

ENVIRONMENTAL
PROTECTION

99 APR 28 PM 1:43

Manmohan S. Chopra
4216 Warbler Loop
FREMONT, CA 94555

4/22/99

Alameda County Department of Environmental Health
1131 Harbor Way Parkway, 2nd Floor
ALAMEDA, CA 94502-6577

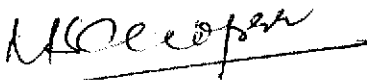
ATTN: Mr Scott Seery

SUB: Quarterly Ground Water Monitoring & Sampling Report
1401 Grand Ave. San Leandro, CA

Dear Mr Seery,

Attached, for your review and records, please find a copy of Quarterly Ground Water Monitoring and Sampling Report for the above site. The report is self explanatory and is in standard format. However, if you have any questions or comments, please contact the undersigned at 510-790-9252 or write me at the above address.

Sincerely,



Manmohan S. Chopra
Property Owner

DRAFT

SOIL BORING RESULTS REPORT

**ARCO Service Station
1401 Grand Avenue
San Leandro, California**

Aegis Project No. 91-001

June 10, 1991

Prepared By:
AEGIS ENVIRONMENTAL, INC.
801 Riverside Avenue, Suite C
Roseville, California 95678
(916) 782-2110

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1.0 INTRODUCTION

This report presents the results of a subsurface soil assessment conducted by Aegis Environmental, Inc. (Aegis), at 1401 Grand Avenue, San Leandro, Alameda County, California (site, Figure 1).

1.1 Background

Aegis was authorized by Mr. Wyman Hong of the Alameda County Water Resources Management Department (ACWRMD) to install four soil borings as a preliminary assessment of the subject site. The activities associated with this scope of work are outlined below. ??

1.2 Scope

The work associated with this assessment was performed in accordance with methods described in Aegis' Standard Operating Procedures (SOPs) included as Appendix A. The scope of Aegis' services included:

- o Obtaining authorization from the ACWRMD to complete four soil borings at the locations shown on the Site Map (Figure 2).
- o Mobilizing to the site April 24, 1991, with a truck-mounted drill rig, to complete four, 8-inch-diameter, hollow-stem auger soil borings to a depth of 40 feet below grade.
- o Soil samples were recovered from each test boring at 5-foot intervals as described in Aegis' SOPs.
- o Recovered soil samples were classified in accordance with the Unified Soil Classification System (USCS). A log of each test boring is included in Appendix B.
- o Soils recovered from the borings were screened for the presence of organic vapors with an hNu photoionization detector (PID). The highest PID reading from each sample was recorded on the soil boring logs.
- o Soil samples from each boring were selected for laboratory analysis due to field observations that included PID screening, lithology, and the proximity to potential source(s) of petroleum hydrocarbons.

- o Individual soil samples were submitted to a California-certified laboratory to be analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), total purgeable petroleum hydrocarbons (TPH), total lead, ethylene dibromide (EDB), and 1,2-dichloroethane (EDC). The analysis for BTEX, TPH, EDC, and EDB were by EPA Method 8260 (a certified method utilizing a gas chromatograph/mass spectrometer, select ion mode quantification). Total lead was analyzed by EPA Method 7420. The results of each analysis are included in the certified laboratory reports (Appendix C).
- o Drill cuttings were placed on and covered by plastic sheeting. A total of four grab samples were collected from the stockpiled soil at representative locations (Figure 2). These samples were collected into brass tubes.
- o A composite sample was prepared in the laboratory from the four grab samples of stockpiled drill cuttings. The composite sample was analyzed for BTEX, TPH, EDB, EDC, total lead, as well as soluble lead, reactivity, corrosivity, ignitability, and select additional parameters in order to meet disposal criteria at BFI Waste Systems facility in Alameda County. The results of these tests are included in the certified laboratory reports (Appendix C).
- o The data resulting from the investigation was evaluated and presented in this report.

1.3 Site Description

The site is currently operated as an ARCO service station and convenience market by an independent lessee, Mr. Jay Anast. The current property owner is Mr. Manmohan Chopra, who purchased the site in March 1988. Mr. Chopra operated the station first as a lessee between July 1986 and March 1988, then as owner until August 1990 (when Mr. Anast initiated business at the site).

The site setting is in a commercial/residential district adjacent to State Highway 580. There appears to be no adjacent sites with a history of distributing or storing petroleum products. The surface of the site is predominantly paved by both concrete and asphalt (Figure 2).

1.4 Previous Work

This assessment represents the only known subsurface investigation performed to date at the subject site.

2.0 ASSESSMENT RESULTS

The results of this subsurface investigation are based upon fieldwork conducted by Aegis. This work includes the initial site reconnaissance which was followed by the drilling of four soil borings to total depths of 40 feet each.

2.1 Subsurface Conditions

The locations of the four soil borings were selected in close proximity to the edges of the three underground storage tanks to characterize existing conditions. Each boring location incorporated constraints due to proximity to subgrade fixtures (tanks). Careful hand-augering and probing was performed in the top 5 feet of each hole to avoid damaging any improvements. No fixtures were encountered during this work.

Soil samples from each test boring were classified in accordance with the USCS. A description of the specific soil classifications are included on the boring logs (Appendix B). In general, [REDACTED] soil in [REDACTED] surface at [REDACTED] [REDACTED] below the [REDACTED] between the [REDACTED] to the bottom of the borings at 40 feet. The soil characteristics correlate consistently between each boring, with the exception of SB-2, where a 10-foot-thick sand layer was noted between the depths of 23 to 33 feet below surface grade.

2.2 Results of PID Screening

PID screening of soil samples was completed according to methods described in Appendix A. Results of PID screening are recorded on the soil boring logs included in Appendix B. Organic vapors were detected in the soil samples. PID readings ranged from 0 parts per million (ppm) to 600 ppm. Samples from three of the four borings (SB-1, SB-2, and SB-3) yielded PID readings at or above 100 ppm.

2.3 Soil Sample Analytical Test Results

2.3.1 Test Borings

Soil samples from the test borings were submitted to an analytical laboratory for chemical analysis due to field observations that indicated the potential presence of gasoline constituents. A California-certified laboratory analyzed the samples to speciate the TPH (as gasoline, diesel #2, jet fuel, kerosene, Stoddard solvent, or mineral spirits, and to quantify any BTEX, EDB, EDC, and total lead.

Soil boring analytical results are presented in Table 1 in ppm. **The maximum concentration reported in soil was TPH as gasoline at 66 ppm at a depth of 26 feet, at the location of SB-2 (Figure 2).** Copies of the certified laboratory results reports are attached with a completed chain-of-custody form as Appendix C.

TABLE 1
SOIL ANALYTICAL RESULTS (PPM)

Sample No.	Depth (Feet)	Benzene	Toluene	Ethyl Benzene	Xylene	EDB	EDC	TPH as Gas	Total Lead
SB-1-3	16.0 - 16.5	ND	ND	ND	ND	ND	ND	ND	NA
SB-1-7	35.5 - 36.0	0.076	0.003	0.004	0.015	ND	ND	0.2	ND
SB-2-2	11.0 - 11.5	ND	ND	ND	ND	ND	ND	ND	NA
SB-2-5	25.5 - 26.0	0.94	3.8	1.3	8.7	ND	ND	6.5	3
SB-2-8	40.5 - 41.0	0.46	0.30	0.049	0.24	ND	ND	2.0	NA
SB-3-3	16.0 - 16.5	ND	ND	ND	ND	ND	ND	ND	NA
SB-3-7	36.0 - 36.5	0.022	0.004	0.004	0.033	ND	ND	0.2	ND
SB-4-4	21.0 - 21.5	ND	ND	ND	ND	ND	ND	ND	NA
SB-4-7	35.5 - 36.0	0.48	0.003	0.021	0.007	ND	ND	1.4	ND
SS-1A, 1B, 1C, 1D	1.0 - 1.5	0.002	ND	ND	0.005	ND	ND	0.7	0.06*

ND = Not detected at the specific, Practical Quantitation Limit shown on the respective laboratory reports (Appendix C).

