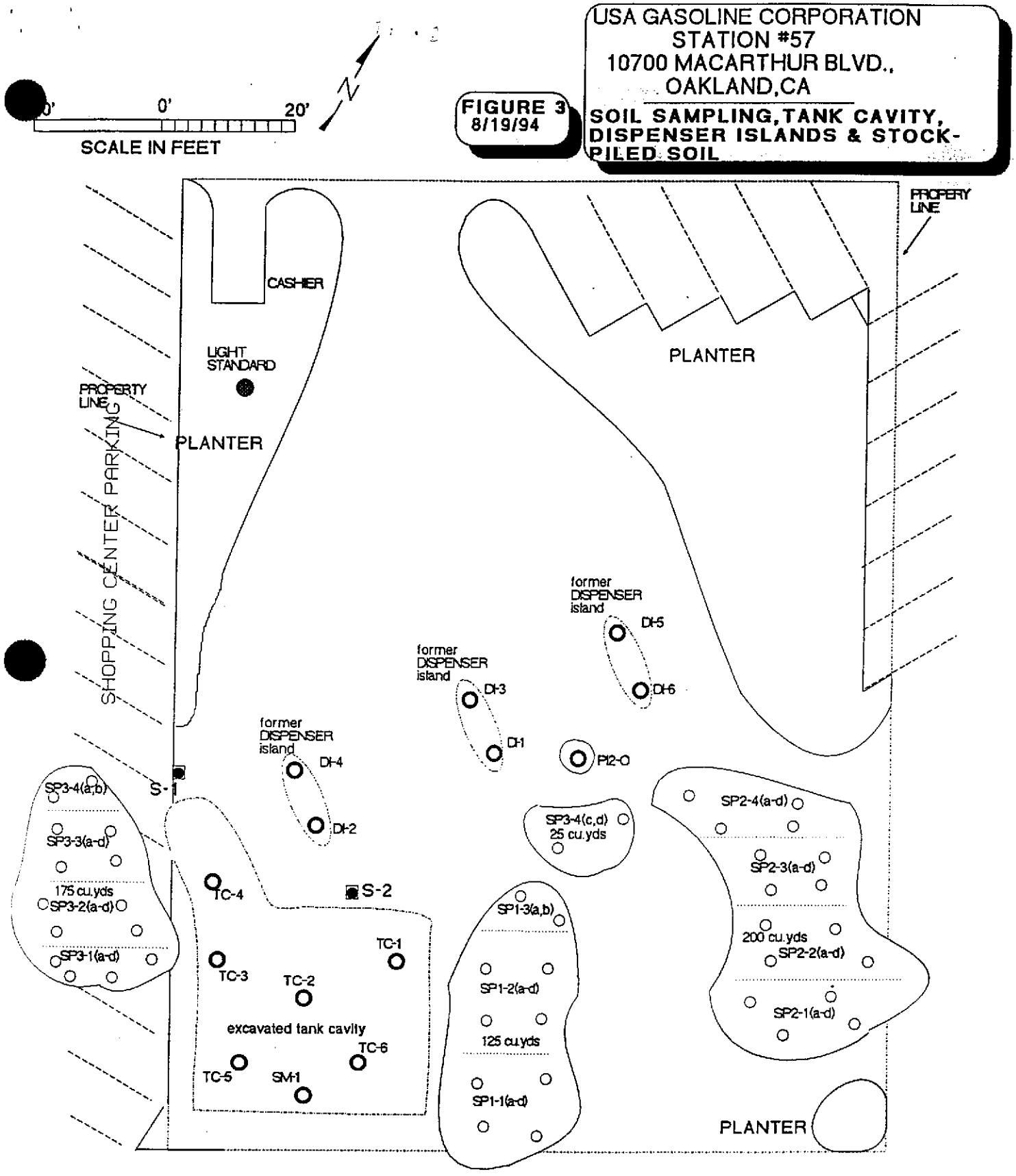
APPENDIX C

LIMITED OVEREXCAVATION

FIELD NOTES AND SITE MAP
8/19/94

USA GASOLINE CORPORATION
STATION #57

10700 MACARTHUR BLVD.,
OAKLAND, CA.

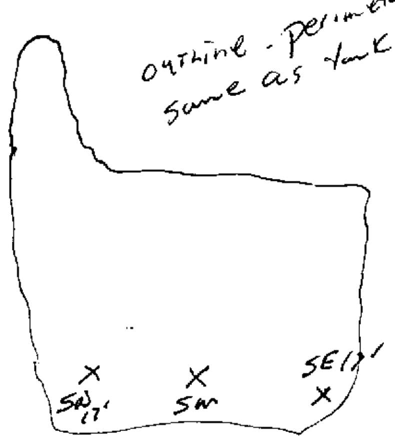

0'
0'
20'
SCALE IN FEET
N
USA GASOLINE CORPORATION
STATION #57
10700 MACARTHUR BLVD.,
OAKLAND,CA
FIGURE 3
8/19/94
SOIL SAMPLING, TANK CAVITY, DISPENSER ISLANDS & STOCK-PILED SOIL
PROPERTY LINE
CASHIER
LIGHT STANDARD
PROPERTY LINE
PLANTER
SHOPPING CENTER PARKING
PLANTER
former DISPENSER island
DI-5
DI-6
former DISPENSER island
DI-3
DI-1
former DISPENSER island
DI-4
DI-2
PI2-O
S-1
SP3-4(a,b)
SP3-3(a-d)
175 cu.yds
SP3-2(a-d)
SP3-1(a-d)
TC-4
S-2
TC-1
TC-3
TC-2
excavated tank cavity
TC-6
TC-5
SM-1
SP3-4(c,d)
25 cu.yds
SP1-3(a,b)
SP1-2(a-d)
125 cu.yds
SP1-1(a-d)
SP2-4(a-d)
SP2-3(a-d)
200 cu.yds
SP2-2(a-d)
SP2-1(a-d)
PLANTER

WEGE
WESTERN GEO-ENGINEERS

1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. ;T ;R ; B&M	
JOB DESCRIPTION	overexcavation
LOCATION	USA #57
ADDRESS	10700 MacArthur Blvd
CITY	Oakland STATE CA
COUNTY	Alameda
CLIENT	USA Gasoline Corp
ADDRESS	30100 Agoura Ct, Ste #
CITY	Agoura Hills STATE CA ZIP
PHONE	(818) 865-9200 FAX (818) 865-0092
CLIENT REP.	Srikanth Dasappa
WORK PERFORMED BY	V. Bennett
DATE	8/16/94
LEAVE OFFICE	11:45
ARRIVE SITE	2:00
MILEAGE	
LEAVE SITE	5:30
ARRIVE OFFICE	6:00
MILEAGE	
#SOIL SAMP.	1
#WATER SAMP.	
LABORATORY	AEN
WEGE TO PAY LAB (YES) (NO)	

SITE MAP



APPROX. SCALE not to scale

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
N/A				

SITE ACTIVITY LOG	NOTES:
2:00 - 3:00	Assess site, make phone call - USA
~~3:00 - 4:30~~	Tank cavity, south end - 2 places ½ end of T.F. cleaned to 16'
3:00 - 4:00	excav. to find GW — depth reached 19.5' let stand
4:00 - 4:30	Paige excav. secured site for day, PE left for eve 4:30
4:30 - 5:30	logged tank cavity, search wells offsite
	Field Readings + observ.
	16' — clayey SU - avg. 1:14 fine sd — PID
	SE corner - 17' base silty w/clay lenses 300 ppm dry
2x3 — let 19.5' hole stand overnight - to check for water entry — CAP not?	SM - 17' base silt 200 ppm dry
	SW corner - 17' base sdy silt 500 ppm moist
	SM - 18' base gray-green mottled clay 200 ppm moist
	SM - 18.5' " blue gray clay indurated w/ fine sd 50 ppm dry
	SM - ?.0 silty clay 70 ppm dry
	SM - 19.5 lean clay w/ some sd 50 ppm dry

SAMPLE DATA

ID	LOCATION	DEPTH	TYPE	TIME	TIP
SM-1	Southend - Middle	19.5	handy	4:05	logger

Tank Cavity

LABORATORY RESULTS

WEGE Western Geo-Engineers
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. ;T ;R ; B&M
JOB DESCRIPTION continues invest. soil pile sampling
LOCATION
ADDRESS
CITY STATE
COUNTY
CLIENT
ADDRESS
CITY STATE ZIP
PHONE FAX
CLIENT REP.

WORK PERFORMED BY Vern Bennett
DATE 8/19/94
LEAVE OFFICE
ARRIVE SITE
MILEAGE
LEAVE SITE
ARRIVE OFFICE
MILEAGE
#SOIL SAMP.
#WATER SAMP.
LABORATORY
WEGE TO PAY LAB (YES) (NO)

SITE MAP

See Figure encl.

