

DOCUMENT TRANSMITTAL


THE SUTTON GROUP

Engineering and Environmental
Services

51 Shuey Drive

Moraga, California, 94556-2620

phone (510) 631-1688 fax (510) 631-1371

TO: Ms. Amy Leach
of Division of Environmental Protection
Alameda Co. Environmental Health Dept.
DATE: May 17, 1996
PROJECT: Gasoline Tank Area Investigation PROJECT No.: 3022.7
SUBJECT: DRAFT Reports for Your Use
INITIATOR: John R. Sutton, PE 

With approval of Mr. Mike Cortez of Oro Loma Sanitary District, I transmit for your use a DRAFT copy of "Report of Soil And Ground Water Investigations At The Former site of a 1,000 Gallon Gasoline Tank at the Oro Loma Sanitary District Service Center, San Lorenzo, California."

Please note that the report is presently under review by the District. The purpose of this transmittal is to provide you with advance data for use in evaluating conditions on a nearby property.

The report delay has been due to the two additional field mobilizations in the gasoline tank area. As we have discussed, this was brought about by an erroneous test result which indicated contamination in an area believed to be relatively free of contamination. The additional field and laboratory work confirmed the result to be erroneous.

Should you have questions or comments, please call me, or place a message on my Universal pager at 1-800-501-1570.

Enclosure

ENVIRONMENTAL
PROTECTION
96 MAY 17 AM 8:47
sg/od/30227lt5.doc

May 15, 1996
Project No. 3022.7

**REPORT
of
SOIL AND GROUND WATER INVESTIGATIONS**

**at the former site of a
1,000 GALLON GASOLINE TANK
at the
Oro Loma Sanitary District Service Center
San Lorenzo, California**


PREPARED FOR

Mr. Mike Cortez
ORO LOMA SANITARY DISTRICT
2600 Grant Avenue
San Lorenzo, CA 94580

PREPARED BY

THE SUTTON GROUP




John R. Sutton
Civil Engineer No. 40324
Geotechnical Engineer No. 812
expires 12/31/1998

96 JUN 10 AM 9:15
ENVIRONMENTAL
PROTECTION

THE SUTTON GROUP
Engineering and Environmental Services
51 Shuey Drive, Moraga, CA 94556-2620
phone (510) 631-1688 fax (510) 631-1371

**REPORT
of
SOIL AND GROUND WATER INVESTIGATIONS
at the former site of a
1,000 GALLON GASOLINE TANK
at the
Oro Loma Sanitary District Service Center
San Lorenzo, California**

TABLE OF CONTENTS

	<u>Page No.</u>
1.0 INTRODUCTION	1
1.1 Statement of Work	1
1.3 Site Conditions	1
1.4 Regional and Local Hydrogeology	1
2.0 SOIL AND GROUND WATER INVESTIGATION	2
2.1 Drilling and Soil Sampling	2
2.2 Ground Water Sampling	3
2.3 Soil Cuttings and Collected Water Management	3
3.0 SUBSURFACE CONDITIONS	3
3.1 Soil Conditions	3
3.2 Ground Water Conditions	4
4.0 CHEMICAL ANALYSIS OF SAMPLES	4
4.1 Laboratory Program and Procedures	4
4.2 Analytical Results: Soil	4
4.3 Analytical Results: Water	5
5.0 DISCUSSION	6
6.0 CONCLUSIONS	6
7.0 RECOMMENDATIONS	7
8.0 LIMITATIONS	8

TABLE 1	Summary of Analytical Results, Soil Samples
TABLE 2	Summary of Analytical Results, Water Samples

THE SUTTON GROUP

TABLE OF CONTENTS

Page 2 of 2

FIGURE 1	SITE LOCATION MAP
FIGURE 2	PLANT LOCATION MAP
FIGURE 3	BORING LOCATIONS
APPENDIX A	SOIL CORING AND SAMPLING, AND GROUND WATER SAMPLING PROCEDURES
APPENDIX B	BORING LOGS
APPENDIX C	LABORATORY TEST REPORTS
APPENDIX D	SUMMARY OF PREVIOUS ANALYTICAL RESULTS

REPORT
of
SOIL AND GROUND WATER INVESTIGATIONS
at the former site of a
1,000 GALLON GASOLINE TANK
at the
Oro Loma Sanitary District Service Center
San Lorenzo, California

1.0 INTRODUCTION

1.1 Statement of Work

This soil and ground water investigation was conducted to clarify the horizontal and vertical extent and the severity of gasoline residuals in the soil and groundwater near the former site of a 1,000 gallon, underground, gasoline storage tank. The tank was located adjacent to the Oro Loma Sanitary District (OLSD) Service Center, at 2600 Grant Avenue, San Lorenzo, in unincorporated Alameda County. The site vicinity is shown on Figure 1, and the site location more specifically in relation to the OLSD facilities on Figure 2. A concurrently conducted supplemental investigation of an OLSD diesel tank site is reported separately.

1.2 Background

The Work Plan dated January 9, 1996, presented a detailed history of the environmental site history, and tabulates all environmental test data for the site. Work Plan comments by Alameda County Environmental Health Department, Division of Environmental Protection (ACEH), as presented in their letter dated February 1, 1996, requested that we evaluate potential extension of the plume beneath the building(s), and testing for Methyl Tertiary Butyl Ether (MTBE). These requests were discussed with ACEH in advance of the field work and resolved.

1.3 Site Conditions

The site vicinity of the OLSD sewage treatment plant facility and adjacent service center is generally level. The grade ranges from elevation 6 to 9 feet above mean sea level (msl). The area on which the OLSD plant was built was at one time bayland with man-made fill placed to raise the site above the Bay Mud. The site at the gasoline tank area is a paved parking lot at approximate elevations 8 to 9 feet msl.

1.4 Regional and Local Geology and Hydrology

The facility lies on the San Francisco Bay margin of the East Bay Plain. The East Bay Plain is a three to five miles wide, gently sloping alluvial plain which falls from the foot of the Oakland Hills, south westward to the San Francisco Bay shore. The local topography comprises a typical filled bay setting with bayland deposits covered with manmade fill material to provide stability for structures sited in the area. Prior to filling, the land was tidal wetlands and mudflats of the East Bay. The bay land, clays known regionally as Bay Mud are about 20 feet thick at the site. Clays and sands extend to significant depth. Bedrock is many hundreds of feet deep beneath the site.

1,000 gallon Gasoline Tank

Bay. The bay land, clays known regionally as Bay Mud are about 20 feet thick at the site. Clays and sands extend to significant depth. Bedrock is many hundreds of feet deep beneath the site.

Local hydrogeology consisted of saline groundwater caused by intrusion of bay waters into the shallow brackish aquifers. These aquifers extend down to various levels. Underlying these brackish aquifers at levels from 50 to 500 feet is a groundwater aquifer currently not used by the community.

2.0 SOIL AND GROUND WATER INVESTIGATIONS

2.1 Drilling and Soil Sampling

The work was performed in general accordance with the Work Plan. Five borings were planned for the gasoline tank investigation. Two more boring locations were added in the field making a total of seven boring locations drilled. Borings drilled for this investigation were numbered EP-1 through EP-7. It should be noted that on the same date as this gasoline tank investigation, we conducted a supplementary investigation near the location of two former diesel tanks using the same personnel and equipment. Diesel tank area borings were designated EPD-1 and 2.

In their Work Plan Review Letter dated February 1, 1996, ACEH requested that a boring be placed on the north side of the OLSD Maintenance Building to determine the extent of northward plume migration. It was concurred between the writers and ACEH, in advance of the drilling day, that the decision to drill this boring would be based upon field screening results for soil samples from Boring EP-3. Field screening was negative, and thus no additional boring was sited north of the Maintenance Building.

Borings were advanced using Precision Sampling, Inc.'s model XD-2 vibratory hammer drill rig. This low-headroom rig was able to work beneath the wide eaves and position borings close to the sides of the buildings. Based on this rig capability and the knowledge of hydro-geological conditions, it was decided in the field to drill all borings vertically in lieu of angle drilling to collect samples near the building walls. Appendix A provides details of the drilling and sampling procedures.

A drilling permit for the work was provided by Alameda County Drainage and Flood Control District (Zone 7). Boring locations were surveyed by Underground Service Alert (USA) in advance of rig mobilization.

Ground water was found in the range five to eight feet depth below ground. The borings were extended to about 12 feet depth and a temporary well casing was installed to facilitate collection of a ground water sample at each boring location.

Soil samples were collected in three foot drives. Samples were recovered in stainless steel tubes, 1 5/8 inches diameter by six inches long. The samples were observed for discoloration and odor,

1,000 gallon Gasoline Tank

and screened with a photo-ionization detector (PID). The majority of samples were field-extruded from the tubes for logging purposes. Selected soil samples were maintained "undisturbed," sealed, and scheduled for chemical analysis. The presence of the man-made fill, crushed quarry stone, hampered sample collection in the upper three to four feet of depth. Supplementary borings were extended adjacent to borings No. EP-2 and EP-3 to provide additional samples for screening and for confirmatory purposes. Boring EP-2A was drilled at the time of initial drilling due to poor sample recovery in the shallow zone. Boring EP-2B was hand auger drilled on April 2, 1996, and borings EP-3A and 3B were drilled by the XD-2 rig on April 18, 1996. Details of the additional drilling are presented below under "Analytical Results, Soils"

A chain-of-custody form was initiated by the sampler on each sampling day and accompanied the samples to the analytical laboratory. All samples collected were delivered under chain-of custody to the District's chemical analysis laboratory.

2.2 Ground Water Sampling

Ground water sampling entailed recovery of water from temporary wells. The one inch diameter temporary wells comprised a five foot long well screen section with .010 inch slots, a threaded base cap and a ten foot long top section of blank casing. A slip cap was set on the casing top and a temporary security seal placed around the casing.

Ground water samples were collected on March 9, 1996. Casings were sounded for water depth prior to sampling. Some of the temporary wells had up to 1.5 feet of silt and or clay after drawing overnight.

The locations of borings, previously drilled borings, test trench excavations, and tank-removal sampling locations, and their summarized chemical test results are presented on ^{? Fig. 3} The results of chemical analyses compiled from the two previous investigation phases and the tank removal sampling are summarized in Appendix C.

2.3 Soil Cuttings And Collected Water Management

The soil cuttings were placed on visqueen at a designated location on the site, and transported to the on-site accumulation cell, for eventual disposition by the District. Excess recovered ground water and 1 rinsate from the cleaning temporarily contained in portable tanks, and later, with approval, was discharged into the sanitary sewer system for treatment at the District's POTW.

3.0 SUBSURFACE CONDITIONS**3.1 Soil Conditions**

The site comprises man-made fill with asphalt surfacing overlying native bayland deposits. The asphalt paving, where present is approximately 2 1/2" thick. The man-made fill was typically a

1,000 gallon Gasoline Tank

reasonably well graded, crushed stone typical of sub base and base course material, and with relatively high firmness. The fill ranged in total thickness from 2.5 to six feet. Occasionally a brown clay was mixed with the crushed stone. Three of the borings were located in planter areas. The upper 1.5 feet of fill in these three borings was a brown, very clayey sand loam in lieu of the upper quarry stone. Boring EP-7 was outside the limits of the quarry stone fill. A bridging fill of waste building materials, including lumber, has been noted to exist beneath the manmade fill at the contact with the bayland soils.

The bayland soils were often shown to have a peat layer or crusted clay surface, typically brown to black, about one foot thick, and with a noticeable organic odor, overlying the characteristic green to black, moderately to highly plastic, Bay Mud clays. A layer of fine, gray to black sand, which was clean to silty or clayey, and varying in thickness from one to three feet, was noted in five of the seven borings. The top of this sand layer was at from three to six feet depth where found. This layer was typically wet, and often had a pronounced petroleum odor. The layer was bounded on its underside by characteristic green to black Bay Mud type clays to the maximum depth drilled.

3.2 Ground Water Conditions

Ground water depth was typically identified from the appearance of recovered soil samples. Additionally, depth to ground water was measured the day following drilling, prior to collection of the water samples. Ground water ranged from five to seven feet depth in the borings.

4.0 CHEMICAL ANALYSIS OF SAMPLES

4.1 Laboratory Program and Procedures

Samples were analyzed by Sequoia Analytical Laboratory of Redwood City California, under contract to the District. Sequoia is an independent, California EPA-certified hazardous waste testing laboratory (ELAP No. 1210), accredited to perform the analyses in accordance with the San Francisco Bay Regional Water Quality Control Board, and the Alameda County Health Department's Hazardous Materials Program's guidelines for analysis of petroleum fuel releases from underground tanks.

Soil samples from the gasoline tank area were analyzed for total purgeable petroleum hydrocarbons as gasoline, benzene, toluene, ethyl benzene and xylenes using EPA methods 5030, and 8020,) and lead by method 6010, all in accordance with Table 2 of the "Tri-Regional Guidelines, dated August 1990. Additionally, Methyl Tertiary Butyl Ether (MTBE) was added to the analytes list at the recommendation of Alameda County Health.

The ground water samples were analyzed for the same chemical constituents (analytes) as the soil samples.

1,000 gallon Gasoline Tank**4.2 Analytical Results: Soil**

The soil samples collected from the vadose zone generally were without odor and gave none to low response on the PID. Sample results generally concurred with this. Table 1 is a summary of the laboratory test data for soils. The laboratory reports are included in Appendix C. As stated above, samples from the diesel tank area were collected on the same days and forwarded to the laboratory under the same chain-of custody and request for analysis. The report pages for diesel analysis have been omitted from this document. — See report dated 6/17/96 "Diesel Tank Area..."