NA = Not analyzed.

* = Soluble lead test result (by CAL WET extraction) as prerequisite for landfill disposal.

2.3.2 Drill Cuttings

The soil stockpile of drill cuttings from the test borings was sampled for characterization prior to disposal. These soil samples were specifically identified as SS-1A, SS-1B, SS-1C, and SS-1D. Prior to analysis, the four discrete samples were composited into one sample at the laboratory. The stockpile samples were collected the same day that the drilling was performed (April 24, 1991), from representative locations.

The test results are shown, in part, on Table 1. The requested analyses were chosen to meet disposal criteria at a local landfill in Alameda County. The landfill (BFI Waste Systems) requested the following analyses: TPH, BTEX, EDB, EDC, soluble lead (by CAL WET extraction), and a hazardous materials screen (including ignitability and reactivity criteria). The complete laboratory reports are included in Appendix C.

3.0 DISCUSSION OF RESULTS

3.1 Extent of Petroleum Hydrocarbons in Soil

Subsurface soil conditions at the site are summarized as follows:

- o Soil at each of the four boring locations was tested for the potential presence of gasoline, which was quantified, at concentrations that ranged from not detected to 66 ppm TPH at a depth of 26 feet at SB-2 (Table 1). The location of each soil boring is shown in Figure 2.
- o Aegis selected specific soil samples for total lead analysis based upon PID readings that identified the potential presence of gasoline. The test results ranged from not detected to 3 ppm (Table 1). The relative absence of total lead may indicate unleaded gasoline as the fuel type detected.
- o The soil cuttings generated from the test borings will be legally disposed of at an appropriately permitted facility.
- o Groundwater was not encountered during the drilling operations conducted April 24, 1991. The total depths of each of the four borings were 41 feet below surface grade.

4.0 REMARKS/SIGNATURES

The interpretations and conclusions contained in this work plan represent our professional opinions. These opinions are based on currently available information, and were developed in accordance with currently accepted hydrogeologic and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

AEGIS ENVIRONMENTAL, INC.

This report was prepared by:

Robert P. Warner
Senior Geologist

Date: _____

This report was reviewed by:

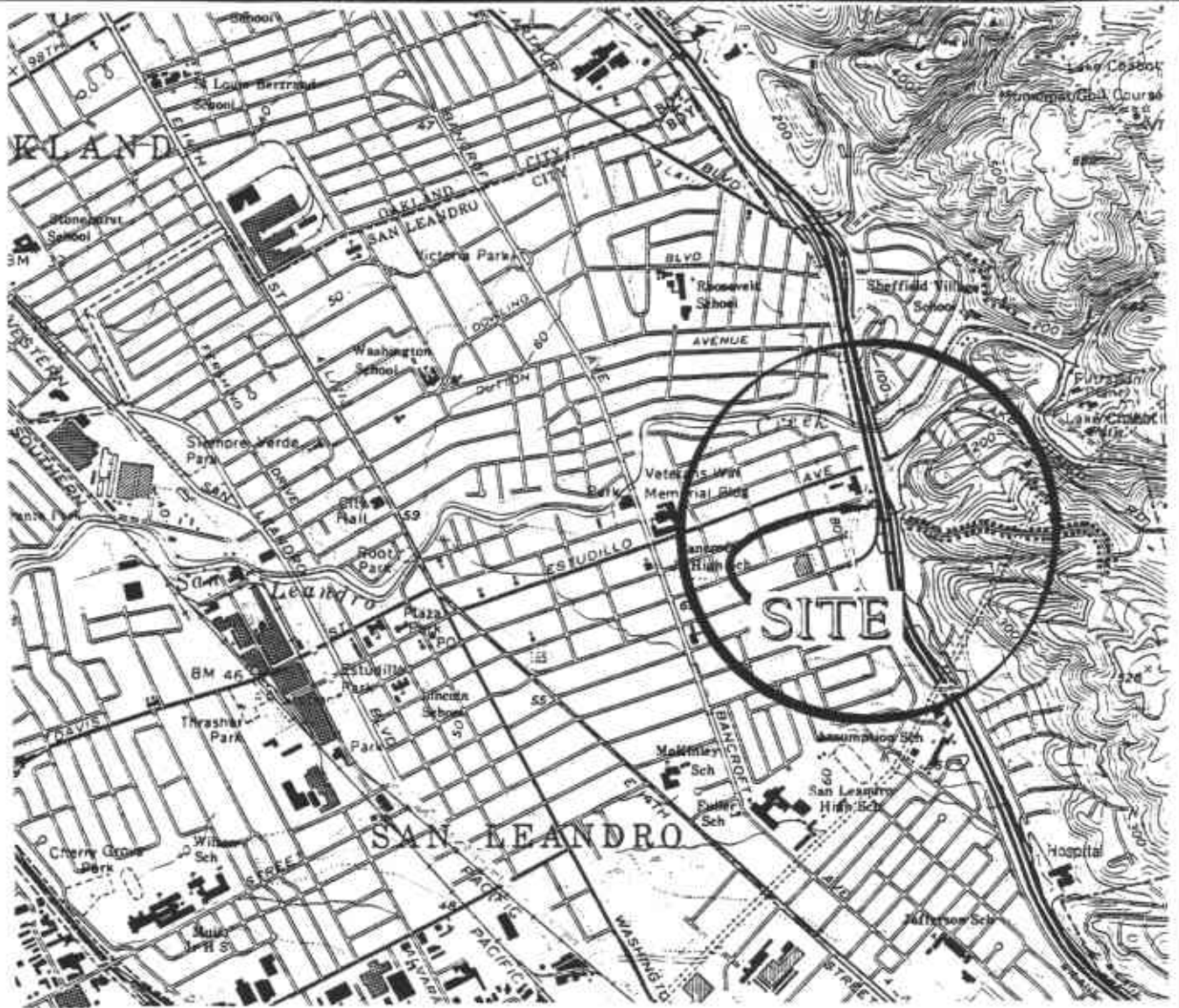
Brian Garber
Senior Geologist

Date: _____

The work described herein will be performed under the direct supervision of a geologist registered with the State of California:

Clarke H. Owen
Registered Geologist
CRG #4987

Date: _____



SCALE: 1" = 2,000'

0 2,000



GENERAL NOTES:

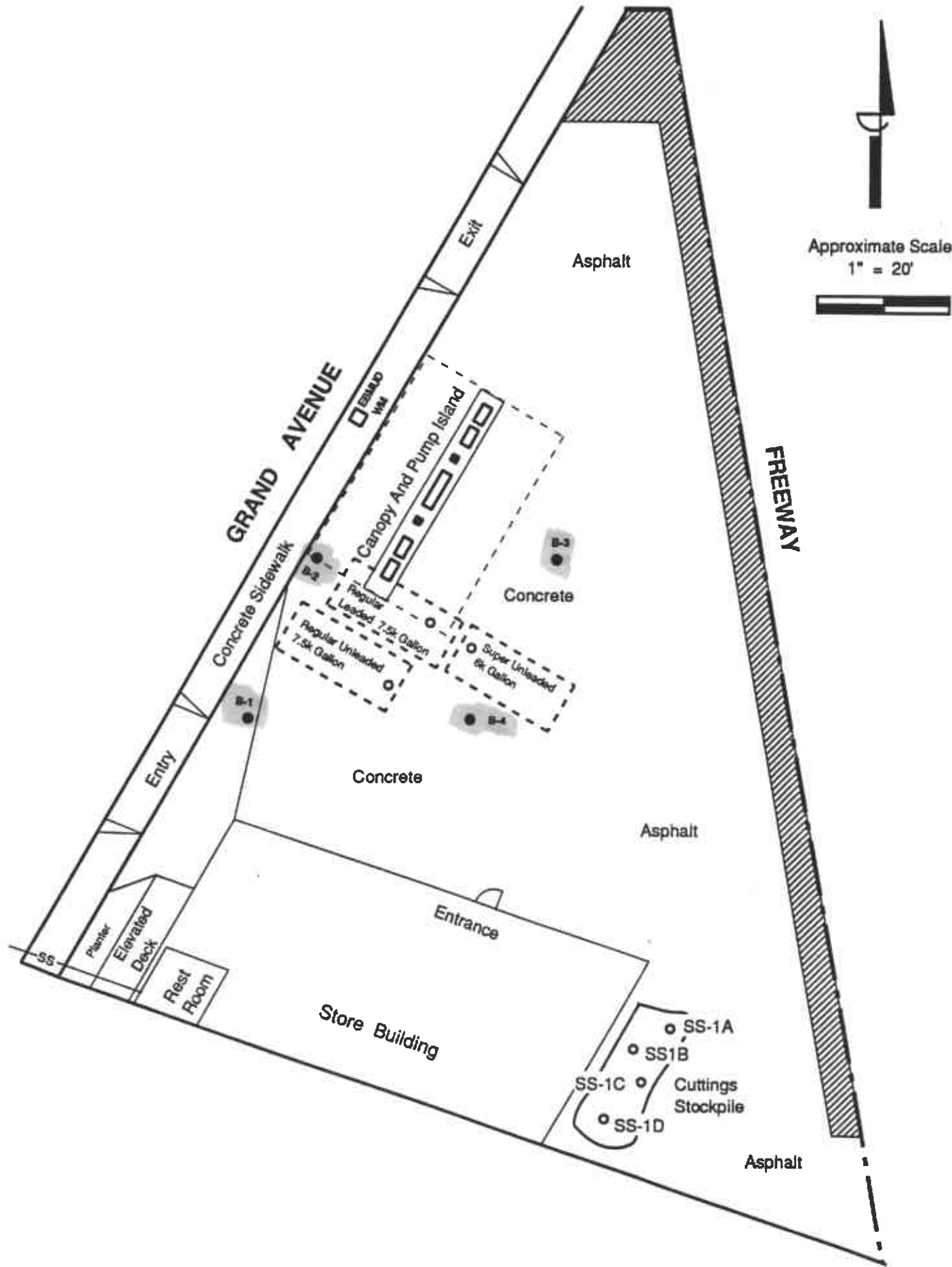


BASE MAP FROM USGS
7.5 MINUTE
TOPOGRAPHIC
SAN LEANDRO, CA.

FIGURE 1
SITE LOCATION MAP
1401 Grand Avenue
San Leandro, Ca.

AEGIS Job Number 91 - 001

DRAWN BY: Ed Bernard DATE: Feb. 12, 1991
REVIEWED BY: (RPW) DATE: Feb. 26, 1991



LEGEND

- 7.5k 7500 Gallon Underground Storage Tank
- 6k 6000 Gallon Underground Storage Tank
- ss- Sanitary Sewer Line
- EBMUD East Bay Municipal Utility District
- wm Water Meter
- Proposed Soil Boring Locations
- Cuttings Stockpile Soil Sample Locations

NOTE: Site Sketch After Generalized As Built Plan, Drawing Scale Approximate

<p>FIGURE 2 SITE MAP 1401 Grand Avenue San Leandro, Ca.</p>	
<p>AEGIS Job Number 91 - 001</p>	
<p>DRAWN BY: Ed Bernard</p>	<p>DATE: May 23, 1991</p>
<p>REVIEWED BY: R.P. Warner</p>	<p>DATE: May 23, 1991</p>

APPENDIX A
STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SOIL BORING SAMPLING
SOP-1

Soil samples for chemical analysis are collected in thin-walled brass tubes, 4- or 6-inches long by 2-inches outside diameter. Three or four of the tubes, plus a spacer tube, are set in a 2-inch inside diameter 18-inch split-barrel sampler.

Where possible, the split-barrel sampler is driven its entire length either hydraulically or using a 140-pound drop hammer. The sampler is extracted from the borehole and the brass tubes, containing the soil samples, are removed. Upon removal from the sampler, the selected brass tubes are immediately trimmed and capped with either aluminum foil or Teflon sheets and plastic caps. They are then hermetically sealed with duct tape, labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis.

One soil sample collected at each sampling interval is analyzed in the field using either a portable photoionization detector (PID), flame ionization detector, organic vapor analyzer, catalytic gas detector or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons, and the samples to be analyzed at the laboratory. The soil sample is sealed in either a brass tube, glass jar or plastic bag to allow for some volatilization of VOC. The PID is then used to measure the concentrations of hydrocarbons within the containers's head space. The data is recorded on both field notes and the boring logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the soil and/or stratigraphic profile beneath the project site, and estimate the relative permeability of the subsurface materials. All drilling and sampling equipment are either steam-cleaned or washed in trisodium phosphate solution and double-rinsed in deionized water prior to use at each site and between boreholes to minimize the potential for cross-contamination.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SOIL CLASSIFICATION
SOP-3

Soil samples are classified according to the Unified Soil Classification System (USCS). Representative portions of the samples may be shipped under strict chain-of-custody to an analytical laboratory for further examination and verification of the in-field classification, and analysis of soil mechanical and/or petrophysical properties. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points, and other pertinent information.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES
SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s) and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL
SOP-5

In addition to routine calibration of the analytical instruments with standards and blanks, the laboratory analyst is required to run duplicates and spikes on 10 percent of the analyses to insure an added measure of precision and accuracy. Accuracy is also verified through the following:

1. U.S. Environmental Protection Agency (EPA) and State certification programs;
2. Participation in an inter-laboratory or "round-robin" quality assurance program;
3. Verification of results with an alternative method. For example, calcium may be determined by atomic absorption, ion chromatography, or titrimetric methods. Volatile organic compounds may be determined through either purge and trap or liquid-liquid extraction methods; and,
4. Miscellaneous checks of equipment accuracy. Where trace analysis is involved, purity of the solvents, reagents and gases employed is of great concern. The laboratory maintains a service contract on all major instrumentation, including gas chromatograph, atomic absorption, ion chromatography and total organic carbon analyzers. Each of these instruments are serviced and maintained regularly.

APPENDIX B
BORING LOGS

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-1	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 10:00 a.m.	COMPLETED: 04/24/91 TIME: 10:40 a.m.	

S T A Y M P E L E	S N A U M P B L E R	B C L O O M W N T S E T	S I A N M T F E T	S R A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	AC/AB; asphalt surface, AB between-0.5' - 1.0'----- SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB1 -1	15/ 21/ 25	5.0- 6.5	16/ 18	5	CLAY; drk brown, moist (CL)	0	No odor
CAM	SB1 -2	13/ 14/ 15	10.0- 11.5	15/ 18	10	SILTY CLAY; medium brown, moist, very fine-grained sand-component-(CL) - - - -	0	No odor
CAM	SB1 -3	8/ 12/ 15	15.0- 16.5	15/ 18	15	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB1 -4	9/ 13/ 15	20.0- 21.5	16/ 18	20	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB1 -5	11/ 16/ 18	25.0- 26.5	16/ 18	25	SILT; light brown, moist, fraction increasing fraction increasing (ML)	0	No odor
CAM	SB1 -6	11/ 13/ 15	30.0- 31.5	15/ 18	30	SANDY SILT; grayish-brown, moist, poorly graded, fraction increasing fraction increasing pervasive throughout sample (ML)	0	Slight gas odor

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-1	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 10:40 a.m.	COMPLETED: 04/24/91 TIME: 11:00 a.m.	

