



2060 KNOLL DRIVE, SUITE 200, VENTURA, CALIFORNIA 93003
(805) 644-5892 • FAX (805) 654-0720

ALCO
HAZMAT

91, JUL 28 PM 4:37

July 25, 1994

Ms. Eva Chu, Haz. Mat. Specialist
Alameda County Health Care Service
Department of Environmental Health
80 Swan Way, Rm. 200
Oakland, CA 94621

Subject: Soil & Groundwater Investigation Report for
the property located at 2008 First Street, Livermore, CA 94550

Dear Ms. Chu:

Enclosed is the Soil and Groundwater Investigation Report for the recent installation and monitoring of three groundwater monitoring wells at the subject property.

Remediation Service, Int'l. (RSI) prepared this report and is under contract to Desert Petroleum to provide environmental services. If you have any questions regarding this report, please do not hesitate to contact Mr. Rick Pilat, the program director at RSI.

Sincerely,

A handwritten signature in cursive script that reads 'Heather Davis'. The signature is written in dark ink and is positioned above the printed name.

Heather Davis
Remediation Service, Int'l.

cc: Mr. John Rutherford
Desert Petroleum, Inc.

Mr. Sumadhu Arigala
RWQCB, San Francisco Bay Area
2101 Webster St., Suite 500
Oakland, CA 94612

enclosure

440 - 650



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ALCO
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SOIL & GROUNDWATER INVESTIGATION REPORT
for
2008 First Street
Livermore, California 94550

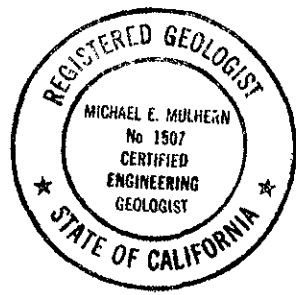
Prepared for:
DESERT PETROLEUM, INC.
P.O. Box 1601
Oxnard, California 93032

Prepared by:
RSI - REMEDIATION SERVICE, INT'L.
2060 Knoll Drive
Suite #200
Ventura, California 93003

7/29/94
MW2,3,4
well screened from 30-60' -
Tad too much!

Need to analyze MW-2 for VOCs + TOG
offsite investigation required

Michael Mulhern
E.G. #1507



July 22, 1994

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1.0 INTRODUCTION

This report presents the results of a soil and groundwater investigation for the real property located at 2008 First Street, Livermore, Alameda County, California 94550 (Figure 1). Remediation Service, Int'l. (RSI) is under contract to Desert Petroleum, Inc. to conduct assessment of soil and groundwater beneath the subject property.

The property is currently an operating retail gasoline service station. A preliminary site assessment conducted in February, 1988 indicated that both soil and groundwater contained elevated concentrations of petroleum hydrocarbons. Analytical results from groundwater monitoring well installation confirmed that soil and groundwater had been impacted by an unauthorized release. In May, 1993 Alameda County requested further soil and groundwater investigation to delineate the extent of impact.

RSI submitted a workplan to the Alameda County Department of Environmental Health (ACEMD) on January 3, 1994. The plan was approved by Ms. Eva Chu of ACEMD in a letter dated January 13, 1994. The soil and groundwater investigation work was subsequently performed and the procedures and results are detailed in this report.

2.0 SITE DESCRIPTION

The site is an operating retail gasoline service station located within a commercial/residential area at the corner of First street and South "L" street in Livermore (Figure 1). Site improvements include a storage/garage building, three underground storage tanks, two pump islands and one groundwater monitoring well. The three underground storage tanks have holding capacities of 10,000 gallons (Tanks 1 & 2) and 8,000 gallons (Tank 3) and are used for the storage of various grades of unleaded gasoline (Figure 2).

The site is flat, level and paved with asphalt.

3.0 BACKGROUND

On February 23, 1988, Geonomics Inc., installed four vapor monitoring probes around the tank area (DPL-1, -2, -3 & -4, Figure 3). On site field screening with a Gastechtor organic vapor meter indicated elevated TPH concentrations as vapor in wells DPL-1 and DPL-2. Analysis of a soil sample collected from DPL-1 at 14.5 feet below ground surface (bgs) reported a TPH as gasoline

concentration of 400 mg/Kg and a benzene concentration of 7.5 mg/Kg. Soil samples from DPL-3 and DPL-4 did not contain detectable levels of TPH or BTEX (Geonomics Inc. Vapor Monitoring Probe Report, March 10, 1988).

On September 22, 1988, On-Site Technologies Inc. conducted further subsurface investigation with two soil borings and the completion of one monitoring well (GX-136, later renamed MW-1, Figure 3). Depth to groundwater was measured at 55.8 feet bgs. Analytical results of soil collected from the three borings reported no detectable TPH concentrations above 26 feet bgs and concentrations ranging from 0.8 mg/Kg (DPL-5 at 41 feet) to 1,600 mg/Kg (DPL-6 at 36 feet) below 26 feet bgs. Groundwater was analyzed for TPH as gasoline and BTEX; no hydrocarbon compounds were detected in the groundwater at that time (On-Site Technologies, Inc. Report of Hydrogeologic Site Investigation, October 26, 1988).

On August 2, 1990, monitoring well GX-136 was sampled for TPH as gasoline and BTEX. Analytical results reported a TPH concentration of 24,000 µg/L and a benzene concentration of 1,300 ug/L (Table 2).

Groundwater has been monitored on a regular basis since 1990. The most recent measurement and sampling in May, 1994 reported groundwater at 33.57 feet bgs in well MW-1. Analysis of groundwater reported a TPH as gasoline concentration of 10,000 µg/L and a benzene concentration of 690 ug/L. Table 2 summarizes historic groundwater analytical results at the site.

4.0 SOIL AND GROUNDWATER INVESTIGATION

The purpose of this investigation was to examine the soil and groundwater for contamination that may have been released from the underground gasoline storage tanks. The investigation was initiated by installing three groundwater monitoring wells at the approximate locations shown on Figure 2.

4.1 Monitoring Well Installation Procedures

Prior to beginning drilling at the site, a well permit was obtained from the Alameda County Flood Control and Water Conservation District (Appendix A). Underground Service Alert was notified in order to have all underground utilities located and marked.

On June 16-18, 1994, three groundwater monitoring wells, MW-2, MW-3 & MW-4, were installed in the locations shown on Figure 3. The wells were drilled using a hollow-stem continuous flight auger drilling rig supplied and operated by Great Sierra Exploration in Novato, California (License #C57-

610487). Drilling and soil sampling was performed under the direct supervision of Michael Mulhern, California Certified Engineering Geologist #1507. A recently calibrated photoionization detector (PID) was used to field screen vapor concentrations and a log of the boring was maintained. Diagrammatic boring logs with soil descriptions, field screened PID readings and a pictorial cross section of the finished wells are included in Appendix B. Soil descriptions are based on the USCS classification system.

During drilling operations, soil samples were collected at minimum five foot intervals extending from a depth of five feet to the total depth of the wells (60 feet bgs), and at the first sign of free water. Soil samples were collected from each well by driving a 2 inch diameter split spoon sampler containing three 6 inch long thin walled brass tubes into undisturbed soil beneath the auger. The samples were then sealed, labeled, placed on ice and transported under standard chain of custody to Coast to Coast Analytical, a state certified laboratory in San Jose, California. The samples were analyzed for TPH, BTEX and total lead using EPA methods 8015M, 8020 and 7420 respectively. Soil sample analyses are included in the Laboratory Report presented in Appendix E.

The monitoring wells were constructed of four-inch diameter schedule 40 PVC casing with 0.01-inch slots over the perforated interval. The wells were installed to a total depth of 60 feet bgs. Slotted casing was installed from 30 feet bgs to total well depth. The annular space around the slotted interval was filter packed with #2/20 Lonestar sand from a depth of approximately 25 feet bgs to total depth of the well. A two to three foot thick bentonite seal, which was hydrated in-place, was set over each filter pack. Concrete was used as the annular seal from the ground surface to the top of the bentonite. The wells were secured with locking caps and protective traffic-rated well boxes set into the concrete approximately one inch higher than the surrounding ground surface. See Appendix B for well construction details.

After the filter packs were placed and the bentonite seals and concrete had set, the wells were surged with a surge block to set the filter packs and remove any fine sediments. The wells were then further developed a minimum of 48 hours later by bailing until the water produced was visually free of sediment.

All soil cuttings and discharged water is contained on site in covered 55-gallon (17H) DOT approved drums which were sealed and labeled as pending lab analysis. Final disposal of the soil and groundwater will be based on laboratory results.

4.2 Monitoring Well Sampling Procedures

After the monitoring wells had been completed and set up, the wellheads were surveyed by a California Registered Surveyor to determine their elevation relative to a City of Livermore bench mark located on the northeast corner of First street and South L street. A copy of the survey report is included in Appendix C. On June 19, 1994, the groundwater monitoring wells were measured for depth to water to an accuracy of 0.01 feet. The measuring point for each well was a notched point at the top of the well casing on the north side. Wells MW-2, MW-3 and MW-4 were then purged and sampled. Purging was accomplished using a Grundfos Rediflo pump. The pump and hose were decontaminated between each well with TSP and a standard 3-bucket wash method. The wells were purged until three well volumes had been removed and temperature, conductivity and pH had stabilized. These parameters along with all other pertinent data were recorded on Water Sample Logs (Appendix D). The purged water was placed in 55 gallon DOT approved drums which were sealed and labeled as pending laboratory analysis.