APPROX. SCALE

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
N/A				

SITE ACTIVITY LOG	NOTES:
6:00 – 8:30	≈525 cubic yards of stockpiled soil.
	3 soil piles; SP1, SP2 + SP3 — 125 yds³, 200 yds³, 200 yds³
	Excavated soil sampled per BAAQ recommendations ... 1 composite per 50 cubic yards
	Analysis was for TPH, G – BTEX

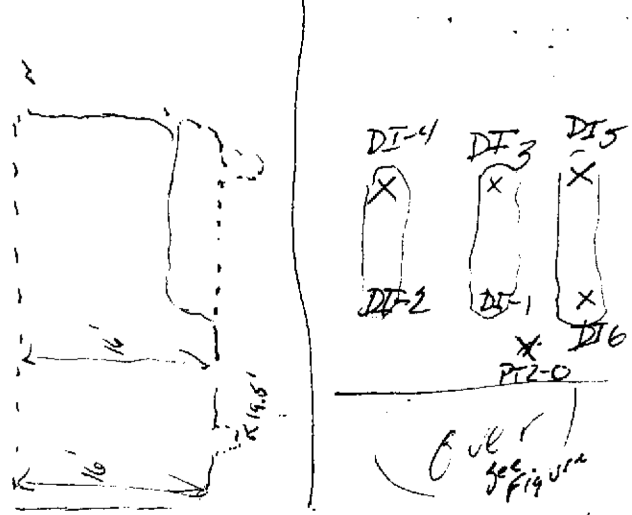
SAMPLE DATA / LABORATORY RESULTS

	ID	LOCATION	DEPTH	TYPE	TIME	TIP	TPH,G	BTEX	(See Table 1)		
SP1-1	A-D	SP1	6' up 2' in	–	7:30						
SP1-2	A-D	SP1	|	–	7:35						
SP1-3	A,B	SP1	|	–	7:40						
SP2-1	A-D	SP2	5' up 1½' in	–	6:30						
SP2-2	A-D	SP2	| |	–	6:35						
SP2-3	A-D	SP2	| |	–	6:40						
SP2-4	A-D	SP2	| |	–	6:45						
SP3-1	A-D	SP3	6' up 2' in	–	8:00						
SP3-2	A-D	SP3	| |	–	8:05						
SP3-3	A-D	SP3	| |		8:10						
SP3-4	A-D	SP3	| |	–	8:15						

WEGE WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. ;T ;R ; B&M	
JOB DESCRIPTION	overexcavation
LOCATION	USA #57
ADDRESS	10700 MacArthur Blvd.
CITY	Oakland STATE CA
COUNTY	Alameda
CLIENT	USA Gasoline Corp.
ADDRESS	30102 Agoura Road, Ste
CITY	Agoura Hills STATE CA ZIP
PHONE	(818) 865-9200 FAX (818) 865-0092
CLIENT REP.	Skikanth Dasappa
WORK PERFORMED BY	Leon Besnev
DATE	8/19/94
LEAVE OFFICE	6:45 Am
ARRIVE SITE	7:00 Am
MILEAGE	
LEAVE SITE	8:30 Pm
ARRIVE OFFICE	10:00 Pm
MILEAGE	
#SOIL SAMP.	25
#WATER SAMP.	
LABORATORY	AEN
WEGE TO PAY LAB (YES) (NO)	NO

SITE MAP



APPROX. SCALE — not to scale, tank pull

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
Alameda Co. Env. Hea.	Ms. Eva Chu	1131 Harbor Bay Parkway, Alameda, CA 94502	(510) 567-6700	(510) 337-9335

SITE ACTIVITY LOG	NOTES:
6:45-7:00	Mob to site from shop
7:00-12:30	excavate to 16', North Half of Tank Cavity
12:30-1:00	Lunch
1:00-2:00	Finish excavation, Tank Cavity (Diesel UST portion of tank cav.) to 14½'
2:00-3:00	Excavate out Dispenser Islands Ala. Co. or
3:00-5:30	Sample Tank Cavity + Dispenser Islands under Ms. Eva Chu's direction
5:30-6:00	Fence + secure site
6:00-8:30	Sample 525 cubic yds of stockpiled soil – 3 separate stockpiles, 11 composite samples
	* (local perched water in soil lenses was excavated out @ approx 12' while excavating)
	Tank Cavity, 7 samples; Dispenser Islands, 6 samples, 1 on 8/18 + 6 on 8/19; Soil pile samples, 11 samples, composited
	Analysis per Ala. Co. recommend; TC3 + TC4 – TPH G+D BTEX, all other samples – TPH G BTEX

TC3-4 TPH G,D BTEX
All res. TPH G BTEX

SAMPLE DATA

ID	LOCATION	DEPTH	TYPE	TIME	TIP
TC-1	center	16'	Clay	3:05	325
TC-2	NE corner	16'	Silty clay	3:10	5 ppm
TC3	NW corner	17½'	Silty cl	3:20	325 ppm
TC4	mid Dies	15½'	Silty	3:50	70 ppm
TC5	SW corn	17'	clay	4:10	130 ppm
TC6	SE corner	18'	clay	4:20	0 ppm
DI-1	Mid-south	Silt	3.5'	4:40	200 ppm
DI-2	West-south	Silty clay	3.5'	4:45	120 ppm
DI-3	Mid-North	Silt	3'	4:50	–
DI-4	West-north	Silty clay	3'	4:55	–
DI-5	East-north	Clay	3.5	4:56	10 ppm
DI-6	East-so	Silt	3.5	5:30	100
PT2-O	over ex PT2	Clay	9'	?	7 ppm

Dispenser Islands

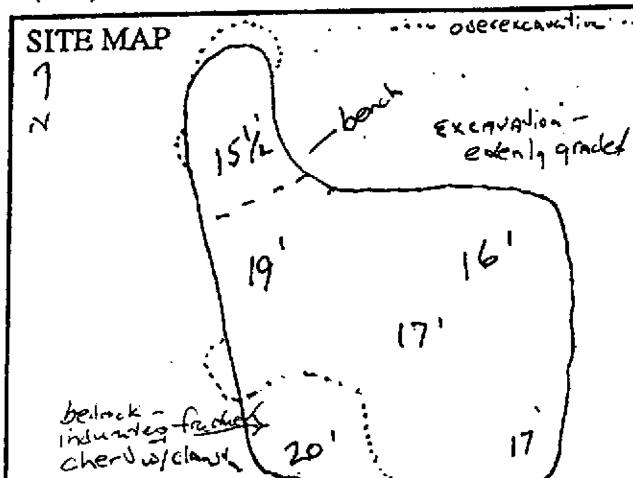
LABORATORY RESULTS

WEGE WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. 24; T 2S ; R 3W ; MD B&M
JOB DESCRIPTION overexcavation soil sampling
LOCATION USA Gasoline Corp. Sta #57
ADDRESS 10700 MacArthur BLVD.
CITY Oakland STATE CA
COUNTY Alameda
CLIENT USA Gasoline Corp
ADDRESS 30101 Agoura Court Ste 200
CITY Agoura Hills STATE CA ZIP 91301
PHONE (818) 865-9200 FAX (818) 865-0092
CLIENT REP. Seiguyh Dasgupta

WORK PERFORMED BY Vern Bennett
DATE 9/27/94
LEAVE OFFICE 9:00 AM
ARRIVE SITE 11:00 AM
MILEAGE 90 mi.
LEAVE SITE 5:45 PM
ARRIVE OFFICE 8:15 PM
MILEAGE 90 mi.
#SOIL SAMP. ~~15~~ 21
#WATER SAMP. N/A
LABORATORY AEN
WEGE TO PAY LAB (YES) (NO)

SITE MAP



see Figure 5 for detailed depiction of sampling

APPROX. SCALE
NO scale

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX
Alameda Co. Environ Health	Ms. Eva Chu	1131 Harbor Bay Parkway Alameda, CA 94502	(510) 567-6700	(510) 337-9335

SITE ACTIVITY LOG	NOTES:
11:00-11:30	Recon site w/ Joe Madison - prepare to sample
11:30 - 11:45	Alameda County (Ms. Eva Chu) arrives, go over site and plans for sampling
11:45 - 2:30	sample under direction of Eva Chu Tank cavity and sidewalls of overexcavation. Tank cavity was evenly overexcavation - all sidewalls except NE wall of main cavity was taken back 1'-2', the base was excavated & evenly graded as shown above. 4 soil samples of base & 10 samples of sidewalls were taken - minor overexcavation of sidewalls were done 9/27. Co. leaves
2:30 - 2:45	Secure site w/ Joe Madison - Joe leaves
2:45 - 5:45	Sample soil pile ± 350 cubic yards
	775 cubic yards of soil generated from Tank Pull & 2 overexc. episodes

SAMPLE DATA

ID	LOCATION	DEPTH	TYPE	TIME	TIP
TC2-1	Tnk cav base	17'	silty clay	11:45	0 ppm
TC2-2	Tnk cav SW	13'	[illegible]	12:00	35 ppm
TC2-3	Tnk cav SW	16'	gravelly silt	12:30	0 ppm
TC2-4	Tnk cav SW	13'	silt	12:45	0 ppm
TC2-5	Tnk cav SW	12'	silty clay	1:00	7 ppm
TC2-7	Tnk cav SW	13'	[illegible]	1:25	20 ppm
TC2-8	Tnk cav SW	13'	[illegible] clay	1:30	0 ppm
TC2-9	Tnk cav base	19'	gray brn clay	1:40	20 ppm
TC2-11	Tnk cav SW	13'	brn silt	2:00	150 ppm
TC2-12	Tnk cav SW	12'	silty clay	2:10	20 ppm
TC2-13	Tnk cav base	20'	[illegible]	2:15	40 ppm

LABORATORY RESULTS
for soil results see Table 1

WEGE WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

SEC. ;T ;R ; B&M
JOB DESCRIPTION

LOCATION
ADDRESS
CITY STATE
COUNTY
CLIENT
ADDRESS
CITY STATE ZIP
PHONE FAX
CLIENT REP.