STAY MPE L E	SN A M P L E	BC U M M O U M B W N P T L F S E T	SI L O A N M T P L F S E T	SR A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB1 -6	11/ 13/ 15	30.0- 31.5	15/ 18	30	SANDY SILT; grayish-brown, poorly graded, sand, pervasive throughout sample (ML)		Slight gas odor
CAM	SB1 -7	45/ 50/ R = 5"	35.0- 36.0	12/ 18	35	SILT; greenish-gray, moist, relict sand structure vis- ible, apparently in-situ chem. weathered Franciscan Formation serpentine (ML)		Moderate gas odor
					40	SILT; greenish-gray, moist, slightly cemented, same as above (ML)----- EOB; end of boring at 41'		Slight gas odor
					45			
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-2	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 8:45 a.m.	COMPLETED: 04/24/91 TIME: 9:30 a.m.	

STAY MPE LLE EE	SN AUA PMM PBB LE ER	BC LOU MOM BWN P T S ET	SI AN MT P TL F L V E	SR AE MC PO LV E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB2 -1	11/ 15/ 25	5.0- 6.5	16/ 18	0 5	CONCRETE; aggregate base between 0.5 - 1.0' SILTY CLAY; brown, moist, slight odor immediately below concrete driveway (CL) CLAY; dark brown; moist (CL)	20 20	Slight gas odor Slight gas odor
CAM	SB2 -2	14/ 23/ 25	10.0- 11.5	15/ 18	10	SILTY CLAY; dark brown, moist, moderate plasticity (CL)	2	No odor
CAM	SB2 -3	11/ 15/ 18	15.0- 16.5	16/ 18	15	CLAYEY SILT; grayish-brown, moist, very fine-grained, sand fraction (ML)	0	No odor
CAM	SB2 -4	11/ 13/ 15	20.0- 21.5	15/ 18	20	SANDY SILT; grayish-brown, moist, poorly graded, very fine-grained sand , pervas- ive throughout sample (ML)	0	No odor
CAM	SB2 -5	9/ 10/ 11	25.0- 26.5	15/ 18	25	SAND; grayish-brown, moist, well graded, silt grains bluish-gray sand clashes (SW)		Strong odor
CAM	SB2 -6	15/ 18/ 21	30.0- 31.5	15/ 18	30	SAND; grayish-brown, moist, well graded, same as above (SW)		Strong odor

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-2	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 9:30 a.m.	COMPLETED: 04/24/91 TIME: 10:00 a.m.	

STAY MPE LLE E	SN AUM PBM LE ER	BC LOU MOW NPN TL SET	SI OAN MT P TL F SET	SR AE MC PO LV E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB2 -6	15/ 18/ 21	30.0- 31.5	15/ 18	30	SAND; grayish-brown, moist, well graded, silt grains through small gravel classes (SW)		Strong odor
CAM	SB2 -7	35/ 50/ R = 3"	35.0- 36.0	11/ 18	35	SANDY SILT; greenish-gray, moist, relict sand grains surviving chemical weathering (ML)		Moderate strong odor
CAM	SB2 -8	35/ 50/ R = 5"	40.0- 41.0	12/ 18	40	SANDY SILT; greenish-gray, moist, same as above (ML)		Slight odor
					45	EOB; end of boring at 41'		
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-3	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 11:30 a.m.	COMPLETED: 04/24/91 TIME: 12:30 p.m.	

STAYPEL	SNMPEL	BCLOUW	SIOUW	SRMPEL	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	CONCRETE; aggregate base between-0.5 - 1.0'		
					5	SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3-1	11/13/22	5.0-6.5	18/18	5	CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3-2	21/50/R=5"	10.0-11.5	10/18	10	SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3-3	11/15/18	15.0-16.5	15/18	15	SANDY SILT; medium brown, moist (ML)	0	No odor
CAM	SB3-4	11/16/21	20.0-21.5	16/18	20	CLAYEY SILT; medium brown, moist, moderate plasticity (ML)	0	No odor
CAM	SB3-5	20/25/35	25.0-26.5	14/18	25	CLAYEY SILT; light brown, moist, cottony cement visible (ML)	0	No odor
CAM	SB3-6	18/25/32	30.0-31.0	12/18	30	SANDY SILT; light grayish-brown, moist, poorly graded relatively fine sand, white cottony cement, not calcareous (ML)		Very slight gas odor

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-3	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75

LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 12:30 p.m.	COMPLETED: 04/24/91 TIME: 1:00 p.m.
---------------------------------	--	--

STAY PEL E	SN AU M P B L E R	BC LO UM W N P T L F S E T	SI AN M T P L F L V E	SR AE M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB3 -6	18/ 25/ 32	30.0- 31.0	12/ 18	30	SANDY SILT; light grayish-brown, moist, poorly graded very fine grained sand (ML)		Very slight gas odor
CAM	SB3 -7	22/ 37/ 40	35.0- 36.0	12/ 18	35	SANDY SILT; greenish-gray, moist, same as above (ML)		Moderate gas odor
CAM	SB3 -8	50 R = 6"	40.0- 41.0	10/ 18	40	SANDY SILT; greenish-gray, moist, same as above (ML) ----- EOB; end of boring at 41'		Slight gas odor
					45			
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-4	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 1:00 p.m.	COMPLETED: 04/24/91 TIME: 1:45 p.m.	

STAY MPE LLE E	SN AUM PBM LE ER	BC LOU MOW NPN TL SET	SI AN MT P TL F SET	SR AE MC PO LV E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	AC/AB; asphalt surface, AB between-0.5 - 1.0'----- SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB4 -1	8/ 11/ 13	5.0- 6.5	15/ 18	5	CLAY; drk brown, moist (CL)	0	No odor
CAM	SB4 -2	8/ 19/ 21	10.0- 11.5	16/ 18	10	SILTY CLAY; medium brown, moist (CL)	0	No odor
CAM	SB4 -3	11/ 21/ 25	15.0- 16.5	18/ 18	15	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB4 -4	25/ 35/ 36	20.0- 21.5	18/ 18	20	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB4 -5	16/ 27/ 29	25.0- 26.5	18/ 18	25	CLAYEY SILT; medium brown, moist (ML) SANDY SILT; light greenish-brown, moist very coarse grained slabs still surviving (ML)	0	No odor
CAM	SB4 -6	50 R = 6"	30.0- 31.0	12/ 18	30	SANDY SILT; light greenish- brown, moist, apparently remnants of in-situ chemical weathering (ML)		No odor

Field Notes:

Aegis
Environmental
Consultants

Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-4	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 1:45 p.m.	COMPLETED: 04/24/91 TIME: 2:00 p.m.	

