



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

HÁZMÁT 94 OST -5 PH 4: 49

September 29, 1994

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

Subject:

Soil & Groundwater Investigation Workplan for

the property located at 2008 First Street, Livermore, CA 94550

StID 1689

Dear Ms. Chu:

As requested in your letter dated July 29, 1994, enclosed is a workplan for off site investigation of soil and groundwater at the above referenced property in Livermore, California.

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

10/21/94: per Pulk Pilat - may have been

time leak of ~ 3k-6k gallon??

Sincerely,

P May have mobile lab on sole.

Heather Davis

Remediation Service, Int'l.

CC:

Mr. John Rutherford Desert Petroleum, Inc.

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

enclosure





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ALCO HAZMAT 94 OCT -5 FM 4: 49

### SOIL & GROUNDWATER INVESTIGATION WORKPLAN

for

2008 First Street Livermore, California

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

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

September 30, 1994

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### 1.0 INTRODUCTION

This report presents a proposal for further soil and groundwater investigation for the real property located at 2008 First Street, Livermore, Alameda County, California (Figure 1). Remediation Service, Int'l. (RSI) is under contract to Desert Petroleum, Inc. to provide Phase II Assessment of the subject property.

The site is currently occupied by a retail gasoline station operating under the British Petroleum trade name. A site assessment conducted in February, 1988 indicated that both soil and groundwater contained elevated concentrations of petroleum hydrocarbons. One groundwater monitoring well was installed in September, 1988 and three additional wells were recently installed in June, 1994.

### 2.0 SITE DESCRIPTION

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

The site is flat, level and paved with asphalt.

### 3.0 BACKGROUND

The following is a summary of the previous work conducted at the site. The analytical results of soil and groundwater samples collected at the site are reported in Tables 1 and 2, respectively.

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



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

On September 22, 1988, On-Site Technologies Inc. conducted further subsurface investigation with two soil borings and the completion of one monitoring well (GX-136, later renamed MW-1, Figure 3). Depth to groundwater was measured at 55.8 feet bgs. Analytical results of soil collected from the three borings reported no detectable TPH concentrations above 26 feet bgs and concentrations ranging from 0.8 mg/Kg (DPL-5 at 41 feet) to 1,600 mg/Kg (DPL-6 at 36 feet) below 26 feet bgs. Groundwater was analyzed for TPH as gasoline and BTEX; no hydrocarbon compounds were detected in the groundwater at that time (Table 2) (On-Site Technologies, Inc. Report of Hydrogeologic Site Investigation, October 26, 1988).

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

On June 16-18, 1994, RSI conducted a Soil and Groundwater Investigation with the installation of groundwater monitoring wells MW-2, MW-3 & MW-4. Analytical results of soil collected from the three well installations reported hydrocarbons predominantly in well MW-3 with a TPH concentration of 390 mg/Kg (MW-3 @ 10' and 15'). Hydrocarbons were also detected in well MW-2 with a TPH concentration of 77 mg/Kg (MW-2 @ 40'). TPH was not detected in the sample from MW-4; benzene however was detected at a low concentration of 0.009 mg/Kg (Table 1). Analysis of groundwater samples from the three recently installed wells reported TPH concentrations ranging between 810  $\mu$ g/L (MW-4) and 290,000  $\mu$ g/L (MW-2). Benzene was detected in all three wells at concentrations between 12  $\mu$ g/L (MW-4) and 18,000  $\mu$ g/L (MW-2) (Table 2).

Groundwater has been monitored on a regular basis since 1990. The most recent monitoring on August 25, 1994 measured depth to groundwater at between 42.25 to 44.13 feet bgs. Analysis of groundwater reported TPH as gasoline concentrations between 850  $\mu$ g/L (MW-4) and 41,000  $\mu$ g/L (MW-3). Benzene was detected at concentrations of 37  $\mu$ g/L in well MW-4 to 1,600  $\mu$ g/L in MW-3. Well MW-2 was not sampled due to the presence of an immiscible

layer on the groundwater. Table 2 summarizes historic groundwater analytical results at the site.