WORK PERFORMED BY
DATE
LEAVE OFFICE
ARRIVE SITE
MILEAGE
LEAVE SITE
ARRIVE OFFICE
MILEAGE
#SOIL SAMP.
#WATER SAMP.
LABORATORY
WEGE TO PAY LAB (YES) (NO)

SITE MAP

APPROX. SCALE

GOV. AGENCY	REP. NAME	ADDRESS	PHONE	FAX

SITE ACTIVITY LOG

NOTES: 9/27/94

Continued Page

SAMPLE DATA

	ID	LOCATION	DEPTH	TYPE	TIME	TIP
TC2-	15	Tk Cav base	17'	silt	2:35	OPPm
TC2-	16	Tk Cav SW	14'	clay	2:40	OPPm

LABORATORY RESULTS

See Table 1 for results

APPENDIX D

REGULATORY RESPONSE LETTER

8/19/94

USA GASOLINE CORPORATION
STATION #57

10700 MACARTHUR BLVD.,
OAKLAND, CA.

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

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

StID 4490

August 16, 1994

Mr. Vern Bennett
Western Geo-Engineers
1386 East Beamer St
Woodland, CA 95776-6003

RE: Workplan Approval for 10700 MacArthur Blvd, Oakland 94605

Dear Mr. Bennett:

I have completed review of Western Geo-Engineers' August 1994 Limited Overexcavation proposal for the above referenced site. The proposal to overexcavate and sample the perimeter and base of the tank pit, and to collect soil samples from the dispenser islands is acceptable. Field work should commence by **October 5, 1994.**

Soil analysis of PI-2, along the product line, exhibited elevated levels of petroleum hydrocarbons (4,500 ppm TPH-G, and 440 ppm xylenes). This area should also be overexcavated at that time.

Please notify this office at least 72 hours prior to the start of field work. A representative from this office must be present to witness the sampling. If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

cc: Srikanth Dasappa, USA Gasoline, 30101 Agoura Ct, Suite 200, Agoura Hills, CA 91301
Jay Phares Corp, 10700 MacArthur, Suite 200, Oakland 94605
files

usapetro.1

APPENDIX E

AMERICAN ENVIRONMENTAL NETWORK (AEN)

OVEREXCAVATION AND DISPENSER ISLAND SOIL RESULTS 8/19/94

USA GASOLINE CORPORATION STATION #57

10700 MACARTHUR BLVD., OAKLAND, CA.

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 09/06/94

DATE(S) SAMPLED: 08/18/94-08/19/94

DATE RECEIVED: 08/22/94

AEN WORK ORDER: 9408283

PROJECT SUMMARY:

On August 22, 1994, this laboratory received 7 soil sample(s).

Client requested samples be analyzed for organic parameters. Sample identifications, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

WESTERN GEO-ENGINEERING

SAMPLE ID: SM-1
AEN LAB NO: 9408283-01
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/18/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	08/22/94
Toluene	108-88-3	ND	5	ug/kg	08/22/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/22/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/22/94
Purgeable HCs as Gasoline	5030/GCFID	0.4 *	0.2	mg/kg	08/22/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-1
AEN LAB NO: 9408283-02
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	08/22/94
Toluene	108-88-3	ND	5	ug/kg	08/22/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/22/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/22/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	08/22/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-2
AEN LAB NO: 9408283-03
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	10	ug/kg	08/23/94
Toluene	108-88-3	280 *	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	630 *	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	3,100 *	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	93 *	0.2	mg/kg	08/23/94

Reporting limit elevated for benzene due to high levels of target compounds.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-3
AEN LAB NO: 9408283-04
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	8 *	5	ug/kg	08/22/94
Toluene	108-88-3	20 *	5	ug/kg	08/22/94
Ethylbenzene	100-41-4	20 *	5	ug/kg	08/22/94
Xylenes, Total	1330-20-7	110 *	5	ug/kg	08/22/94
Purgeable HCs as Gasoline	5030/GCFID	2.4 *	0.2	mg/kg	08/22/94
#Extraction for TPH	EPA 3550	-		Extrn Date	08/22/94
TPH as Diesel	GC-FID	1 *	1	mg/kg	08/23/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-4
AEN LAB NO: 9408283-05
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	08/23/94
Toluene	108-88-3	ND	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	0.7 *	0.2	mg/kg	08/23/94
#Extraction for TPH	EPA 3550	-		Extrn Date	08/22/94
TPH as Diesel	GC-FID	2 *	1	mg/kg	08/23/94

Gasoline result may include hydrocarbons in the diesel/kerosene range.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-5
AEN LAB NO: 9408283-06
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	170 *	20	ug/kg	08/23/94
Toluene	108-88-3	380 *	20	ug/kg	08/23/94
Ethylbenzene	100-41-4	990 *	20	ug/kg	08/23/94
Xylenes, Total	1330-20-7	7,900 *	20	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	190 *	0.8	mg/kg	08/23/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC-6
AEN LAB NO: 9408283-07
AEN WORK ORDER: 9408283
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	08/23/94
Toluene	108-88-3	ND	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	08/23/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9408283

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9408283
INSTRUMENT: E,H
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
08/22/94	SM-1	01	103
08/22/94	TC-1	02	104
08/23/94	TC-2	03	105
08/22/94	TC-3	04	102
08/23/94	TC-4	05	105
08/23/94	TC-5	06	99
08/23/94	TC-6	07	105

Current QC Limits

Surrogate	Percent Recovery
Fluorobenzene	78-114

QUALITY CONTROL DATA

AEN JOB NO: 9408283
DATE ANALYZED: 08/23/94
SAMPLE SPIKED: LCS
INSTRUMENT: E
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Percent Recovery
Benzene	17.2	93
Toluene	62.8	91
Hydrocarbons as Gasoline	1000	102

Current QC Limits

Analyte	Percent Recovery
Benzene	65-122
Toluene	67-124
Gasoline	60-125

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408283
DATE EXTRACTED: 08/22/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
08/23/94	TC-3	04	90
08/23/94	TC-4	05	71

Current QC Limits

Surrogate	Percent Recovery
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9408283
DATE EXTRACTED: 08/22/94
DATE ANALYZED: 08/25/94
SAMPLE SPIKED: 9407303-02
INSTRUMENT: C
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD
Diesel	40.1	79	<1

Current QC Limits

Analyte	Percent Recovery	RPD
Diesel	44-108	13

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

Reporting Information:

1. Client: USA Gasoline Corp
Address: ~~30100 Agoura Ct, Ste 200~~
~~Agoura Hills, CA 91301~~
Contact: ~~Stilwell / Desuppa~~
Alt. Contact:

American Environmental Network

AEN

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

Page ____ of ____

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9408283
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.:
Client FAX No.:

Address Report To:

2. Western Geo Engineers
1326 E. Beamer St.
Woodland, CA
Attn: Vern Bennett

Send Invoice To:

3. ~~US~~ same as 1

Send Report To: 1 or (2) (Circle one)

Client P.O. No.: ____ Client Project I.D. No.: USA #57

Sample Team Member (s) Vern Bennett

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	TPH G	BTEX	TPH D	Comments / Hazards
01A	SM-1		8/?/94 4:05	S		1	Br	X	X		(SM-1A)
02A	TC-1		8/19/94 3:05					X	X		24 hour TAT
03A	TC-2		3:??					X	X		
04A	TC-3		3:20					X	X	X	Fax results - WEG
05A	TC-4		3:50					X	X	X	
06A	TC-5		4:10					X	X		
07A	TC-6		4:20					X	X		

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Vern Bennett	8/22/94	11:40	[signature]	8/22/94	11:40
[signature]	8-22-94	12:45	Lori L. Pruitt	8-22-94	12:45

Method of Shipment

Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 09/06/94
DATE(S) SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
AEN WORK ORDER: 9408284

PROJECT SUMMARY:

On August 22, 1994, this laboratory received 7 soil sample(s).