The wells were allowed to recharge to a minimum of 80 percent, then sampled using a disposable polyethylene bailer. The samples, along with a trip blank, were labeled and placed on blue ice for transportation under standard chain of custody to Coast to Coast Analytical, a state certified laboratory in San Jose, California. All samples were analyzed to minimum detection limits for TPH, BTEX and total lead using EPA methods 8015M, 8020 and 7421, respectively. Laboratory Reports for Water Sample Analyses are included in Appendix F.

4.3 Soil and Groundwater Investigation Results

4.3.1 Geology and Hydrogeology

The site is located on the floor of the Livermore Valley at an elevation of approximately 480 feet above mean sea level with a slight regional gradient towards the west. The subject property lies approximately one mile south of the Arroyo Las Positas Creek and one half mile north of the Arroyo Mocho Creek.

As reported on the boring logs in Appendix B, predominantly silty sand, sandy gravel and gravel with sand were encountered to depth of approximately 15 to 20 feet bgs, and intermittent layers of sandy clay, silty sand and gravelly sand were encountered from 20 feet bgs to total boring depths (60 feet bgs). During drilling, groundwater was encountered in the clay and sand at a depth of approximately 40 feet bgs in the wells.

Depth to water measurements collected 2 days after the wells were completed and developed were between 37.15 to 38.15 feet bgs (Table 3 and Appendix D). Groundwater gradient was calculated to be approximately 0.021 ft/ft with groundwater flow in a northwesterly direction (Figure 4).

4.3.2 Soil Sampling Results

A petroleum odor was noted in the drill cuttings taken from well MW-2 at 45 feet bgs and from well MW-3 from 5 feet bgs to total depth. No product odor was noted in the cuttings from well MW-4. Head space field screening concentrations using a photoionization detector (PID) ranged between 0 and 2,000 parts per million vapor (ppmv) in well MW-2, between 0 and 3,000 ppmv in well MW-3 and between 0 and 9 ppmv in well MW-4. Field screened PID readings are included on the boring logs in Appendix B.

As reported in Table 1 and Appendix E, TPH was detected in the soil predominantly in well MW-3 at concentrations ranging between ND (MW-3 @ 20') and 390 mg/Kg (MW-3 @ 10' and 15'). Benzene concentrations in well MW-3 ranged between ND and 0.62 mg/Kg (MW-3 @ 45'). In well MW-2, TPH was reported at 40 to 60 feet bgs at a concentration ranging from 2 mg/Kg (MW-2 @ 60') to 77 mg/Kg (MW-2 @ 40'); benzene concentrations ranged from 0.04 to 0.36 mg/Kg. TPH was not detected in the sample from MW-4; benzene was detected at a low concentration of 0.009 mg/Kg.

4.3.3 Groundwater Sampling Results

Analytical results for groundwater samples collected on June 19, 1994 are summarized in Table 2 and shown graphically in Figure 5; the complete laboratory report is contained in Appendix F. State of California concentrations for drinking water standards are included in Table 2. Hydrocarbons were detected in the groundwater samples from all three wells. TPH concentrations ranged between 810 µg/L (MW-4) and 290,000 µg/L (MW-2). Benzene was also detected in all three wells at concentrations of 12 µg/L in well MW-4, 640 µg/L in MW-3 and 18,000 µg/L in MW-2. These concentrations for benzene exceed the California Department of Health Services Drinking Water Action Level of 1 part per billion (CCR Title 22, Section 64444.5).

Lead was detected in the groundwater samples from wells MW-2 and MW-4 at low concentrations of 0.016 mg/L and 0.007 mg/L, respectively.

5.0 CONCLUSIONS

This investigation found that the soil and groundwater has been impacted by hydrocarbon contamination near the capillary fringe in the former tank location. The highest soil contamination (TPH, 390 mg/Kg) was reported in well MW-3 which is situated 30 feet south of the former tank location. Groundwater contamination was greatest in well MW-2 (TPH, 290,000 µg/L); this well is downgradient of the former tank location.

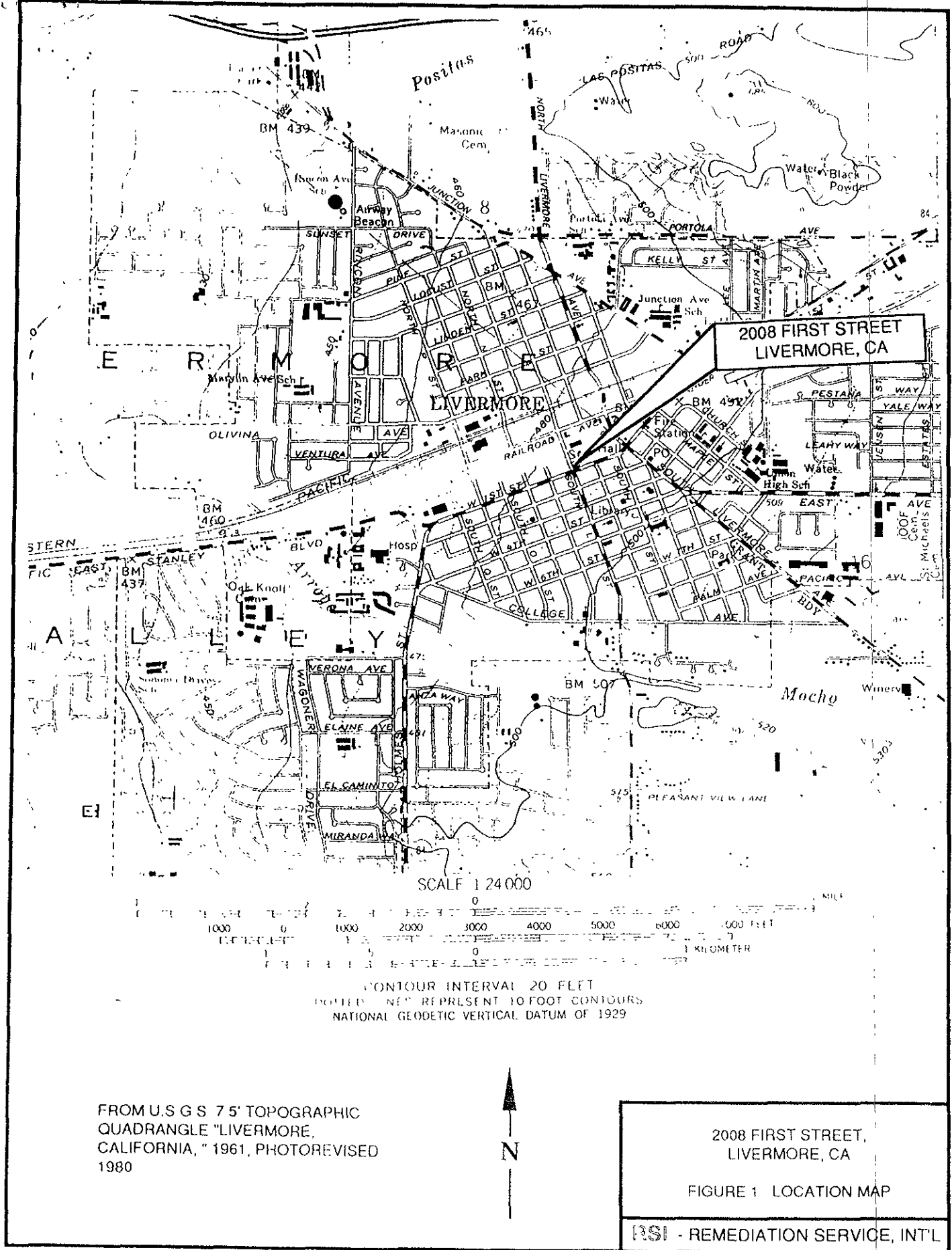
6.0 LIMITATIONS

The discussion, conclusion and any recommendations presented in this report are based on the professional performance of the personnel who conducted the investigations, the observations of the field personnel, the results of laboratory analyses performed by a state certified laboratory, any referenced documents and our understanding of the regulations of the State of California and any other applicable local regulations.

Variations in the soil and groundwater conditions may exist beyond the points explored in this investigation.

The services performed by Remediation Service, Int'l and it's sub-contractors have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California. No other warranty, expressed or implied, is made.

