



TANK PROTECT ENGINEERING
of Northern California, Inc.

TRANSMITTAL FORM

DATE: 7/8/97 PROJECT NO.: 384

TO: Mr. Scott Seery
ACHCSA
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

FROM: Fred Moss, P.E.
Tank Protect Engineering
2821 Whipple Road
Union City, CA 94587-1233

WE ARE SENDING YOU ATTACHED UNDER SEPARATE COVER VIA Hand deliver
THE FOLLOWING ITEMS:

- LETTER(S) PROPOSAL(S) TABLE(S)
 FIGURE(S) REPORT(S) WORKPLAN(S)

COPIES	DATED	DESCRIPTION
1	7/8/97	Workplan for Subsurface Investigation and Soil Sampling, for Mission Valley Rock, 799 Athenour Way, Sunol, CA 94586

REMARKS: _____

ENVIRONMENTAL
PROTECTION
97 JUL -8 PM 3:01

cc: File
Mr. Mort Calvert/Mission Valley Rock

SIGNATURE:

WORKPLAN
FOR
SUBSURFACE INVESTIGATION
AND SOIL SAMPLING

MISSION VALLEY ROCK
799 ATHENOUR WAY
SUNOL, CA 94586

7-8-97

Prepared For:
MORT CALVERT
MISSION VALLEY ROCK
799 ATHENOUR WAY
SUNOL, CA 94586

Submitted By:
TANK PROTECT ENGINEERING
Of Northern California, Inc.
2821 WHIPPLE ROAD
UNION CITY, CA 94587
(510) 429-8088

July 8, 1997

Project Number 384

97 JUL -8 PM 3:01
ENVIRONMENTAL
PROTECTION

WORKPLAN
FOR
SUBSURFACE INVESTIGATION
AND SOIL SAMPLING

Frederick G. Moss

Frederick G. Moss
Registered Civil Engineer



MISSION VALLEY ROCK
799 ATHENOUR WAY
SUNOL, CA 94586

Prepared For:
MR. MORT CALVERT
MISSION VALLEY ROCK
799 ATHENOUR WAY
SUNOL, CA 94586

July 8, 1997

This report has been prepared by the staff of Tank Protect Engineering of Northern California, Inc. under direction of an Engineer and/or Geologist whose seal(s) and/or signature(s) appear hereon.

Jeff J. Farhoomand

Jeff J. Farhoomand, M.S.
Principal Engineer

The findings, recommendations, specifications or professional opinions are presented, within the limits prescribed by the client, after being prepared in accordance with generally accepted professional engineering and geologic practice. We make no other warranty, either expressed or implied.

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1.0 INTRODUCTION

The subject site is located at 799 Athenour Way in the City of Sunol in Alameda County, California (see Figure 1). The contact person for the site is Mr. Mort Calvert; telephone number (510) 862-2257.

In 1995 a single 10,000 gallon underground storage tank (UST) was removed from the site and disposed of offsite. Soil samples were not collected during the removal operations. Alameda County Health Care Services Agency (ACHCSA) requested by letter dated May 9, 1997 (see Appendix A) that an environmental investigation be conducted to determine the subsurface soil conditions. This WORKPLAN FOR SOIL SUBSURFACE INVESTIGATION AND SOIL SAMPLING (WP) proposes a scope of work for conducting the investigation and remediating previously stockpiled contaminated soil.

2.0 BACKGROUND

Tank Protect Engineering of Northern California, Inc. (TPE) was contracted by Mission Valley Rock (MVR) to remove two 10,000-gallon underground steel, diesel storage tanks and one 2,000-gallon underground steel, gasoline storage tank.

Tank removal operations and subsequent soil sampling activities were documented in TPE's August 12, 1996 TANK CLOSURE REPORT, MISSION VALLEY ROCK, 799 ATHENOUR WAY, SUNOL, CA 94586. An additional fourth UST was located east of the three UST's described above. In June 1996, when TPE completed excavation activities, the fourth UST had already been removed by others. The location of this 10,000-gallon UST is shown on Figure 2.