Samples were also collected from the sand zone, which underlies the clay cap at the native soils interface. This sand zone generally appears to lie at, or just beneath, the ground water level but was only identified for the first time in this investigation. The results of the sampling from this sand zone concurred with the general plume boundary as interpreted in previous investigations. The sample from Boring EP-2, taken adjacent to the wall of the Engineering Building at 6.5 to 7 feet depth, exhibited a noticeable level of gasoline. This was confirmed in the laboratory. Samples from the clay overlying the sand layer were typically without odor.

The sample result from EP-3 at 3 to 3.5 feet depth result indicated 810 ppm contamination as gasoline while the boring log indicates that there was little sample recovery from the gravel fill in the vadose zone of EP-3 at depths less than four feet, and there was no measurable field PID response. It was concluded that this sample was mis-labeled. The initial conclusion was that the sample was from the previously drilled boring EP-2A. Sample cross referencing did not result in a solution, and so, on April 2, 1996, boring EP-2A was hand-augered in a location less than two feet distant from the EP-2 original location. Samples analyzed from two depths in EP-2B chosen to bracket the original EP-2A sample each resulted in no detection of gasoline. An examination of the soil in the analyzed sample from EP-3 indicated that the soil properties were similar to those of the sand layer that resides beneath the Bay Mud cap, and bore no similarity to the fill soils. On April 18, 1996 the XD-2 rig was remobilized to the site to drill through the paving and gravel fill at EP-3. Two additional borings, EP-3A and EP-3B were drilled within two feet of the original EP-3 location. Soil recovered was field screened with a PID. No measurable reading was obtained. Samples were sent to the laboratory for testing.

4.3 Analytical Results: Ground Water

The results of grab ground water sampling concur with previously provided plume boundary information. The results, summarized on Table 2, are in parts per billion ($\mu\text{g/l}$). The results for "grab" water samples EP-1, 0.51 mg/l, and EP-2, 230 mg/l (230,000 $\mu\text{g/l}$), and a benzene reading of 23 mg/l indicate that the plume has spread easterly and south easterly beneath the Engineering Building. The sample from EP-5, 64 mg/l, indicates plume approach towards the Grant Avenue boundary. TPHg

On the basis of the readings in EP-1 and EP-2, two additional borings, EP-6 and EP-7 were field sited on the distant sides of the Engineering Building from borings EP-1 and EP-2. The intent

1,000 gallon Gasoline Tank

was to provide an indication of plume extent. Odor, field screen results and laboratory test results from both additional borings were "non detect" and show that the plume boundary has not approached these borings, and thus must lie beneath the building.

The water sample result from Boring EP-3, near the Maintenance Building, indicates a relatively low level of TPH as gasoline. The benzene level from this grab sample analysis was at the level of regulatory concern, however, grab samples are analyzed unfiltered, and as such, may be exhibiting contamination adherent to particulates in suspension and not true water contamination.

None of the samples exhibited total lead levels of regulatory significance. On this basis, soluble lead analysis was not performed.

The highest result for methyl tertiary butyl ether (MTBE) was 3.9mg/l. This was in a water sample. Soil samples did not indicate presence of MTBE.

The analytical results from the investigation are summarized on Tables 1 and 2, for soils and waters respectively. The laboratory report is included in Appendix C. Tabulated analytical results from previous investigations have been included as Appendix D.

5.0 DISCUSSION

The objective of this sampling program was to collect soil and ground water samples to determine the severity and extent of contamination attributable to the leaking tank. More particularly, the investigation results would be used to identify the proper locations for permanent ground water monitoring wells, and to provide exposure source data for input into a health risk assessment that will establish long term clean-up goals for the site. The health risk assessment will be performed according to the procedure in ASTM E-1739, "Standard Guide for Risk-Based Corrective Action (RBCA) Applied at Petroleum Release Sites". This is the procedure recommended by the San Francisco Bay Regional Water Quality Control Board RWQCB in support of the Lawrence Livermore Laboratory report recommendations for action at low risk fuel release sites. This investigation also provided more conclusive data about the lateral extent of ground water contamination in relation to the Maintenance Building, the Engineering Building, and the site boundaries.

6.0 CONCLUSIONS

The study confirmed the near-surface geotechnical conditions observed in previous explorations, except for the finding of a pervious, relatively continuous, thin, sand layer immediately beneath the Bay Mud interface. Based on field organic vapor and olfactory indications, this layer appeared to be the significant conduit for ground water-borne contaminant transport.

1,000 gallon Gasoline Tank

Analytical results concur with the earlier findings of leaded gasoline contamination in the upper eleven feet of subsurface profile, as previously identified during the May 1995 excavation to remove the tank. Significant contamination, previously adjudged to "extend to less than 10 feet depth", was essentially confirmed to be contained within the shallow sand zone that underlies the clay/peat (former) surficial cap of the Bay Mud deposits. This clay cap, which lies at from 4 to 6 feet below site grade, appears to be an effective barrier containing the gasoline at that depth. Deeper clays may well be confining the gasoline contamination from downward vertical transport.

The study showed that gasoline contamination plume extends, via ground water transport, beneath the west wall of the Engineering Building. The level of gasoline contamination in ground water in boring EP-2, located on the northwest (parking lot) side of the Engineering Building, and boring EP-5, at the entrance to the Engineering Building parking lot, on the Grant Avenue boundary, exceed threshold levels that, prior to RBCA, would trigger further study. Borings sited on the remote sides of the Engineering Building were relatively free of ground water contamination. Likewise, the ground water sample collected near the wall of the Maintenance Building shows a relatively insignificant level of gasoline contamination. The significant direction of ground water movement is to the south east and south, i.e. generally normal to the alignment of Grant Avenue. It is reasonable to conclude that gasoline tainted ground water flowing west toward Grant Avenue would be intercepted by The District's large-diameter, gravity trunk sewers in Grant. The pipes are understood to be bedded in, pervious gravel.

Horizontal contamination boundaries, based on the original subsurface investigations by Levine Fricke in August, 1993, subsequent investigations by The Sutton Group in November 1994, and observations at the time the tank was removed in May, 1995, strongly suggest ground contamination is of limited lateral extent. This is confirmed by the absence of contamination in water samples from borings EP-4 and EP-7

7.0 RECOMMENDATIONS

Based on the concentrations of gasoline in soil and ground water samples at boring EP-3, we recommend that no further consideration be given to health risk at the Maintenance Building area.

Based on the concentrations of gasoline indicated in soil and ground water samples at locations EP-2/2A/2B, it is recommended that the RBCA health risk assessment be performed to quantify the potential for health effects on personnel in the north western portion of the Engineering Building. The study should be performed to Tier 2.

Based on the concentrations of gasoline indicated in the ground water sample at location EP-5, the potential for environmental risk. This RBCA assessment should ~~be~~ initially be performed at

↓? there is

Should be evaluated?

THE SUTTON GROUP

1,000 gallon Gasoline Tank

Tier 1. Based on the results it may be appropriate to refine the analysis to Tier 2 to ~~result in an~~ ^{assessment?} assessment of the need for ground water corrective action. An investigation of the potential presence of, and concentration of gasoline residuals in the sewer pipe backfill should be included. *OK*

Should the risk assessment conclude ~~in~~ a need for ground water corrective action, it is our recommendation that The District consider what appears to be a more cost effective remedial alternative for the relatively small quantity of fuel-contaminated ground water traveling west across the site to the Grant Avenue property line. The most feasible action at this time, appears to be interception/collection of the west-bound seepage flow, with discharge to the OLSLD sewer. Treatment of this limited extent body of tainted water would be by biological treatment in the District's POTW. At this early juncture, this corrective action would appear to be more appropriate than the excavation-and-backfill of the contaminant zone, followed by near-site soil remediation, and biological water treatment, that was recommended prior to discovery of the sand zone discussed here-in.

Following selection of a corrective action, monitoring wells should be located in the vicinities of borings EP-5, EP-7, and SB-4.

8.0 LIMITATIONS

This report has been prepared according to generally accepted geologic, geotechnical and environmental engineering practices. No other warranty, either expressed or implied is made. The analysis, conclusions and recommendations contained herein are based on review of customer-provided data and other available documents relevant to the site conditions. Changes in the information or data gained from any of these sources could result in the need for changes in conclusions and recommendations. If such changes do occur, we should be advised so that we can review this document in light of these changes.

oooo000oooo

**GASOLINE TANK AREA
SUMMARY OF ANALYTICAL RESULTS**

SOIL SAMPLES

SOIL AND GROUNDWATER INVESTIGATION, 1996¹

BORING	Depth feet	TPH-GAS mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	MTBE mg/kg	Lead mg/kg
EP-1	6.5-7	4.5	ND	ND	ND	.059	ND	7.7
EP-2	6.5-7	1800	21	120	3.5	180	ND*	16
EP-2B	2.5-3	ND	ND	ND	ND	ND	NA	13
EP-2B	3.1-3.6	ND	ND	ND	ND	ND	NA	ND
EP-3 ²	3.0-3.5	(810)	(8.7)	(47)	(14)	(72)	NA	NA
EP-3	6.5-7	5.3	ND	ND	ND	.036	ND	ND
EP-3A	1.5-2	ND	ND	ND	ND	ND	NA	NA
EP-3B	3.5-4	ND	ND	ND	ND	ND	ND	NA
EP-3B	4.5-5	1.5	ND	ND	ND	0.010	NA	NA
EP-5	3.5-4	29	1.5	0.24	0.90	2.2	NA	49
EP-6	3.5-4	ND	ND	ND	ND	ND	ND	46
MDL'S		1.0	0.0050	0.0050	0.0050	0.0050	.025-6	5.0

¹ Refer to Laboratory Reports for complete listing of results

² Sample mislabeled. Result erroneous. Refer to report text

GASOLINE TANK AREA

SUMMARY OF ANALYTICAL RESULTS

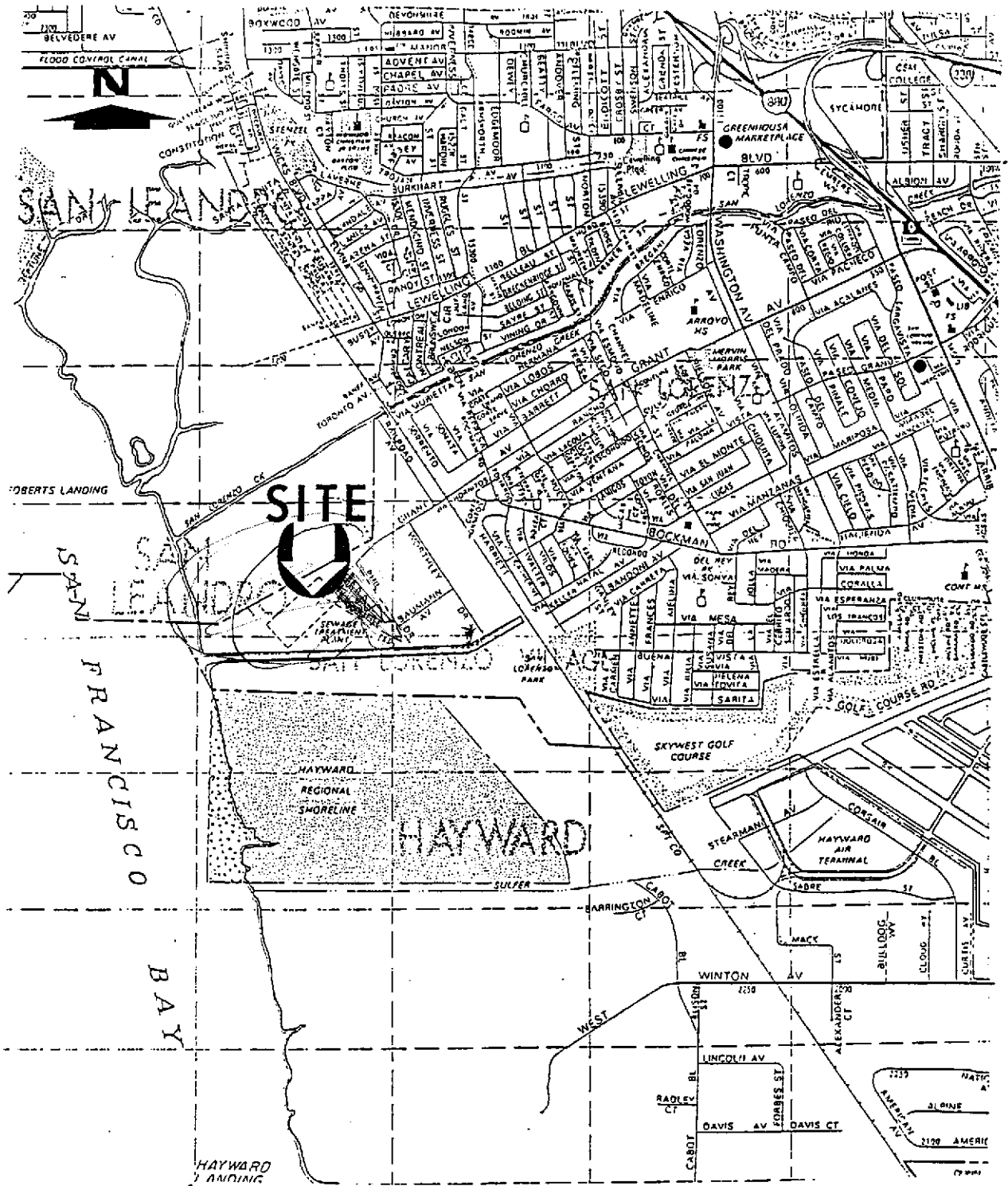
WATER SAMPLES

BORING	TPH-GAS ug/l	Benzene ug/l	Toluene ug/l	Ethyl Benzene ug/l	Xylenes ug/l	MTBE ug/l	Lead mg/l
EP-1	510*	31*	7.4*	3.8*	15*	19*	ND
EP-2	230,000*	23,000*	47,000*	4,300*	21,000*	3,900*	0.074*
EP-3	210	5.8	2.6	1	3.1	5.4	0.016
EP-4	ND	2.3	0.97	ND	0.59	36	0.015
EP-5	64,000*	8,800*	4,800*	1,100*	4,800*	ND*	ND
EP-6	ND	ND	0.99	ND	1.0	ND	0.019
EP-7	ND	0.53	2.1	0.53	2.9	ND	ND
MDLs*	50	0.50	0.50	0.50	0.50	2.5	0.005

* Indicates detection limits raised due to positive gasoline result. Refer to Laboratory report for detection limits for each noted sample .