FIGURES



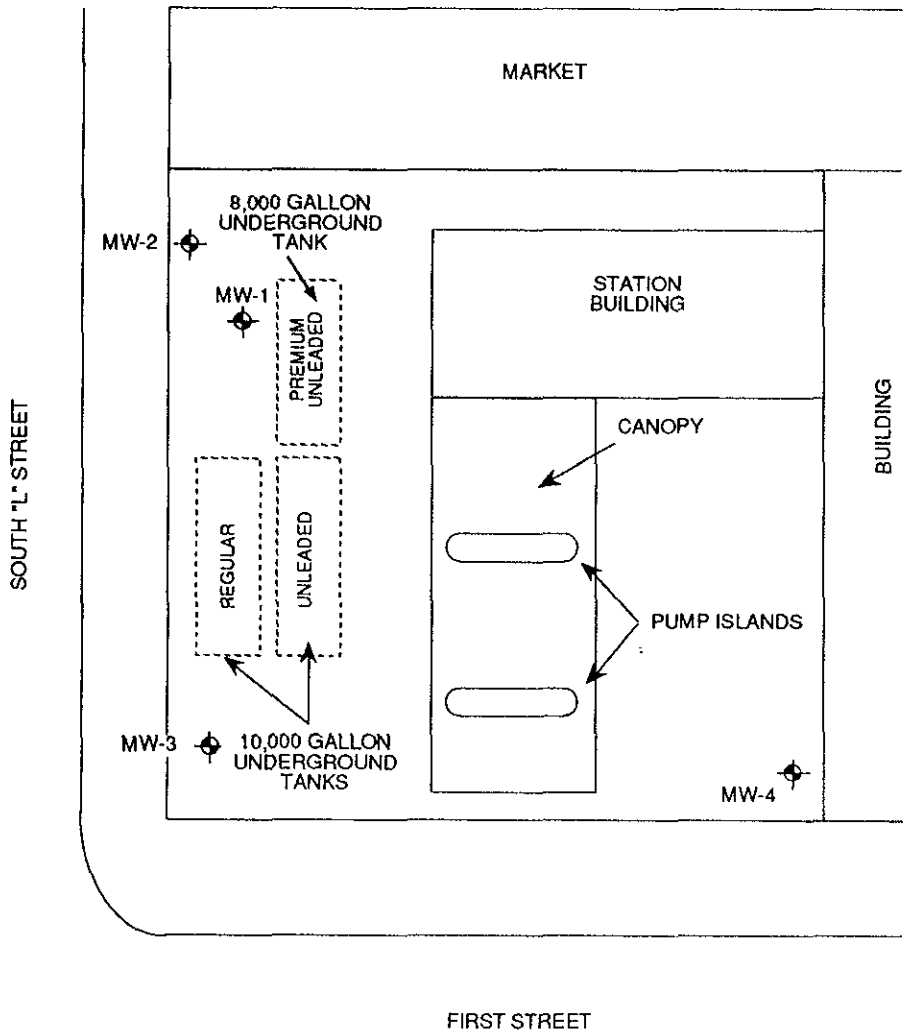
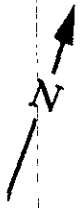
FROM U.S.G.S 7.5' TOPOGRAPHIC
 QUADRANGLE "LIVERMORE,
 CALIFORNIA," 1961, PHOTOREVISED
 1980



2008 FIRST STREET,
 LIVERMORE, CA

FIGURE 1 LOCATION MAP

RSI - REMEDIATION SERVICE, INT'L



MAP NOT TO SCALE
SURVEYED DISTANCE BETWEEN WELLS, 1" = 25'

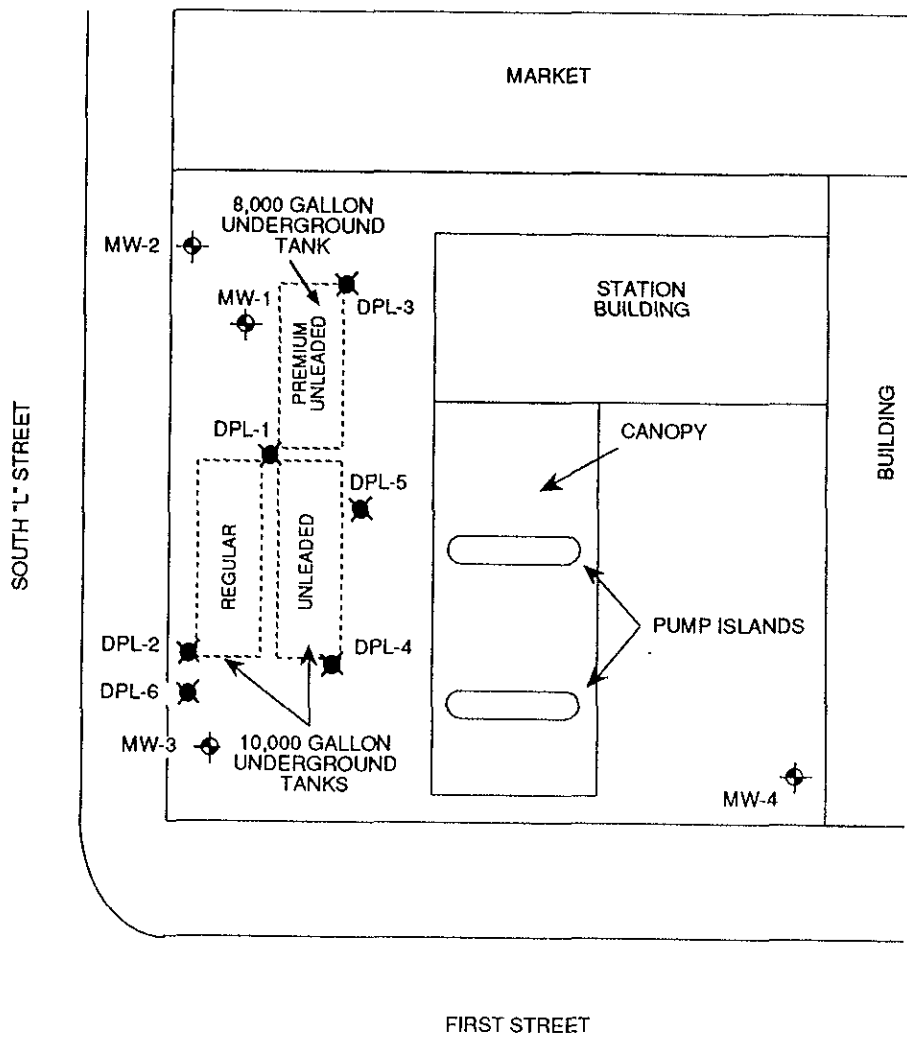
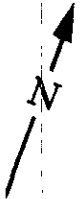
LEGEND

 GROUNDWATER MONITORING WELL LOCATION

2008 FIRST STREET,
LIVERMORE, CA 94550



FIGURE 2: PLOT PLAN





MAP NOT TO SCALE
 SURVEYED DISTANCE BETWEEN WELLS, 1" = 25'

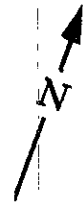
LEGEND

-  GROUNDWATER MONITORING WELL LOCATION
-  GEOMATICS AND ON-SITE TECHNOLOGIES BOREHOLE LOCATIONS

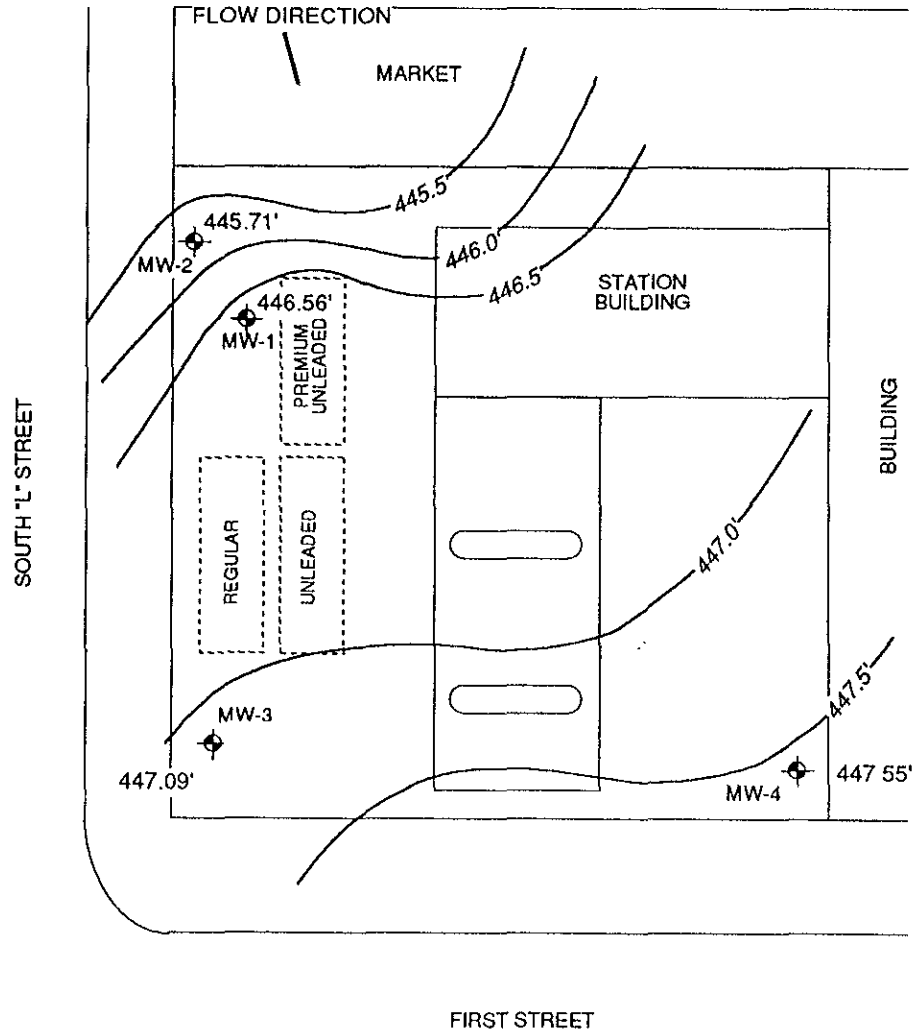
2008 FIRST STREET,
 LIVERMORE, CA 94550

FIGURE 3 BOREHOLE LOCATIONS FROM
 2/88 & 9/88 ASSESSMENTS







APPROXIMATE
GROUNDWATER
FLOW DIRECTION



MAP NOT TO SCALE.
SURVEYED DISTANCE BETWEEN WELLS, 1" = 25'