3.0 PROPOSED SCOPE OF WORK

As an investigation of the extent of residual soil contamination in the vicinity of the fourth UST, TPE proposes the following scope of work:

- . Conduct an Underground Service Alert (USA) location survey request to minimize the potential of encountering unexpected utilities, if necessary.
- . Install two shallow trenches (25 length) to a depth of approximately 3 feet, to investigate subsurface soil conditions.
- . Collect soil samples from each trench at approximately 3-foot depth for chemical analysis.
- . Analyze four selected soil samples for TPHD.
- . Prepare a Site Assessment Report.

Details of the proposed scope of work are presented below.

3.1 Pretrenching Activities

Before commencing trenching activities, TPE will visit the site to mark the proposed trenches. TPE will coordinate with MVR to minimize the potential of encountering underground utilities and objects while trenching, if necessary, and notify ACHCSA.

3.2 Rationale for Trench Locations

Based upon a site inspection conducted by TPE and ACHCSA on June 25, 1997, aerial photographs (1988 and 1997) and file records/drawings provided by MVR, the former tank location is plotted on Figure 2. Two transecting trenches (25 feet typical) will be installed to verify soil conditions at the former UST location. If indicators such as former ground surface, soil staining or diesel odor are identified, TPE will collect representative soil samples, from the trenches, if initial trenching doesn't reveal any indicators, then TPE will conduct additional trenching, if necessary.

3.3 Soil Sampling Procedures

Representative soil samples will be collected for chemical analyses at approximately 3-foot depth intervals below the ground surface. A slide hammer and brass tube sampler will be used to retrieve soil samples. The sampling equipment will be cleaned before each sampling event by washing with an Alconox® solution and rinsing in tap water.

All trenches will be backfilled to the ground surface with clean soil or gravel. Appendix B document TPE's protocols relative to sample handling procedures.

3.3.1 Soil Sample Selection for Chemical Analyses

All soil samples will be field-screened for the presence of apparent hydrocarbon soil contamination based on visible hydrocarbon stains, odors, and headspace analysis for volatile organic compounds using a Gastech, Inc., Trace-Techtor hydrocarbon vapor tester (HVT). Headspace analysis will be conducted by partially filling a quart-size plastic bag with a soil sample, sealing the bag air tight, and warming the bag to promote volatilization of hydrocarbons, if any, into the air space of the bag. After allowing for volatilization, the headspace of the bag will be sampled by the HVT and the response recorded in ppm.

Samples containing apparent hydrocarbon contamination will be selected for chemical analysis. If no contamination is apparent, the sample nearest to groundwater will be selected for chemical analysis.

Selected samples will be preserved in the brass tubes by quickly covering the open ends with Teflon sheeting and capping with plastic end-caps. The tubes will be labeled to show site name, project number, date and time collected, sample name and depth, and sampler name; sealed in quart-size plastic bags; and placed in an iced-cooler for transport to a California Department of Health Services (DHS) certified laboratory accompanied by chain-of-custody documentation.

3.3.2 Chemical Analyses

Soil samples are proposed to be analyzed for TPHD by the United States Environmental Protection Agency (EPA) Methods 3550/8015. and BTEX

4.0 SITE ASSESSMENT REPORT

The information collected, analytical results, and TPE's conclusions and recommendations will be summarized in a report. The report will describe the work performed and include: copies of all required permits, an area map, a detailed site plan showing location of the trenches, sampling points, tables summarizing results of soil chemical analyses, and copies of certified analytical reports and chain-of-custodies.

Conclusions regarding the extent and type(s) of contamination will be presented within the context of this workplan. Recommendations for further investigation and/or supplemental sampling and analyses will be included. The report will be reviewed and signed by a California Registered Geologist or Professional Engineer.

5.0 SITE SAFETY PLAN

The above scope of work will be conducted according to the Site Health and Safety Plan developed for the subject site and is included in Appendix C.