### 4.0 GEOLOGY AND HYDROGEOLOGY

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

The soils beneath the site consist of predominantly silty sand, sandy gravel and gravel with sand to depths of approximately 15 to 20 feet bgs, and intermittent layers of sandy clay, silty sand and gravelly sand from 20 feet bgs to total boring depths (60 feet bgs). (Boring Logs MW-2, MW-3 and MW-4, RSI Groundwater Investigation Report, July 22, 1994). Depth to groundwater was measured at between 42.25 to 44.13 feet bgs on August 25, 1994 (Table 3). These measurements indicate a groundwater flow direction towards the northwest at a gradient of 0.028 ft/ft.

### 5.0 PROPOSED WORK DESCRIPTION

The proposed work will further characterize soil and groundwater conditions at this site. This will be accomplished by the drilling and sampling of six soil bore holes and collection of hydropunch groundwater samples. The soil borings will be advanced at the approximate locations shown on Figure 3.

### 5.1 Soil Boring Installation and Sampling

The soil borings will be drilled using a hollow-stem auger drilling rig supplied and operated by a State of California licensed drilling contractor. During drilling operations, soil samples will be collected at five foot intervals from the surface to the top of the water table, at changes in soil lithology and at depths of field screen detected contamination. Samples will be collected by driving a split spoon sampler containing standard brass tubes into undisturbed soil beneath the augers. All sampling equipment will be decontaminated between sample collection and bore holes by steam cleaning and/or standard three bucket wash method with TSP. The soil samples will be sealed, labeled and placed on ice for transportation to a state certified laboratory using standard chain of custody procedures. The soil sample



nearest the capillary zone from each boring will be analyzed for total lead, TPH as gasoline and for BTEX using approved EPA or CDHS methods.

Drilling and soil sampling will be performed under the supervision of Michael Mulhern, a California Registered Engineering Geologist (No. 1507). A log of each boring will be prepared and soil will be classified based on the USCS classification system. Soil samples will be screened with a photoionization detector for hydrocarbons. All soil cuttings and decontamination water will be stored onsite in DOT approved (17H) 55-gallon drums labeled as pending laboratory analysis. The soil will be disposed of in an appropriate manner based on analytical results.

The boring will be abandoned by grouting to the surface with cement/bentonite or bentonite. The abandoned boring will be sealed to the surface with a minimum of five feet of concrete.

Prior to initiation of drilling operations, all appropriate permits will be obtained. Underground Service Alert will be notified a minimum of two working days before drilling in order to avoid damaging underground utilities.

### 5.2 Groundwater Sampling Protocol

Groundwater will be sampled during drilling process by driving a hydropunch sampling probe below the static water level or to a depth where hydrostatic pressure is sufficient for sampling. The hydropunch tool will then be withdrawn approximately 18" to allow the sampling chamber to fill. After the chamber is full, the hydropunch will be withdrawn. The water collected will be transferred into appropriate containers in a manner that minimizes aeration. The samples will then be sealed with no head space, labeled and placed on ice for transportation under standard chain of custody procedures to a state certified laboratory for analysis. Groundwater samples will be tested for the same constituents listed in the soil sampling protocol.

All produced decontamination water and soil cuttings will be stored onsite in DOT approved 55 gallon drums which will be labeled as pending lab analysis. Decontamination water will be disposed of in an appropriate manner based on laboratory analytical results.

### 6.0 HEALTH AND SAFETY PLAN

See Appendix A for the health and safety plan.



### 7.0 TIME SCHEDULE

Site assessment work will begin within ninety days after approval of this workplan by the ACEMD. The ACEMD will be notified 48 hours prior to beginning work at the site. After assessment work at the site has been completed, a full report will be submitted to the ACEMD within forty-five days.