STAY MPE LLE E	SN AU M P B L E R	BC LO U M W N P T L F S E T	SI AN M T L F S E T	SR AE M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB4 -6	50 R = 6"	30.0- 31.0	12/ 18	30	SANDY SILT; light greenish-brown, moist, relict sand structures visible, apparently remnants of in-situ chemical weathering (ML)		No odor
CAM	SB4 -7	50 R = 5"	35.0- 36.0	12/ 18	35	SANDY SILT; greenish-gray, moist, same as above (ML)		Very slight gas odor
CAM	SB4 -8	50 R = 6"	40.0- 41.0	10/ 18	40	SANDY SILT; greenish-gray, moist, same as above (ML) ----- EOB; end of boring at 41'		Very slight gas odor
					45			
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

APPENDIX C
LABORATORY ANALYTICAL REPORTS

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-1
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/07/91
 Collected by: R. Warner

RECEIVED
MAY 13 1991

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**

Ans'd. *BW*

Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-1-3, S.W. Soil Boring @ 16.0-16.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	not found
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits)	0.1	not found
BTX as a Percent of Total Fuel		n/a
Percent Surrogate Recoveries		83/91/116

*(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
 COAST-to-COAST ANALYTICAL SERVICES
Mary Hawlicek
 Mary Hawlicek, Ph.D.
 President

MSD #1-5/08
 NC02401F1.wr1/FFP73
 MH/hc/gb/hc

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: NC-0240-2
Collected: 04/24/91
Received: 04/26/91
Tested: 05/07/91
Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

Attn: Robert P. Warner
Aegis Environmental
801 Riverside, Suite C
Roseville, CA 95678

SAMPLE DESCRIPTION:
Project #91-001
1401 Grand Avenue, San Leandro, CA
Federated Claim #83A-10054
SB-1-7, S.W. Soil Boring @ 35.5-36.0', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	0.076
Toluene	0.001	0.003
Ethylbenzene	0.001	0.004
Xylenes	0.001	0.015
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons
(Gasoline) 0.1 0.2
(Diesel #2, Jet Fuel, Kerosene,
Stoddard Solvent, Mineral Spirits) ... 0.1 not found

BTX as a Percent of Total Fuel 47%

Percent Surrogate Recoveries 89/93/112

*(Practical Quantitation Limit)

**Soil Sonicated during extraction

Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

Mary Hawlicek
Mary Hawlicek, Ph.D.
President

MSD #1-5/08
NC02402F1.wr1/FFP73
MH/hc/gb/hc

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: NC-0240-3
Collected: 04/24/91
Received: 04/26/91
Tested: 05/07/91
Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

Attn: Robert P. Warner
Aegis Environmental
801 Riverside, Suite C
Roseville, CA 95678

SAMPLE DESCRIPTION:
Project #91-001
1401 Grand Avenue, San Leandro, CA
Federated Claim #83A-10054
SB-2-2, S.W. Soil Boring @ 11.0-11.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	not found
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		n/a
Percent Surrogate Recoveries		89/91/117

*(Practical Quantitation Limit)
**Soil Sonicated during extraction
Constituents reported as "not found" would have been reported if present
at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D.
President

MSD #1-5/08
NC02403F1.wr1/FFP73
MH/hc/gb/hc

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-4
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/08/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**

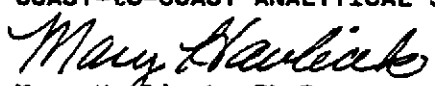
Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-2-5, N.W. Soil Boring @ 25.5-26.0', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.05	0.85
Toluene	0.05	3.5
Ethylbenzene	0.05	1.2
Xylenes	0.05	7.6
1,2-Dichloroethane (EDC)	0.05	not found
Ethylene Dibromide (EDB)	0.05	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	5.	60.
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	5.	not found
BTX as a Percent of Total Fuel		20%
Percent Surrogate Recoveries		140/96/118

*(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.
 Note: High concentration of some analytes caused the sample to be run diluted, resulting in raised detection limits for all analytes.
 Refer to the Instrument Blank for undiluted detection limits.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D.
 President

MSD #1-5/8
 NC02404F1.wr1/FFP73
 MH/hc/gb/gb

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-4dup
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/08/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**

Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-2-5, N.W. Soil Boring @ 25.5-26.0', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.05	0.94
Toluene	0.05	3.8
Ethylbenzene	0.05	1.3
Xylenes	0.05	8.7
1,2-Dichloroethane (EDC)	0.05	not found
Ethylene Dibromide (EDB)	0.05	not found

 Total Purgeable Petroleum Hydrocarbons
 (Gasoline) 5. 66.
 (Diesel #2, Jet Fuel, Kerosene,
 Stoddard Solvent, Mineral Spirits) ... 5. not found

BTX as a Percent of Total Fuel 20%

Percent Surrogate Recoveries 120/97/104

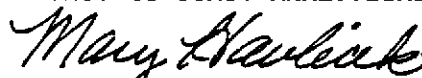
 *(Practical Quantitation Limit)

**Soil Sonicated during extraction

Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Note: High concentration of some analytes caused the sample to be run diluted, resulting in raised detection limits for all analytes. Refer to the Instrument Blank for undiluted detection limits.

Respectfully submitted,
 COAST-to-COAST ANALYTICAL SERVICES



Mary Havlicek, Ph.D.
 President

Coast-to-Coast
Analytical Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: NC-0240-5
Collected: 04/24/91
Received: 04/26/91
Tested: 05/08/91
Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

Attn: Robert P. Warner
Aegis Environmental
801 Riverside, Suite C
Roseville, CA 95678

SAMPLE DESCRIPTION:
Project #91-001
1401 Grand Avenue, San Leandro, CA
Federated Claim #83A-10054
SB-2-8, N.E. Soil Boring @ 40.5-41.0', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	0.46
Toluene	0.001	0.30
Ethylbenzene	0.001	0.049
Xylenes	0.001	0.24
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	2.0
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		50%
Percent Surrogate Recoveries		122/99/122

*(Practical Quantitation Limit)
**Soil Sonicated during extraction
Constituents reported as "not found" would have been reported if present
at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES
Mary Hawlicek
Mary Hawlicek, Ph.D.
President

MSD #1-5/8
NC02405F1.wr1/FFP73
MH/hc/gb/gb

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: NC-0240-6
Collected: 04/24/91
Received: 04/26/91
Tested: 05/08/91
Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

Attn: Robert P. Warner
Aegis Environmental
801 Riverside, Suite C
Roseville, CA 95678

SAMPLE DESCRIPTION:
Project #91-001
1401 Grand Avenue, San Leandro, CA
Federated Claim #83A-10054
SB-3-3, N.E. Soil Boring @ 16.0-16.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	not found
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		n/a
Percent Surrogate Recoveries		116/99/110

*(Practical Quantitation Limit)
**Soil Sonicated during extraction
Constituents reported as "not found" would have been reported if present
at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

Mary Hawlicek
Mary Hawlicek, Ph.D.
President

MSD #1-5/8
NC02406F1.wr1/FFP73
MH/hc/gb/gb

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-7
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/08/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**


Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-3-7, N.E. Soil Boring @ 36.0-36.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	0.022
Toluene	0.001	0.004
Ethylbenzene	0.001	0.004
Xylenes	0.001	0.033
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	0.2
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		30%
Percent Surrogate Recoveries		125/98/110

*(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

 Mary Havelicek, Ph.D.
 President

MSD #1-5/8
 NC02407F1.wr1/FFP73
 MH/hc/gb/gb

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-8248-8
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/08/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**


Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-4-4, S.E. Soil Boring @ 21.0-21.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	not found
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		n/a
Percent Surrogate Recoveries		119/95/110

 *(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D.
 President

MSD #1-5/8
 NC02408F1.wr1/FFP73
 MH/hc/gb/gb

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-9
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/07/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**

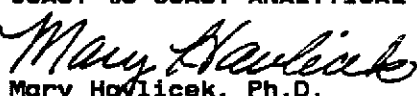
Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-4-7, S.W. Soil Boring @ 35.5-36.0', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	0.48
Toluene	0.001	0.003
Ethylbenzene	0.001	0.021
Xylenes	0.001	0.007
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	1.4
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		35%
Percent Surrogate Recoveries		94/96/101

*(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
 COAST-to-COAST ANALYTICAL SERVICES

 Mary Haulicek, Ph.D.
 President

MSD #1-5/08
 NC02409F1.wr1/FFP72
 MH/hc/gb/hc

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services, Inc.
 141 Suburban Road, Suite C-4
 San Luis Obispo, California 93401
 (805) 543-2553

Lab Number: NC-0240-10
 Collected: 04/24/91
 Received: 04/26/91
 Tested: 05/07/91
 Collected by: R. Warner

FUEL FINGERPRINT ANALYSIS
 CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
 Extracted by EPA Method 5030 (purge-and-trap)**