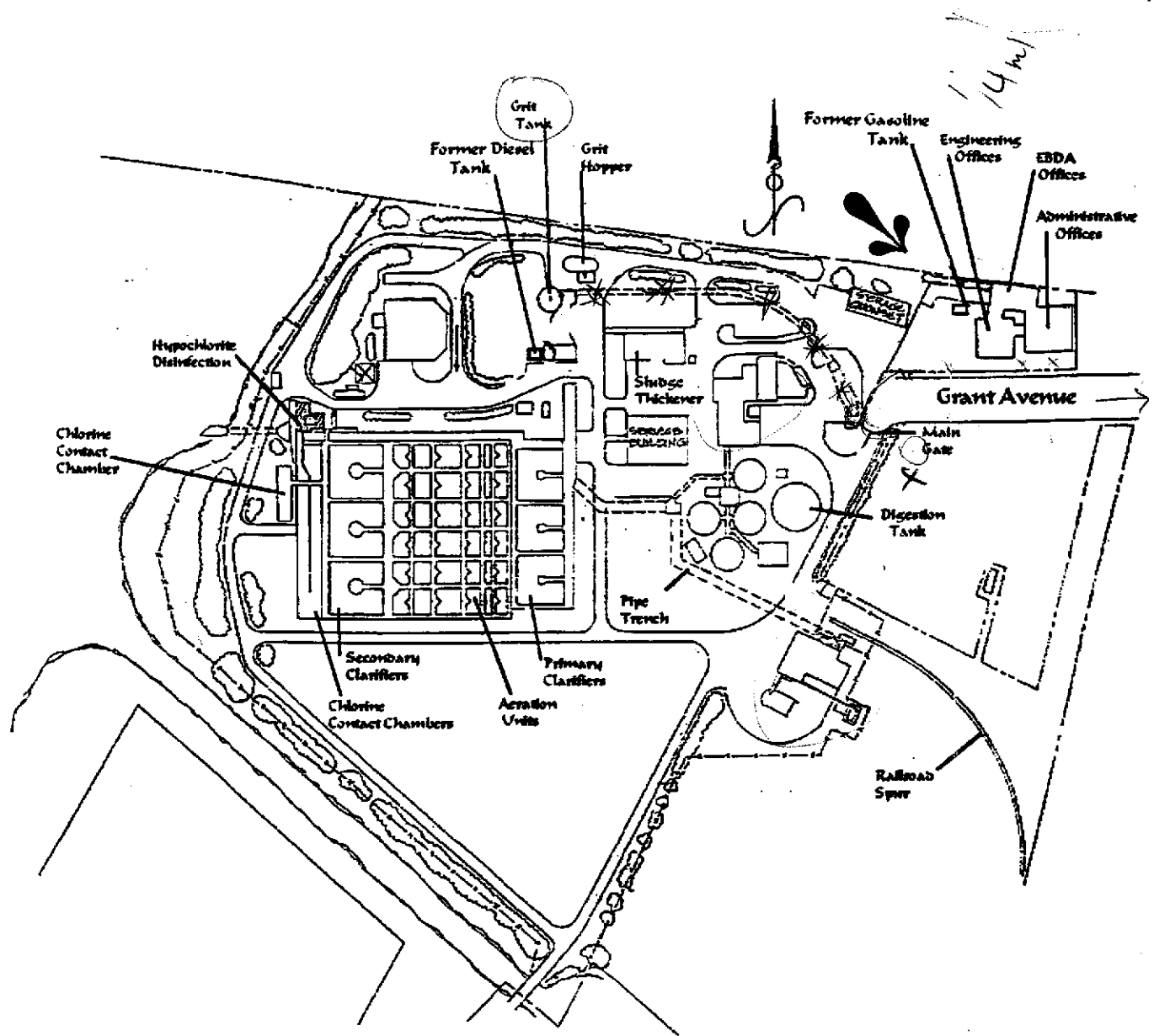
* Refer to Laboratory Report for complete listing of results

Job No. 3022, Stage 7



SOURCE: THOMAS BROS MAPS, ALAMEDA COUNTY, CALIFORNIA Scale 1" = 2500 feet

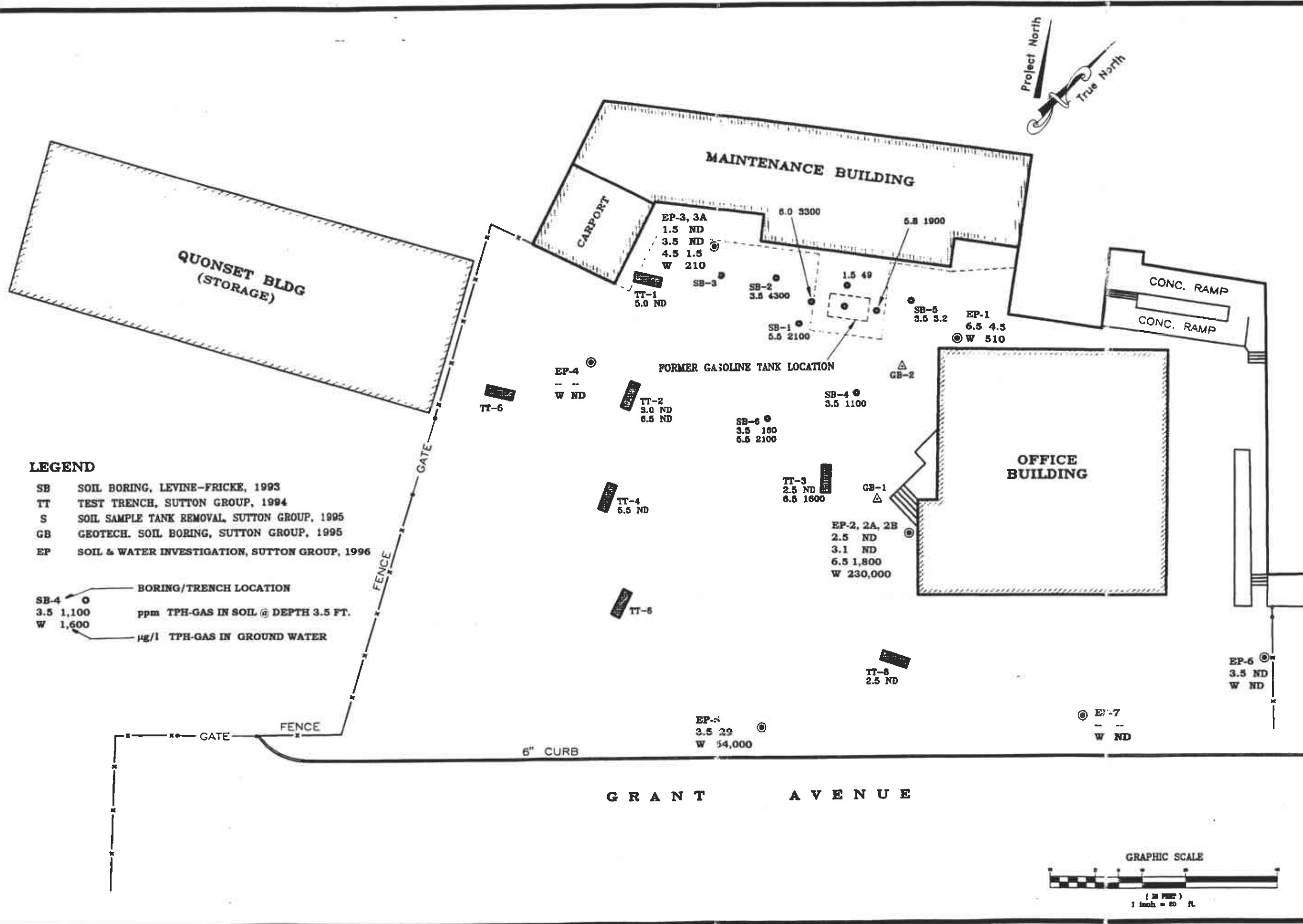
<p>THE SUTTON GROUP Engineering and Environmental Services 51 Shuey Drive Moraga, California 94556-2620 phone (510) 631-1688 fax (510) 631-1371</p>	<p>SITE LOCATION MAP SOIL AND WATER INVESTIGATION GASOLINE & DIESEL TANK AREAS ORO LOMA SANITARY DISTRICT SAN LORENZO, CALIFORNIA</p>	<p>PROJECT NO. 3022 PHASE 7 FIGURE 1 Revision-0,4/9/96</p>
---	--	---



SITE PLAN

MAP SOURCE: ORO LOMA SANITARY DISTRICT

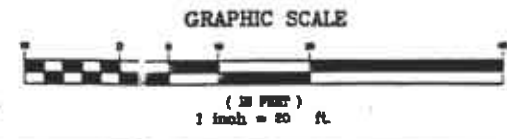
THE SUTTON GROUP Engineering and Environmental Services 51 Shuey Drive Moraga, California 94556-2620 phone (510) 631-1688 fax (510) 631-1371	PLANT LOCATION MAP SOIL AND WATER INVESTIGATION		PROJECT NO. 3022
	GASOLINE TANK AREA		PHASE 7
	ORO LOMA SANITARY DISTRICT SAN LORENZO, CALIFORNIA		FIGURE 2
			REVISION-1. 5/13/96



LEGEND

- SB SOIL BORING, LEVINE-FRICKE, 1993
- TT TEST TRENCH, SUTTON GROUP, 1994
- S SOIL SAMPLE TANK REMOVAL, SUTTON GROUP, 1995
- GB GEOTECH. SOIL BORING, SUTTON GROUP, 1995
- EP SOIL & WATER INVESTIGATION, SUTTON GROUP, 1996

SB-4 ○
 3.5 1,100 ppm TPH-GAS IN SOIL @ DEPTH 3.5 FT.
 W 1,600 μg/l TPH-GAS IN GROUND WATER



PROJECT NO. 3022
TASK 7
FIGURE 3
Revision-0, 04/18/96

**BORING LOCATIONS
AND WATER INVESTIGATION
SOIL AND WATER INVESTIGATION
GASOLINE TANK AREA**
ORO LOMA SANITARY DISTRICT
SAN LORENZO, CALIFORNIA

THE SUTTON GROUP
Engineering and Environmental Services
51 Shuey Drive
Moraga, California 94556-2620
phone (510) 631-1688
fax (510) 631-1371

APPENDIX A

SOIL CORING AND SAMPLING, AND GROUND WATER SAMPLING PROCEDURES

Soil cores and ground water samples were obtained for The Sutton Group by PRECISION SAMPLING, INC. (PSI), a soil and ground water sampling company. located in San Rafael, California. PSI uses portable, hydraulically driven soil coring systems to obtain soil and ground water samples for lithologic and chemical analysis. PSI holds California Well Drilling Contractor's (C-57) license No.636387. The Sutton Group will assist PSI in obtaining a drilling permit for the work from Alameda County Drainage and Flood Control District (Zone 7).

SOIL CORING PROCEDURES

PSI's difficult access rig, the DA-1, utilizes a hydraulic hammer to drive Enviro-Core™ sampling rods into the ground to collect continuous soil cores. The larger sampling rigs, the XD-1 and MD-1, are mounted on 4-wheel-drive vehicles, and the Enviro-Core™ rods are advanced with vibrators, a hydraulic hammer, or pushed into the ground. With any rig, two nested sampling rods are driven simultaneously; small-diameter inner sampling rods are used to obtain and retrieve the soil cores; the larger diameter (2 1/2" OD) outer rods serve as temporary drive casing.

As the Enviro-Core™ rods are advanced, soil is driven into a 1-7/8 inch diameter, 3-foot long, sample barrel that is attached to the end of the inner rods. Soil samples are collected in 1 3/4-inch diameter by 6-inch long stainless steel sleeves inside the sample barrel as both rods are advanced. After being driven 3 feet, the inner rods are removed from the borehole with a hydraulic winch. The stainless sleeves containing the soil samples are removed from the inner sample barrel, and can then be preserved for chemical analyses or used for lithologic identification. After adding new stainless steel sleeves, the drive sampler and inner rods are then lowered back into the borehole to the previous depth, an additional 3-foot section of Enviro-Core™ casing is attached, and the process is repeated until the desired depth is reached.