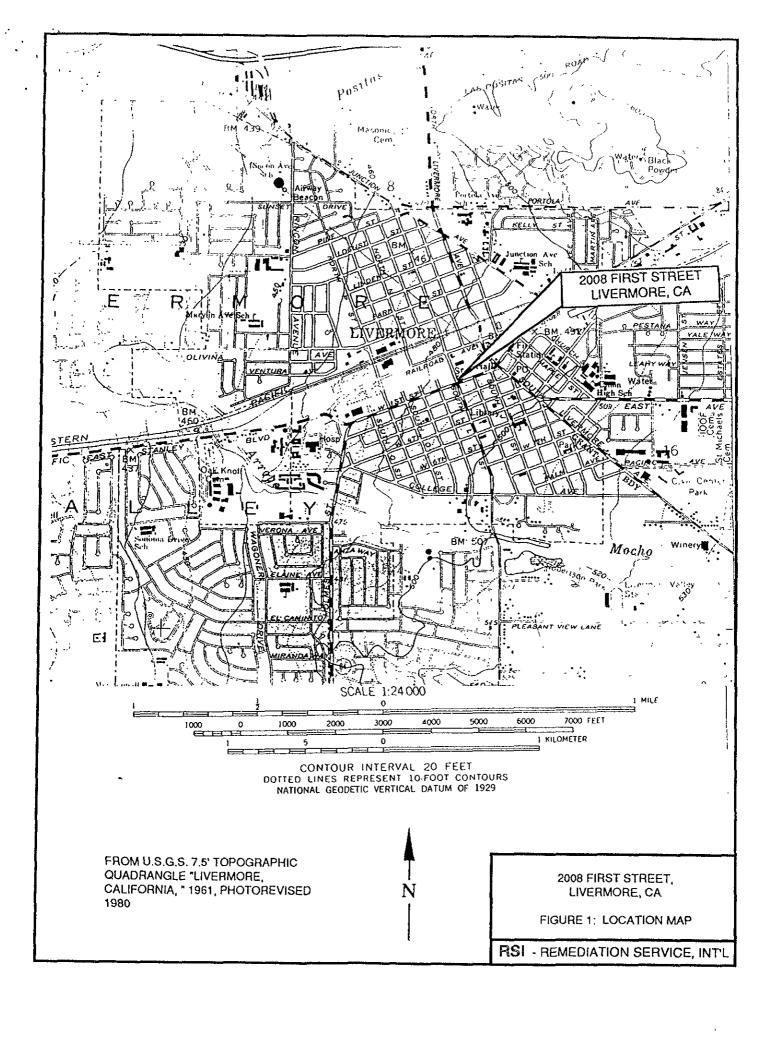
Respectfully Submitted,

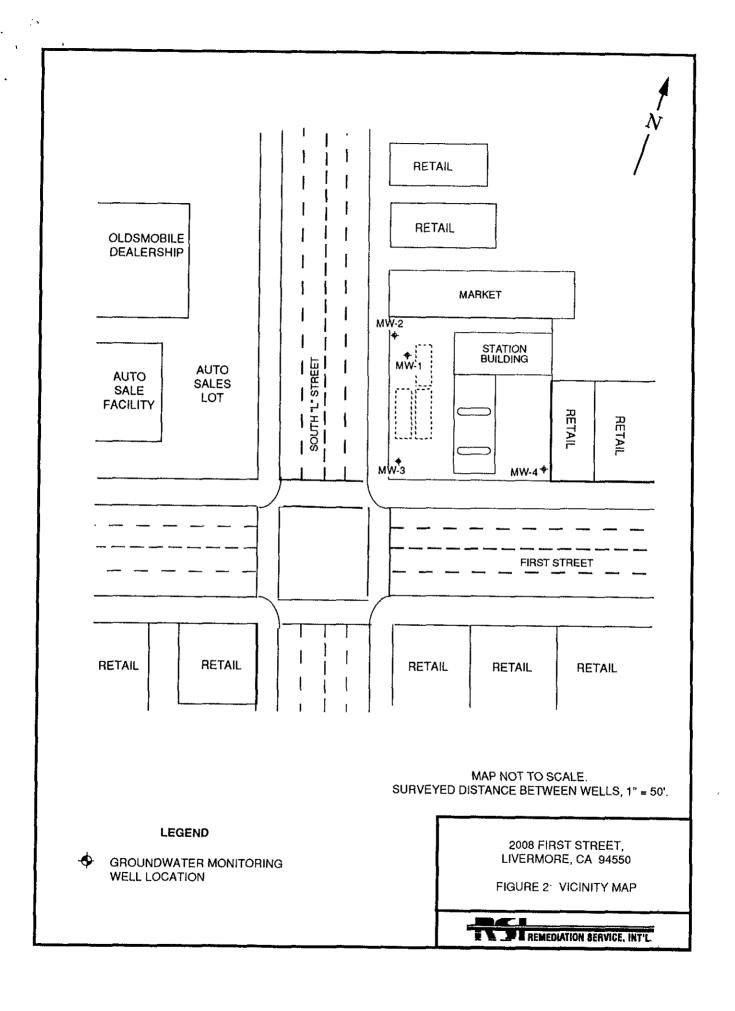
Richard W. Pilat Senior Engineer

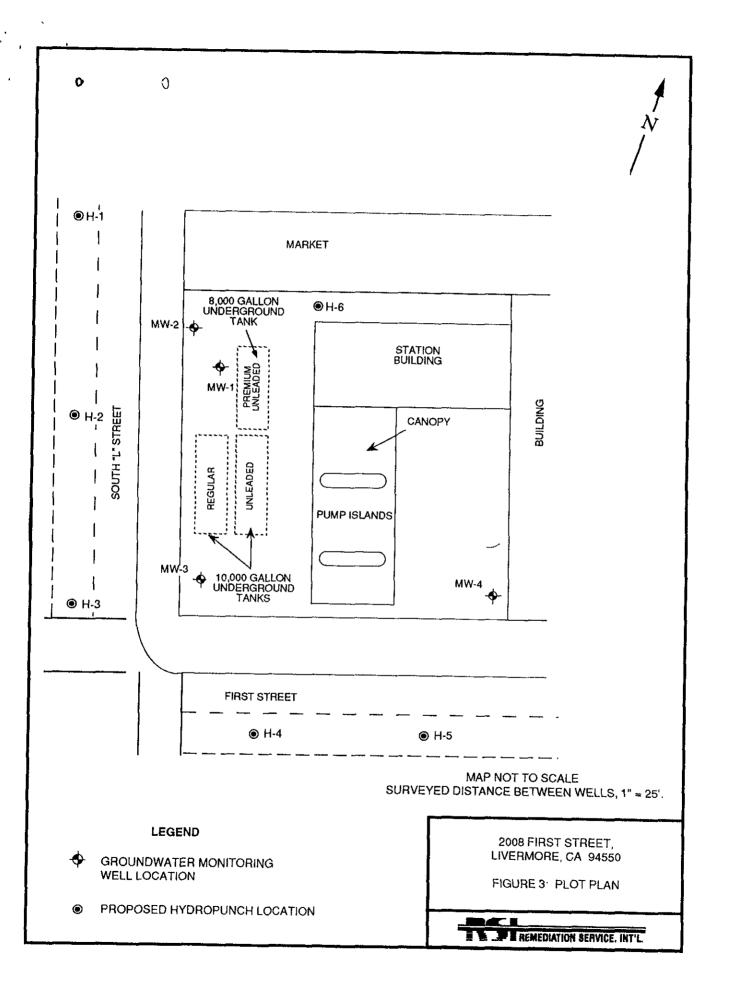
Program Director

Remediation Service, Int'l.

### **FIGURES**







### **TABLES**

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

### 2008 FIRST STREET LIVERMORE, CA

### Results are in mg/Kg

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

TPH = Total petroleum hydrocarbons as gasoline

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

Total Lead analyzed by EPA method 7420.



## TABLE 2 SUMMARY OF LABORATORY ANALYSIS OF GROUNDWATER

## 2008 FIRST STREET LIVERMORE, CA

TPH & BTEX Concentrations are in  $\mu$ g/L (parts per billion) Total Lead Concentrations are in mg/L (parts per million)

WELL#	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL LEAD	SOLUBLI LEAD
MW-1	8/2/90	24,000	1,300	1,300	400	2,700	NA	NA
	10/10/91	2,200	430	170	100	290	NA	NA
	1/8/92	1,200	200	120	30	150	NA	NA
	5/11/93	960	66	8	41	90	NA	NA
	9/21/93	1,900	311	118	33.8	112	NA	NA
	5/22/94	10,000	690	1100	340	1200	NA	NA
	8/26/94	13,000	290	690	120	670	NA	ND
MW-2	6/19/94	290,000	18,000	36,000	4,600	26,000	0.016	0.016
	8/26/94	NS*	NS*	NS*	NS*	NS*	NA	NS*
MW-3	6/19/94	11,000	640	580	270	790	ND	ND
	8/26/94	41,000	1,600	2,300	330	1,800	NA	ND
MW-4	6/19/94	810	12	25	ND	22	0.007	0.007
	8/26/94	850	37	51	9.5	35	NA	ND
tle 22 CCR	MCL		1		680	1,750		

TPH = Total petroleum hydrocarbons (gasoline)

NA = Not analyzed for this constituent.