Client requested samples be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-1
AEN LAB NO: 9408284-01
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	190 *	100	ug/kg	08/26/94
Toluene	108-88-3	2,000 *	100	ug/kg	08/26/94
Ethylbenzene	100-41-4	9,000 *	100	ug/kg	08/26/94
Xylenes, Total	1330-20-7	53,000 *	400	ug/kg	08/26/94
Purgeable HCs as Gasoline	5030/GCFID	720 *	5	mg/kg	08/26/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-2
AEN LAB NO: 9408284-02
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	120 *	100	ug/kg	08/26/94
Toluene	108-88-3	800 *	100	ug/kg	08/26/94
Ethylbenzene	100-41-4	4,600 *	100	ug/kg	08/26/94
Xylenes, Total	1330-20-7	33,000 *	400	ug/kg	08/26/94
Purgeable HCs as Gasoline	5030/GCFID	280 *	5	mg/kg	08/26/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-3
AEN LAB NO: 9408284-03
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	08/23/94
Toluene	108-88-3	ND	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	08/23/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-4
AEN LAB NO: 9408284-04
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	700 *	100	ug/kg	08/27/94
Toluene	108-88-3	2,500 *	100	ug/kg	08/27/94
Ethylbenzene	100-41-4	13,000 *	100	ug/kg	08/27/94
Xylenes, Total	1330-20-7	81,000 *	400	ug/kg	08/27/94
Purgeable HCs as Gasoline	5030/GCFID	590 *	5	mg/kg	08/27/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-5
AEN LAB NO: 9408284-05
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	100 *	50	ug/kg	08/30/94
Toluene	108-88-3	1,500 *	50	ug/kg	08/30/94
Ethylbenzene	100-41-4	2,700 *	50	ug/kg	08/30/94
Xylenes, Total	1330-20-7	17,000 *	200	ug/kg	08/30/94
Purgeable HCs as Gasoline	5030/GCFID	570 *	3	mg/kg	08/31/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: DI-6
AEN LAB NO: 9408284-06
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	720 *	100	ug/kg	08/27/94
Toluene	108-88-3	5,200 *	100	ug/kg	08/27/94
Ethylbenzene	100-41-4	31,000 *	100	ug/kg	08/27/94
Xylenes, Total	1330-20-7	180,000 *	400	ug/kg	08/27/94
Purgeable HCs as Gasoline	5030/GCFID	1,800 *	5	mg/kg	08/30/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: PT2-0
AEN LAB NO: 9408284-07
AEN WORK ORDER: 9408284
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/06/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	20 *	10	ug/kg	08/30/94
Toluene	108-88-3	40 *	10	ug/kg	08/30/94
Ethylbenzene	100-41-4	70 *	10	ug/kg	08/30/94
Xylenes, Total	1330-20-7	190 *	40	ug/kg	08/30/94
Purgeable HCs as Gasoline	5030/GCFID	15 *	0.4	mg/kg	08/30/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9408284

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9408284
INSTRUMENT: H
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
08/26/94	DI-1	01	98
08/26/94	DI-2	02	99
08/23/94	DI-3	03	99
08/27/94	DI-4	04	107
08/30/94	DI-5	05	95
08/27/94	DI-6	06	85
08/30/94	PT2-0	07	102

Current QC Limits

Surrogate	Percent Recovery
Fluorobenzene	78-114

QUALITY CONTROL DATA

AEN JOB NO: 9408284
DATE ANALYZED: 08/26/94
SAMPLE SPIKED: 9408284-02
INSTRUMENT: H
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD
Benzene	1,960	104	5
Toluene	7,290	106	8
Hydrocarbons as Gasoline	100,000	95	11

Current QC Limits

Analyte	Percent Recovery	RPD
Benzene	81-122	27
Toluene	70-129	30
Gasoline	74-117	34

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

R-7,5-E

Reporting Informa

1. Client: USA Gasoline Co
Address: 30101 Agoura Ct Ste 200
Agoura Hills, CA 91301
Contact: Srikanth Dasappa
Alt. Contact:

American Environmental Network
3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN

Page ____ of ____

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9408284
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.:
Client FAX No.:

Address Report To:

2. Western Geo-Engineers
1396 E. Bennett St.
Woodland, CA 95776
Attn: Vera Bennett

Send Invoice To:

3. USA - Same as 1

Send Report To: 1 or (2) (Circle one)

Client P.O. No.: ____ Client Project I.D. No.: USA #57

Sample Team Member (s) Vera Bennett

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS: TPH G	ANALYSIS: BTEX	Comments / Hazards
01A	DI-1		8/19/94 4:40	8		1	Br	X	X	
02A	DI-2		4:45					X	X	Normal TAT
03A	DI-3		4:50					X	X	
04A	DI-4		4:55					X	X	Fax Results
05A	DI-5		4:56					X	X	
06A	DI-6		5:00					X	X	
07A	PIZ-0		5:30					X	X	

Relinquished by: (Signature) Vera Bennett	DATE 8/22/94	TIME 11:40	Received by: (Signature) [signature] DATE 8/22/94 TIME 11:40
Relinquished by: (Signature) [signature]	DATE 8-22-94	TIME 12:45	Received by: (Signature) Lisa Pruitt DATE 8-22-94 TIME 12:45
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature) DATE TIME
Method of Shipment			Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 09/09/94
DATE(S) SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
AEN WORK ORDER: 9408285

PROJECT SUMMARY:

On August 22, 1994, this laboratory received 11 soil sample(s).

Client requested samples be analyzed for organic parameters. On September 1, 1994, client requested additional analysis on four samples. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

Revision of report dated 09/06/94 to include additional analyses.

WESTERN GEO-ENGINEERING

SAMPLE ID: SP1-1(A-D)
AEN LAB NO: 9408285-01
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	08/23/94
Toluene	108-88-3	53 *	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	1,200 *	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	31 *	2	mg/kg	08/24/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP1-2(A-D)
AEN LAB NO: 9408285-02
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	08/24/94
Toluene	108-88-3	ND	5	ug/kg	08/24/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/24/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/24/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	08/24/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP1-3(A-D)
AEN LAB NO: 9408285-03
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	08/23/94
Toluene	108-88-3	ND	5	ug/kg	08/23/94
Ethylbenzene	100-41-4	ND	5	ug/kg	08/23/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	08/23/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	08/23/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP2-1(A,B)
AEN LAB NO: 9408285-04
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	10	ug/kg	08/24/94
Toluene	108-88-3	29 *	10	ug/kg	08/24/94
Ethylbenzene	100-41-4	ND	10	ug/kg	08/24/94
Xylenes, Total	1330-20-7	75 *	10	ug/kg	08/24/94
Purgeable HCs as Gasoline	5030/GCFID	22 *	2	mg/kg	08/24/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP2-2(A-D)
AEN LAB NO: 9408285-05
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	20	ug/kg	08/24/94
Toluene	108-88-3	110 *	20	ug/kg	08/24/94
Ethylbenzene	100-41-4	65 *	20	ug/kg	08/24/94
Xylenes, Total	1330-20-7	250 *	20	ug/kg	08/24/94
Purgeable HCs as Gasoline	5030/GCFID	66 *	4	mg/kg	08/24/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP2-3(A-D)
AEN LAB NO: 9408285-06
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	10	ug/kg	08/24/94
Toluene	108-88-3	70 *	10	ug/kg	08/24/94
Ethylbenzene	100-41-4	ND	10	ug/kg	08/24/94
Xylenes, Total	1330-20-7	320 *	10	ug/kg	08/24/94
Purgeable HCs as Gasoline	5030/GCFID	51 *	2	mg/kg	08/24/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP2-4(A-D)
AEN LAB NO: 9408285-07
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	44 *	30	ug/kg	08/29/94
Toluene	108-88-3	760 *	30	ug/kg	08/29/94
Ethylbenzene	100-41-4	480 *	30	ug/kg	08/29/94
Xylenes, Total	1330-20-7	3,100 *	100	ug/kg	08/29/94
Purgeable HCs as Gasoline	5030/GCFID	210 *	1	mg/kg	08/29/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP3-1(A-D)
AEN LAB NO: 9408285-08
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	50	ug/kg	08/30/94
Toluene	108-88-3	1,700 *	50	ug/kg	08/30/94
Ethylbenzene	100-41-4	3,300 *	50	ug/kg	08/30/94
Xylenes, Total	1330-20-7	28,000 *	200	ug/kg	08/30/94
Purgeable HCs as Gasoline	5030/GCFID	360 *	3	mg/kg	08/30/94
#Extraction for TPH	**EPA 3550**	-		Extrn Date	09/02/94
TPH as Diesel	GC-FID	460 *	5	mg/kg	09/03/94

Reporting limits elevated due to high levels of target compounds. Samples run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP3-2(A-D)
AEN LAB NO: 9408285-09
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	10	ug/kg	08/31/94
Toluene	108-88-3	ND	10	ug/kg	08/31/94
Ethylbenzene	100-41-4	ND	10	ug/kg	08/31/94
Xylenes, Total	1330-20-7	ND	40	ug/kg	08/31/94
Purgeable HCs as Gasoline	5030/GCFID	ND	40	mg/kg	08/31/94
#Extraction for TPH	EPA 3550	-		Extrn Date	09/02/94
TPH as Diesel	GC-FID	750 *	5	mg/kg	09/03/94

Reporting limits elevated due to high levels of non-target compounds. RL for gasoline elevated due to hydrocarbon interference in the diesel/kerosene range.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP3-3(A-D)
AEN LAB NO: 9408285-10
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	10	ug/kg	08/31/94
Toluene	108-88-3	20 *	10	ug/kg	08/31/94
Ethylbenzene	100-41-4	10 *	10	ug/kg	08/31/94
Xylenes, Total	1330-20-7	50 *	40	ug/kg	08/31/94
Purgeable HCs as Gasoline	5030/GCFID	ND	20	mg/kg	08/31/94
#Extraction for TPH	EPA 3550	-		Extrn Date	09/02/94
TPH as Diesel	GC-FID	180 *	1	mg/kg	09/03/94

Reporting limits elevated due to high levels of non-target compounds. RL for gasoline elevated due to hydrocarbon interference in the diesel/kerosene range.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP3-4(A-D)
AEN LAB NO: 9408285-11
AEN WORK ORDER: 9408285
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
REPORT DATE: 09/09/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	20	ug/kg	08/31/94
Toluene	108-88-3	30 *	20	ug/kg	08/31/94
Ethylbenzene	100-41-4	80 *	20	ug/kg	08/31/94
Xylenes, Total	1330-20-7	1,300 *	80	ug/kg	08/31/94
Purgeable HCs as Gasoline	5030/GCFID	73 *	4	mg/kg	08/31/94
#Extraction for TPH	EPA 3550	-		Extrn Date	09/02/94
TPH as Diesel	GC-FID	400 *	5	mg/kg	09/03/94

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9408285

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

Surrogate recovery for EPA 3550 for sample SP3-4 was outside of established limits due to matrix interference.