The use of outer rods prevents sloughing of the formation while the inner rods are withdrawn from the hole. This ensures that the drive sampler will always be sampling soil from the desired interval, rather than potentially contaminated soil that has sloughed in from higher up in the hole

All drive casing, inner sample barrels, inner rods, and tools will be cleaned with a high-pressure, hot water washer between holes. Sample barrels will be washed with trisodium phosphate and double-rinsed with de-ionized water between samples collected in the same hole. All rinse water from the cleaning will be temporarily contained in 55-gallon drums at the project site and later, with approval, discharged into the sanitary sewer system for treatment at OLSD's POTW.

GROUND WATER SAMPLING PROCEDURES

After the targeted water-bearing zone has been penetrated, the sample barrel and inner rods will be removed from the borehole, and the drive casing will be pulled up approximately three feet to allow groundwater to flow into the borehole. A 1-inch-diameter Schedule 40 PVC casing with a five foot section of 0.010" slotted well screen may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole inside the drive casing. The drive casing is then pulled up to expose the slotted interval of the PVC. Groundwater samples may then be collected from within the PVC casing with a 1-inch diameter Teflon or stainless steel bailer until adequate sample volume is obtained.

BOREHOLE GROUTING

On completion of soil and water sampling, boreholes will be abandoned with a grout mixture of Type II cement with 4% pure sodium bentonite. The grout will be pumped through a 1-inch-diameter grouting tube positioned at the bottom of the boreholes, prior to withdrawing the outer rods.

*****000*****

BOREHOLE LITHOLOGIC LOG

Project No. 3022.7

Boring No **EP-2**

Date Drilled	March 07, 1996	Drilling Company	Precision Sampling, Inc.
Client	Oro Loma Sanitary District	Driller	C. Fricke
Site Name	Mntce Bldg. Gasoline Tank Area	Rig Model	PSI: XD-2
City/Town	San Lorenzo, CA	Drilling Method	Enviropush continuous core
Logged By	J. Sutton	Borehole Diameter	2 1/2"
Surface Elevation	9.2 msl	Sampling Method	Envirocore, 1 5/8" ID x 6" long liners
Grd Water Depth	7.1 at time of drilling		

Depth (ft)	Graphic Symbol	USCS Symbol	Soil Description	Sample Loc'n/ Well Details	PID ppm	Remarks
		FILL	FILL: SAND very clayey, some gravel, dry to moist, brown (SC) garden. @ 0-1.5'	*		
			FILL: SAND, v. gravelly, slightly clayey, blue/gray (SP-SM to GP-GM) is moist @ 3.2'	x	5	
5		Pt	PEAT, black/brown, moist, organic odor.	x	150	
			Contact @ 3.5'	x		
		SC	SAND, clayey, very moist, petroleum odor	x	250	
		CL-CH	CLAY, moderately to highly plastic, sl. sandy, silty, graygreen BAY MUD	x	150	
10				x	5000	
				x		
			EP-2 terminated @ 12 ft.			
			1" dia temporary well with 5' slotted section.			
			Set at 12 ft depth.			
			Casing removed and hole tremie-grouted after water sampling			
			EP-2A drilled 2' away on 3/7/96, re-sampled 4'-7', odorous @ 6-7'			
			EP-2B hand-augered 2' from EP-2 on 4/2/96, sampled 2.5 -3.5' depth with hand-driver			
			* Log based on hand-auger boring EP-2B			

THE SUTTON GROUP

51 Shuey Drive
 Moraga, CA 94556
 (510) 631-1688 FAX (510) 631-1371

BOREHOLE LITHOLOGIC LOG

Project No. 3022.7

Boring No **EP-3, 3A, 3B**

Date Drilled	March 07, 1996 (EP-3)	Drilling Company	Precision Sampling, Inc.
Client	Oro Loma Sanitary District	Driller	C. Fricke
Site Name	Mntce Bldg. Gasoline Tank Area	Rig Model	PSI: XD-2
City/Town	San Lorenzo, CA	Drilling Method	Enviropush continuous core
Logged By	J. Sutton	Borehole Diameter	2 1/2"
Surface Elevation	9+/- msl	Sampling Method	Envirocore, 1 5/8" ID x 6" long liners
Grd Water Depth	7.3 at time of drilling		

Depth (ft)	Graphic Symbol	USCS Symbol	Soil Description	Sample Loc'n/ Well Details	PID ppm	Remarks
0		FILL	GRAVEL, sandy, brown/olive/gray, dry. Base-rock/quarry fill..(GP-GM)	X		
				X		
			PEAT/Organic Clay. Organic Clay, stiff, dry to moist, brown. Interface @ 4'	X	0	
5		Pt		X	0	
		CL-CH	@5': CLAY, silty, m.plastic, soft, gray/green.	X	0	
		SM	@6.8 SAND silty, fine tr. clay, wet, gray	X	1	
				X		
				X	0	
10				X		
		CL-CH	CLAY, mod. to highly plastic, moist, green/black. Softer @ 11'.	X	0	
				X	0	
				X	0	
			Boring terminated at 13'.			
15						
			1" dia temporary well with 5' slotted section. Set at 12 ft depth. Casing removed and hole tremie-grouted after water sampling			
			EP-3A, 3B drilled 2' away on 4/18/96, EP-3A, drilled to 4,' sampled @1.5 to 2.0' EP-3B to 5' , sampled @ 3.5-4' and 4.5- 5.0'			

THE SUTTON GROUP
 51 Shuey Drive
 Moraga, CA 94556
 (510) 631-1688 FAX (510) 631-1371

BOREHOLE LITHOLOGIC LOG

Project No. 3022.7

Boring No **EP-5**

Date Drilled	March 07, 1996	Drilling Company	Precision Sampling, Inc.
Client	Oro Loma Sanitary District	Driller	C. Fricke
Site Name	Mntce Bldg. Gasoline Tank Area	Rig Model	PSI: XD-2
City/Town	San Lorenzo, CA	Drilling Method	Enviropush continuous core
Logged By	J. Sutton	Borehole Diameter	2 1/2"
Surface Elevation	8.5+/- msl	Sampling Method	Envirocore, 1 5/8" ID x 6" long liners
Grd Water Depth	6.0 On 3/8/96		

Depth (ft)	Graphic Symbol	USCS Symbol	Soil Description	Sample Loc'n/ Well Details	PID ppm	Remarks
0		FILL	Asphalt Paving approx 2" thick over FILL:			
			GRAVEL, sandy, olive green/gray. @ 3.'some	x	0	
			trash, lumber in PEAT matrix. Org. odor	x		
		CH	@3.7CLAY, v.stiff,grn/gray w/fill gravel, peat	x	0	
5		SP-SM	@ 4.8 SAND, fine, s.silty, v.moist. NO odor	x	0	
				x	0	
		ML	@ 6.8 SILT, sandy, clayey, gray	x	0	
		CL-CH	CLAY, stiff to very stiff, very moist some	x		
			roots/organics, organic odor	x	0	
10				x	0	
			Clay becomes soft to m. stiff, gray green	x	0	
				x	0	
			Boring terminated @ 12 ft.			
15						
			1" dia temporary well with 5' slotted section.			
			Set at 12 ft depth.			
			Casing removed and hole tremie-grouted			
			after water sampling			
25						

THE SUTTON GROUP

51 Shuey Drive
 Moraga, CA 94556
 (510) 631-1688 FAX (510) 631-1371

BOREHOLE LITHOLOGIC LOG

Project No. 3022.7

Boring No EP-6

Date Drilled	March 07, 1996	Drilling Company	Precision Sampling, Inc.
Client	Oro Loma Sanitary District	Driller	C. Fricke
Site Name	Mntce Bldg. Gasoline Tank Area	Rig Model	PSI: XD-2
City/Town	San Lorenzo, CA	Drilling Method	Enviropush continuous core
Logged By	J. Sutton	Borehole Diameter	2 1/2"
Surface Elevation	9.5+/- msl	Sampling Method	Envirocore, 1 5/8" ID x 6" long liners
Grd Water Depth	7.0 On 3/8/96		

Depth (ft)	Graphic Symbol	USCS Symbol	Soil Description	Sample Loc'n/ Well Details		PID ppm	Remarks
0		FILL	FILL, SAND and GRAVEL, brown, (garden)	x			
				x			
		CL-CH	CLAY, organics, roots, black/green moist.	x			
		SP-SM	@ 3.7SAND, fine, to medium, moist, brown to	x		0	
5			olive. NO odor	x		0	
			becomes wet at 6.5'.	x		0	
		CL-CH	CLAY, mod. to high plasticity, m.stiff, very	x		0	
			moist gray green	x		0	
				x		0	
10				x			
			Boring terminated @ 12 ft.				
15							
			1" dia temporary well with 5' slotted section.				
			Set at 12 ft depth.				
			Casing removed and hole tremie-grouted				
			after water sampling				

THE SUTTON GROUP

51 Shuey Drive
 Moraga, CA 94556
 (510) 631-1688 FAX (510) 631-1371



The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620
 Attention: John Sutton, PE

Client Project ID: Fuel Tanks
 Matrix: Liquid
 Work Order #: 9603514 01, 03

Reported: Mar 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031196BTEX07A	GC031196BTEX07A	GC031196BTEX07A	GC031196BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	960332706	960332706	960332706	960332706
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/11/96	3/11/96	3/11/96	3/11/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	31
MS % Recovery:	110	110	110	103
Dup. Result:	11	11	11	31
MSD % Recov.:	110	110	110	103
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031196	BLK031196	BLK031196	BLK031196
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/11/96	3/11/96	3/11/96	3/11/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.0	9.0	9.0	27
LCS % Recov.:	90	90	90	90

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Jim Heider
 Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9603514.TTT <1>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid

Work Order #: 9603514 02

Reported: Mar 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031296BTEX07A	GC031296BTEX07A	GC031296BTEX07A	GC031296BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	960333903	960333903	960333903	960333903
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.9	10	9.9	30
MS % Recovery:	99	100	99	100
Dup. Result:	11	11	11	34
MSD % Recov.:	110	110	110	113
RPD:	11	9.5	11	13
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031296	BLK031296	BLK031296	BLK031296
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	10	10	31
LCS % Recov.:	100	100	100	103

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Jim Heider
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9603514.TTT <2>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid

Work Order #: 9603514 04-06

Reported: Mar 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031296BTEXEXA	GC031296BTEXEXA	GC031296BTEXEXA	GC031296BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	960358101	960358101	960358101	960358101
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.15	0.15	0.16	0.47
MS % Recovery:	75	75	80	78

Dup. Result:	0.13	0.14	0.14	0.41
MSD % Recov.:	65	70	70	68

RPD:	14	6.9	13	14
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031296	BLK031296	BLK031296	BLK031296
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

LCS Result:	0.18	0.18	0.18	0.56
LCS % Recov.:	90	90	90	93

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Jim Heider
Jim Heider
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9603514.TTT <3>





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EP-3-WC Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9603514-01	Sampled: 03/08/96 Received: 03/08/96 Analyzed: 03/11/96 Reported: 03/13/96
---	--	---

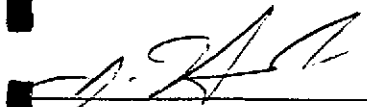
QC Batch Number: GC031196BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	210
Methyl t-Butyl Ether	2.5	5.4
Benzene	0.50	5.8
Toluene	0.50	2.6
Ethyl Benzene	0.50	0.53
Xylenes (Total)	0.50	3.1
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	119

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP-1-WC
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603514-02

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/13/96

QC Batch Number: GC031296BTEX07A
Instrument ID: GCHP07

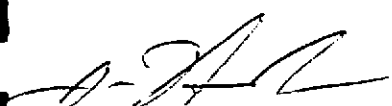
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	510
Methyl t-Butyl Ether	6.2	19
Benzene	1.2	31
Toluene	1.2	7.4
Ethyl Benzene	1.2	3.8
Xylenes (Total)	1.2	15
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	79

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


John Heider
Project Manager





The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
 Sample Descript: EP-2-WC
 Matrix: LIQUID
 Analysis Method: 8015Mod/8020
 Lab Number: 9603514-03

Sampled: 03/08/96
 Received: 03/08/96
 Analyzed: 03/11/96
 Reported: 03/13/96

Attention: John Sutton, PE

GC Batch Number: GC031196BTEX07A

Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50000	230000
Methyl t-Butyl Ether	2500	3900
Benzene	500	23000
Toluene	500	47000
Ethyl Benzene	500	4300
Xylenes (Total)	500	21000
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

John Sutton
 Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EP1 6.5-7 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9603514-04	Sampled: 03/07/96 Received: 03/08/96 Extracted: 03/12/96 Analyzed: 03/12/96 Reported: 03/13/96
---	---	--

QC Batch Number: GC031296BTEXEXA
Instrument ID: GCHP22

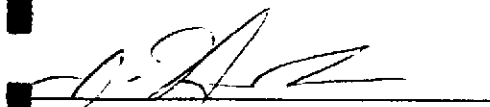
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	4.5
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.059
Chromatogram Pattern: Gas & Unidentified HC		+ < C7

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


J. Heider
Project Manager





The Sutton Group	Client Proj. ID: Fuel Tanks	Sampled: 03/07/96
51 Shuey Drive	Sample Descript: EP2 6.5-7	Received: 03/08/96
Moraga, CA 94556-2620	Matrix: SOLID	Extracted: 03/12/96
Attention: John Sutton, PE	Analysis Method: 8015Mod/8020	Analyzed: 03/12/96
	Lab Number: 9603514-05	Reported: 03/13/96


QC Batch Number: GC031296BTEXEXA
 Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	300	1800
Methyl t-Butyl Ether	7.5	N.D.
Benzene	1.5	21
Toluene	1.5	120
Ethyl Benzene	1.5	35
Xylenes (Total)	1.5	180
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

Values reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 J. Heider
 Project Manager