ND = Not detected at or above minimum detection limit.

NS\* = Not sampled due to the presence of free product.

## TABLE 3 GROUNDWATER ELEVATION DATA

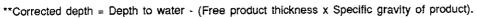
## 2008 FIRST STREET LIVERMORE, CA

### Measurements are in feet.

	Date	Depth to	Depth to	Free Product	Corrected Depth	Well Head	Water Table	Change ir
Well	Measured	Free Product	Water*	Thickness	to Water Table **	Elevation*	Elevation*	Elevation
MW-1	9/22/88		60.50			487.00	426.50	
	8/2/90		43.10	<del></del>			443.90	17.40
	10/10/91	_	66.39				420.61	-23.29
	1/8/92		68.72				418.28	-2.33
	5/11/93		34.76				452.24	33.96
	9/21/93		38.70		<del></del>		448.30	-3.94
	5/22/94		33.57				453.43	5.13
	6/19/94		37.51			484.07	446.56	
	8/25/94	-	43.27		<del></del>		440.80	-5.76
MW-2	6/19/94		38.15			483.86	445.71	
	8/25/94	43.47	44.13	0.66	43.63		440.23	-5 48
MW-3	6/19/94		37.15		<u></u>	484.24	447.09	
11111 0	8/25/94		42.31		_		441.93	-5.16
MW-4	6/19/94		37.49		-	485.04	447.55	
<b>                                    </b>	8/25/94		42.25		·		442.79	-4.76

<sup>\*</sup>Elevations are in feet above mean sea level.

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





### **APPENDICES**

# APPENDIX A HEALTH & SAFETY PLAN

### **INTRODUCTION**

The following Health and Safety Plan has been developed to protect persons in contact with the equipment and to ensure a safe operation during drilling and sample collection.

### 1. Facility Background:

The subject property an operating gasoline service station located at 2008 First Street, Livermore, California. A garage/office building and two pump islands are located on the site and asphalt/concrete covers the rest of the property. Potential hydrocarbon contamination is being assessed. Contamination could exist in both the liquid and/or gaseous states as a result of inadvertent releases during handling and storage of gasoline.

Soils Samples collected during soil boring in June, 1994 revealed TPH concentrations ranging from ND to 390 mg/Kg (parts per million). The highest BTEX concentrations in the soil were 1.1 mg/Kg benzene, 17 mg/Kg toluene, 2.5 mg/Kg ethyl benzene and 11 mg/Kg total xylenes. Lead was also reported at a concentration of 190 mg/Kg (MW-3 @ 15).

Analytical results of groundwater samples collected in August, 1994 reported a TPH concentration of 41,000  $\mu$ g/L (ppb) and a benzene concentration of 1,600  $\mu$ g/L. Free product was found in well MW-2.

### 2. Key Personnel and Responsibilities:

Richard W. Pilat is the Project Manager.

Michael I. Orman is the Company Safety Officer

Remediation Service, Int'l. (RSI) Telephone no. (805) 644-5892

8:00 AM to 5:00 PM, Monday - Friday.

The designated Safety Officer will be the Project Manager. The Safety Officer has full authority to correct any problems or shut down the operation, if required, to maintain safety.

Supervising Geologist: Mr. Michael Mulhern,

Registered Engineering Geologist #1507,

State of California

Telephone no. (805) 644-5892



### 3. Proposed Work:

The proposed work will characterize soil and groundwater conditions at this site. This will be accomplished by the installation and sampling of six soil borings. A hydropunch sample will also be collected from each boring. The borings will be drilled at the approximate locations shown on Figure 3.