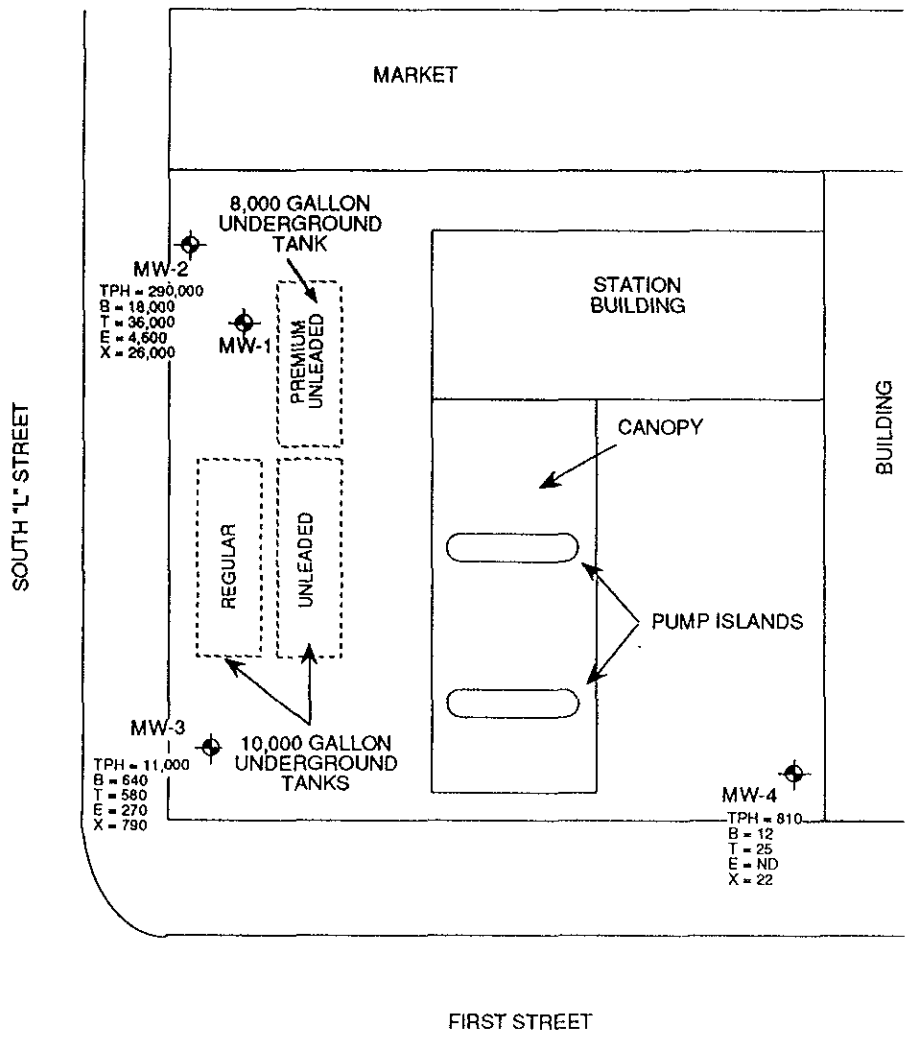
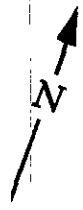
LEGEND

- 445.71'  GROUNDWATER MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- MW-2
- 446.0'  GROUNDWATER ELEVATION CONTOUR LINE

2008 FIRST STREET,
LIVERMORE, CA 94550

FIGURE 4 PLOT PLAN WITH
GROUNDWATER ELEVATION CONTOURS
JUNE 19, 1994





MAP NOT TO SCALE.
SURVEYED DISTANCE BETWEEN WELLS, 1" = 25'.

LEGEND

TPH = ND
 B = ND
 T = ND
 E = ND
 X = ND


 GROUNDWATER MONITORING WELL LOCATION WITH
 TPH & BTEX CONCENTRATIONS IN µg/L

2008 FIRST STREET,
LIVERMORE, CA 94550

FIGURE 5- PLOT PLAN WITH
GROUNDWATER ANALYTICAL RESULTS
JUNE 19, 1994



TABLES

**TABLE 1
SUMMARY OF ANALYTICAL RESULTS FROM SOIL SAMPLES
COLLECTED DURING SOIL BORING**

**2008 FIRST STREET
LIVERMORE, CA**

Results are in mg/Kg

SAMPLE DATE	SAMPLE DESCRIPTION	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL LEAD
6/16/94	MW-4 @ 40'	ND	0.009	17	0.006	0.02	12
6/17/94	MW-3 @ 10'	390	0.4	2.2	2.2	11	150
6/17/94	MW-3 @ 15'	390	0.3	1.9	2.2	11	190
6/17/94	MW-3 @ 20'	ND	0.17	0.012	0.006	0.081	12
6/17/94	MW-3 @ 30'	300	ND	1.6	1.7	8.3	14
6/17/94	MW-3 @ 35'	130	1.1	3.6	1.1	4.9	12
6/17/94	MW-3 @ 45'	230	0.62	3.8	2.5	10	28
6/17/94	MW-3 @ 50'	100	0.35	0.82	0.56	2	7
6/17/94	MW-3 @ 55'	270	0.47	3	1.9	6.7	24
6/17/94	MW-2 @ 40'	77	0.36	2.5	1.1	7	10
6/18/94	MW-2 @ 45'	28	0.3	0.16	0.4	0.97	8
6/18/94	MW-2 @ 50'	6	0.04	0.08	0.07	0.3	9
6/18/94	MW-2 @ 60'	2	0.045	0.18	0.041	0.23	14

Lead
since ~~benzene~~ levels are high - recommend
excavation of soil (Pb also found in GW)
if site is ever demolished

TPH = Total petroleum hydrocarbons as gasoline

TPH & BTEX analyzed by EPA methods 8015M & 8020, respectively.

Total Lead analyzed by EPA method 7420.

**TABLE 2
SUMMARY OF LABORATORY ANALYSIS OF GROUNDWATER**

**2008 FIRST STREET
LIVERMORE, CA**

TPH & BTEX Concentrations are in µg/L (parts per billion)
Total Lead Concentrations are in mg/L (parts per million)

WELL #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL LEAD
** MW-1	8/2/90	24,000	1,300	1,300	400	2,700	NA
	10/10/91	2,200	430	170	100	290	NA
	1/8/92	1,200	200	120	30	150	NA
	5/11/93	960	66	8	41	90	NA
	9/21/93	1,900	311	118	33.8	112	NA
	5/22/94	10,000	690	1100	340	1200	NA
MW-2	6/19/94	290,000	18,000	36,000	4,600	26,000	0.016
MW-3	6/19/94	11,000	640	580	270	790	ND
* MW-4	6/19/94	810	12	25	ND	22	0.007
Title 22 CCR MCL		—	1	—	680	1,750	—
DMS mcl for Pb							.05

TPH = Total petroleum hydrocarbons (gasoline)

* could there be off site source?

** TPH & Benzene levels may be lower than MW-2 due to screen interval is below water level.

**TABLE 3
GROUNDWATER ELEVATION DATA**

**2008 FIRST STREET
LIVERMORE, CA**

Measurements are in feet.

Well	Date Measured	Depth to Water*	Well Head Elevation*	Water Table Elevation*	Change in Elevation
MW-1	9/22/88	60.50	487.00	426.50	
	8/2/90	43.10		443.90	17.40
	10/10/91	66.39		420.61	-23.29
	1/8/92	68.72		418.28	-2.33
	5/11/93	34.76		452.24	33.96
	9/21/93	38.70		448.30	-3.94
	5/22/94	33.57		453.43	5.13
	6/19/94	37.51	484.07	446.56	
MW-2	6/19/94	38.15	483.86	445.71	
MW-3	6/19/94	37.15	484.24	447.09	
MW-4	6/19/94	37.49	485.04	447.55	

*Elevations are in feet above mean sea level.

Well Head Elevations to top of casing surveyed 6/94 to City of Livermore Bench Mark: street monument located at the intersection of 1st. street and S. L street.
Bench Mark elevation = 483.82', based on USGS Sea Level Datum 1929.

APPENDICES

APPENDIX A
WELL PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 2008 FIRST STREET
LIVERMORE, CA. 94550

PERMIT NUMBER _____

LOCATION NUMBER _____

CLIENT

Name DESERT PETROLEUM.
Address P.O. Box 1601 Voice 805-644-6784
City OXNARD CA Zip 93032

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name RSI CONTACT RICHARD PILAT Fax 805-644-5892
Address 2060 KNOLL DR. Voice 805-6540720
City VENTURA CA Zip 93001

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring <u>X</u>	Well Destruction _____

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic _____	Industrial _____	Other <u>N/A</u>
Municipal _____	Irrigation _____	

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary _____	Air Rotary _____	Auger <u>X</u>
Cable _____	Other _____	

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. 610487

E. WELL DESTRUCTION. See attached.

WELL PROJECTS

Drill Hole Diameter <u>11</u> in.	Maximum _____
Casing Diameter <u>4</u> in.	Depth <u>65</u> ft
Surface Seal Depth <u>35'</u> ft.	Number <u>3</u>

GEOTECHNICAL PROJECTS

Number of Borings _____	Maximum _____
Hole Diameter _____ in.	Depth _____ ft

ESTIMATED STARTING DATE 6/16/94

ESTIMATED COMPLETION DATE 6/17/94

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE

RWIL

Date 6/10/94



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

10 June 1994

*Permits OK
Verba Wyman
10:00 a
6/13/94 RD*

Mr. Rick Pilat
R.S.I., International
2060 Knoll Drive, Suite 200
Ventura, CA 93001

Dear Mr. Pilat:

Enclosed are the permit applications you requested for a monitoring well construction project in Livermore.

Please note that permit condition A-1 requests that an application be submitted five days prior to your proposed start of work.

If you have any questions, please contact Craig Mayfield at extension 233 or me at extension 235.

Very truly yours,

Wyman Hong

Wyman Hong
Water Resources Technician II

WH:mm
Enc.