The Sutton Group	Client Proj. ID: Fuel Tanks	Sampled: 03/07/96
51 Shuey Drive	Sample Descript: EP3 6.5-7	Received: 03/08/96
Moraga, CA 94556-2620	Matrix: SOLID	Extracted: 03/12/96
Attention: John Sutton, PE	Analysis Method: 8015Mod/8020	Analyzed: 03/12/96
	Lab Number: 9603514-06	Reported: 03/13/96

QC Batch Number: GC031296BTEXEXA
 Instrument ID: GCHP22


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	5.3
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.036
Chromatogram Pattern: Gas & Unidentified HC		+ < C7

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 John Heider
 Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <i>The Sutton Group</i>			Project Name: <i>Fuel Tanks</i>		
Address: <i>51 Sluway Drive</i>			Billing Address (if different): <i>OLSD</i>		
City: <i>Moraga</i>	State: <i>CA</i>	Zip Code: <i>94556</i>	<i>2600 GRANT AV. SAN LORENZO 94580</i>		
Telephone: <i>510 631-1688</i>		FAX #: <i>510 631-1371</i>	P.O. #:		
Report To: <i>The Sutton Group</i>		Sampler: <i>Sutton</i>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours *9603514*

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments	
						GAS BTEX	MTBE	LEAD (Sol)	Diesel BTEX	TDS	Semi Vol		
1. EPA-W1	3/8/96, 0900		3	2x VOA 1x 1/2 L Pks		X		X					VOL EXAMINED Hold for MTBE
2. EP-3-WC	3/8/96, 0915		3	2x VOA 1x 1/2 L Pks	1	X	X	X					72 HR TAT IN MTBE. See Jim
3. EP1-WC	3/8/96		3	2x VOA 1x 1/2 L PI	2	X	X	X					NIEOEN ↓
4. EP2-WC	3/8/96 0950		3	2x VOA 1x 1/2 L PI	3	X	X	X					
5. EP6-WA	3/8/96 1007		3	2x VOA 1x 1/2 L PI		X		X					Hold for MTBE
6. EP7-WA	3/8/96 1025		3	2x VOA 1x 1/2 L PI		X		X					Hold for MTBE
7. EP5-WA	3/8/96 1000		3	2x VOA 1x 1/2 L PI		X		X					
8. EPD-2	3/8/96 1140		4	2x VOA 2x 1/2 L A				X	X	X			
9. EPD-1	3/8/96 1130		4	2x VOA 2x 1/2 L A				X	X	X			
10. MW-1	3/8/96 1220		4	2x VOA 2x 1/2 L A				X	X	X			

Relinquished By: <i>RM</i>	Date: <i>3/8/96</i>	Time: <i>1520</i>	Received By: <i>Michael Heen</i>	Date: <i>3/8/96</i>	Time: <i>4:25</i>
Relinquished By: <i>Michael Heen</i>	Date: <i>3/8/96</i>	Time: <i>5:10</i>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>CP</i>	Date: <i>3/8/96</i>	Time: <i>1710</i>

Pink - Client

Yellow - Sequoia

White - Sequoia



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

815 Striker Ave., Suite 8 • San Jose, CA 95128 • (415) 931-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: The Sutton Group Project Name: Fuel Tanks
 Address: 51 Shuey Drive Billing Address (if different): OLSD
 City: Moraga State: CA Zip Code: 94566 2600 Grant Ave San Lorenzo 94580
 Telephone: 510 631-1688 FAX #: 510 631-1371 P.O. #:
 Report To: The Sutton Group Sampler: Sutton QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 960374

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments
1. EP1@ 6.5-7	3/7 0820	Soil	1	Tube	4	GAS 3TEX MTBE (Hold) (Hold) (Hold)										Hold Samples Sutton to Fax analysis by 2/11
2. EP1@ 9.5-10	3/7 0930	Soil	1	Tube	5											
3. EP2A@ 6.5-7	3/7 1040	Soil	1	Tube												
4. EP3@ 3-3.5	3/7	S.L	1	Tube												
5. EP3@ 6.5-7	3/7 1045	Soil	1	Tube	6											
6. EP3@ 7.5-8	3/7 1115	Soil	1	Tube												
7. EP4@ 6.5-7	3/7 1150	Soil	1	Tube												
8. EP5@ 3.5-4	3/7 1300	Soil	1	Tube												
9. EP5@ 6-6.5	3/7 1330	Soil	1	Tube												
10. EP6@ 3.5-4	3/7 1415	Soil	1	Tube												

Relinquished By: <u>RM</u>	Date: <u>3/8/96</u>	Time: <u>1820</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab	Date:	Time:

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No Method of Shipment _____ Page 2 of 2

Pink - Client
Yellow - Sequoia
White - Sequoia



CHAIN OF CUSTODY

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>The Sutton Group</u>			Project Name: <u>Fuel Tanks.</u>		
Address: <u>61 Shady Drive</u>			Billing Address (if different): <u>OLSD</u>		
City: <u>Merced</u>	State: <u>CA</u>	Zip Code: <u>94556</u>	<u>2600 Grant Ave San Lorenzo 94580</u>		
Telephone: <u>510-631-1688</u>		FAX #: <u>510-631-1371</u>		P.O. #:	
Report To: <u>The Sutton Group</u>		Sampler: <u>Sutton</u>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 9603514

Drinking Water
 Waste Water
 Other

Analyses Requested
Gas BTEX
MTBE
Diesel BTEX
Semi Vol BTEX

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Comments
1. EPD @ 3-5-4	3/7 14:20:15	Soil	1	Tab		Hold Samples
2. EP7 @ 6-5-7	3/7 14:40	Soil	1	Tab		Hold
3. EPD1 @ 3-5-4	3/7 15:50	Soil	1	Tab		Reanalyzed
4. EPD2 @ 6-5-7	3/7 15:50	Soil	1	Tab		Sutton for Fax analysis 3/11
5. EPD2 @ 3-5-4	3/7 16:15	Soil	1	Tab		
6. EPD2 @ 6-5-7	3/7 16:20	Soil	1	Tab		
7. EPD2 @ 9-5-10	3/7 16:40	Soil	1	Tab		Archive
8.						
9.						
10.						

Relinquished By: <u>[Signature]</u>	Date: <u>3/8/16</u>	Time: <u>15:20</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment _____
 Page ___ of ___

Pink - Client
 Yellow - Sequoia
 White - Sequoia



The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Lab Proj. ID: 9603520

Sampled: 03/08/96
Received: 03/08/96
Analyzed: see below

Attention: John Sutton, PE


Reported: 03/22/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9603520-01 Sample Desc: LIQUID,EP4-W1				
Lead	mg/L	03/18/96	0.0050	0.015
Lab No: 9603520-02 Sample Desc: LIQUID,EP6-W				
Lead	mg/L	03/18/96	0.0050	0.019
Lab No: 9603520-03 Sample Desc: LIQUID,EP7-W				
Lead	mg/L	03/18/96	0.0050	N.D.
Lab No: 9603520-04 Sample Desc: LIQUID,EP5-W				
Lead	mg/L	03/18/96	0.0050	N.D.
Lab No: 9603520-05 Sample Desc: LIQUID,EPD-2				
Total Dissolved Solids	mg/L	03/11/96	1.0	1900
Lab No: 9603520-06 Sample Desc: LIQUID,EPD-1				
Total Dissolved Solids	mg/L	03/11/96	1.0	21000
Lab No: 9603520-07 Sample Desc: LIQUID,MW-1				
Total Dissolved Solids	mg/L	03/11/96	1.0	6200

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Tom Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Lab Proj. ID: 9603520

Sampled: 03/08/96
Received: 03/08/96
Analyzed: see below

Attention: John Sutton, PE

Reported: 03/22/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
---------	-------	---------------	-----------------	----------------

Lab No: 9603520-15
Sample Desc: LIQUID,EP3-W

Lead	mg/L	03/18/96	0.0050	0.016
------	------	----------	--------	-------

Lab No: 9603520-16
Sample Desc: LIQUID,EP1-W

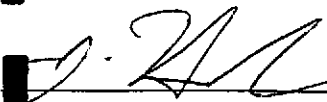
Lead	mg/L	03/18/96	0.0050	N.D.
------	------	----------	--------	------

Lab No: 9603520-17
Sample Desc: LIQUID,EP2-W

Lead	mg/L	03/18/96	0.0500	0.074
------	------	----------	--------	-------

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Jim Heider
Project Manager





The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
 Sample Descript: EP4-W1
 Matrix: LIQUID
 Analysis Method: EPA 8020
 Lab Number: 9603520-01

Sampled: 03/08/96
 Received: 03/08/96
 Analyzed: 03/12/96
 Reported: 03/22/96

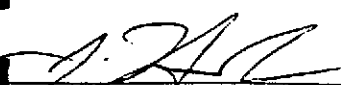
QC Batch Number: GC031296BTEX17A
 Instrument ID: GCHP17

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	36
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Tom Heider
 Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP4-W1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-01

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

Attention: John Sutton, PE

QC Batch Number: GC031296BTEX17A

Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	2.3
Toluene	0.50	0.97
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.59
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EP6-W Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9603520-02	Sampled: 03/08/96 Received: 03/08/96 Analyzed: 03/12/96 Reported: 03/22/96
---	--	---

QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

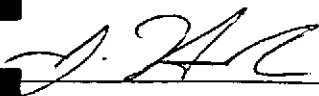
Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 John Heider
 Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP6-W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-02

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

Attention: John Sutton, PE

QC Batch Number: GC031296BTEX17A


Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	0.99
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	1.0
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP7-W
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9603520-03

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.5	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

J. Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP7-W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-03

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	0.53
Toluene	0.50	2.1
Ethyl Benzene	0.50	0.53
Xylenes (Total)	0.50	2.9

Chromatogram Pattern:

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EP5-W Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9603520-04	Sampled: 03/08/96 Received: 03/08/96 Analyzed: 03/12/96 Reported: 03/22/96
---	--	---

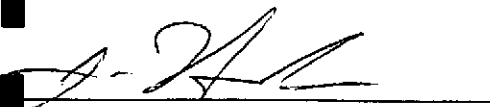
QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	500	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



John Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP5-W
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-04

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	64000
Benzene	100	8800
Toluene	100	4800
Ethyl Benzene	100	1100
Xylenes (Total)	100	4800
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

J. Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD-2
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9603520-05

Sampled: 03/08/96
Received: 03/08/96
Extracted: 03/12/96
Analyzed: 03/20/96
Reported: 03/22/96

Attention: John Sutton, PE

QC Batch Number: MS0308968270EXA

Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
2-Chloro-3-methylphenol	5.0	N.D.
Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
benzo(a,h)anthracene	5.0	N.D.
benzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
1,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.
2,4-Dinitrotoluene	5.0	N.D.





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD-2
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9603520-05

Sampled: 03/08/96
Received: 03/08/96
Extracted: 03/12/96
Analyzed: 03/20/96
Reported: 03/22/96

QC Batch Number: MS0308968270EXA
Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
1-Methylphenol	5.0	N.D.
2-Methylphenol	5.0	N.D.
1-Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
Nitrosodiphenylamine	5.0	N.D.
Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
Fluorophenol	21	110	48
Phenol-d5	10	110	34
Nitrobenzene-d5	35	114	74
2-Fluorobiphenyl	43	116	81
2,4,6-Tribromophenol	10	123	108
Terphenyl-d14	33	141	110

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heidi Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Attention: John Sutton, PE

Client Proj. ID: Fuel Tanks
Sample Descript: EPD-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9603520-05

Sampled: 03/08/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96


QC Batch Number: GC0311960HBPEXX
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	210
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	120

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD-2
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9603520-05

Sampled: 03/08/96
Received: 03/08/96

Attention: John Sutton, PE

Analyzed: 03/12/96
Reported: 03/22/96

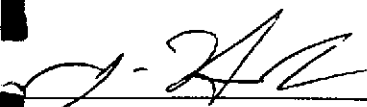
QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

BTEX Distinction

Analyte	Detection Limit ug/L	Sample Results ug/L
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95

Bytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD-1
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9603520-06

Sampled: 03/08/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/18/96
Reported: 03/22/96

QC Batch Number: MS0308968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
1-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
1-Chloro-3-methylphenol	5.0	N.D.
1-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
1,2,3,4-tetrahydro-1,2,3,4-dibenz(a,h)anthracene	5.0	N.D.
1,2,3,4-tetrahydroquinoline	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
1,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
4-Dinitrophenol	10	N.D.
4-Dinitrotoluene	5.0	N.D.





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
 Sample Descript: EPD-1
 Matrix: LIQUID
 Analysis Method: EPA 8270
 Lab Number: 9603520-06

Sampled: 03/08/96
 Received: 03/08/96
 Extracted: 03/13/96
 Analyzed: 03/18/96
 Reported: 03/22/96

QC Batch Number: MS0308968270EXA
 Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
4-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	49
2-Fluorophenol-d5	10	110	33
Nitrobenzene-d5	35	114	75
2-Fluorobiphenyl	43	116	77
2,4,6-Tribromophenol	10	123	101
2,4,6-Tribromophenol-d14	33	141	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider
 Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EPD-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9603520-06	Sampled: 03/08/96 Received: 03/08/96 Extracted: 03/11/96 Analyzed: 03/13/96 Reported: 03/22/96
---	--	--


GC Batch Number: GC0311960HBPEXX
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	340
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	105

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EPD-1 Matrix: LIQUID Analysis Method: EPA 8020 Lab Number: 9603520-06	Sampled: 03/08/96 Received: 03/08/96 Analyzed: 03/12/96 Reported: 03/22/96
---	--	---

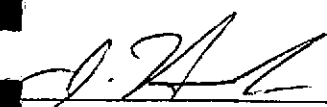
QC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

BTEX Distinction

Analyte	Detection Limit ug/L	Sample Results ug/L
Benzene	0.50	N.D.
Toluene	0.50	0.76
Ethyl benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Heider
 Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9603520-07

Sampled: 03/08/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/18/96
Reported: 03/22/96

QC Batch Number: MS0308968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	11
Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
2-Chloro-3-methylphenol	5.0	N.D.
Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Benzo(a,h)anthracene	5.0	N.D.
Benzenofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
1,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
1,4-Dinitrophenol	10	N.D.
1,4-Dinitrotoluene	5.0	N.D.