### 4. Hazardous Materials and Other Job Hazards:

A. Hydrocarbons from waste oil are the greatest potential known chemical hazard.

These hydrocarbons are usually identified as:

- a. Total Petroleum Hydrocarbons (TPH)
- b. Benzene
- c. Ethyl-benzene
- d. Toluene
- e. Xylenes

Chemical concentrations may very from zero to free product. ACGIH Gasoline TLV 300 ppm, STEL 500 ppm.

- B. Benzene has been designated as a human carcinogen by the International Agency for Research on Cancer and presents the greatest health hazard. Benzene is highly toxic when it is inhaled or ingested. Exposure to high levels of benzene can result in damage to a person's liver, kidney's, central nervous system, and/or blood cells. The concentration of benzene in most commercial grades of gasoline is two percent by volume. ACGIH TLV 1 ppm, STEL 5 ppm
- C. Toluene can cause damage to a person's liver, kidneys and/or central nervous system if inhaled or ingested. ACGIH TLV 100 ppm, STEL 150 ppm
- D. Xylenes can cause damage to a human's liver, kidneys, central nervous system and/or blood cells when it is inhaled or ingested. ACGIH TLV 100 ppm, STEL 150 ppm
- E. Drilling operations will be conducted within a designated "restricted entry" area. Only persons directly involved with the drilling will be authorized to enter this area. The standard machinery safety practices will be followed. Underground Service Alert will be notified at least two working days before



starting work. The drill rig mast will be spaced at least 10 feet from all overhead power lines or a safe distance as indicated by the drillers.

- F. All work will stop if an unknown substance is encountered onsite. If possible, a sample will be collected. A laboratory analytical scan will be done to identify the unknown substance and safety measures will be taken as necessary.
- G. Heat stress is not expected to be a problem for personnel. Temperatures could range from approximately 60 degrees to 80 degrees Fahrenheit for the duration of the project. However, the following precautions will be taken:
  - a. All employees are trained in recognition of the health hazards and symptoms of heat stress.
  - b. Employees will take frequent breaks in a shady area with protective clothing removed. Decontamination procedures will be followed before leaving the work area.
  - c. Employees should drink liquids at each break.
- H. Miscellaneous Health and Safety Risks: Five of the borings are located in the second lanes of South "L" Street and First Street. The drilling area will be marked off with cones, safety tape and barricades as prescribed in Manual of Traffic Control; a complete traffic control program will be implemented to caution and direct traffic around the immediate work area. Please refer to attached figures for cone locations and requirements for typical lane closure. A flag man will be utilized to stop traffic when anyone enters active roadway, during rig set up and traffic control set up, and during demobilization. Personnel will wear orange vests and will take extra precaution within traffic areas.

### 5. Risk Assessment Summary:

The potential risk of exposure to gasoline range hydrocarbons at this site is considered low. The site is completely paved with no open areas for potential volatilization of hydrocarbons.

The greatest risks are physical hazards due to the location of five of the boreholes on the second lanes of South "L" Street and First Street. Please refer to section 4H.



### 6. Exposure Monitoring Plan:

Onsite monitoring will be conducted with a HNU photoionization meter. The designated Safety Officer onsite will take regular ambient air readings within the breathing zone.

A wind direction indicator will also be present on site.

### 7. Personal Protection Equipment:

The most probable chemical exposure pathways are dermal contact and/or inhalation; ingestion is considered extremely unlikely.

The following protection equipment is to be utilized during drilling, sampling, or emergencies.

- A. Personnel will wear safety glasses during sampling.
- B. Nitrile gloves will be worn when there is a potential for contact with hazardous chemicals. Nitrile is the best material to use for dermal protection when dealing with a gasoline and water mixture.
- C. Gasoline has an ACGIH TLV of 300 ppm and STEL 500 ppm. The potential to exceed these levels is possible. The odor threshold of gasoline is 10 ppm, which provides a safety margin to warn personnel before any TLV has been exceeded. Half-mask respirators with organic vapor cartridges (MSHA-NIOSH TC-23C-40 or equivalent) will be available and should be used if the odor becomes more noticeable.