6.0 TIME SCHEDULE

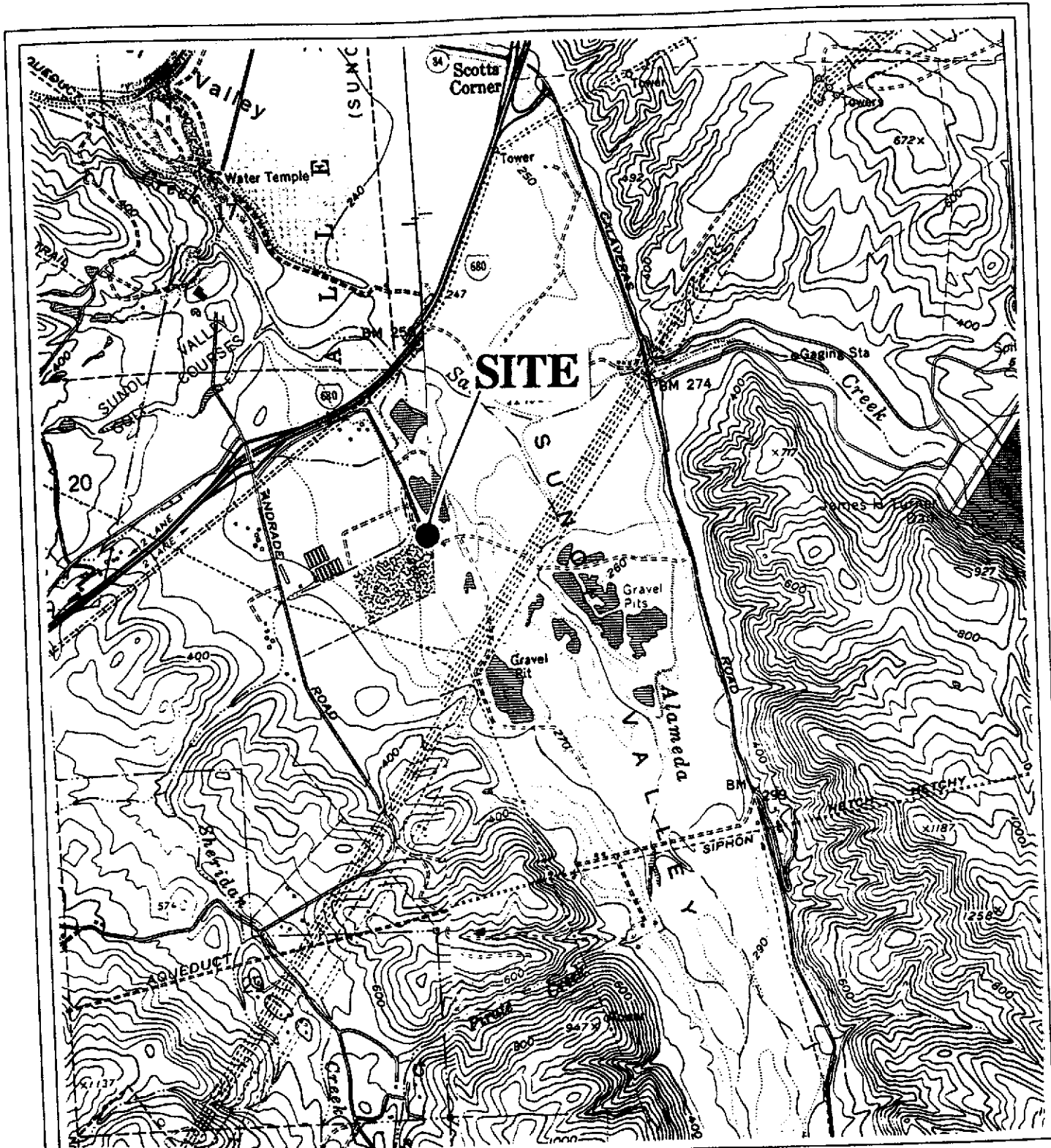
The projected time schedule for implementation of the activities described in this workplan is presented below. The schedule reflects a relatively problem-free program. However, delays in the workplan review, permitting, or laboratory analyses could lengthen the project schedule. Access difficulties, adverse weather, and regulator review could also delay the proposed time schedule. TPE will make every effort to adhere to the project schedule.

Week 1: Regulator Approval Received; Subcontracting, Conduct Underground Utility Survey, if Necessary.