Attn: Robert P. Warner
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

SAMPLE DESCRIPTION:
 Project #91-001
 1401 Grand Avenue, San Leandro, CA
 Federated Claim #83A-10054
 SB-1-A, SB-1-B, SB-1-C, SB-1-D Composite
 Cutting Stockpile @ 1.0-1.5', Soil

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	0.002
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	0.005
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Light Petroleum Hydrocarbon Solvent.. 0.1 (Gasoline, Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ... 0.1		0.7 not found
BTX as a Percent of Total Fuel		1.0%
Percent Surrogate Recoveries		94/94/100

=====
 *(Practical Quantitation Limit)
 **Soil Sonicated during extraction
 Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
 COAST-to-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D.
 President

MSD #1-5/08
 NC02410F1.wr1/FFP72
 MH/hc/gb/hc

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: B05071
Collected:
Received:
Tested: 05/07/91
Collected by:

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

CCAS-NAPA

SAMPLE DESCRIPTION:
Instrument Blank for 05/07/91 MSD#1

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	not found
(Diesel #2, Jet Fuel, Kerosene, Stoddard Solvent, Mineral Spirits) ...	0.1	not found
BTX as a Percent of Total Fuel		n/a
Percent Surrogate Recoveries		99/92/106

*(Practical Quantitation Limit)

**Soils sonicated during extraction

Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

Mary Hajlicek
Mary Hajlicek, Ph.D.
President

MSD #1-5/08
B05071FS.wr1/FFP73
MH/hc/gb/hc

**Coast-to-Coast
Analytical
Services**

**Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553**

**Lab Number: QS05071
Collected:
Received:
Tested: 05/07/91
Collected by:**

**FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)****

CCAS-NAPA

**SAMPLE DESCRIPTION:
Roasted Soil Spiked to 1.42ppm with
Super Unleaded Gasoline**

Compound Analyzed	*PQL mg/kg	Expected in mg/kg	Actual in mg/kg	Percent Recovery
Benzene	0.001	0.052	0.051	98%
Toluene	0.001	0.16	0.14	88%
Ethylbenzene	0.001	0.029	0.025	86%
Xylenes	0.001	0.17	0.13	76%
1,2-Dichloroethane (EDC)	0.001	not spiked	-----	-----
Ethylene Dibromide (EDB)	0.001	not spiked	-----	-----

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	1.42	1.47	104%
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)		not spiked	-----	-----
BTX as a Percent of Total Fuel			22%	n/a
Percent Surrogate Recoveries				87/93/123

*Practical Quantitation Limit
**Soils sonicated during extraction
Constituents reported as "not found" would have been reported if present
at or above the listed practical quantitation limit.

**Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES**
Mary Havlicek
**Mary Havlicek, Ph.D.
President**

MSD #1-5/8
QS05071G.wr1/FFP72
MH/hc/gb/gb

**Coast-to-Coast
Analytical
Services**

**Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553**

**Lab Number: B05081
Collected:
Received:
Tested: 05/08/91
Collected by:**

**FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)****

CCAS-NAPA

**SAMPLE DESCRIPTION:
Instrument Blank for 05/08/91 MSD#1**

Compound Analyzed	Detection Limit in mg/kg (PQL)*	Concentration in mg/kg
Benzene	0.001	not found
Toluene	0.001	not found
Ethylbenzene	0.001	not found
Xylenes	0.001	not found
1,2-Dichloroethane (EDC)	0.001	not found
Ethylene Dibromide (EDB)	0.001	not found

Total Purgeable Petroleum Hydrocarbons
 (Gasoline) 0.1 not found
 (Diesel #2, Jet Fuel, Kerosene,
 Stoddard Solvent, Mineral Spirits) ... 0.1 not found

BTX as a Percent of Total Fuel n/a

Percent Surrogate Recoveries 106/96/123

=====
 *(Practical Quantitation Limit)

**Soils sonicated during extraction

Constituents reported as "not found" would have been reported if present
 at or above the listed practical quantitation limit.

**Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES**

Mary Havlicek
**Mary Havlicek, Ph.D.
President**

MSD #1-5/9
 B05081FS.wr1/FFP73
 MH/hc/gb/gb

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QS05081
Collected:
Received:
Tested: 05/08/91
Collected by:

FUEL FINGERPRINT ANALYSIS
CAL DHS (TPH Draft) Method & EPA Method 8240/8260-(GC/MS)
Extracted by EPA Method 5030 (purge-and-trap)**

CCAS-NAPA

SAMPLE DESCRIPTION:
Roasted Soil Spiked to 1.42ppm with
Super Unleaded Gasoline

Compound Analyzed	*PQL mg/kg	Expected in mg/kg	Actual in mg/kg	Percent Recovery
Benzene	0.001	0.052	0.053	102%
Toluene	0.001	0.16	0.15	94%
Ethylbenzene	0.001	0.029	0.027	93%
Xylenes	0.001	0.17	0.13	76%
1,2-Dichloroethane (EDC)	0.001	not spiked	-----	-----
Ethylene Dibromide (EDB)	0.001	not spiked	-----	-----

Total Purgeable Petroleum Hydrocarbons (Gasoline)	0.1	1.42	1.38	97%
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits) not spiked			----	----
BTX as a Percent of Total Fuel			24%	n/a
Percent Surrogate Recoveries				113/96/124

*Practical Quantitation Limit

**Soils sonicated during extraction

Constituents reported as "not found" would have been reported if present at or above the listed practical quantitation limit.

Respectfully submitted,
COAST-to-COAST ANALYTICAL SERVICES

Mary Haylicek
Mary Haylicek, Ph.D.
President

MSD #1-5/9
QS05081G.wr1/FFP73
MH/hc/gb/gb

Phone (916) 782 2110
 FAX (916) 786-7830

Acceptance Officer **BFI** John Lydich
 AEGIS Environmental Consultants, Inc.
 Sample Identification/Field Chain of Custody Record

(415) 447-0491
 Send results to:

Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

Site Address: 1401 Grand Avenue / San Leandro, California
 AEGIS Project #: 91-001 / Direct bill 83A-10054 Ms. Kathy Lynch
 Shipped By: Robert P. Warner
 Shipped To: CCAS
 Project Manager: Robert P. Warner

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required	
Southwest soil boring	16.0-16.5'	SB-1-3	4/24/91	Soil	1	Fuel Fingerprint	-1
Southwest soil boring	35.5-36.0'	SB-1-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-2
Northwest soil boring	11.0-11.5'	SB-2-2	4/24/91	Soil	1	Fuel Fingerprint	-3
Northwest soil boring	25.5'-26.0'	SB-2-5	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-4
Northwest soil boring	40.5'-41.0'	SB-2-8	4/24/91	Soil	1	Fuel Fingerprint	-5
Northeast soil boring	16.0-16.5'	SB-3-3	4/24/91	Soil	1	Fuel Fingerprint	-6
Northeast soil boring	36.0-36.5'	SB-3-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-7
Southeast soil boring	21.0-21.5'	SB-4-4	4/24/91	Soil	1	Fuel Fingerprint	-8

Sampler(s) (signature) Robert P. Warner

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
8 brass soil tubes	<u>Robert P. Warner</u>	<u>[Signature]</u>	4/26/91 3:55 pm	
	<u>Anthony W. Bellini</u>		043091 @ 1530	

Sealed for shipment by: (signature) Robert P. Warner Date/Time: 4/26/91 11:00 AM Shipment Method: Direct hand carry by lab courier
 Received for Lab by: (signature) Anthony W. Bellini Date/Time: 042991/0830 Comments: Routine Turnaround, FAX results as soon as available, sample select tubes from indicated ends toward center, return ice chest CSI
Dec 10 5 10 191

Receiving Laboratory: Please return original form after signing for receipt of samples.

Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

Send results to:
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

Site Address: 1401 Grand Avenue / San Leandro, California
 AEGIS Project #: 91-001 / Direct bill 83A-10054 Ms. Kathy Lynch
 Shipped By: Robert P. Warner
 Shipped To: CCAS
 Project Manager: Robert P. Warner

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
Southeast soil boring	35.5-36.0'	SB-4-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead
Cuttings Stockpile	1.0-1.5'	SS-1-A	4/24/91	Soil	1	Fuel Fingerprint Can Wet for Lead Composite 4 into 1 in laboratory REF top / cyanide sulfide
Cuttings Stockpile	1.0-1.5'	SS-1-B	4/24/91	Soil	1	
Cuttings Stockpile	1.0-1.5'	SS-1-C	4/24/91	Soil	1	
Cuttings Stockpile	1.0-1.5'	SS-1-D	4/24/91	Soil	1	

-9
 -10P
 STLC
 Citric Acid

Sampler(s) (signature) Robert P. Warner

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
5 brass tubes	<u>Robert P. Warner</u>	<u>[Signature]</u>	<u>4/26/91 5:55pm</u>	
	<u>Anthony W. Bellini</u>		<u>043091</u> <u>04930</u>	

Sealed for shipment by: (signature) Robert P. Warner Date/Time: 4/26/91 11:00 AM Shipment Method: Direct hand carry by lab courier
 Received for Lab by: (signature) Anthony W. Bellini Date/Time: 0429/91/0930 Comments: Routine Turnaround, FAX results as soon as available, Sample select tubes from indicated ends toward center, officially confirm requested analyses by phone with me ASAP. Return Icechest

Receiving Laboratory: Please return original form after signing for receipt of samples.

White/Original Yellow/Lab Copy Pink/File Copy

CSF

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MAY 20 1991

**COAST - TO -
COAST
ANALYTICAL
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

141 Suburban Road	• San Luis Obispo, CA 93401	• (805) 543-2553	• Fax (805) 543-2625
751 S. Kellogg, Suite A	• Goleta, CA 93117	• (805) 964-7838	• Fax (805) 967-4386
1885 North Kelly Road	• Napa, CA 94558	• (707) 257-7211	• Fax (707) 226-1001
9333 Tech Center Dr., Ste. 800	• Sacramento, CA 95826	• (916) 368-1333	• Fax (916) 362-2484
2400 Cumberland Dr.	• Valparaiso, Indiana 46383	• (219) 464-2389	• Fax (219) 462-2953

Lab Number : H-1691-1
Project : 91-001/ 1401 Grand Avenue, San Leandro

CLIENT: Robert P. Warner
AEGIS Environmental Consultants, Inc
801 Riverside Avenue, Suite C
Roseville, CA 95678

REPORT OF ANALYTICAL RESULTS Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
NC-240-2 Southwest Soil Boring 35.5-36.0' SB-1-7	Soil	Robert Warner	04/24/91	04/30/91			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	ND	mg/Kg	EPA 7420	05/09/91	KS	1

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 05/07/91 by MDH using EPA 3050

05/16/91

MH/jmw/kes/wjm

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

James White
James White, Group Leader
Mary Havlicek
Mary Havlicek, Ph.D.
President



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

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- 751 S. Kellogg, Suite A • Goleta, CA 93117 • (805) 964-7838 • Fax (805) 967-4386
- 1885 North Kelly Road • Napa, CA 94558 • (707) 257-7211 • Fax (707) 226-1001
- 9333 Tech Center Dr., Ste. 800 • Sacramento, CA 95826 • (916) 368-1333 • Fax (916) 362-2484
- 2400 Cumberland Dr. • Valparaiso, Indiana 46383 • (219) 464-2389 • Fax (219) 462-2953

CLIENT: Robert P. Warner
 AEGIS Environmental Consultants, Inc
 801 Riverside Avenue, Suite C
 Roseville, CA 95678

Lab Number : H-1691-2
 Project : 91-001/ 1401 Grand
 Avenue, San Leandro



REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED	
NC-240-4 Northwest Soil Boring 25.5-26.0' SB-2-5	Soil	Robert Warner	04/24/91	04/30/91

CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	3.	mg/Kg	EPA 7420	05/09/91	KS	1

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131
 *RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
 (1) Sample Preparation on 05/07/91 by MDH using EPA 3050

05/14/91
 MH/jmw/kes/wjm

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

 James White, Group Leader

 Mary Havlicek, Ph.D.
 President



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

141 Suburban Road	• San Luis Obispo, CA 93401	• (805) 543-2553	• Fax (805) 543-2685
751 S. Kellogg, Suite A	• Goleta, CA 93117	• (805) 964-7838	• Fax (805) 967-4386
1885 North Kelly Road	• Napa, CA 94558	• (707) 257-7211	• Fax (707) 226-1001
9333 Tech Center Dr., Ste. 800	• Sacramento, CA 95826	• (916) 368-1333	• Fax (916) 362-2484
2400 Cumberland Dr.	• Valparaiso, Indiana 46383	• (219) 464-2389	• Fax (219) 462-2953

CLIENT: Robert P. Warner
AEGIS Environmental Consultants, Inc
801 Riverside Avenue, Suite C
Roseville, CA 95678

Lab Number : H-1691-3
Project : 91-001/ 1401 Grand
Avenue, San Leandro

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
NC-240-7 Northeast Soil Boring 36.0-36.5' SB-3-7	Soil	Robert Warner	04/24/91	04/30/91			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	ND	mg/Kg	EPA 7420	05/09/91	KS	1

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
(1) Sample Preparation on 05/07/91 by MDH using EPA 3050

05/14/91

MH/jmw/kes/wjm

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

James White, Group Leader

Mary Havlicek, Ph.D.
President

**COAST - TO -
COAST
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SERVICES**

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 1885 North Kelly Road • Napa, CA 94558 • (707) 257-7211 • Fax (707) 226-1001
 9333 Tech Center Dr., Ste. 800 • Sacramento, CA 95826 • (916) 368-1333 • Fax (916) 362-2484
 2400 Cumberland Dr. • Valparaiso, Indiana 46383 • (219) 464-2389 • Fax (219) 462-2953

CLIENT: Robert P. Warner
 AEGIS Environmental Consultants, Inc
 801 Riverside Avenue, Suite C
 Roseville, CA 95678

Lab Number : H-1691-4
 Project : 91-001/ 1401 Grand
 Avenue, San Leandro

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

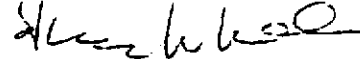
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
NC-240-9 Southeast Soil Boring 35.5-36.0' SB-4-7	Soil	Robert Warner	04/24/91	04/30/91			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	ND	mg/Kg	EPA 7420	05/09/91	KS	1

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131
 *RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)
 (1) Sample Preparation on 05/07/91 by MDH using EPA 3050

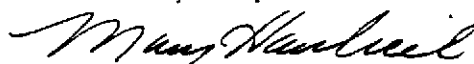
05/14/91

MH/jmw/kes/wjm

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



James White, Group Leader



Mary Havlicek, Ph.D.
 President



Air, Water & Hazardous Waste Sampling, Analysis & Consultation
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

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2400 Cumberland Dr. • Valparaiso, Indiana 46383 • (219) 464-2389 • Fax (219) 462-2953

CLIENT: Robert P. Warner
AEGIS Environmental Consultants, Inc
801 Riverside Avenue, Suite C
Roseville, CA 95678

Lab Number : H-1691-5
Project : 91-001/ 1401 Grand
Avenue, San Leandro

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED	
NC-240-10 A,B,C,&D Cuttings Stockpile 1.0-1.5' SS-1-A,B,C,&D	Soil	Robert Warner	04/24/91	04/30/91

CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
CAL WET extraction with citrate				CAC T22	05/08/91	JW	1
Lead, Soluble	0.02	0.06	mg/L	EPA 7420	05/13/91	KS	2