The Sutton Group	Client Proj. ID: Fuel Tanks	Sampled: 03/08/96
51 Shuey Drive	Sample Descript: MW-1	Received: 03/08/96
Moraga, CA 94556-2620	Matrix: LIQUID	Extracted: 03/11/96
Attention: John Sutton, PE	Analysis Method: EPA 8015 Mod	Analyzed: 03/13/96
	Lab Number: 9603520-07	Reported: 03/22/96

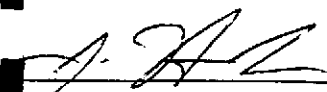
QC Batch Number: GC0311960HBPEXX
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	240
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	144

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9603520-07

Sampled: 03/08/96
Received: 03/08/96
Analyzed: 03/12/96
Reported: 03/22/96

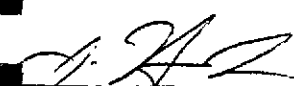
GC Batch Number: GC031296BTEX17A
Instrument ID: GCHP17

BTEX Distinction

Analyte	Detection Limit ug/L	Sample Results ug/L
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		92

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP3 3-3.5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-08

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/14/96
Reported: 03/22/96


QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	810
Benzene	0.50	8.7
Toluene	0.50	47
Ethyl Benzene	0.50	14
Xylenes (Total)	0.50	72
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EP5 3.5-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9603520-09	Sampled: 03/07/96 Received: 03/08/96 Extracted: 03/13/96 Analyzed: 03/14/96 Reported: 03/22/96
---	---	--

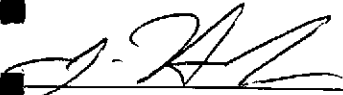
QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	29
Benzene	0.050	1.5
Toluene	0.050	0.24
Ethyl Benzene	0.050	0.90
Xylenes (Total)	0.050	2.2
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	203 Q

lytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EP6 3.5-4
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9603520-10

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/14/96
Reported: 03/22/96


GC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 3.5-4
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-11

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96

GC Batch Number: MS0311968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
2-Chloro-3-methylphenol	250	N.D.
Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Benzo(a,h)anthracene	250	N.D.
Benzenofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
1,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
1,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 3.5-4
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-11

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96

QC Batch Number: MS0311968270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
1-Methylphenol	250	N.D.
2-Methylphenol	250	N.D.
1-Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
3-Nitrophenol	500	N.D.
4-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
Fluorophenol	25	121	78
Phenol-d5	24	113	85
Nitrobenzene-d5	23	120	76
2-Fluorobiphenyl	30	115	82
2,4,6-Tribromophenol	19	122	87
Terphenyl-d14	18	137	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Sample Descript: EPD1 3.5-4 Matrix: SOLID Analysis Method: EPA 8020 Lab Number: 9603520-11	Sampled: 03/07/96 Received: 03/08/96 Extracted: 03/13/96 Analyzed: 03/14/96 Reported: 03/22/96
---	--	--

QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP22

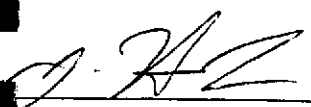
BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Kylenes (Total)	0.0050	0.0056

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Bytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 3.5-4
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9603520-11

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/12/96
Reported: 03/22/96


QC Batch Number: GC0310960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.8
Chromatogram Pattern: Unidentified HC		C12-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	109

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 6.5-7
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-12

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96

QC Batch Number: MS0311968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
2-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
2-Chloro-3-methylphenol	250	N.D.
Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Benzo(a,h)anthracene	250	N.D.
Benzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
1,2-Dimethyl phthalate	250	N.D.
1,4-Dimethylphenol	250	N.D.
1,3-Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,6-Dinitrotoluene	250	N.D.





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
 Sample Descript: EPD1 6.5-7
 Matrix: SOLID
 Analysis Method: EPA 8270
 Lab Number: 9603520-12

Sampled: 03/07/96
 Received: 03/08/96
 Extracted: 03/11/96
 Analyzed: 03/13/96
 Reported: 03/22/96

QC Batch Number: MS0311968270EXA
 Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
1-Methylphenol	250	N.D.
2-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
3-Nitrophenol	500	N.D.
4-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates

	Control Limits %		% Recovery
Fluorophenol	25	121	79
Phenol-d5	24	113	83
Nitrobenzene-d5	23	120	75
2-Fluorobiphenyl	30	115	83
2,4,6-Tribromophenol	19	122	91
Terphenyl-d14	18	137	80

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tom Heider
 Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 6.5-7
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9603520-12

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/14/96
Reported: 03/22/96

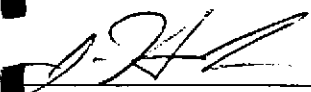
QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP22

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	106

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD1 6.5-7
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9603520-12

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/12/96
Reported: 03/22/96

QC Batch Number: GC0310960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	82

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 3.5-4
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-13

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96

QC Batch Number: MS0311968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
1-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
2-Chloro-3-methylphenol	250	N.D.
3-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Fluorene	250	N.D.
Fluoranthene	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

The Sutton Group
 51 Shuey Drive
 Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
 Sample Descript: EPD2 3.5-4
 Matrix: SOLID
 Analysis Method: EPA 8270
 Lab Number: 9603520-13

Sampled: 03/07/96
 Received: 03/08/96
 Extracted: 03/11/96
 Analyzed: 03/13/96
 Reported: 03/22/96

QC Batch Number: MS0311968270EXA
 Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
4-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	72
Phenol-d5	24	113	81
Nitrobenzene-d5	23	120	71
2-Fluorobiphenyl	30	115	76
2,4,6-Tribromophenol	19	122	79
4-Terphenyl-d14	18	137	79

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Jim Heider
 Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Attention: John Sutton, PE

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 3.5-4
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9603520-13

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/14/96
Reported: 03/22/96

QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP18

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 3.5-4
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9603520-13

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/12/96
Reported: 03/22/96


GC Batch Number: GC0310960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	5.4
Chromatogram Pattern: Unidentified HC		C12-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	104

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


John Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 6-6.5
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-14

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96

QC Batch Number: MS0311968270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
Chloro-3-methylphenol	250	N.D.
Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Benzo(a,h)anthracene	250	N.D.
Benzenofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
1,2-Dimethyl phthalate	250	N.D.
1,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
1,4-Dinitrotoluene	250	N.D.





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 6-6.5
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9603520-14

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/13/96
Reported: 03/22/96


QC Batch Number: MS0311968270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
1-Methylphenol	250	N.D.
2-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
3-Nitrophenol	500	N.D.
Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
Fluorophenol	25	121	75
Phenol-d5	24	113	84
Nitrobenzene-d5	23	120	73
2-Fluorobiphenyl	30	115	80
1,6-Tribromophenol	19	122	83
Terphenyl-d14	18	137	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Tom Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 6-6.5
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9603520-14

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/13/96
Analyzed: 03/14/96
Reported: 03/22/96

QC Batch Number: GC031396BTEXEXB
Instrument ID: GCHP18

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70 130	89

Values reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Fuel Tanks
Sample Descript: EPD2 6-6.5
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9603520-14

Sampled: 03/07/96
Received: 03/08/96
Extracted: 03/11/96
Analyzed: 03/12/96
Reported: 03/22/96

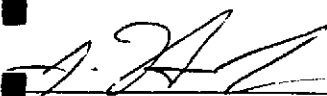
QC Batch Number: GC0310960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	4.1
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	101

Bytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Proj. ID: Fuel Tanks
Lab Proj. ID: 9603520

Received: 03/08/96
Reported: 03/22/96

LABORATORY NARRATIVE

Q note: High surrogate recovery on sample 9603520-09 due to matrix interference.

SEQUOIA ANALYTICAL

Jim Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid

Work Order #: 9603520 -01-04, 15-17

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte: Lead

QC Batch#: ME0314967000MDA
Analy. Method: EPA 239.2
Prep. Method: EPA 3020

Analyst: J. Smith
MS/MSD #: 960366001
Sample Conc.: 0.016
Prepared Date: 3/14/96
Analyzed Date: 3/15/96
Instrument I.D.#: MV1
Conc. Spiked: 0.050 mg/L

Result: 0.046
MS % Recovery: 60

Dup. Result: 0.048
MSD % Recov.: 64

RPD: 4.3
RPD Limit: 0-30

LCS #: BLK031496

Prepared Date: N/A
Analyzed Date: 3/18/96
Instrument I.D.#: MV1
Conc. Spiked: 0.050 mg/L

LCS Result: 0.051
LCS % Recov.: 101

MS/MSD
LCS Control Limits 75-125

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Jim Heider
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9603520.SSS <1>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid
Work Order #: 9603520-05-07

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Total Dissolved Solid	Diesel
QC Batch#:	IN031196160100A	GC0311960HBPEXX
Analy. Method:	EPA 160.1	EPA 8015M
Prep. Method:	N/A	EPA 3520

Analyst:	S. Chin	J. Minkel
MS/MSD #:	960328812	960337701
Sample Conc.:	400	550
Prepared Date:	3/11/96	3/11/96
Analyzed Date:	3/11/96	3/13/96
Instrument I.D.#:	Manual	GCHP4
Conc. Spiked:	500 mg/L	1000 µg/L

Result:	950	1200
MS % Recovery:	110	65

Dup. Result:	830	910
MSD % Recov.:	86	36

RPD:	13	28
RPD Limit:	0-30	0-50

LCS #:	BLK031196	BLK031196
Prepared Date:	3/11/96	3/11/96
Analyzed Date:	3/11/96	3/12/96
Instrument I.D.#:	Manual	GCHP4
Conc. Spiked:	500 mg/L	1000 µg/L
LCS Result:	480	930
LCS % Recov.:	96	93

MS/MSD	70-130	
LCS	80-120	38-122
Control Limits		

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Jim Heider
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9603520.SSS <2>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid

Work Order #: 9603520-01-07

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031296BTEX17A	GC031296BTEX17A	GC031296BTEX17A	GC031296BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	960309703	960309703	960309703	960309703
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	9.9	30
MS % Recovery:	100	100	99	100
Dup. Result:	9.6	9.8	9.8	29
MSD % Recov.:	96	98	98	97
RPD:	4.1	2.0	1.0	3.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031296	BLK031296	BLK031296	BLK031296
Prepared Date:	3/12/96	3/12/96	3/12/96	3/12/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.7	9.6	9.7	29
LCS % Recov.:	97	96	97	97

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
Jim Heider
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9603520.SSS <3>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid

Work Order #: 9603520-08-14

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC031396BTEXEXB	GC031396BTEXEXB	GC031396BTEXEXB	GC031396BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	M. Otte	M. Otte	M. Otte	M. Otte
MS/MSD #:	960366802	960366802	960366802	960366802
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.14	0.15	0.15	0.45
MS % Recovery:	70	75	75	75

Dup. Result:	0.16	0.16	0.16	0.48
MSD % Recov.:	80	80	80	80

RPD:	13	6.5	6.5	6.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031396	BLK031396	BLK031396	BLK031396
Prepared Date:	3/13/96	3/13/96	3/13/96	3/13/96
Analyzed Date:	3/13/96	3/13/96	3/13/96	3/13/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

LCS Result:	0.18	0.19	0.19	0.57
LCS % Recov.:	90	95	95	95

MS/MSD LCS	Control Limits	50-150	50-150	50-150	50-150
Control Limits	50-150	50-150	50-150	50-150	50-150

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Jim Heider
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9603520.SSS <4>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid

Work Order #: 9603520-11-14

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0310960HBPEXA
Analy. Method: EPA 8015M
Prep. Method: EPA 3550

Analyst: J. Minkel
MS/MSD #: 960348212
Sample Conc.: 5000
Prepared Date: 3/10/96
Analyzed Date: 3/11/96
Instrument I.D.#: GCHP5
Conc. Spiked: 25 mg/Kg

Result: *
MS % Recovery: -

Dup. Result: *
MSD % Recov.: -

RPD: *
RPD Limit: -

LCS #: BLK031196


Prepared Date: 3/11/96
Analyzed Date: 3/12/96
Instrument I.D.#: GCHP5
Conc. Spiked: 25 mg/Kg

LCS Result: 20
LCS % Recov.: 80

MS/MSD
LCS 38-122
Control Limits

*Matrix interference

SEQUOIA ANALYTICAL


Jim Heider
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9603520.SSS <5>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid

Work Order #: 9603520-05-07

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0308968270EXA	MS0308968270EXA	MS0308968270EXA	MS0308968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510

Analyst:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960332601	960332601	960332601	960332601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	81	140	120	160
MS % Recovery:	41	70	60	80
Dup. Result:	80	140	120	150
MSD % Recov.:	40	70	60	75
RPD:	1.2	0.0	0.0	6.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK030896	BLK030896	BLK030896	BLK030896
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	86	150	120	170
LCS % Recov.:	43	75	60	85