Week 2: Install Exploratory Trenches.

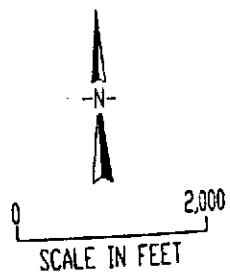
Week 5: Receive Chemical Analyses, Interpret Data, and Write Preliminary Site Assessment Report.

Week 8: Submit Preliminary Site Assessment Report to Client.



LEGEND

REFERENCE: USGS 7.5 MINUTE
 SERIES QUADRANGLE MAPS
 LA COSTA VALLEY, CALIFORNIA
 PHOTOREVISED 1968
 NILES, CALIFORNIA
 PHOTOREVISED 1980

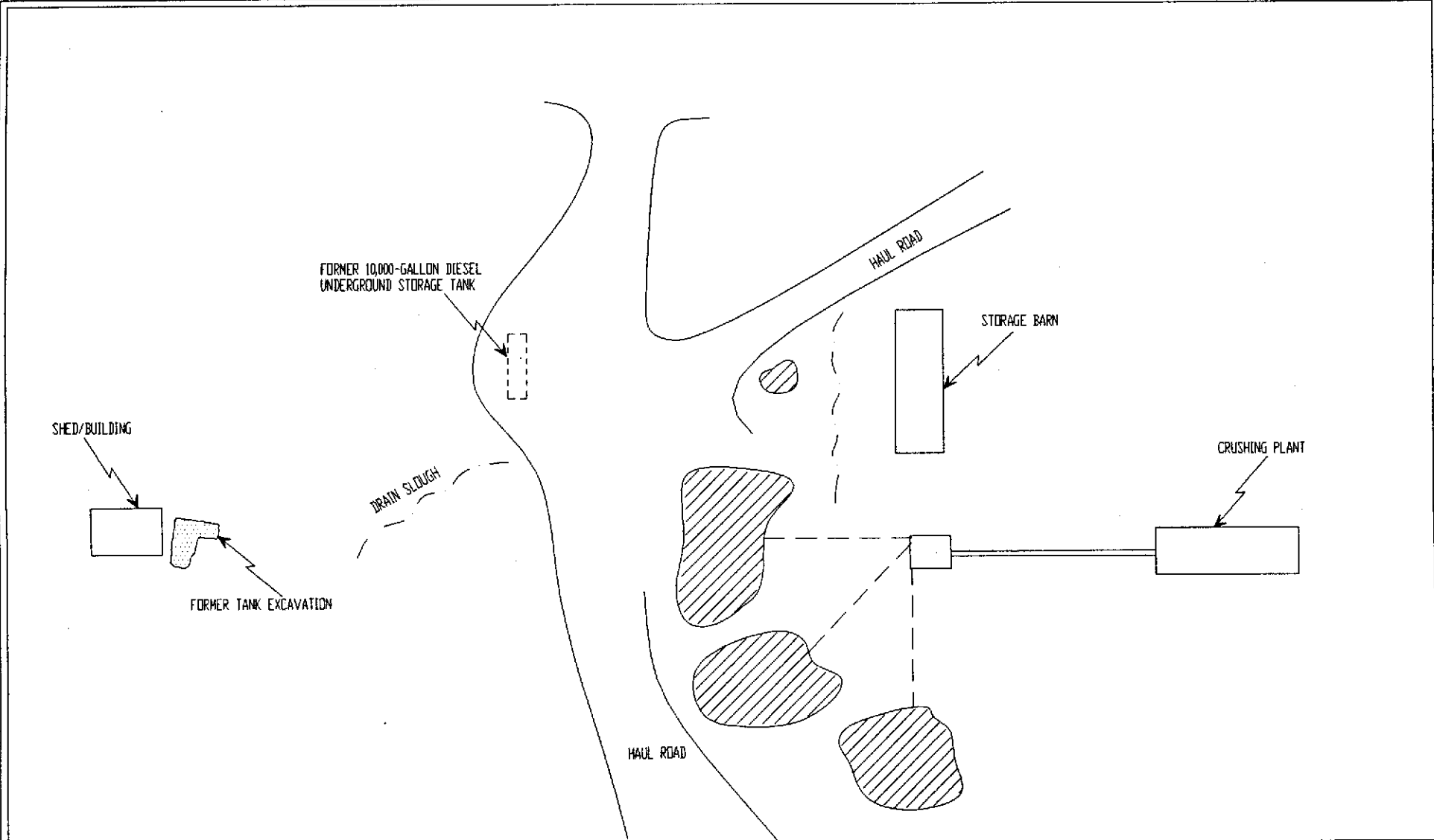


TANK PROTECT ENGINEERING




SITE VICINITY MAP

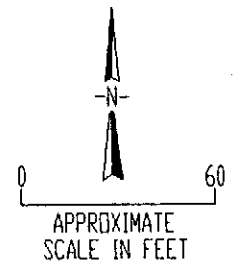
MISSION VALLEY ROCK
 799 ATHENOUR WAY
 SUNOL, CA 94586

DATE	12/3/96
FIGURE	1
FILE #	384-IN
DRAWN BY	VK
CHECKED BY	LNH



LEGEND

-  UNDERGROUND STORAGE TANK
-  SURFACE DRAINAGE
-  GRAVEL PILE



TANK PROTECT ENGINEERING

SITE PLAN

MISSION VALLEY ROCK
799 ATHENDOUR WAY
SUNDL, CA 94586

DATE	7/1/97
FIGURE	2
FILE #	384-14N
DRAWN BY	VK
CHECKED BY	FGM

APPENDIX A

ALAMEDA COUNTY HEALTH CARE SERVICES, LETTER DATED MAY 9, 1997

FROM ALAMEDA CO EMS HQZ-OPS

510 337 933

Post-It* Fax Note 7671

Date	6/13	# of pages	2
To	Jeff Lewis	From	Mart Calvert
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



May 9, 1997

STID 2786

Mr. Robert A. Saia
Mission Valley Rock Company
P.O. Box 567
Sunol, CA 94586

Post-It* brand fax transmittal memo 7671		# of pages	2
To	Mart Calvert	From	S. SEERY
Co.	Mission Valley	Co.	AKDEH
Phone #		Phone #	567-6783
Fax #	862-0229	Fax #	

NOTICE OF VIOLATION

RE: MISSION VALLEY ROCK COMPANY, 7999 ATHENOUR WAY, SUNOL -
UNPERMITTED REMOVAL OF UNDERGROUND STORAGE TANK

Dear Mr. Saia:

This letter follows our telephone conversation today during which we discussed the 1995 removal of a single 10,000 gallon underground storage tank (UST) from your facility. The removal occurred without our knowledge and without issuance of a "permit" from this office.