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131
*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

- (1) Sample Preparation on 05/08/91
- (2) Sample Preparation on 05/11/91 by JLW using EPA 3005

05/14/91

MH/jmw/kes/wjm

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

James White, Group Leader

Mary Havlicek, Ph.D.
President

Coast-to-Coast
Analytical
Services

Coast-to-Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: H-1691-5 Comp.
Collected: 04/24/91
Received: 04/30/91
Tested: As Listed
Collected by: Robert Warner

ATTN: Robert P. Warner
AEGIS Environmental Consultants, Inc.
801 Riverside Avenue, Suite C
Roseville, CA 95678

Sample Description:
Project: 91-001/1401 Grand Ave., San
Leandro, NC-240-10 A,B,C,&D Cuttings
Stockpile 1.0-1.5' SS-1-A,B,C,&D, Soil

IGNITABILITY AND REACTIVITY CRITERIA, 22 CAL ADM CODE ART 11, SEC 66702/66705 & 40CFR261
HAZARDOUS MATERIALS SCREEN

DESCRIPTION OF TEST AND TEST METHOD NO.	DATE TESTED/ANALYST	OBSERVATIONS	RESULTS
APPEARANCE (ASTM D4979)	05/07/91 AES	4 soil samples ranging from dark brown to light brown	
REACTION WITH WATER (ASTM D5058)	05/07/91 AES	Undissolved, density greater than water, no change in color or temp., gas evolved	Undissolved
REACTION WITH ACID (ASTM D5058)	05/07/91 AES	Partially dissolved, density greater than water, no change in color or temp., gas evolved	Partially dissolved
pH (units) (EPA 9045)	05/07/91 AES		7.8
CONDUCTIVITY (micromhos) (EPA 9050)	05/07/91 AES		54.
PRESENCE OF OXIDIZER (ASTM D1498)	05/07/91 AES	Oxidizer not present	Negative
PRESENCE OF SULFIDE (EPA 376.2)	05/07/91 AES	Sulfide not present at >10. mg/kg	Negative
PRESENCE OF CYANIDE (ASTM D-5049)	05/07/91 AES	Cyanide not present at >10. mg/kg	Negative
PRESENCE OF FLUORIDE (EPA 340.1)	05/07/91 AES	Fluoride not present at >10. mg/kg	Negative
COMBUSTIBILITY (ASTM D4982)	05/07/91 AES	No ignition (flash or burning)	Negative Flame Potential
FLASHPOINT (EPA 1020)	05/10/91 HC		>200. Deg. F

REMARKS: The material is not hazardous according to 22 Cal Adm Code Art 11
Sec. 66702/66705 & 40CFR261 ignitability criteria.

05/14/91
H1691-5A.WR1/#14
MH/ke

Respectfully submitted,


Mary Havlicek, Ph.D., President

Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

Send results to:
 Aegis Environmental
 801 Riverside, Suite C
 Roseville, CA 95678

Site Address: 1401 Grand Avenue / San Leandro, California
 AEGIS Project #: 91-001 / Direct bill 83A-10054 Ms. Kathy Lynch
 Shipped By: Robert P. Warner
 Shipped To: CCAS
 Project Manager: Robert P. Warner

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no) H1691

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required	
Southwest soil boring	16.0-16.5'	SB-1-3	4/24/91	Soil	1	Fuel Fingerprint	-1
Southwest soil boring	35.5-36.0'	SB-1-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-2-
Northwest soil boring	11.0-11.5'	SB-2-2	4/24/91	Soil	1	Fuel Fingerprint	-3
Northwest soil boring	25.5'-26.0'	SB-2-5	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-4-
Northwest soil boring	40.5'-41.0'	SB-2-8	4/24/91	Soil	1	Fuel Fingerprint	-5
Northeast soil boring	16.0-16.5'	SB-3-3	4/24/91	Soil	1	Fuel Fingerprint	-6
Northeast soil boring	36.0-36.5'	SB-3-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	-7-
Southwest soil boring	21.0-21.5'	SB-4-4	4/24/91	Soil	1	Fuel Fingerprint	-8

Sampler(s) (signature) Robert P. Warner

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
8 brass soil tubes	<u>Robert P. Warner</u>	<u>[Signature]</u>	4/26/91 7:55 pm	
	<u>Anthony W. Bellini</u>	<u>[Signature]</u>	04/30/91 @ 1530	
		<u>Daria Elswick</u>	5.1.91 1200	<u>used, sealed</u>

Scaled for shipment by: (signature) Robert P. Warner Date/Time: 4/26/91 11:00 AM Shipment Method: Direct hand carry by lab courier

Received for Lab by: (signature) _____ Date/Time: _____ Comments: Routine Turnaround, FAX results as soon as available, sample select tubes from indicated ends toward center, return ice chest

Receiving Laboratory: Please return original form after signing for receipt of samples.

White/Original Yellow/Lab Copy Pink/File Copy

Phone (916) 782 2110
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AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

Send results to:
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 801 Riverside, Suite C
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Site Address: 1401 Grand Avenue / San Leandro, California
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 Shipped By: Robert P. Warner
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 Project Manager: Robert P. Warner

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required	
Seawest soil boring	35.5-36.0'	SB-4-7	4/24/91	Soil	1	Fuel Fingerprint, Total Lead	H1691 -9
Cuttings Stockpile	1.0-1.5'	SS-1-A	4/24/91	Soil	1	Fuel Fingerprint Can wet for Lead Composite 4 into 1 in laboratory REF too	-10 15
Cuttings Stockpile	1.0-1.5'	SS-1-B	4/24/91	Soil	1		
Cuttings Stockpile	1.0-1.5'	SS-1-C	4/24/91	Soil	1		
Cuttings Stockpile	1.0-1.5'	SS-1-D	4/24/91	Soil	1		

Sampler(s) (signature) Robert P. Warner

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
5 brass tubes	<u>Robert P. Warner</u>	<u>[Signature]</u>	4/26/91 5:55pm	
	<u>Anthony W. Bellini</u>	<u>[Signature]</u>	043091 @1530	
	<u>[Signature]</u>	<u>Waila Elswick</u>	5-1-91 1200	<u>Well sealed intact</u>

Sealed for shipment by: (signature) Robert P. Warner Date/Time: 4/26/91 11:00 AM Shipment Method: Direct hand carry by lab courier

Received for Lab by: (signature) _____ Date/Time: _____ Comments: LuAnne Turnaround, FAX results as soon as available, Sample select tubes from indicated ends toward center, officially confirm requested analyses by phone with me ASAP. Return Icechest

Receiving Laboratory: Please return original form after signing for receipt of samples.

White/Original Yellow/Lab Copy Pink/File Copy

DOCUMENT REVIEW AND TRACKING

Project Name:
Project Manager:
Author:
Document Type:

Haber Oil - 1401 Grand Avenue
(RAW)
(RPW)
Results Report E-10-91-001

Project No.: 01-001

REVIEW PROCESS	DATE IN	DATE OUT	SIGNATURE	RETURNED TO:
Author (typed/written by): 1st Draft	6/4/91	6/5/91	Robert F. Warner	
Graphics - Figures				
Logs				
Data - Tables				
Editor (1st Review)				
Author/WP 2nd Draft Reg/Rush/Super Rush				
Technical Review (2nd Review)	6/5/91	6/6/91	B. Garber <i>BC</i>	(RPW)
Author/WP (Final Draft) Reg/Rush/Super Rush	6/7/91	6/10/91	Robert F. Warner	Laurie
Senior Review				
Final/WP <i>MC</i> Reg/Rush/Super Rush	6/10/91	6/10/91	Laurie	RPW/Andrea
Signatures	6/12/91 Robert F. Warner as DRAFT to Federated			
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