MS/MSD LCS Control Limits	15-115	30-120	30-120	30-120
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Jim Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid
Work Order #: 9603520-05-07

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0308968270EXA	MS0308968270EXA	MS0308968270EXA	MS0308968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510

Analyt:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960332601	960332601	960332601	960332601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	110	130	130	70
MS % Recovery:	55	65	65	35
Dup. Result:	110	130	130	65
MSD % Recov.:	55	65	65	33
RPD:	0.0	0.0	0.0	7.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK030896	BLK030896	BLK030896	BLK030896
Prepared Date:	3/8/96	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	120	140	140	66
LCS % Recov.:	60	70	70	33

MS/MSD LCS Control Limits	40-120	30-120	50-140	20-120
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

J. Heider
Jim Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Liquid

Work Order #: 9603520-05-07

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0308968270EXA	MS0308968270EXA	MS0308968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510

Analyst:	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960332601	960332601	960332601
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L

Result:	130	140	140
MS % Recovery:	65	70	70

Dup. Result:	120	140	130
MSD % Recov.:	60	70	65

RPD:	8.0	0.0	7.4
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK030896	BLK030896	BLK030896
Prepared Date:	3/8/96	3/8/96	3/8/96
Analyzed Date:	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L
LCS Result:	140	140	140
LCS % Recov.:	70	70	70

MS/MSD LCS Control Limits	40-130	30-110	55-115
---------------------------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

Jim Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid
Work Order #: 9603520-11-14

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0311968270EXA	MS0311968270EXA	MS0311968270EXA	MS0311968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960354611	960354611	960354611	960354611
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	3300	2900	2600	3300
MS % Recovery:	100	88	79	100
Dup. Result:	3100	2800	2300	3300
MSD % Recov.:	94	85	70	100
RPD:	6.3	3.5	12	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031196	BLK031196	BLK031196	BLK031196
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	3300	3000	2700	3500
LCS % Recov.:	100	91	82	106

MS/MSD LCS Control Limits	35-120	30-120	30-120	30-120
---------------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Jim Heider
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid
Work Order #: 9603520-11-14

Reported: Mar 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0311968270EXA	MS0311968270EXA	MS0311968270EXA	MS0311968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550

Analyst:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960354611	960354611	960354611	960354611
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2400	2700	2700	3200
MS % Recovery:	73	82	82	97
Dup. Result:	2300	2800	2700	3100
MSD % Recov.:	70	85	82	94
RPD:	4.3	3.6	0.0	3.2
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK031196	BLK031196	BLK031196	BLK031196
Prepared Date:	3/11/96	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2600	2700	2800	3200
LCS % Recov.:	79	82	85	97

MS/MSD LCS Control Limits	40-120	40-120	50-140	20-120
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Jim Heider
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620 Attention: John Sutton, PE	Client Project ID: Fuel Tanks Matrix: Solid Work Order #: 9603520-11-14	Reported: Mar 22, 1996
--	--	-------------------------------

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0311968270EXA	MS0311968270EXA	MS0311968270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550

Analyst:	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	960354611	960354611	960354611
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2500	2900	2700
MS % Recovery:	76	88	82
Dup. Result:	2400	2600	2700
MSD % Recov.:	73	79	82
RPD:	4.1	11	0.0
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK031196	BLK031196	BLK031196
Prepared Date:	3/11/96	3/11/96	3/11/96
Analyzed Date:	3/12/96	3/12/96	3/12/96
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2500	2800	2800
LCS % Recov.:	76	85	85

MS/MSD	240-130	30-110	50-115
LCS Control Limits			

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

Jim Heider
Project Manager



SEQUIOIA ANALYTICAL

CHAIN OF CUSTODY

80 Capehorn Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: The Sutton Group Project Name: Fuel Tanks
 Address: 51 Shugay Drive Billing Address (if different): OLSD
 City: Moraga State: CA Zip Code: 94556 2600 GRANT AV. SAN LORRENZO 94580
 Telephone: 510 631-1688 FAX #: 510 631-1371 P.O. #:
 Report To: The Sutton Group Sampler: Sutton QC Data: Level D (Standard) Level C Level B Level A1

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 960 3520

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments	
						GAS BTEX	MTBE	LEAD (Soil)	DIESEL BTEX	TDS	Semi Vol			
1. EP4-W1	3/8/96, 0900		3	2x VOA 1x 1/2 LPI	1	X		X						VOL APPROVED HOLD FOR MTBE
2. EP-3 WC	3/8/96			2x VOA 1x 1/2 LPI	15	X	X	X						TAKE PART of MTBE see Jim
3. EP7-WC	3/8/96			2x VOA 1x 1/2 LPI	16	X	X	X						Hold
4. EP2-WC	3/8/96 0950		3	2x VOA 1x 1/2 LPI	17	X	X	X						
5. EP6-WA	3/8/96 1007		3	2x VOA 1x 1/2 LPI	2	X		X						Hold for MTBE
6. EP7-WA	3/8/96 1025		3	2x VOA 1x 1/2 LPI	3	X		X						Hold for MTBE
7. EP5-WA	3/8/96 1000		3	2x VOA 1x 1/2 LPI	4	X		X						
8. EPD-2	3/8/96 1140		4	2x VOA 2x 1/2 LA	5				X	X	X			
9. EPD-1	3/8/96 1130		4	2x VOA 2x 1/2 LA	6				X	X	X			
10. MW-1	3/13/96 1220		4	2x VOA 2x 1/2 LA	7				X	X	X			

Relinquished By: <u>[Signature]</u>	Date: <u>3/8/96</u>	Time: <u>15:20</u>	Received By: <u>Michael Klein</u>	Date: <u>3/8/96</u>	Time: <u>4:25</u>
Relinquished By: <u>[Signature]</u>	Date: <u>3/8/96</u>	Time: <u>5:10</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>3/8/96</u>	Time: <u>17:10</u>

Pink - Client
Yellow - Sequoia
White - Sequoia



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

880 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>The Sutton Group</u>		Project Name: <u>Fuel Tanks</u>	
Address: <u>51 Shady Drive</u>		Billing Address (if different): <u>OLIND</u>	
City: <u>Marysville</u>	State: <u>CA</u>	Zip Code: <u>94554</u>	<u>2000 Grant Ave San Leandro CA 94550</u>
Telephone: <u>510 621-1045</u>		FAX #: <u>510 621-1311</u>	P.O. #:
Report To: <u>The Sutton Group</u>	Sampler: <u>Sutton</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water
 Waste Water
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	GALILEX MTR										Comments				
1. EP1@ 6.5-7	3/7 0820	Soil	1	Tube																Hold samples
2. EP1@ 9.5-10	3/7 0930	Soil	1	Tube																Sutton to FAX
3. EP2A@ 6.5-7	3/7 1040	Soil	1	Tube																Analyses by Sutton
4. EP3@ 3-3.5	3/7	Soil	1	Tube	8															By 4/1
5. EP3@ 6.5-7	3/7 1045	Soil	1	Tube																
6. EP3@ 7.5-8	3/7 1115	Soil	1	Tube																
7. EP4@ 6.5-7	3/7 1150	Soil	1	Tube	9															
8. EP5@ 3.5-4	3/7 1300	Soil	1	Tube																
9. EP5@ 6-6.5	3/7 1330	Soil	1	Tube																
10. EP6@ 3.5-4	3/7 1415	Soil	1	Tube	10															

Relinquished By: <u>RM...</u>	Date: <u>3/8/96</u>	Time: <u>1720</u>	Received By: <u>Michael...</u>	Date: <u>3-8-96</u>	Time: <u>4:25</u>
Relinquished By: <u>Michael...</u>	Date: <u>3-8-96</u>	Time: <u>5:10</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>3/8/96</u>	Time: <u>1711</u>

Pink - Client
 Yellow - Sequoia
 White - Sequoia



SEQUOIA ANALYTICAL

CHAIN OF CUSTODY

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: The Sutton Group Project Name: Fuel Tanks
 Address: 51 Shugay Drive Billing Address (if different): OLSD
 City: Moraga State: CA Zip Code: 94556 2600 GRANT AV. SAN LORENZO 94580
 Telephone: 510 631-1688 FAX #: 510 631-1371 P.O. #:
 Report To: The Sutton Group Sampler: Sutton QC Data: Level D (Standard) Level C Level B Level A1

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 960 3520

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested							Comments	
						GAS BTEX	MTBE	LEAD (Sol)	DIESEL BTEX	TDS	Semi Vol			
1. EP4-W1	3/8/96, 0900		3	2x VOA 1x 1/2 LPI	1	X		X						VOA APPROVED Hold for MTBE
2. EP3-WC	3/8/96			2x VOA 1x 1/2 LPI	15	X	X	X						TEMP TAT on MTBE see Jim
3. EP1-WC	3/8/96			2x VOA 1x 1/2 LPI	16	X	X	X						Micro ↓
4. EP2-WC	3/8/96 0950		3	2x VOA 1x 1/2 LPI	17	X	X	X						
5. EP6-WA	3/8/96 1407		3	2x VOA 1x 1/2 LPI	2	X		X						Hold for MTBE
6. EP7-WA	3/8/96 1025		3	2x VOA 1x 1/2 LPI	3	X		X						Hold for MTBE
7. EP5-WA	3/8/96 1000		3	2x VOA 1x 1/2 LPI	4	X		X						
8. EPD-2	3/8/96 1140		4	2x VOA 2x 1/2 L A	5				X	X	X			
9. EPD-1	3/8/96 1130		4	2x VOA 2x 1/2 L A	6				X	X	X			
10. MW-1	3/8/96 1220		4	2x VOA 2x 1/2 L A	7				X	X	X			

Relinquished By: <u>Michael Kern</u>	Date: <u>3/8/96</u>	Time: <u>1520</u>	Received By: <u>Michael Kern</u>	Date: <u>3/8/96</u>	Time: <u>14:25</u>
Relinquished By: <u>Michael Kern</u>	Date: <u>3/8/96</u>	Time: <u>5:10</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>PLM</u>	Date: <u>3/8/96</u>	Time: <u>1710</u>

Pink - Client
Yellow - Sequoia
White - Sequoia

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>The Sutton Group</u>			Project Name: <u>Fuel Tanks</u>		
Address: <u>51 Shuey Drive</u>			Billing Address (if different): <u>OLSD</u>		
City: <u>Marysville</u>	State: <u>CA</u>	Zip Code: <u>94554</u>	<u>2600 Grant Ave SAN LEONIZO 94550</u>		
Telephone: <u>510 631-1685</u>		FAX #: <u>510 631-1311</u>	P.O. #:		
Report To: <u>The Sutton Group</u>		Sampler: <u>Sutton</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water
 Waste Water
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments		
1. EP1@ 6.5-7	3/7 0820	Soil	1	Tube														Hold results
2. EP1@ 9.5-10	3/7 0930	Soil	1	Tube														Sutton to FAX
3. EP2A@ 6.5-7	3/7 1040	Soil	1	Tube														Analysis
4. EP3@ 3-3.5	3/7	Soil	1	Tube	8													By 1/1
5. EP3@ 6.5-7	3/7 1045	Soil	1	Tube														
6. EP3@ 7.5-8	3/7 1115	Soil	1	Tube														
7. EP4@ 6.5-7	3/7 1150	Soil	1	Tube	9													
8. EP5@ 3.5-4	3/7 1300	Soil	1	Tube														
9. EP5@ 6-6.5	3/7 1330	Soil	1	Tube														
10. EP6@ 3.5-4	3/7 1415	Soil	1	Tube	10													

Relinquished By: <u>RM</u>	Date: <u>3/7/96</u>	Time: <u>15:20</u>	Received By: <u>Michael Mc...</u>	Date: <u>3-8-96</u>	Time: <u>14:25</u>
Relinquished By: <u>Michael Mc...</u>	Date: <u>3-8-96</u>	Time: <u>5:10</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>3/8/96</u>	Time: <u>17:11</u>

Pink - Client
 Yellow - Sequoia
 White - Sequoia



The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620 Attention: John Sutton, PE	Client Proj. ID: Gas Tank Area Sample Descript: EP2B @ 2.5-3' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604180-01	Sampled: 04/02/96 Received: 04/03/96 Extracted: 04/04/96 Analyzed: 04/04/96 Reported: 04/09/96
---	--	--

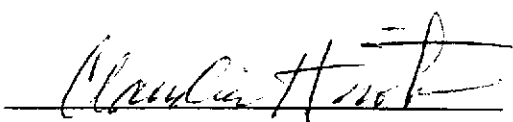
QC Batch Number: GC040496BTEXEXB
 Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	81

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Claudia Hirotsu
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: Gas Tank Area
Sample Descript: EP2B @ 3.1-3.6'
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604180-02

Sampled: 04/02/96
Received: 04/03/96
Extracted: 04/04/96
Analyzed: 04/05/96
Reported: 04/09/96

Attention: John Sutton, PE

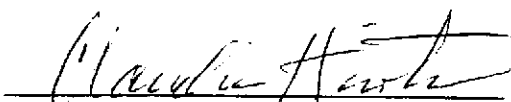
QC Batch Number: GC040496BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Claudia Hirotsu
Project Manager