Unpermitted UST closures and ancillary activities are violations of Article 7, Section 2670 et seq., Title 23, California Code of Regulations (CCR).

I understand that the subject UST was transported off-site by Sierra-West Environmental (Madera, CA) without a Uniform Hazardous Waste Manifest, a requirement under current law as USTs are considered hazardous waste until "certified" by a state-licensed Treatment, Storage and Disposal (TSD) facility. Only one such facility (Erickson - Richmond, CA) is currently licensed in northern California for rendering USTs nonhazardous.

Mr. John Mendrin of Sierra-West informed me yesterday that the UST was taken to an unspecified "scrap yard" in the Fresno area, that he had assumed all permits were not only in order, but not his responsibility, and that his sole function was to transport an empty, clean tank. He also informed me that the tank was reportedly "triple-rinsed" prior to his arrival, and that the rinsate was placed into Mission Valley's above-ground waste oil tank. You informed me today that this waste material was eventually taken to Evergreen Oil (Newark, CA) for disposal.

FROM : ALAMEDA CO EMS HQZ-OPS

510 337 9335

1997.06-13

14:43

N159 P.02/02

Mr. Saia
RE: 7999 Athenour Way, Sunol
May 9, 1997
Page 2 of 2

We request at this time that Mission Valley Rock Company submit the following information:

- 1) Copies of the shipping papers which accompanied the subject UST to its ultimate destination.
- 2) Copies of the receipt for disposal of the UST at its ultimate location.