All other laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9408285
INSTRUMENT: H
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
08/23/94	SP1-1(A-D)	01	100
08/24/94	SP1-2(A-D)	02	101
08/23/94	SP1-3(A-D)	03	101
08/24/94	SP2-1(A-B)	04	100
08/24/94	SP2-2(A-D)	05	101
08/24/94	SP2-3(A-D)	06	101
08/29/94	SP2-4(A-D)	07	102
08/30/94	SP3-1(A-D)	08	100
08/31/94	SP3-2(A-D)	09	100
08/31/94	SP3-3(A-D)	10	100
08/31/94	SP3-4(A-D)	11	99

Current QC Limits

Analyte	Percent Recovery
Fluorobenzene	78-114

QUALITY CONTROL DATA

AEN JOB NO: 9408285
DATE ANALYZED: 08/24/94
SAMPLE SPIKED: LCS
INSTRUMENT: H
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Percent Recovery
Benzene	19.6	81
Toluene	72.9	83
Hydrocarbons as Gasoline	1000	82

Current QC Limits

Analyte	Percent Recovery
Benzene	65-122
Toluene	67-124
Gasoline	60-125

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408285
DATE EXTRACTED: 09/02/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
09/03/94	SP3-1(A-D)	08	92
09/03/94	SP3-2(A-D)	09	89
09/03/94	SP3-3(A-D)	10	78
09/03/94	SP3-4(A-D)	11	I

I: Outside of established limits due to matrix interference

Current QC Limits

Analyte	Percent Recovery
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9408285
DATE EXTRACTED: 09/01/94
DATE ANALYZED: 09/02/94
SAMPLE SPIKED: 9408385-18
INSTRUMENT: C
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	40.1	56	12	44-108	13

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

APPENDIX F

AMERICAN ENVIRONMENTAL NETWORK (AEN)

OVEREXCAVATION and SOIL PILE

SOIL RESULTS 9/27/94

USA GASOLINE CORPORATION STATION #57

10700 MACARTHUR BLVD., OAKLAND, CA.

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 10/03/94
DATE(S) SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
AEN WORK ORDER: 9409378

PROJECT SUMMARY:

On September 27, 1994, this laboratory received 14 soil sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-1
AEN LAB NO: 9409378-01
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	09/27/94
Toluene	108-88-3	ND	5	ug/kg	09/27/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/27/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/27/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	09/27/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-2
AEN LAB NO: 9409378-02
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	60 *	5	ug/kg	09/28/94
Toluene	108-88-3	19 *	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	26 *	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	13 *	0.2	mg/kg	09/28/94

Gasoline result includes diesel range organics.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-3
AEN LAB NO: 9409378-03
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-4
AEN LAB NO: 9409378-04
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	09/28/94

Reporting limits elevated for gasoline/BTEX due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-5
AEN LAB NO: 9409378-05
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	130 *	50	ug/kg	09/28/94
Toluene	108-88-3	120 *	50	ug/kg	09/28/94
Ethylbenzene	100-41-4	100 *	50	ug/kg	09/28/94
Xylenes, Total	1330-20-7	250 *	50	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	100 *	2	mg/kg	09/28/94
#Extraction for TPH	**EPA 3550**	-		Extrn Date	09/27/94
TPH as Diesel	**GC-FID**	220 *	1	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-7
AEN LAB NO: 9409378-06
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	6.3 *	0.2	mg/kg	09/28/94
#Extraction for TPH	**EPA 3550**	-		Extrn Date	09/27/94
TPH as Diesel	**GC-FID**	37 *	1	mg/kg	09/28/94

Gasoline result includes diesel range organics.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-8
AEN LAB NO: 9409378-07
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	1	mg/kg	09/28/94
#Extraction for TPH	EPA 3550	-		Extrn Date	09/27/94
TPH as Diesel	GC-FID	16 *	1	mg/kg	09/28/94

Reporting limits elevated for gasoline/BTEX due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-9
AEN LAB NO: 9409378-08
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	0.4 *	0.2	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-11
AEN LAB NO: 9409378-09
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	9,600 *	1000	ug/kg	09/28/94
Toluene	108-88-3	21,000 *	1000	ug/kg	09/28/94
Ethylbenzene	100-41-4	40,000 *	1000	ug/kg	09/28/94
Xylenes, Total	1330-20-7	260,000 *	1000	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	2,200 *	40	mg/kg	09/28/94

Reporting limits elevated for gasoline/BTEX due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-12
AEN LAB NO: 9409378-10
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	330 *	50	ug/kg	09/28/94
Toluene	108-88-3	290 *	50	ug/kg	09/28/94
Ethylbenzene	100-41-4	660 *	50	ug/kg	09/28/94
Xylenes, Total	1330-20-7	7,900 *	50	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	130 *	2	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-13
AEN LAB NO: 9409378-11
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	1,100 *	1000	ug/kg	09/28/94
Toluene	108-88-3	4,900 *	1000	ug/kg	09/28/94
Ethylbenzene	100-41-4	6,400 *	1000	ug/kg	09/28/94
Xylenes, Total	1330-20-7	66,000 *	1000	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	620 *	40	mg/kg	09/28/94

Reporting limits elevated for gasoline/BTEX due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-14
AEN LAB NO: 9409378-12
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	96 *	5	ug/kg	09/28/94
Toluene	108-88-3	100 *	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	170 *	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	1,700 *	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	92 *	0.2	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-15
AEN LAB NO: 9409378-13
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	09/28/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: TC2-16
AEN LAB NO: 9409378-14
AEN WORK ORDER: 9409378
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/03/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	09/28/94
Toluene	108-88-3	ND	5	ug/kg	09/28/94
Ethylbenzene	100-41-4	ND	5	ug/kg	09/28/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	09/28/94
Purgeable HCs as Gasoline	5030/GCFID	ND	1	mg/kg	09/28/94

Reporting limits elevated for gasoline/BTEX due to matrix interference.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9409378

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9409378
DATE EXTRACTED: 09/27/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
09/28/94	TC2-5	05	73
09/28/94	TC2-7	06	63
09/28/94	TC2-8	07	69

Current QC Limits

Surrogate	Percent Recovery
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9409378
DATE EXTRACTED: 09/29/94
DATE ANALYZED: 09/30/94
SAMPLE SPIKED: LCS
INSTRUMENT: D
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits Percent Recovery
Diesel	40	73	53-103

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9409378
INSTRUMENT: E,F
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
09/27/94	TC2-1	01	108
09/28/94	TC2-2	02	110
09/28/94	TC2-3	03	108
09/28/94	TC2-4	04	109
09/28/94	TC2-5	05	98
09/28/94	TC2-7	06	102
09/28/94	TC2-8	07	110
09/28/94	TC2-9	08	107
09/28/94	TC2-11	09	98
09/28/94	TC2-12	10	94
09/28/94	TC2-13	11	108
09/28/94	TC2-14	12	96
09/28/94	TC2-15	13	108
09/28/94	TC2-16	14	107

Current QC Limits

Surrogate	Percent Recovery
Fluorobenzene	84-117

QUALITY CONTROL DATA

AEN JOB NO: 9409378
DATE ANALYZED: 09/27/94
SAMPLE SPIKED: LCS
INSTRUMENT: E
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Percent Recovery	QC Limits Percent Recovery
Benzene	34.2	101	69-108
Toluene	93.4	98	70-106
Hydrocarbons as Gasoline	1000	94	69-110

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

Reporting Inform[...]

1. Client: USA Gasoline Corp
Address: 30101 Agoura Ct. Ste
Agoura Hills CA
Contact: Sr. Kumk Dussap[...]
Alt. Contact: Vera Brant

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9409378
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.:
Client FAX No.:

Address Report To:
2. Western Geo-Engineering
1386 E. Beamer St.
Woodland CA 95776
Attn: Vera Brant

Send Invoice To:
3. USA Gasoline Corp
Attn: Sr. Kumk Dussap

Send Report To: 1 or (2) (Circle one)

Client P.O. No.: ____ Client Project I.D. No.: USA #57

Sample Team Member (s): Vera Brant

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	TPH G / BTEX	TPH D									Comments / Hazards
01A	TC2-1		9/27/94 11:45	8		1	Pr	X										24 hour TAT
02A	TC2-2		12:00					X										
03A	TC2-3		12:20					X										Please Fax
04A	TC2-4		12:40					X										
05A	TC2-5		1:00					X										
06A	TC2-7		1:25					X	X									
07A	TC2-8		1:30					X	X									
08A	TC2-9		1:40					X	X									
09A	TC2-11		2:00					X										
10A	TC2-12		2:10					X										
11A	TC2-13		2:15					X										
12A	TC2-14		2:30					X										
13A	TC2-15		2:25					X										
14A	TC2-16		2:30					X										

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Vera Brant	9/27/94	1845	Denise Harrington	9/27/94	1845

Method of Shipment

Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

R-5, S-D

9409379

Chain of Custody and Analysis Request

Section I

page 1 of 1

Consultant: Western Geo-Engineers
Address: 1386 East Beamer St.
Woodland, CA 95776
Phone No. (916) 668-5300 Fax No. (916) 662-0273
Project Manager: Vern Bennett
Alternate Contact: Roy Butler
Project No. USA #52 P.O. No.