APPENDIX B
SOIL BORING LOG

DEPTH (feet)	SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
0							3" asphalt surface
						GC	GRAVEL WITH SAND, some clay, dense, dry, grey brown, no product odor.
5						SM	SITLY SAND, with some gravel, dense, dry, grey brown, no product odor.
10		28/50	0			GC	GRAVEL WITH SAND, some clay, dense, dry, med. brown no product odor.
15		10/12/14	1			SP	MED. TO COARSE GRAINED SAND, with some gravel, dense, dry, med. brown, no product odor.
20		30/30/50	2			GC	GRAVEL WITH SAND, some clay, dense, sit. moist, grey brown, no product odor
25		27/32/40	0			CL	CLAY WITH COARSE SAND, some gravel, dense, low plasticity, sit. moist, d. brown, no product odor.
30		17/20/26	0				
35		13/30/50	5				

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Mulhern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: NW corner, 7' N & 10' W of MW-1

PROJECT: 2008 First Street, Livermore, CA

WELL NO.: MW-2

DATE: 6/17/94

PAGE 1 OF 2



2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

DEPTH (feet), SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
35						
40	6/7/10	14				First water encountered at approx. 40' bgs.
45	34/50	2000			CL	SANDY CLAY, some gravel, low plasticity, v. dense, wet, d. brown, strong product odor.
50	35/50	150				
55						
60	23/25/30	50				
65						
70						

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Mulhern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: NW corner, 7' N & 10' W of MW-1

PROJECT: 2008 First Street, Livermore, CA

WELL NO.: MW-2

DATE: 6/18/94

PAGE 2 OF 2




2060 KNOLL DR, SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

DEPTH (feet)	SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
0							2" asphalt surface
5	X	4/5/05	0			GC	SANDY GRAVEL, with clasts to 3", loose, slit. moist, lt. brown, no product odor.
10	X	50 - 6"	3000			GP	GRAVEL, with some sand and clasts to 2", v. dense, dry, d. brown, strong product odor.
15	X	7/11/19	75			CL	SANDY CLAY, with trace gravel, med. plasticity, med. dense, slit. moist, d. brown, slit. product odor.
20	X	10/10/15	45			CH	SILTY CLAY, with trace sand, high plasticity, med. dense, slit. moist, brown, slit. product odor.
25	X	8/7/21	2			CL	SANDY CLAY, with some gravel, low plasticity, med. dense, slit. moist, brown, slit. product odor.
30	X	15/15/20	55				
35	X	9/12/16	30				

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Mulhern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: SW corner, 48.5' S & 15' E of MW-1


PROJECT: 2008 First Street, Livermore, CA
 WELL NO.: MW-3
 DATE: 6/17/94
 PAGE 1 OF 2


 2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

DEPTH (feet)	SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
35							
40	X	6/9/55	2				First water encountered at approx. 40' bgs.
45	X	4/8/06	45			CL	SANDY CLAY, with some gravel, low plasticity, loose, wet, brown, sit. product odor.
50	X	67/50 - 5"	140			SC	GRAVELLY SAND, with some clay, dense, wet, brown, sit. product odor.
55	X	68 - 6"	50				
60	X	30/50	3				
65							
70							

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Mulhern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: SW corner, 48.5' S & 15' E of MW-1

PROJECT: 2008 First Street, Livermore, CA
 WELL NO.: MW-3
 DATE: 6/17/94
 PAGE 2 OF 2


 2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

DEPTH (feet)	SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
0							6" asphalt surface
5	X	5/6/07	0			GC	CLAYEY GRAVEL, with clasts to 1", loose, slit. moist, d. brown, no product odor.
10	X	16/35/50	0			GC	SANDY GRAVEL, with clasts to 1", dense, dry, lt. brown, no product odor.
15	X	47/50 - 5"	0				
20	X	75 - 6"				CL	CLAY, with some sand & gravel, low plasticity, v. dense, slit. moist, d. brown, no product odor.
25	X	20/15/30	3			CL	CLAY, with some sand & trace gravel, moderate plasticity, v. dense, moist, d. brown, no product odor.
30	X	8/12/18	2			SM	SILTY SAND, dense, slit. moist, lt. brown, no product odor.
35	X	7/12/14				CL	CLAY, with some sand & trace gravel, moderate plasticity, med. dense, slit. moist, d. brown, no product odor.

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Mulhern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: SE corner, 34.5' S & 88' E of MW-1

PROJECT: 2008 First Street, Livermore, CA

WELL NO.: MW-4

DATE: 6/16/94

PAGE 1 OF 2



2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

DEPTH (feet)	SAMPLE INT.	BLOWS PER 1/2 FOOT	PID (ppm)	WELL CONST.	LITHOLOGY	USCS	DESCRIPTION
35							
40	X	13/30/50-4"	9			CL	CLAY, with some sand & trace gravel, moderate plasticity, med. dense, slit. moist, d. brown, no product odor.
45	X	50/60 - 3"	0			SP	MED. TO COARSE GRAINED SAND, with some gravel, v. dense, saturated, lt. brown, no product odor.
50	X		0				
55	X		0				
60	X		0				
65							
70							

Drilled By: Great Sierra Drilling, #C57-610487
 Logged By: D. Wilson
 Reviewed By: Michael Muthern, EG #1507
 Drilling Method: Hollow Stem Auger
 Hole Diameter: 10"
 Total Depth: 60'
 Sampling Method: Split Spoon Sampler
 Casing: 4" PVC
 Screen: 4" x 0.02" PVC
 Filter Pack: #2/20 Sand
 Borehole location: SE corner, 34.5' S & 88' E of MW-1

PROJECT: 2008 First Street, Livermore, CA

WELL NO.: MW-4

DATE: 6/16/94

PAGE 2 OF 2



2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
 (805) 644-5892 • FAX (805) 654-0720

APPENDIX C
MONITORING WELL ELEVATION SURVEY

Brian Kangas Foulk

June 24, 1994
BKF No. 945037-51

Ms. Heather Davis
Remediation Services Int'l.
2060 Knoll Dr.
Suite 200
Ventura, Ca. 93003

Consulting Engineers
1990 N California Blvd
Suite 250
Walnut Creek, CA 94596
510/937-6202
FAX 510/937-6260

Subject: Monitor Well Survey- 2008 First St., Livermore.

Dear Ms. Davis,

The wells for the site above were surveyed for horizontal location and elevation by field methods using a City of Livermore bench mark, tied to mean sea level datum. The findings are as follows:

<u>Well No.</u>	<u>Elevation, North rim</u>	<u>Elevation, Top casing</u>	<u>Northing</u>	<u>Easting</u>
MW 1	484.49'	484.07'	1082.06	977.01
MW 2	484.28'	483.86'	1088.98	967.28
MW 3	484.47'	484.24'	1028.87	992.11
MW 4	485.32'	485.04'	1047.53	1064.79

Bench Mark- A street monument located at the intersection of First St. and South L St. Elevation taken as 483.82',

Basis of Bearing- Face of curb line of First St. taken as North 69° 30' 00" East from Assessor map data.

If you have any questions please call.

Sincerely,

BRIAN KANGAS FOULK



Barry Williams
Supervisor of Surveys
Professional Land Surveyor #6711
Expires 6-30-96



rev. 7-19-94

APPENDIX D
WATER SAMPLE LOG

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 2008 First St., Livermore, CA

WELL NUMBER: MW-2

WEATHER CONDITIONS: Sunny, warm, clear

FIELD OBSERVATIONS: Well & traffic box in excellent condition

TOTAL DEPTH OF WELL: 60.00 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 26.74 gallons

DEPTH TO WATER: 38.15 feet PURGING METHOD: Grundfos Rediflo Pump

DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (μ mhos/cm)	Comments
10:46	5	7.50	82.6	0.12	Lt. brown, no odor, foggy
10:48	10	7.41	86.2	0.12	Lt. brown, no odor, foggy
10:50	15	7.26	89.5	0.10	Lt. brown, no odor, foggy
10:52	20	7.27	90.2	0.10	Lt. brown, no odor, foggy
10:54	25	7.30	91.7	0.10	Lt. brown, strong HC odor, foggy
10:56	30	7.28	91.5	0.10	Lt. brown, strong HC odor, foggy
10:58	35	7.21	95.5	0.10	Lt. brown, strong HC odor, foggy
11:00	40	7.28	96.4	0.10	Clear, strong HC odor, no turbidity
11:02	45	7.28	96.0	0.10	Clear, strong HC odor, no turbidity

TOTAL DISCHARGE: 81 gallons WELL VOLUMES REMOVED: 3.0

TIME SAMPLE COLLECTED: 11:25 AM

DEPTH TO WATER AT TIME OF SAMPLE: 39.00 feet PERCENT RECHARGE: 96

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's, 1 x 1 L amber bottle

SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

RSI
REMEDATION SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 2008 First St., Livermore, CA

WELL NUMBER: MW-3

WEATHER CONDITIONS: Sunny, warm, clear

FIELD OBSERVATIONS: Well & traffic box in excellent condition

TOTAL DEPTH OF WELL: 60.00 feet CASING DIAMETER: 4 inches

DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 27.97 gallons

DEPTH TO WATER: 37.15 feet PURGING METHOD: Grundfos Rediflo Pump

DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance (μ mhos/cm)	Comments
9:40	5	7.63	73.2	2.1	Lt. brown, no odor, foggy
9:42	10	7.61	74.2	1.32	Lt. brown, no odor, foggy
9:44	15	7.62	75.0	1.26	Lt. brown, slt. HC odor, foggy
9:46	20	7.64	76.3	1.39	Lt. brown, slt. HC odor, foggy
9:48	25	7.46	78.3	1.47	Lt. brown, slt. HC odor, foggy
9:50	30	7.60	80.8	1.53	Lt. brown, slt. HC odor, foggy
9:52	35	7.60	82.8	1.52	Lt. brown, slt. HC odor, foggy
9:54	40	7.60	86.2	1.57	Clear, strong HC odor, no turbidity
9:56	45	7.61	88.0	1.57	Clear, strong HC odor, no turbidity