Pursuant to Title 23 CCR provisions and the county's UST closure requirements, soil samples are required to be collected from the former site of the subject UST and analyzed for target compounds specific to the product previously stored in the tank. You are required, therefore, to hire an experienced environmental consultant to submit a sampling plan to this office and perform the work specified therein. Sampling activities will be scheduled with this office so that an inspector may be present at that time. Finally, the consultant will compile and submit a report documenting the sampling results.

You are directed to submit the requested sampling plan within 30 days of the date of this letter. The remaining information may be compiled and submitted with the final sampling report once the project is completed.

To facilitate the oversight of this project, you are required to submit a deposit for \$630. Checks are to made payable to "Alameda County." This check may be submitted along with your sampling plan (Attn: Scott Seery).

Please call me at (510) 567-6783 should you have any questions.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director
Robert Weston, ACDEH
Jim Ferdinand, Alameda County Fire Department

APPENDIX B

SAMPLE HANDLING PROCEDURES

APPENDIX B

SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. The following sample packaging requirements will be followed.

- . Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.
- . Samples will be secured in coolers to maintain custody, control temperature and prevent breakage during transportation to the laboratory.
- . A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.
- . Ice, blue ice or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory.
- . Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.
- . Each sample will be identified by affixing a pressure sensitive, gummed label or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection and the collector's initials.
- . Soil samples collected in brass tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will

be labeled, sealed in quart size bags and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

Sample Control/Chain-of-Custody: All field personnel will refer to this workplan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site file; all sample transfers will be documented in the chain-of-custody; samples will be identified with labels; all sample bottles will be custody-sealed. All information is to be recorded in waterproof ink. All TPE field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated by the TPE project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used and signature of the TPE person relinquishing samples to a non-TPE person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Records will be maintained by a designated TPE field employee for each sample: site identification, sampling location, station number, date, time, sampler's name, designation of the sample as a grab or composite, notation of the type of sample (e.g., groundwater, soil boring, etc.), preservatives used, onsite measurement data and other observations or remarks.

APPENDIX C

SITE SAFETY PLAN

**SITE HEALTH AND SAFETY PLAN
TANK PROTECT ENGINEERING OF NORTHERN CALIFORNIA, INC.**

**Site: Mission Valley Rock, Inc.
799 Athenour Way
Sunol, CA 94586**

Project Number: 384

**Original Site Safety Plan: Yes (X) No ()
Plan Prepared by: Tank Protect Engineering
Plan Approved by: Fred Moss, P.E.**

**Revision Number:
Date: 07/08/97
Date: 07/08/97**

Please respond to each item as completely as possible. Where an item is not applicable, please mark "N/A".

1. KEY PERSONNEL AND RESPONSIBILITIES

Project Manager:	Fred Moss, P.E. (510) 429-8088
Site Safety Manager:	Fred Moss, P.E. (510) 429-8088
Alternate Site Safety Manager:	
Field Team Members:	To be determined

Agency Reps: Please specify by one of the following symbols: Federal: (F), State: (S), Local: (L), Contractor(s): (C)

**(L) Alameda County Health Care Services Agency: (510) 567-6700
(L) Alameda County Fire Department: (510) 670-5853**

**SITE HEALTH AND SAFETY PLAN
TANK PROTECT ENGINEERING OF NORTHERN CALIFORNIA, INC.**

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Site Safety Manager:	Fred Moss, P.E. (510) 429-8088
Alternate Site Safety Manager:	
Field Team Members:	To be determined

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**(L) Alameda County Health Care Services Agency: (510) 567-6700
(L) Alameda County Fire Department: (510) 670-5853**

2. JOB HAZARD ANALYSIS

2.1 OVERALL HAZARD EVALUATION

Hazard Level: High () Moderate () Low (X) Unknown ()
Hazard Type: Liquid (X) Solid () Sludge () Vapor/Gas (X)

Known or suspected hazardous materials present on site

Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)

Characteristics of hazardous materials included above (complete for each chemical presents):

MATERIAL #1

Corrosive ()	Ignitable (X)	Toxic (X)	Reactive ()
Volatile (X)	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation (X)	Ingestion (X)	Contact (X)