If vapor concentrations exceed PID readings of 300 ppm over a 5 minute period, field activity will be terminated and the boring will be abandoned.

- D. Tyveks (or equivalent) and PVC/nitrile boots are available if dermal exposure to air borne vapors/particulate or saturated soils increases. PID readings of 300 ppm for over 5 minutes and the presence of visible air borne dust will merit termination of field activity.
- E. Hard hats will be worn when working around operating heavy machinery such as a drill rig.



F. Hearing protection will be available when heavy machinery is being operated.

### 8. Work Zones and Security Measures:

The area immediately surrounding the sample processing location and the drilling rig will be off limits to all unauthorized personnel. Traffic cones or plastic flagging tape will be used to delineate the restricted area as necessary.

### 9. Decontamination Procedures:

In the case of a small spill, the spilled product will be absorbed with clay absorbent or any other available and appropriate material. Upon completion of cleanup this material will be placed in a sealed labeled container compatible with the waste. The appropriate disposal method will be followed depending on the concentration of the contaminant. The Fire Department will be notified in event of a large spill.

All reusable equipment (gloves, boots, respirators) will be decontaminated by washing in a soapy solution. The drill augers will be decontaminated within an area set up to contain all effluent. The rinse waters will be disposed of in a method compatible with the contaminant concentrations. Disposable clothing and equipment, such as Tyveks and disposable gloves, will be placed in appropriate containers.

### 10. Work Practices:

A brief summary of safety precautions:

- A. All employees will be trained in health and safety as per 29 CFR 1910.120
- B. No eating, drinking, smoking or gum chewing in the work area.
- C. All personnel have been instructed to wash hands and face, even if no direct contact occurs, before eating, drinking, smoking and leaving work.



### 11. Standard Operating Procedures:

### A. Instrument Calibration

Prior to beginning work each day, the HNU photoionization detector will be calibrated with the cylinder of calibration gas supplied by the manufacturer. The detector will be calibrated according to the manufacturers' instructions.

### B. Fit Testing

Each person working in a potentially contaminated zone should have his/her respirator fit-tested to assure that vapors cannot infiltrate past the edges of the respirator. A simple and readily available field test is to have the worker, wearing the respirator, inhale while cigarette smoke is blown toward the respirator; the worker should not be able to detect the odor of the smoke.

### C. "Buddy" System

In situations where there is possible exposure to elevated levels of hydrocarbons, each team member will be instructed to be alert to behavior of other members which may indicate accidental overexposure.



### 12. Emergency Procedures:

- A. If dermal contact occurs, the affected area should be flushed with tap water; distilled water should be used for flushing the eyes.
- B. If vapors or fumes are inhaled, the affected person will be removed from the work area. If the person continues to feel dizzy or ill, she/he will be driven to the local hospital.

### **Emergency Responders:**

A. Local Hospital: Valley Memorial Hospital

1111 E. Stanley Blvd. Livermore, CA (415) 447-7000

West on 1st Street approximately 1/2 mile, rt. on Stanley Blvd. (at Hansen Park), Hospital on left.

B. Fire Department: 911

C. Local Environmental Health, Haz. Waste:

Alameda County Health Care Services Ms. Eva Chu, Haz. Mat. Specialist (510) 271-4530

### 13. Training Requirements:

Our employees have received the 40 hour safety training as required under 29 CFR 1910.120 regulations.

### 14. Record keeping:

- A. Training A record will be maintained on each employee's training and respirator fit testing.
- B. Employee Exposure Potential exposures will be recorded and will include the location, time, potential contaminants and the concentrations.
- C. Medical Records These include field injuries and illness.
- D. RSI periodically reviews the Health and Safety Plan for adequacy, and changes are made as necessary.

Mr. Richard W. Pilat Program Director

Remediation Service, Int'l.

### SIGNATURE PAGE

A morning safety meeting will be conducted for all personnel to discuss safety procedures and the day's planned operations. All employees on site will sign a master sheet indicating they have read the site safety plan.

DRILLER	DATE	 DATE
DRILLER	DATE	 DATE
RSI	DATE	DATE
RSI	DATE	DATE
RSI	DATE	DATE
RSI	DATE -	DATE
RSI	DATE	DATE