TOTAL DISCHARGE: 75 gallons WELL VOLUMES REMOVED: 2.7

TIME SAMPLE COLLECTED: 10:15 AM

DEPTH TO WATER AT TIME OF SAMPLE: 37.59 feet PERCENT RECHARGE: 98

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's, 1 x 1 L amber bottle

SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

RCI
REMEDIAL SERVICE, INT'L.
2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

WATER SAMPLE LOG

DATE: 6/19/94

PROJECT LOCATION: 2008 First St., Livermore, CA

WELL NUMBER: MW-4

WEATHER CONDITIONS: Sunny, warm, clear

FIELD OBSERVATIONS: Well & traffic box in excellent condition

TOTAL DEPTH OF WELL: 60.00 feet CASING DIAMETER: 4 inches
DEPTH TO FREE PRODUCT: NONE ONE WELL VOLUME = 27.55 gallons
DEPTH TO WATER: 37.49 feet PURGING METHOD: Grundfos Rediflo Pump
DEPTHS MEASURED FROM: Top of well casing, north side.

WELL PURGING DATA

Time	Discharge (gallons)	pH	Temp in F.	Specific Conductance ($\mu\text{mhos}/\text{cm}$)	Comments
8:10	5	8.71	68.9	1.04	Clear, no odor, no turbidity
8:23	10	8.41	59.2	1.08	Clear, no odor, no turbidity
8:25	15	8.60	58.7	0.81	Clear, no odor, no turbidity
8:27	20	8.13	58.0	0.78	Clear, no odor, no turbidity
8:29	25	8.11	57.7	0.73	Clear, no odor, no turbidity
8:31	30	8.03	57.6	0.66	Clear, no odor, no turbidity
8:33	35	8.06	57.3	0.66	Clear, no odor, no turbidity
8:35	40	8.06	57.3	0.63	Clear, no odor, no turbidity
8:37	45	8.07	57.3	0.64	Clear, no odor, no turbidity

TOTAL DISCHARGE: 83 gallons WELL VOLUMES REMOVED: 3.0

TIME SAMPLE COLLECTED: 9:25 AM

DEPTH TO WATER AT TIME OF SAMPLE: 37.70 feet PERCENT RECHARGE: 99

METHOD OF SAMPLE COLLECTION: Disposable Bailer

APPEARANCE OF SAMPLE: Clear

AMOUNT AND SIZE OF SAMPLE CONTAINERS: 4 x 40 ML VOA's, 1 x 1 L amber bottle

SAMPLE TRANSPORTED TO: Coast to Coast Analytical, San Jose

SAMPLED BY: DW

RCI
REMEDATION SERVICE, INT'L.

2060 KNOLL DR., SUITE 200, VENTURA, CA 93003
(805) 644-5892 • FAX (805) 654-0720

APPENDIX E
LABORATORY REPORT
AND
CHAIN OF CUSTODY
FOR
SOIL SAMPLES



COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-10
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 40'	Soil	Debbie Wilson	06/17/94 1610	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.05	0.36	
Toluene		0.05	2.5	
Ethylbenzene		0.05	1.1	
Xylenes		0.05	7.0	
Total Petroleum Hydrocarbons (Gasoline)		10.	77.	
Percent Surrogate Recovery			125.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#4\622B623
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Dudley Torres
Organics Manager

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COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-11
Project : Desert Petroleum Station #795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

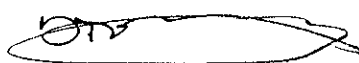
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 45'	Soil	Debbie Wilson	06/18/94 0930	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.05	0.30	
Toluene		0.05	0.16	
Ethylbenzene		0.05	0.40	
Xylenes		0.05	0.97	
Total Petroleum Hydrocarbons (Gasoline)		10.	28.	
Percent Surrogate Recovery			122.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623B311
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager



COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-12
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

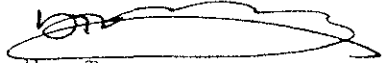
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 50'	Soil	Debbie Wilson	06/18/94 0945	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.01	0.04	
Toluene		0.01	0.08	
Ethylbenzene		0.01	0.07	
Xylenes		0.01	0.30	
Total Petroleum Hydrocarbons (Gasoline)		2.	6.	
Percent Surrogate Recovery			122.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623B312
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager

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EXCELLENCE
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NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-13
Project : Desert Petroleum Station
#795
Analyzed : 06/21/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 60'	Soil	Debbie Wilson	06/18/94 1010	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.005	0.045	
Toluene		0.005	0.18	
Ethylbenzene		0.005	0.041	
Xylenes		0.005	0.23	
Total Petroleum Hydrocarbons (Gasoline)		1.	2.	
Percent Surrogate Recovery			102.	

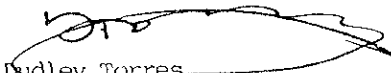
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\621B306
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager



COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-1
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 10'	Soil	Debbie Wilson	06/17/94 0840	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1,2
Benzene		0.3	0.4	
Toluene		0.3	2.2	
Ethylbenzene		0.3	2.2	
Xylenes		0.3	11.	
Total Petroleum Hydrocarbons (Gasoline)		50.	390.	

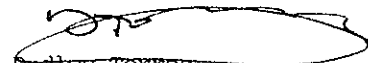
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Surrogate was diluted out due to sample dilution.

06/27/94
GC#2\623B308
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager



COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-2
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 15'	Soil	Debbie Wilson	06/17/94 0850	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1,2
Benzene		0.3	0.3	
Toluene		0.3	1.9	
Ethylbenzene		0.3	2.2	
Xylenes		0.3	11.	
Total Petroleum Hydrocarbons (Gasoline)		50.	390.	

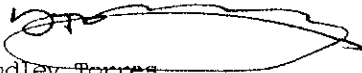
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Surrogate was diluted out due to sample dilution.

06/27/94
GC#2\623B309
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager

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EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
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San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-3
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 20'	Soil	Debbie Wilson	06/17/94 0900	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.005	0.17	
Toluene		0.005	0.012	
Ethylbenzene		0.005	0.006	
Xylenes		0.005	0.081	
Total Petroleum Hydrocarbons (Gasoline)		1.	ND	
Percent Surrogate Recovery			105.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#4\622B618
DT/eta3(dw)/jst
S-A-062194

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Ventura, CA 93003

Lab Number : JK-1945-4
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 30'	Soil	Debbie Wilson	06/17/94 0920	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1,2
Benzene		0.3	ND	
Toluene		0.3	1.6	
Ethylbenzene		0.3	1.7	
Xylenes		0.3	8.3	
Total Petroleum Hydrocarbons (Gasoline)		50.	300.	

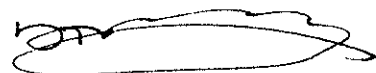
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Surrogate was diluted out due to sample dilution.

06/27/94
GC#2\623B310
DT/eta3(dw)/jst
S-A-062194

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CLIENT: Rick Pilat
R.S.I.
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Ventura, CA 93003

Lab Number : JK-1945-5
Project : Desert Petroleum Station
#795
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

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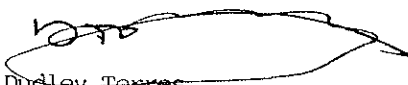
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 35'	Soil	Debbie Wilson	06/17/94 0930	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.03	1.1	
Toluene		0.03	3.6	
Ethylbenzene		0.03	1.1	
Xylenes		0.03	4.9	
Total Petroleum Hydrocarbons (Gasoline)		5.	130.	
Percent Surrogate Recovery			104.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\621B312
DT/eta3(dw)/jst
S-A-062194

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Ventura, CA 93003

Lab Number : JK-1945-6
Project : Desert Petroleum Station
#795
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

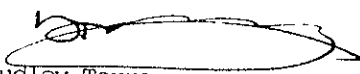
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 45'	Soil	Debbie Wilson	06/17/94 1000	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				
Benzene				1
Toluene		0.03	0.62	
Ethylbenzene		0.03	3.8	
Xylenes		0.03	2.5	
Total Petroleum Hydrocarbons (Gasoline)		0.03	10.	
Percent Surrogate Recovery		5.	230.	
			114.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\621B313
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
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Dudley Torres
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Ventura, CA 93003

Lab Number : JK-1945-7
Project : Desert Petroleum Station
#795
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 50'	Soil	Debbie Wilson	06/17/94 1010	06/18/94

CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.03	0.35	
Toluene		0.03	0.82	
Ethylbenzene		0.03	0.56	
Xylenes		0.03	2.0	
Total Petroleum Hydrocarbons (Gasoline)		5.	100.	
Percent Surrogate Recovery			71.	

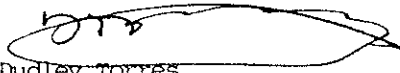
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\621B318
DT/eta3(dw)/jst
S-A-062194

Respectfully submitted,
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Dudley Torres
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Ventura, CA 93003

Lab Number : JK-1945-8
Project : Desert Petroleum Station
#795
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 55'	Soil	Debbie Wilson	06/17/94 1020	06/18/94
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1,2
Benzene		0.03	0.47	
Toluene		0.03	3.0	
Ethylbenzene		0.03	1.9	
Xylenes		0.03	6.7	
Total Petroleum Hydrocarbons (Gasoline)		5.	270.	