MATERIAL #2

Corrosive ()	Ignitable ()	Toxic ()	Reactive ()
Volatile ()	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation ()	Ingestion ()	Contact ()

MATERIAL #3

Corrosive ()	Ignitable ()	Toxic ()	Reactive ()
Volatile ()	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation ()	Ingestion ()	Contact ()

MATERIAL #4

Corrosive ()	Ignitable ()	Toxic ()	Reactive ()
Volatile ()	Radioactive ()	Biological Agent ()	
Exposure Routes:	Inhalation ()	Ingestion ()	Contact ()

2.2 JOB-SPECIFIC HAZARDS

For each labor category specify the possible hazards based on information available (i.e., Task-driller, Hazards-trauma from drill rig accidents, etc.). For each hazard, indicate steps to be taken to minimize the hazard.

To prevent accidents-wear hard hat, gloves, steel-toed boots.

The following additional hazards are expected on site (i.e., snake infested area, extreme heat, etc.):

Temporary open boreholes.

Measures to minimize the effects of the additional hazards are:

Protect with barricades, caution tape, or traffic cones when unattended.

3. MONITORING PLAN

3.1 (a) Air Monitoring Plan

Action levels for implementation of air monitoring. Action levels should be based on published data available on contaminants of concern. Action levels should be set by persons experienced in industrial hygiene.

Level (i.e., .5 ppm)	Action Taken (i.e., commence perimeter monitoring)
5 ppm	Cease work and commence perimeter monitoring until contamination disperses.

(b) Air Monitoring Equipment

Outline the specific equipment to be used, calibration method, frequency of monitoring, locations to be monitored, and analysis of samples (if applicable).

Gastech, Inc., Trace-Techtor, hexane calibration. Monitor at borehole during each sampling event if vapors detected.

If air monitoring is not to be implemented for this site, explain why:

N/A

3.2 Personnel Monitoring

(Include hierarchy of responsibilities decision making on the site)

Site safety manager to make decision.

3.3 Sampling Monitoring

(a) Techniques used for sampling: **Sample air at borehole.**

(b) Equipment used for sampling: **Gastech, Inc., Trace-Techtor.**

(c) Maintenance and calibration of equipment: **Calibrate to hexane prior to operation.**

4. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Equipment used by employees for the site tasks and operations being conducted. Be Specific (i.e., hard hat, impact resistance goggles, other protective glove, etc.).

Hard hat, protective gloves (when necessary), steel-toed boots.

5. SITE CONTROL AND SECURITY MEASURES

The following general work zone security guidelines should be implemented:

- Work zone shall be delineated with traffic cones.
- Boreholes shall be delineated with traffic cones when drilling and sampling activities are not actually taking place.
- Visitors will not be allowed to enter the work zone unless they have attended a project safety briefing.

6. DECONTAMINATION PROCEDURE

List the procedures and specific steps to be taken to decontaminate equipment and PPE.

Wash equipment with a trisodium phosphate/tap water solution and rinse with clean tap water.

7. TRAINING REQUIREMENTS

Prior to mobilization at the job site, employees will attend a safety briefing. The briefing will include the nature of the wastes and the site, donning personal protection equipment, decontamination procedures and emergency procedures.

Supervisory and key contractor personnel will take an instruction course and pass an airports operations test.

8. MEDICAL SURVEILLANCE REQUIREMENTS

If any task requires a very high personnel protection level (OSHA Level A or B), personnel shall provide assurances that they have received a physical examination and they are fit to do the task. Also personnel will be instructed

to look for any symptom of heat stress, heat stroke, heat exhaustion or any other unusual symptom. If there is any report of that kind it will be immediately followed through, and appropriate action will be taken.

9. STANDARD OPERATION PROCEDURES

Tank Protect Engineering of Northern California, Inc. (TPE) is responsible for the safety of all TPE employees on site. Each contractor shall provide all the equipment necessary to meet safe operation practices and procedures for their personnel on site and be responsible for the safety of their workers.