Turn Around Time (circle one)
Same Day 72 Hrs
24 Hrs 7 48 Hrs
Normal 5 Day

Superior Precision Analytical, Inc.
P.O. Box 1545
Martinez, California 94553
Martinez 1 (510) 229-1512 Martinez 2 (510) 229-0166
SanFrancisco (415) 647-2081

Sampler: Vern Bennett
Regulatory Agency: Alameda County

Section II: Analysis Request

Laboratory Sample Identification	S = Soil A = Air W = Water Matrix	mod 8015 - Gas	mod 8015 - BTEX	mod 8015 - Diesel	8010	8240	CAM17	TCLP Metals:	Metals: Pb STLC	418.1 - TPH by IR	O & G	PCBs			Date Sampled	Time Sampled	Number of Containers	Preservative (yes or no)
1 SP4-1 (A-D)	S	✓	X						X						9/27/94	3:20	4	N
2 SP4-2 (A-D)	S	✓	X						X							3:30		
3 SP4-3 (A-D)	S	✓	X						X							3:35		
4 SP4-4 (A-D)	S	✓	X						X							3:45	4	
5																		
6 SP5 (A-D)	S	✓	X	X					X									
7															9/27/94	4:00	4	
8																		
9																		
10																		
11																		
12																		

Sampling Remarks
- ☐ Bio-remediation
- ☐ Underground storage tank
- ☒ Monitoring
- ☐ Recent Contamination
- ☐ Unknown Compounds

Normal TAT
01A
02A
03A
04A
BILL - USA 05A
Report to Weber
Please FAX
10/06 at 1130 per Vern Bennett
pls. add TPH-gas analysis to all samples. JRS

	Date/Time		Date/Time
Relinquished by		Received by	
Organization		Organization	
Relinquished by: Vern Bennett		Received by	
Organization: Western Geo-Engineers	9/27/94 1845	Organization	
Relinquished by		Received by: Daniel Harrington AEN	9/27/94 1845

Lab please initial the following:
Samples Stored in Ice: Yes
Appropriate Containers: Yes
Samples Preserved: N/A
VOAs without Headspace: N/A
Comments:

OCT-07-94 THU 12:30 AEN CALIFORNIA FAX NO. 5109300256 P. 08/08

WESTERN GEO-ENGINEERING

SAMPLE ID: SP4-1(A-D)
AEN LAB NO: 9409379-01
AEN WORK ORDER: 9409379
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/07/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#CA Waste Extraction	CA Title 22	-		Extrn Date	09/30/94
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	10/04/94
Toluene	108-88-3	ND	5	ug/kg	10/04/94
Ethylbenzene	100-41-4	ND	5	ug/kg	10/04/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	10/04/94
TPH as Gas in Soil	5030 GC-FID	ND	0.2	mg/kg	10/04/94
Lead in WET Extract	EPA 7420	0.2 *	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP4-2(A-D)
AEN LAB NO: 9409379-02
AEN WORK ORDER: 9409379
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/07/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#CA Waste Extraction	CA Title 22	-		Extrn Date	09/30/94
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	10/04/94
Toluene	108-88-3	ND	5	ug/kg	10/04/94
Ethylbenzene	100-41-4	ND	5	ug/kg	10/04/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	10/04/94
TPH as Gas in Soil	5030 GC-FID	ND	0.2	mg/kg	10/04/94
Lead in WET Extract	EPA 7420	ND	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP4-3(A-D)
AEN LAB NO: 9409379-03
AEN WORK ORDER: 9409379
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/07/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#CA Waste Extraction	CA Title 22	-		Extrn Date	09/30/94
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	10/04/94
Toluene	108-88-3	ND	5	ug/kg	10/04/94
Ethylbenzene	100-41-4	ND	5	ug/kg	10/04/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	10/04/94
TPH as Gas in Soil	5030 GC-FID	ND	0.2	mg/kg	10/04/94
Lead in WET Extract	EPA 7420	ND	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP4-4(A-D)
AEN LAB NO: 9409379-04
AEN WORK ORDER: 9409379
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/07/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#CA Waste Extraction	CA Title 22	-		Extrn Date	09/30/94
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	10/04/94
Toluene	108-88-3	ND	5	ug/kg	10/04/94
Ethylbenzene	100-41-4	ND	5	ug/kg	10/04/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	10/04/94
TPH as Gas in Soil	5030 GC-FID	ND	0.2	mg/kg	10/04/94
Lead in WET Extract	EPA 7420	ND	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

WESTERN GEO-ENGINEERING

SAMPLE ID: SP5(A-D)
AEN LAB NO: 9409379-05
AEN WORK ORDER: 9409379
CLIENT PROJ. ID: USA #57

DATE SAMPLED: 09/27/94
DATE RECEIVED: 09/27/94
REPORT DATE: 10/07/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#CA Waste Extraction	CA Title 22	-		Extrn Date	09/30/94
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	10/04/94
Toluene	108-88-3	ND	5	ug/kg	10/04/94
Ethylbenzene	100-41-4	ND	5	ug/kg	10/04/94
Xylenes, Total	1330-20-7	ND	5	ug/kg	10/04/94
TPH as Gas in Soil	5030 GC-FID	0.4 *	0.2	mg/kg	10/04/94
#Extraction for TPH	EPA 3550	-		Extrn Date	09/30/94
TPH as Diesel	GC-FID	92 *	1	mg/kg	10/03/94
Lead in WET Extract	EPA 7420	ND	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

WESTERN GEO-ENGINEERING
1386 E. BEAMER STREET
WOODLAND, CA 95776

ATTN: VERN BENNETT
CLIENT PROJ. ID: USA #57

REPORT DATE: 10/05/94
DATE(S) SAMPLED: 08/19/94
DATE RECEIVED: 08/22/94
AEN WORK ORDER: 9409339

PROJECT SUMMARY:

On August 22, 1994, this laboratory received 5 soil sample(s).

On September 22, 1994, client requested samples be analyzed for inorganic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

WESTERN GEO-ENGINEERING

SAMPLE ID	AEN LAB #	ANALYTE	METHOD	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
SP1-1(A-D),SP1-2(A-D)	9409339-01B	Lead in WET Extract	EPA 7420	0.3 *	0.1	mg/L	10/03/94
SP1-3(AB),SP2-2(A-D)	9409339-02B	Lead in WET Extract	EPA 7420	0.1 *	0.1	mg/L	10/03/94
SP2-3(A-D),SP2-4(A-D)	9409339-03B	Lead in WET Extract	EPA 7420	0.1 *	0.1	mg/L	10/03/94
SP3-1(A-D),SP3-2(A-D)	9409339-04B	Lead in WET Extract	EPA 7420	0.1 *	0.1	mg/L	10/03/94
SP3-3(A-D),SP3-4(A-D)	9409339-05B	Lead in WET Extract	EPA 7420	0.3 *	0.1	mg/L	10/03/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9409339

CLIENT PROJECT ID: USA #57

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9409339
DATE EXTRACTED: 09/30/94
DATE ANALYZED: 10/03/94

Method Blank Results for Waste Extraction Test

Analyte	Inst./ Method	Concentration (mg/L)	STLC (mg/L)	Reporting Limit (mg/L)
Pb, Lead	V22/7420	ND	5.0	0.1

STLC = Soluble Threshold Limit Concentration

*** END OF REPORT ***

Report Information:

1. Client: USA Gasoline Corp
Address: 30101 Agoura Ct, Ste 200
Agoura Hills, CA 91301
Contact: Srikanth Dasappa
Alt. Contact:

American Environmental Network

AEN

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Address Report To:

2. Western Geo Engineers
1386 E. Beamer St.
Woodland CA 95776
Attn: Vern Bennett

Send Invoice To:

3. Same as #1

Lab Job Number: 9409339
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required: 10/3/94
Data Report Required:
Client Phone No.:
Client FAX No.:

Send Report To: 1 or (2) (Circle one)

Client P.O. No.:
Client Project I.D. No.: USA #57

Sample Team Member(s): Vern Bennett

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS: STLC-Pb										Comments / Hazards
01A	SP1-1A-D + SP1-2A-D		8/19/94 7:30	8		8	Br	X	composite to 1 sample									Soil samples @ AEN Job # 9408205
02A	SP1-3A-D + SP2-2A-D		7:30			6		X										
03A	SP2-3A-D + SP2-4A-D		7:30			6		X										Composite 8 sleeves to one sample.
04A	SP3-1A-D + SP3-2A-D		6:30			8		X										Normal TAT
05A	SP3-3A-D + SP3-4A-D		8:00			↓		X										Attn: Ron, please Fax final