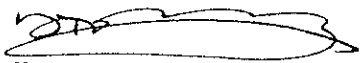
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) EXTRACTED by EPA 5030 (purge-and-trap)
- (2) Surrogate was diluted out due to sample dilution.

06/27/94
GC#2\621B319
DT/eta3(dw)/jst
S-A-062194

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Ventura, CA 93003

Lab Number : JK-1945-9
Project : Desert Petroleum Station
#795
Analyzed : 06/23/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW4 @ 40'	Soil	Debbie Wilson	06/16/94 0955	06/18/94

CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE
BTEX + TPH (Gasoline)				1
Benzene		0.005	0.009	
Toluene		0.005	17.	
Ethylbenzene		0.005	0.006	
Xylenes		0.005	0.020	
Total Petroleum Hydrocarbons (Gasoline)		1.	ND	
Percent Surrogate Recovery			106.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623B313
DT/eta3(dw)/jst
S-A-062194

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QC Batch ID: S-A-062194

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 06/21/94
Analyzed by: LD
Method : EPA 8020/8015M

METHOD BLANK
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED		
METHOD BLANK	Solid				
CONSTITUENT	(CAS RN)	*PQL mg/Kg	RESULT mg/Kg	NOTE	
BTEX + TPH (Gasoline)				1	
Benzene		0.005	ND		
Toluene		0.005	ND		
Ethylbenzene		0.005	ND		
Xylenes		0.005	ND		
Total Petroleum Hydrocarbons (Gasoline)		1.	ND		
Percent Surrogate Recovery			99.		


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*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623A351
DT/eta3(dw)/jst
JK1945-13

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager



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QC Batch ID: S-A-062194

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 06/21/94
Analyzed by: LD
Method : EPA 8020/8015M

QC SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED			
QC SPIKE	Solid					
CONSTITUENT		*PQL mg/Kg	SPIKE AMOUNT	RESULT mg/Kg	%REC	NOTE
BTEX + TPH (Gasoline)						1
Benzene		0.005	0.10	0.12	120.	
Toluene		0.005	0.10	0.11	110.	
Ethylbenzene		0.005	0.10	0.11	110.	
Xylenes		0.005	0.30	0.34	113.	
Total Petroleum Hydrocarbons (Gasoline)		1.	2.5	2.3	92.	

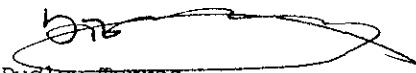
San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623B362
DT/eta3(dw)/jst
JK1945-13

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


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QC Batch ID: S-A-062194

CLIENT: Coast-to-Coast Analytical Services, Inc.

Analyzed : 06/21/94
Analyzed by: LD
Method : EPA 8020/8015M

QC SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

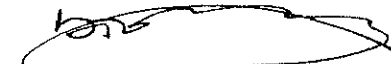
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED DATE RECEIVED		
QC SPIKE DUPLICATE	Solid					
CONSTITUENT	*PQL mg/Kg	SPIKE AMOUNT	RESULT mg/Kg	%REC	%DIFF	NOTE
BTEX + TPH (Gasoline)						1
Benzene	0.005	0.10	0.12	120.	0.	
Toluene	0.005	0.10	0.11	110.	0.	
Ethylbenzene	0.005	0.10	0.10	100.	9.5	
Xylenes	0.005	0.30	0.32	107.	6.1	
Total Petroleum Hydrocarbons (Gasoline)	1.	2.5	2.0	80.	14.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/27/94
GC#2\623B353A
DT/eta3(dw)/jst
JK1945-13

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CLIENT: Rick Pilat
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Ventura, CA 93003

Lab Number : JK-1945-10
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 40'	Soil	Debbie Wilson	06/17/94 1610	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	10.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

Respectfully submitted,
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Inorganics Manager

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CLIENT: Rick Pilat
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Ventura, CA 93003

Lab Number : JK-1945-11
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED			
MW2 @ 45'	Soil	Debbie Wilson	06/18/94 0930	06/18/94			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	8.	mg/Kg	EPA 7420	06/24/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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Lab Number : JK-1945-12
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 50'	Soil	Debbie Wilson	06/18/94 0945	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	9.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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CLIENT: Rick Pilat
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Ventura, CA 93003

Lab Number : JK-1945-13
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW2 @ 60'	Soil	Debbie Wilson	06/18/94 1010	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	14.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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2060 Knoll Drive, Suite 200
Ventura, CA 93003

QC Batch ID: 5094062301 JK-1945-13
Project : Desert Petroleum Station
#795

QC DUPLICATE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED			
MW2 @ 60'	Solid	Debbie Wilson	06/18/94	06/18/94			
CONSTITUENT	*PQL	RESULT	%DIFF	UNITS METHOD	ANALYZED	BY	NOTE
Lead, Total	1.	14.	0.	mg/Kg EPA 7420	06/24/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
JK1945-13

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Nick Gaone
Inorganics Manager

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EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-1
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 10'	Soil	Debbie Wilson	06/17/94 0840	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	150.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

Respectfully submitted,
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CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-2
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 15'	Soil	Debbie Wilson	06/17/94 0850	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	190.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-3
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 20'	Soil	Debbie Wilson	06/17/94 0900	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	12.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-4
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 30'	Soil	Debbie Wilson	06/17/94 0920	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	14.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

Respectfully submitted,
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Nick J. Gaone

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Inorganics Manager

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(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-5
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 35'	Soil	Debbie Wilson	06/17/94 0930	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	12.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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San Jose, CA 95131
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CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-6
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 45'	Soil	Debbie Wilson	06/17/94 1000	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	28.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1945-7
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 50'	Soil	Debbie Wilson	06/17/94 1010	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	7.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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CLIENT: Rick Pilat
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Ventura, CA 93003

Lab Number : JK-1945-8
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1. of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW3 @ 55'	Soil	Debbie Wilson	06/17/94 1020	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	24.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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Ventura, CA 93003

Lab Number : JK-1945-9
Project : Desert Petroleum Station
#795

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
MW4 @ 40'	Soil	Debbie Wilson	06/16/94 0955	06/18/94
CONSTITUENT	*PQL	RESULT	UNITS METHOD	ANALYZED BY NOTES
Lead, Total	1.	12.	mg/Kg EPA 7420	06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
5094062301

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QC Batch ID: 5094062301

CLIENT: Coast-to-Coast Analytical Services, Inc.

METHOD BLANK
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED			
METHOD BLANK	Solid					
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY NOTE
Lead, Total	1.	ND	mg/Kg	EPA 7420	06/24/94	KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
JK1945-13

Respectfully submitted,
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Nick Gaone
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QC Batch ID: 5094062301

CLIENT: Coast-to-Coast Analytical Services, Inc.

QC MATRIX SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED DATE RECEIVED					
MATRIX SPIKE	Solid								
CONSTITUENT	ORIGINAL	SPIKE	RESULT	%REC	UNITS	METHOD	ANALYZED	BY	NOTE
Lead, Total	14.	24.	40.	108.	mg/Kg	EPA 7420	06/24/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
JK1945-13

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QC Batch ID: 5094062301

CLIENT: Coast-to-Coast Analytical Services, Inc.

QC MATRIX SPIKE REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
MATRIX SPIKE DUPLICATE	Solid			
CONSTITUENT	ORIGINAL	SPIKE	RESULT	%DIFF UNITS METHOD ANALYZED BY NOTE
Lead, Total	14.	23.	38.	3.7 mg/Kg EPA 7420 06/24/94 KP 1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
JK1945-13

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QC Batch ID: 5094062301

CLIENT: Coast-to-Coast Analytical Services, Inc.

QC SPIKE
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED						
QC SPIKE	Solid								
CONSTITUENT	*PQL	SPIKE	RESULT	%REC	UNITS	METHOD	ANALYZED	BY	NOTE
Lead, Total	1.	25.	27.	108.	mg/Kg	EPA 7420	06/24/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/23/94 by NT using EPA 3050

06/28/94

NG/nfga3(dw)/kjp
JK1945-13

Respectfully submitted,
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Nick Gaone
Inorganics Manager

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- 141 Suburban Road • San Luis Obispo, CA 93401 • (805) 547-3888 FAX (805) 543-2685
- 2400 Cumberland Dr. • Valparaiso, IN 46383 • (219) 464-2389 FAX (219) 462-2953
- 340 County Road No. 5 • Westbrook, ME 04092 • (207) 874-2400 FAX (207) 775-4029

Chain of Custody

Page 1 of 2

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Client R.S.I. Contact Rick Pilat Phone # (805) 644-5892 FAX # (805) 654-0720

Address 2060 Knoll Dr., Suite 200 City Ventura State Ca. Zip 93003

Project Name/Number Desert Petroleum Station # 795 Project MGR Rick Pilat

Bill (if different than above) Address _____

Sampler (Print and sign) Debbie Wilson Due Date _____ Circle for RUSH* _____ Copies To: _____ Auth. Init. _____

Sample Description	Date/Time Coll'd	# of Matrix Containers	Pres.	Filt. y/n	Subject to Availability Analysis	Remarks	Lab ID #
MW3 10'	6-17-94 8:40	SL 1			↓	Please hold for instructions	JK1945-1
MW3 15'	6-17-94 8:50	SL 1					
MW3 30'	6-17-94 9:00	SL 2					
MW3 30'	6-17-94 9:20	SL 2					
MW3 35'	6-17-94 9:30	SL 2					
MW3 45'	6-17-94 10:00	SL 2					
MW3 50'	6-17-94 10:10	SL 2					
MW3 55'	6-17-94 10:20	SL 2					

Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By
<u>Debbie Wilson</u>	6-18-94 10:45	<u>Kim Lowell</u>	<u>Kim Lowell</u>	6-18 12:30	<u>Ken Petty</u>

Shipping Method _____ Shipping # _____ Received By Ken Petty Date/Time 6-18-94 12:30 Condition (See Remarks) Cold Sealed Intact

REMARKS Run analyses as listed per Rick Pilat 06/21/94 (AS/SL)

*** Matrix:**
 DW - Drinking Water
 WW - Wastewater
 GW - Groundwater
 SW - Surface Water
 IM - Impinger
 FI - Filter
 FP - Free Product
 A/G - Air/Gas
 SL - Sludge/Soil/Solid
 OT - Other

FOR LAB USE ONLY

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7726 Moller Rd.	•	Indianapolis, IN 46268	•	(317) 875-5894	FAX (317) 872-6189
2059 Junction Ave.	•	San Jose, CA 95131	•	(408) 955-9077	FAX (408) 955-9078
141 Suburban Road	•	San Luis Obispo, CA 93401	•	(805) 547-3888	FAX (805) 543-2685
2400 Cumberland Dr.	•	Valparaiso, IN 46383	•	(219) 464-2389	FAX (219) 462-2953
340 County Road No. 5	•	Westbrook, ME 04092	•	(207) 874-2400	FAX (207) 775-4029

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Client RSI		Contact Rick Pilat	Phone # (805) 644-5892	FAX # (805) 654-0720	
Address 2060 Knoll Dr., Suite 200		City Ventura	State Ca	Zip 93003	
Project Name/Number Desert Petroleum Station # 795			Project MGR Rick Pilat		
Bill (if different than above) Address					
Sampler (Print and sign) Debbie Wilson		Due Date	Circle for RUSH*	Copies To:	Auth. Init.

Sample Description	Date/Time Coll'd	*Matrix	# of Containers	Pres.	Filt. y/n	* Subject to Availability Analysis	Remarks	Lab ID #
mw4 - 40'	6-16-94 9:55	SL	2			↓	Please hold for instructions	1K19459
mw2 - 40'	6-19-94 4:10	SL	2					-10
mw2 - 45'	6-18-94 9:30	SL	1					-11
mw2 - 50'	6-18-94 9:45	SL	1					-12
mw2 - 60'	6-18-94 10:10	SL	1					-13

Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By
<i>Debbie Wilson</i>	6-18-94 10:45	<i>Ken Petty</i>	<i>Ken Petty</i>	6-18 12:30	<i>Ken Petty</i>

Shipping Method	Shipping #	Received By	Date/Time	Condition (See Remarks)		
		<i>Ken Petty</i>	6-18-94 12:30	<input checked="" type="checkbox"/> Cold	<input type="checkbox"/> Sealed	<input type="checkbox"/> Intact
REMARKS						

- * Matrix:
- DW - Drinking Water
 - WW - Wastewater
 - GW - Groundwater
 - SW - Surface Water
 - IM - Impinger
 - FI - Filter
 - FP - Free Product
 - A/G - Air/Gas
 - SL - Sludge/Soil/Solid
 - OT - Other

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APPENDIX F
LABORATORY REPORT
AND
CHAIN OF CUSTODY
FOR
GROUNDWATER SAMPLES



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COAST-TO-COAST ANALYTICAL SERVICES, INC.

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2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1956-3
Project : Desert Petroleum #793,
#19
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1


SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
795, MW2	Groundwater	Debbie Wilson	06/19/94 1125	06/20/94
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		300.	18000.	
Toluene		300.	36000.	
Ethylbenzene		300.	4600.	
Xylenes		300.	26000.	
Total Petroleum Hydrocarbons (Gasoline)		30000.	290000.	
Percent Surrogate Recovery			87.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/28/94
GC#4\621B630
DT/eta3(dw)/jst
W-GAS-062194

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager

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CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1956-2
Project : Desert Petroleum #793,
#19
Analyzed : 06/22/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

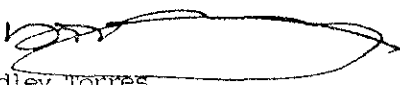
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
795, MW3	Groundwater	Debbie Wilson	06/19/94 1030	06/20/94
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		5.	640.	
Toluene		5.	580.	
Ethylbenzene		5.	270.	
Xylenes		5.	790.	
Total Petroleum Hydrocarbons (Gasoline)		500.	11000.	
Percent Surrogate Recovery			90.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/28/94
GC#4\621B631
DT/eta3(dw)/jst
W-GAS-062194

Respectfully submitted,
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Dudley Torres
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CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1956-1
Project : Desert Petroleum #793,
#19
Analyzed : 06/27/94
Analyzed by: LD
Method : EPA 8020/8015M

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

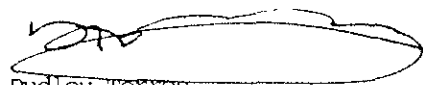
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED
795, MW4	Groundwater	Debbie Wilson	06/19/94 0925	06/20/94
CONSTITUENT	(CAS RN)	*PQL µg/L	RESULT µg/L	NOTE
BTEX + TPH (Gasoline)				1
Benzene		5.	12.	
Toluene		5.	25.	
Ethylbenzene		5.	ND	
Xylenes		5.	22.	
Total Petroleum Hydrocarbons (Gasoline)		500.	810.	
Percent Surrogate Recovery			90.	

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) EXTRACTED by EPA 5030 (purge-and-trap)

06/28/94
GC#2/627A311
DT/eta3(dw)/lmd
W-BTX-062794

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.


Dudley Torres
Organics Manager

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COAST-TO-COAST ANALYTICAL SERVICES, INC.

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San Jose, CA 95131
(408) 955-9077

CLIENT: Rick Pilat
R.S.I.
2060 Knoll Drive, Suite 200
Ventura, CA 93003

Lab Number : JK-1956-3
Project : Desert Petroleum #793,
#19

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED	RECEIVED		
795, MW2	Groundwater	Debbie Wilson		06/19/94 1125	06/20/94		
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total Recoverable	0.005	0.016	mg/L	EPA 7421	06/21/94	DO	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/20/94 by AL using EPA 3005

06/27/94

NG/nlga3(dw)
0594061601

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Nick Gaone
Inorganics Manager

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Ventura, CA 93003

Lab Number : JK-1956-2
Project : Desert Petroleum #793,
#19

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED			
795, MW3	Groundwater	Debbie Wilson	06/19/94 1030	06/20/94			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total Recoverable	0.005	ND	mg/L	EPA 7421	06/21/94	DO	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 06/20/94 by AL using EPA 3005

06/27/94

NG/nfga3(dw)
0594061601

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Ken Petty for
Nick Gaone
Inorganics Manager

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Ventura, CA 93003

Lab Number : JK-1956-1
Project : Desert Petroleum #793,
#19

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	RECEIVED			
795, MW4	Groundwater	Debbie Wilson	06/19/94 0925	06/20/94			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total Recoverable	0.005	0.007	mg/L	EPA 7421	06/21/94	DO	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 06/20/94 by AL using EPA 3005

06/27/94

NG/nfga3(dw)
0594061601

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Kon Patty for

Nick Gaone
Inorganics Manager

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141 Suburban Road	•	San Luis Obispo, CA 93401	•	(805) 547-3888	FAX (805) 543-2685
2400 Cumberland Dr.	•	Valparaiso, IN 46383	•	(219) 464-2389	FAX (219) 462-2953
340 County Road No. 5	•	Westbrook, ME 04092	•	(207) 874-2400	FAX (207) 775-4029

• PLEASE PRINT IN PEN

Client <u>21</u>	Contact <u>John ...</u>	Phone # <u>(714) 44-2222</u>	FAX # <u>(714) 44-0321</u>
Address <u>260 ... Dr. ...</u>		City <u>Ventura</u>	State <u>Ca</u>
Project Name/Number <u>... 793 / Desc + Petroleum # 19</u>		Project MGR <u>John ...</u>	
Bill (if different than above) Address			
Sampler (Print and sign) <u>John ...</u>	Due Date	Circle for RUSH*	Copies To: Auth. Init.

Sample Description	Date/Time Coll'd	*Matrix	# of Containers	Pres.	Filt. y/n	* Subject to Availability Analysis	Remarks	Lab ID #
735 ...	6-19-94 9-25	GW	5			7420 total lead, 8015M gas & 20 BTEX		
735 ...	6-19-94 11-30	GW	5			↓		
735 ...	6-19-94 11-25	GW	5					
DP19 ...	6-20-94	GW	3			TAP Gas BTEX		
DP19 ...	6-20-94	GW	3			↓		
DP19 ...	6-20-94	GW	3					
DP19 ...	6-20-94	GW	3					

Relinquished By	Date/Time	Received By	Relinquished By	Date/Time	Received By
<u>John ...</u>	6-20-94 2:30	<u>John ...</u>			

FOR LAB USE ONLY

Shipping Method	Shipping #	Received By	Date/Time	Condition (See Remarks)		
				Cold	Sealed	Intact
REMARKS						

*** Matrix:**
 DW - Drinking Water
 WW - Wastewater
 GW - Groundwater
 SW - Surface Water
 IM - Impinger
 FI - Filter
 FP - Free Product
 A/G - Air/Gas
 SL - Sludge/Soil/Solid
 OT - Other