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

The Sutton Group Client Project ID: Gas Tank Area
 51 Shuey Drive Matrix: Solid
 Moraga, CA 94556-2620
 Attention: John Sutton, PE Work Order #: 9604180 -01 Reported: Apr 10, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0404966010MDE	ME0404966010MDE	ME0404966010MDE	ME0404966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9603L0901	9603L0901	9603L0901	9603L0901
Sample Conc.:	N.D.	N.D.	9.8	14
Prepared Date:	4/4/96	4/4/96	4/4/96	4/4/96
Analyzed Date:	4/5/96	4/5/96	4/5/96	4/5/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	98	94	110	110
MS % Recovery:	98	94	100	96
Dup. Result:	99	96	110	110
MSD % Recov.:	99	96	100	96
RPD:	1.0	2.1	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK040496	BLK040496	BLK040496	BLK040496
Prepared Date:	4/4/96	4/4/96	4/4/96	4/4/96
Analyzed Date:	4/5/96	4/5/96	4/5/96	4/5/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	100	100	100
LCS % Recov.:	100	100	100	100

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Claudia Hirotsu

Claudia Hirotsu
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604180.SSS <1>





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

The Sutton Group Client Project ID: Gas Tank Area
 51 Shuey Drive Matrix: Solid
 Moraga, CA 94556-2620
 Attention: John Sutton, PE Work Order #: 9604180-01, 02 Reported: Apr 10, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC040496BTEXEXB	GC040496BTEXEXB	GC040496BTEXEXB	GC040496BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9603H7203	9603H7203	9603H7203	9603H7203
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/4/96	4/4/96	4/4/96	4/4/96
Analyzed Date:	4/4/96	4/4/96	4/4/96	4/4/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.19	0.19	0.19	0.58
MS % Recovery:	95	95	95	97
Dup. Result:	0.18	0.19	0.19	0.56
MSD % Recov.:	90	95	95	93
RPD:	5.4	0.0	0.0	3.5
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK040496	BLK040496	BLK040496	BLK040496
Prepared Date:	4/4/96	4/4/96	4/4/96	4/4/96
Analyzed Date:	4/4/96	4/4/96	4/4/96	4/4/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.19	0.19	0.55
LCS % Recov.:	90	95	95	92

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150
---------------------------	--------	--------	--------	--------

SEQUOIA ANALYTICAL

Claudia Hirotsu

Claudia Hirotsu
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604180.SSS <2>



CHAIN OF CUSTODY

404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600 FAX (510) 988-9673

Company Name: <u>The SUTTON GROUP</u>		Project Name: <u>GIS TASK AREA</u>	
Address: <u>51 SHELLEY DRIVE</u>		Billing Address (if different): <u>ORO LOMA SANITARY DIST</u>	
City: <u>MORONGA</u>	State: <u>CA</u>	Zip Code: <u>94556</u>	<u>2600 GRANT AV</u>
Telephone: <u>510 631 1688</u>		FAX #: <u>510 631 1371</u>	P.O. #: <u>ORO LOMA</u>
Report To: <u>John Sutton</u>	Sampler: <u>SUTTON</u>	QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days 5 Working Days 24 Hours

Analyses Requested
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	AS	TEX*	ATBE*	LEAD*	Comments
1. EP2B@2.5-3'	11/2/96 11:5 AM	SOIL	1	2X6 BRASS	01	X	X	X		Cuttings
2. EP2B@3.1-3.4'	11/2/96 11:30 AM	SOIL	1	2X6 BRASS	02	X	X			
3.										
4.										RW@CB/LVET
5.										ANALYSIS
6.										
7.										
8.										
9.										
10.										

Relinquished By: <u>[Signature]</u>	Date: <u>1/2/96</u>	Time: <u>12:05 PM</u>	Received By: <u>FRIDGE</u>	Date: <u>1/2/96</u>	Time: <u>12:05 PM</u>
Relinquished By: <u>[Signature]</u>	Date: <u>1/3/96</u>	Time: <u>10:35</u>	Received By: <u>[Signature]</u>	Date: <u>1/3/96</u>	Time: <u>10:35</u>
Relinquished By: <u>[Signature]</u>	Date: <u>1/3/96</u>	Time: <u>12:41</u>	Received By Lab: <u>[Signature]</u>	Date: <u>1-3-96</u>	Time: <u>12:43</u>

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page 1 of 1

Pink - Client
Yellow - Sequoia
White - Sequoia



The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620	Client Proj. ID: Fuel Tanks Lab Proj. ID: 9604642	Sampled: 04/07/96 Received: 03/08/96 Analyzed: see below Reported: 04/12/96
Attention: John Sutton, PE		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9604642-01 Sample Desc: SOLID,EP1 6.5-7				
Lead	mg/Kg	04/11/96	5.0	7.7
Lab No: 9604642-02 Sample Desc: SOLID,EP2 6.5-7				
Lead	mg/Kg	04/11/96	5.0	16
Lab No: 9604642-03 Sample Desc: SOLID,EP3 6.5-7				
Lead	mg/Kg	04/11/96	5.0	13
Lab No: 9604642-04 Sample Desc: SOLID,EP3 3-3.5				
Lead	mg/Kg	04/11/96	5.0	11
Lab No: 9604642-05 Sample Desc: SOLID,EP5 3.5-4				
Lead	mg/Kg	04/11/96	5.0	49
Lab No: 9604642-06 Sample Desc: SOLID,EP6 3.5-4				
Lead	mg/Kg	04/11/96	5.0	46

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Michelle Lane FOX

Claudia Hirotsu
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

The Sutton Group
51 Shuey Drive
Moraga, CA 4556-2620

Attention: John Sutton, PE

Client Project ID: Fuel Tanks
Matrix: Solid

Work Order #: 9604642 01-06

Reported: Apr 12, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	Me0410966010MDE	Me0410966010MDE	Me0410966010MDE	Me0410966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	960441001	960441001	960441001	960441001
Sample Conc.:	N.D.	5.7	87	41
Prepared Date:	4/10/96	4/10/96	4/10/96	4/10/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	91	93	150	130
MS % Recovery:	91	87	63	89
Dup. Result:	92	94	180	130
MSD % Recov.:	92	88	93	89
RPD:	1.1	1.1	18	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK041096	BLK041096	BLK041096	BLK041096
Prepared Date:	4/10/96	4/10/96	4/10/96	4/10/96
Analyzed Date:	4/11/96	4/11/96	4/11/96	4/11/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	100	100	100
LCS % Recov.:	100	100	100	100

MS/MSD				
LCS	75-125	75-125	75-125	75-125
Control Limits				

SEQUOIA ANALYTICAL

Claudia Hirotsu
Claudia Hirotsu
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604642.TTT <1>





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Client Proj. ID: OLSD Gas Tank Area
Sample Descript: EB3B @ 3.5-4.0
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604F39-01

Sampled: 04/18/96
Received: 04/19/96
Extracted: 04/29/96
Analyzed: 04/30/96
Reported: 05/02/96

QC Batch Number: GC042996BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Claudia Hirotsu
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620

Attention: John Sutton

Client Proj. ID: OLSD Gas Tank Area
Sample Descript: EB3B @ 4.5-5.0
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604F39-02

Sampled: 04/18/96
Received: 04/19/96
Extracted: 04/29/96
Analyzed: 04/30/96
Reported: 05/02/96

QC Batch Number: GC042996BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	1.5
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.010
Chromatogram Pattern: Weathered Gas		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Claudia Hirotsu
Project Manager





The Sutton Group 51 Shuey Drive Moraga, CA 94556-2620 Attention: John Sutton	Client Proj. ID: OLSD Gas Tank Area Sample Descript: EB3A @ 1.5-2.0 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604F39-03	Sampled: 04/18/96 Received: 04/19/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/02/96
---	--	--

QC Batch Number: GC042996BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Claudia Hirotsu
Project Manager





The Sutton Group
51 Shuey Drive
Moraga, CA 94556-2620
Attention: John Sutton

Client Project ID: OLSD Gas Tank Area
Matrix: Solid

Work Order #: 9604F39 01

Reported: May 3, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042996BTEXEXC	GC042996BTEXEXC	GC042996BTEXEXC	GC042996BTEXEXC
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	E. Cunanan	E. Cunanan	E. Cunanan	E. Cunanan
MS/MSD #:	9604I2702	9604I2702	9604I2702	9604I2702
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg

Result:	0.16	0.17	0.17	0.52
MS % Recovery:	80	85	85	87
Dup. Result:	0.17	0.17	0.18	0.54
MSD % Recov.:	85	85	90	90
RPD:	6.1	0.0	5.7	3.8
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK042996	BLK042996	BLK042996	BLK042996
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.18	0.18	0.54
LCS % Recov.:	90	90	90	90

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150
---------------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

William FOR
Claudia Hirotsu
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604F39.SSS <1>



Company Name: THE SUTTON GROUP
~~ORO LOMA SANITARY DISTRICT~~
 Project Name: OLSD Gas Tank Area

Address: 51 SITNEY DRIVE
 Billing Address (if different): ORO LOMA SANITARY DISTRICT

City: MORAGA State: CA Zip Code: 94556
2600 GRANT AV. SAN LORENZO 94580

Telephone: 510 631-1688 FAX #: 510-631-1371 P.O. #:

Report To: DHW SUTTON Sampler: SUTTON QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours 9609F39

Drinking Water Waste Water Other SOIL
 Analyses Requested: 9609F39

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	GAS BTEX TRAPEZOIDAL MTBE										Comments
1. EP3B@3.5-4.0	4/18 @ 1015	SOIL	1	Tube	01 A	(NO)										
2. EP3B@4.5-5.0	4/18 @ 1015	SOIL	1	Tube	02											
3. EP3A@1.5-2.0	4/18 @ 0920	SOIL	1	Tube	03											
4.																
5.																
6.																
7.																
8.																
9.																
10.																

Relinquished By: <u>[Signature]</u>	Date: <u>4/18/96</u>	Time: <u>11:00 AM</u>	Received By: <u>FRIDGE</u>	Date: <u>4/18</u>	Time: <u>11:00</u>
Relinquished By: <u>[Signature]</u>	Date: <u>4-19-96</u>	Time: <u>11:0</u>	Received By: <u>[Signature]</u>	Date: <u>4-14-96</u>	Time: <u>11:10</u>
Relinquished By: <u>[Signature]</u>	Date: <u>4-14-96</u>	Time: <u>1:40</u>	Received By Lab: <u>[Signature]</u>	Date: <u>4/19/96</u>	Time: <u>13:51</u>

Pink - Client
Yellow - Sequoia
White - Sequoia

TABLE 1
ANALYTICAL RESULTS FOR SOILS & WATERS
 GASOLINE TANK AREA
 1993 INVESTIGATION
ANALYTICAL RESULTS FOR SOILS

BORING	DEPTH Ft.	TPH-GAS mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg	LEAD, Total mg/kg
SB1	5.5	2,100	23	200	55	330	NA
SB2	3.5	4,300	14	250	130	680	NA
SB4	3.5	1,100	11	51	39	210	NA
SB5	3.5	3.2	0.25	ND	0.27	0.83	NA
SB6	3.5	160	2.8	14	5.9	26	NA
SB6	5.5	2,100	14	210	80	430	NA
SB6	7.5	1,500	4.8	120	61	340	NA
MDLs*	SOIL, mg/kg	0.2	0.005	0.005	0.005	0.005	5
ANALYTICAL RESULTS FOR WATERS							
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SB3	GW	0.12	0.0007	ND	ND	ND	NA
SB4	GW	1,600	27	39	4.2	22	NA
SB5	GW	1,100	8	29	4.2	20	NA
MDLs*	WATER, mg/kg	0.05	0.0005	0.0005	0.0005	0.0005	NA

* Refer to Laboratory Report for complete listing of results

TABLE 2

ANALYTICAL RESULTS FOR SOILS

GASOLINE TANK AREA
1994 INVESTIGATION

TRENCH No	DEPTH Ft.	TPH-GAS mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg	LEAD, Total mg/kg	LEAD, Sol. mg/kg
TT-1	4.5-5.0	ND	ND	ND	ND	ND	57	1.8
TT-2	2.5-3.0	ND	ND	ND	ND	0.007	ND	--
TT-2	6.0-6.5	ND	ND	ND	ND	ND	21	--
TT-2	7.0-7.5	ND	0.015	ND	ND	0.015	15	--
TT-3	2.0-2.5	ND	ND	ND	ND	ND	ND	--
TT-3	3.5-4.0	160	4.7	25	4.6	22	31	5.3
TT-3	6.0-6.5	1600	8.8	77	25	130	7.4	--
TT-4	5.0-5.5	ND	ND	0.009	ND	0.008	9.3	--
TT-5	2.5-3.0	ND	ND	ND	ND	ND	ND	--
TT-5	5.5-6.0	ND	ND	ND	ND	ND	37	0.2
TT-8	2.0-2.5	ND	ND	ND	ND	ND	ND	--
MDLs*		1.0	0.005	0.005	0.005	0.005	5	0.1

* Refer to Laboratory Report for complete listing of results

TABLE 3

TANK REMOVAL ANALYTICAL RESULTS

**GASOLINE TANK AREA
TEST RESULTS FOR SOILS**

SAMPLE ID	LOCATION	DEPTH Ft.	TPH-GAS mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Xylenes mg/kg	LEAD, Total mg/kg	LEAD, Sol. mg/kg
S1	East End of Tank Pit	5.8	1,900	7.1	57	39	190	18	NA
S2	West End of Tank Pit	6	3,300	37	18	61	350	260	6.4
S3	Center of Tank Pit	11.5	43	0.3	0.56	0.41	1.7	ND	NA
S4	Island: beneath fuel pipe	1.5	49	0.25	0.28	0.45	2.6	15	NA
MDLs*			0.2	0.005	0.005	0.005	0.005	5	0.1

* Refer to Laboratory Report for complete listing of results

Job No. 3022, Stage 7