Relinquished by: (Signature) Vern Bennett DATE 9/22/94 TIME 2:00
Received by: (Signature) DATE TIME

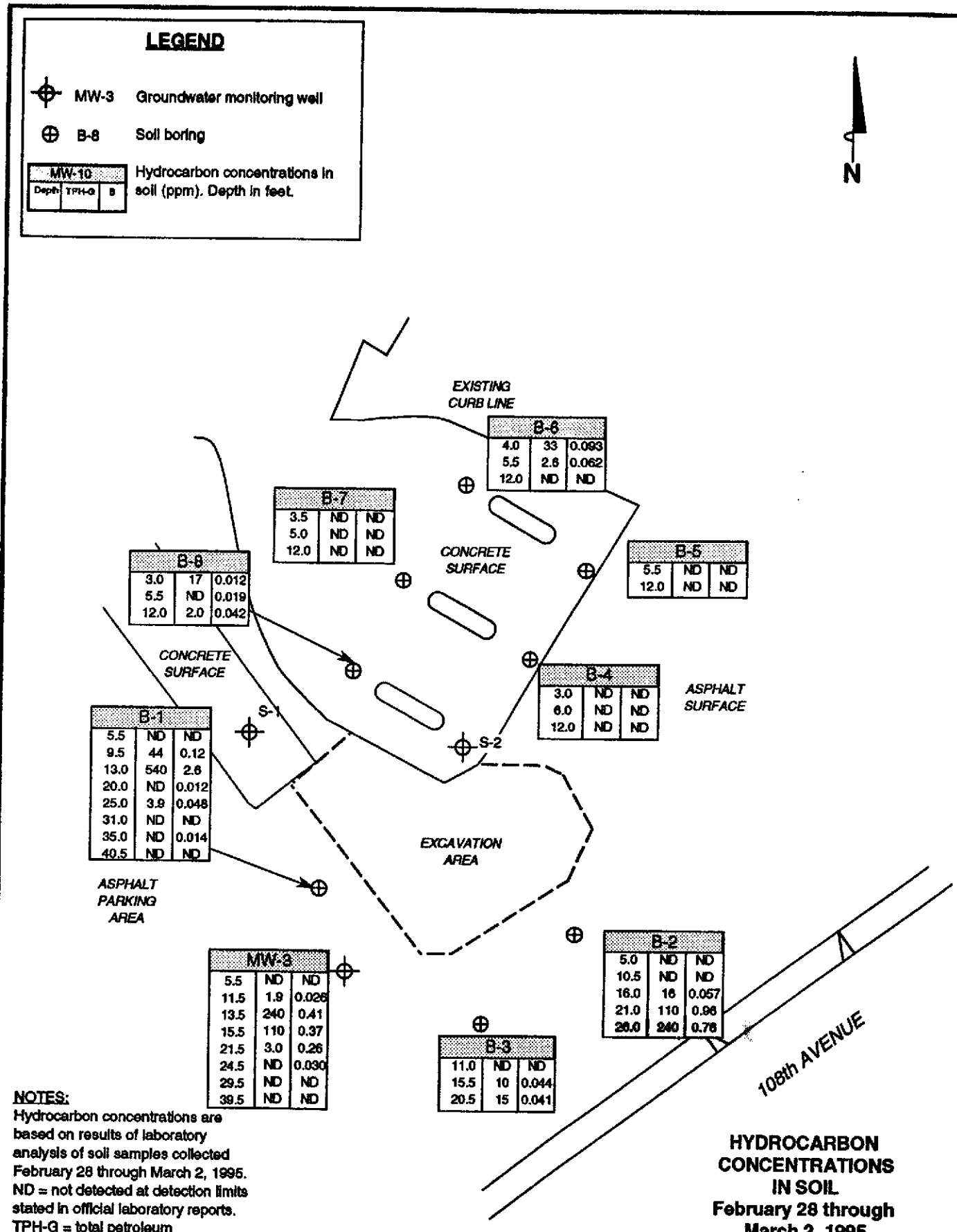
Relinquished by: (Signature) DATE TIME
Received by: (Signature) DATE TIME

Relinquished by: (Signature) DATE TIME
Received by: (Signature) rec'd via FAX 09/22/94 DATE TIME [signature]

Method of Shipment
Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT



NOTES:
Hydrocarbon concentrations are based on results of laboratory analysis of soil samples collected February 28 through March 2, 1995.
ND = not detected at detection limits stated in official laboratory reports.
TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; ppm = parts per million.

ALTON GEOSCIENCE
Livermore, California

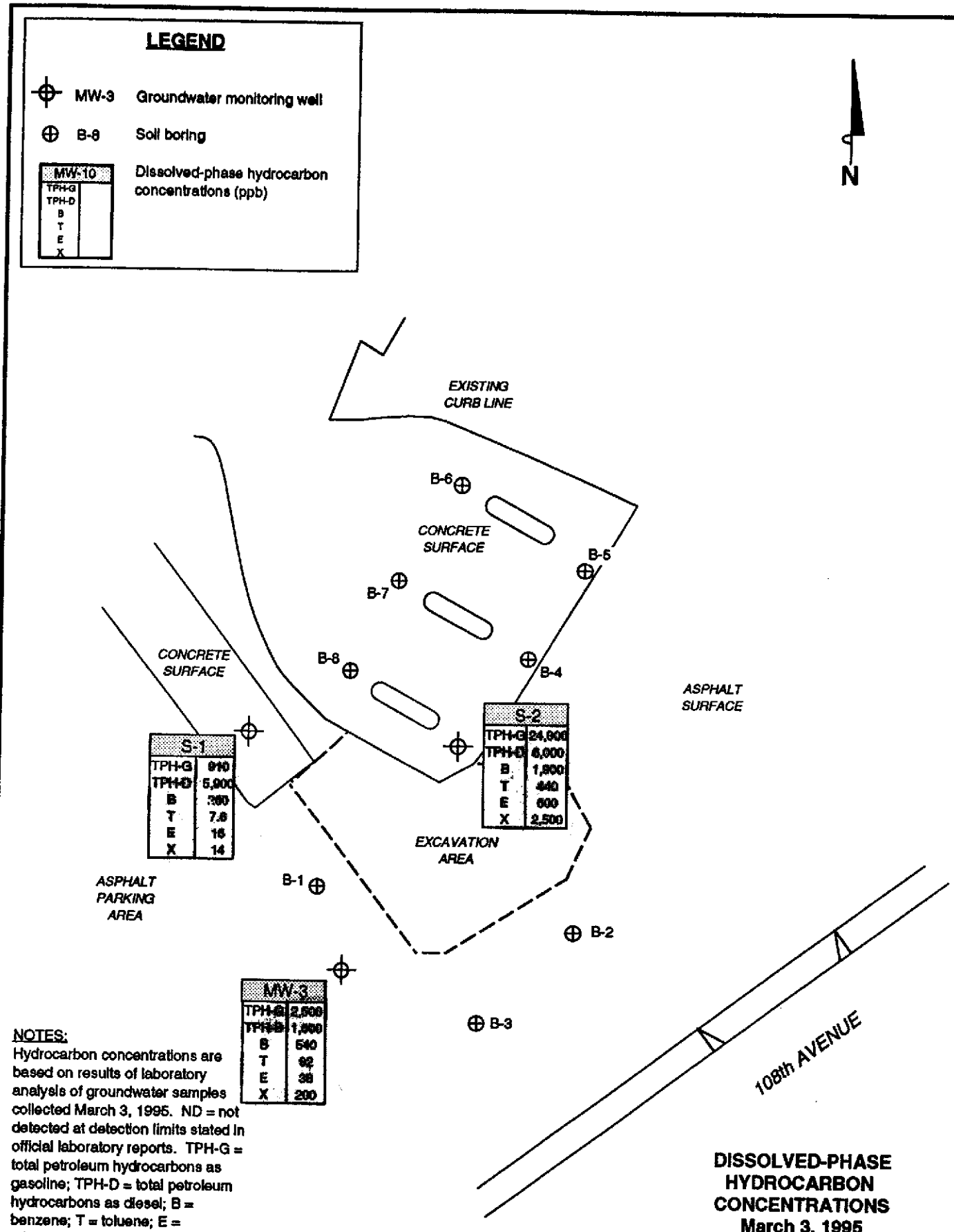
SCALE (feet)
0 15 30

HYDROCARBON CONCENTRATIONS IN SOIL
February 28 through March 2, 1995

Former USA Gas #57
10700 MacArthur Boulevard
Oakland, California

FIGURE 5

41-0034/New Plan 04/11/95



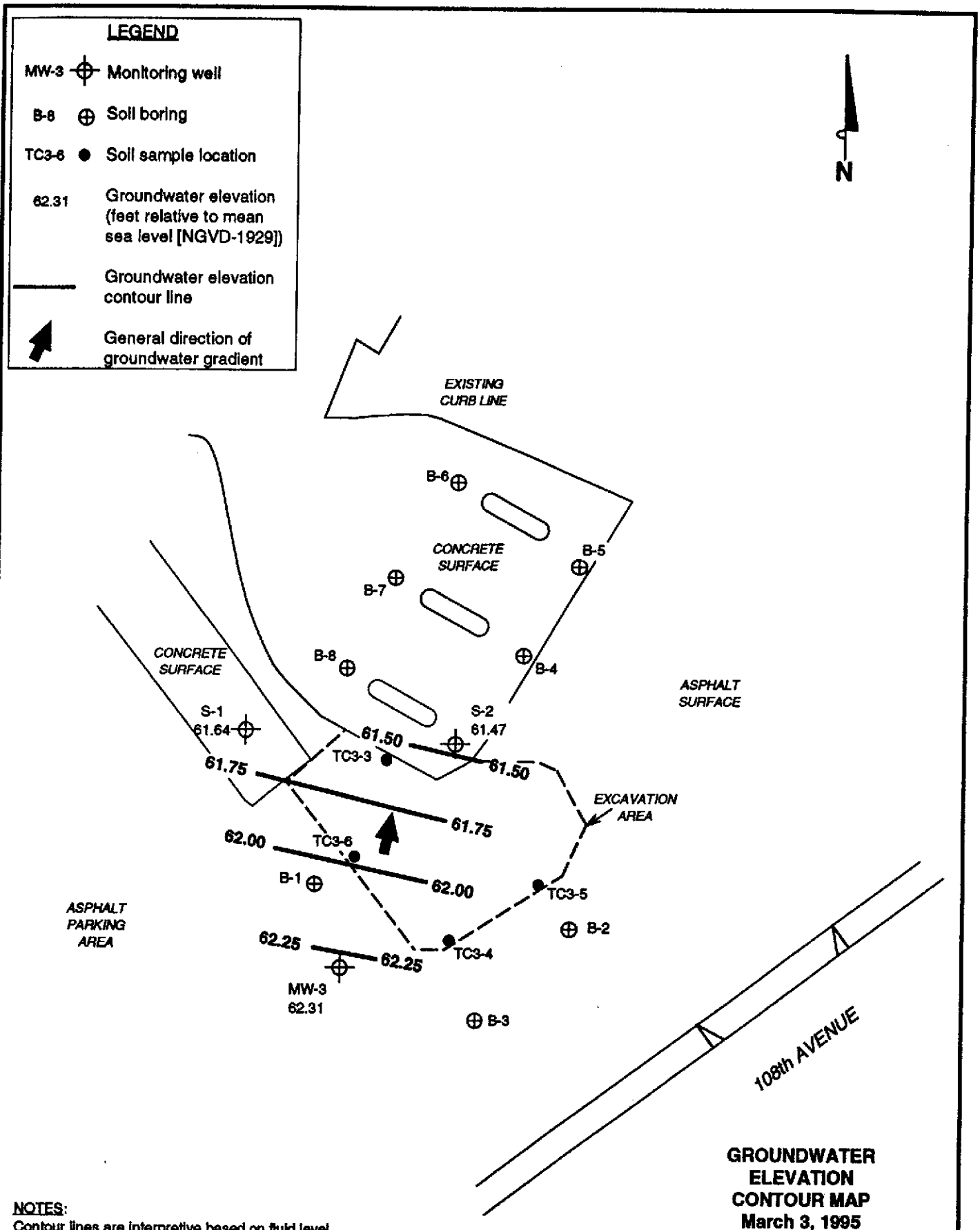
ALTON GEOSCIENCE
Livermore, California

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
March 3, 1995

Former USA Gas #57
10700 MacArthur Boulevard
Oakland, California

FIGURE 6

41-0034/New Plan 04/11/95



NOTES:
Contour lines are interpretive based on fluid level measurements collected March 3, 1995. Contour interval = 0.25 foot.

GROUNDWATER ELEVATION CONTOUR MAP
March 3, 1995

Former USA Gas #57
10700 MacArthur Boulevard
Oakland, California

SCALE (feet)
0 15 30

ALTON GEOSCIENCE
Livermore, California

FIGURE 7

41-0034/New Plan 04/11/95

Table 1

Summary of Soil Sample Analysis

Former USA Gas #57

Sample ID	Date	Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)
B-1	2/28/95	5.5	ND	—	ND	ND	ND	ND
		9.5	44	—	0.12	ND	0.14	0.40
		13.0	540	55	2.6	10	7.5	48
		20.0	ND	—	0.012	0.016	ND	0.029
		25.0	3.9	—	0.048	0.14	0.062	0.37
		31.0	ND	—	ND	0.011	0.0057	0.045
		35.0	ND	—	0.014	0.018	0.012	0.079
		40.5	ND	ND	ND	ND	ND	ND
B-2	3/1/95	5.0	ND	—	ND	ND	ND	ND
		10.5	ND	—	ND	ND	ND	ND
		16.0	16	—	0.057	0.028	0.029	1.2
		21.0	110	—	0.96	0.41	0.33	1.5
		26.0	240	22	0.76	1.4	0.85	1.9
B-3	3/1/95	11.0	ND	—	ND	ND	ND	ND
		15.5	10	—	0.044	0.11	0.079	0.63
		20.5	15	1.3	0.041	0.37	0.15	1.1
B-4	3/2/95	3.0	ND	—	ND	ND	ND	ND
		6.0	ND	—	ND	ND	ND	ND
		12.0	ND	ND	ND	ND	ND	ND
B-5	3/2/95	5.5	ND	—	ND	ND	ND	ND
		12.0	ND	ND	ND	ND	ND	ND

Table 1

Summary of Soil Sample Analysis

Former USA Gas #57

Sample ID	Date	Depth (feet)	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)
B-6	3/2/95	4.0	33	5.3	0.093	0.065	0.33	2.0
		5.5	2.6	—	0.062	ND	0.030	0.047
		12.0	ND	—	ND	ND	ND	0.022
B-7	3/2/95	3.5	ND	ND	ND	ND	ND	ND
		5.0	ND	—	ND	ND	ND	ND
		12.0	ND	—	ND	ND	ND	ND
B-8	3/2/95	3.0	17	—	0.012	0.021	0.12	0.16
		5.5	ND	ND	0.019	ND	0.050	ND
		12.0	2.0	—	0.042	ND	ND	0.016
MW-3	2/28/95	5.5	ND	—	ND	ND	ND	ND
		11.5	1.9	—	0.026	0.011	0.0061	0.019
		13.5	240	12	0.41	0.64	2.0	5.4
		15.5	110	—	0.37	3.8	1.5	10
		21.5	3.0	—	0.26	0.24	0.059	0.50
		24.5	ND	—	0.030	0.0069	0.0056	0.016
		29.5	ND	—	ND	0.0054	ND	0.0092
		39.5	ND	—	ND	ND	ND	ND

NOTES:

ppm=	parts per million
TPH-G =	total petroleum hydrocarbons as gasoline
TPH-D =	total petroleum hydrocarbons as diesel
ND =	not detected at or above method detection limit
— =	not measured/not analyzed

Table 2

Summary of Groundwater Monitoring and Analysis

Former USA Gas #57

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)
S-1	3/3/95	74.74	13.10	61.64	910	5,900	260	7.6	16	14
S-2	3/3/95	76.86	15.39	61.47	24,000	6,000	1,900	440	600	2,500
MW-3	3/3/95	76.30	13.99	62.31	2,500	1,600	540	92	36	200

NOTES:
ppb = parts per billion
TPH-G = total petroleum hydrocarbons as gasoline
TPH-D = total petroleum hydrocarbons as diesel

APPENDIX A

GENERAL FIELD PROCEDURES, BORING LOGS, AND WELL CONSTRUCTION DETAILS

GENERAL FIELD PROCEDURES

A description of the general field procedures used during site investigation and monitoring activities is presented below. For an overview of protocol, refer to the appropriate section(s).

DRILLING AND SOIL SAMPLING

Soil borings are drilled using continuous-flight, hollow-stem augers. Borings that are not completed as monitoring wells are grouted to within 5 feet of the ground surface with a cement/bentonite slurry. The remaining 5 feet is filled with concrete.

Soil samples are obtained for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are retrieved from the borings by one of two methods: 1) continuously, using a 5-foot-long, continuous-core barrel sampler advanced into the soil with the lead auger; sample tubes are driven into the core with a mallet, or 2) at 2.5- or 5-foot intervals, using a standard split-spoon sampler lined with four 1.5-inch-diameter stainless steel or brass sample inserts. The split-spoon sampler is driven approximately 18 inches beyond the lead auger with a 140-pound hammer dropped from a height of 30 inches.

For hand auger borings and hand-held, power-driven auger borings, soil samples are retrieved using a hand-driven slide hammer lined with a 1.5-inch-diameter stainless steel sample tube.

During drilling activities, soil adjacent to the laboratory sample is screened for combustible vapors using a combustible gas indicator (CGI) or equivalent field instrument. For each hydrocarbon vapor screening event, a 6-inch-long by 2.5-inch-diameter sample insert is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample insert or sampler, and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, density/consistency, moisture, color, and grading are recorded on the boring logs.

SOIL SAMPLE HANDLING

Soil sample handling follows the same basic protocol for both drilling and excavation activities. Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4°C for possible future testing.