A "Three Warning" system is utilized to enforce compliance with Health and Safety procedures practices which will be implemented at the site for worker safety:

- * Eating, drinking, chewing gum or tobacco, and smoking will be allowed only in designated areas.
- * Wash facilities will be utilized by workers in the work areas before eating, drinking, or use of the toilet facilities.
- * Containers will be labeled identifying them as waste, debris or contaminated clothing.
- * All excavation/drilling work will comply with regulatory agency requirements.
- * All site personnel will be required to wear hard hats and advised to take adequate measures for self protection.
- * Any other action which is determined to be unsafe by the site safety officer.

10. CONFINED SPACE ENTRY PROCEDURES

No one is allowed to enter any confined space operation without proper safety measures. Specifically in case of an excavated Tank Pit no one should enter at any time.

11. EMERGENCY RESPONSE PLAN

Fire extinguisher(s) will be on site prior to excavation. Relevant phone numbers:

Person	Title	Phone No.
<u>Fred Moss, P.E.</u>	Project Manager	(510) 429-8088
_____	Fire	911 or _____
_____	Police	911 or _____
_____	Ambulance	911 or _____
_____	Poison Control Center	(800) 523-2222
_____	Nearest off-site no.	_____
<u>Kaiser Hospital</u>	Medical Advisor	(510) 795-3444
<u>Mr. Mort Calvert</u>	Client Contact	(510) 862-2257
U.S EPA - ERT _____		(201) 321-6660
Chemtrec _____		(800) 424-9300
Centers for Disease Control _____	Day	(404) 329-3311
	Night	(404) 329-2888
National Response Center _____		(800) 424-8802
Superfund/RCRA Hotline _____		(800) 424-8802
TSCA Hotline _____		(800) 424-9065
National Pesticide Information Services _____		(800) 845-7633
Bureau of Alcohol, Tobacco, and Firearms _____		(800) 424-9555

HEALTH AND SAFETY COMPLIANCE STATEMENT

I, _____, have received and read a copy of the project Health and Safety Plan.

I understand that I am required to have read the aforementioned document and have received proper training under the occupational Safety and Health Act (29 CFR, Part 1910.120) prior to conducting site activities at the site.

Signature

Date

Signature

Date

Nearest Hospital:

Kaiser Hospital
39400 Paseo Padre Parkway
Fremont, CA 94538
Emergency (510) 795-3444
Gen. Info. (510) 795-3000

Directions From Site:

Drive 680 towards San Jose, exit Mission Blvd. Turn right onto Mission Blvd. Proceed on Mission Blvd. to Walnut. Turn left onto Walnut. Proceed on Walnut to Paseo Padre Parkway. Look for the hospital on the left side at corner of Walnut and Paseo Padre Parkway.

TABLE 3
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
(ppm¹)

Sample ID Name	Date	Depth (Feet)	TPHG	TPHD	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
MW-1	06/18/98	15.0-15.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
MW-2	06/18/98	10.0-10.5	<1.0	14	<0.005	<0.005	<0.005	<0.005	<0.05
MW-3	06/18/98	20.0-50.5	<1.0	18	<0.005	<0.005	<0.005	<0.005	<0.05

PARTS PER MILLION

TABLE 2
SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC ¹ (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)
MW-1	06/23/98	1.32	ND ²	---
MW-2	06/23/98	1.72	1.715	005
MW-3	06/23/98	2.66	ND	---

TOP-OF-CASING.
NOT DETECTED.

TABLE 1
GROUNDWATER ELEVATION

Well Name	Elevation TOC ¹ (Feet MSL ²)	Date	Depth-to-Water From TOC	Groundwater Elevation (Feet MSL)
MW-1	256.51 ²	06/23/98	1.32	255.19
MW-2	256.70 ²	06/23/98	1.72	254.98
MW-3	256.72 ²	06/23/98	2.66	254.06

OF-CASING

SURVEYED 10/09/98 BY PROFESSIONAL ENGINEER.

ELEVATION BASED ON ONSITE BENCHMARK ELEVATION 257.10,

NATIONAL GEODETIC VERTICAL DATUM (NGVD), ESTABLISHED 1929.

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
(ppm¹)

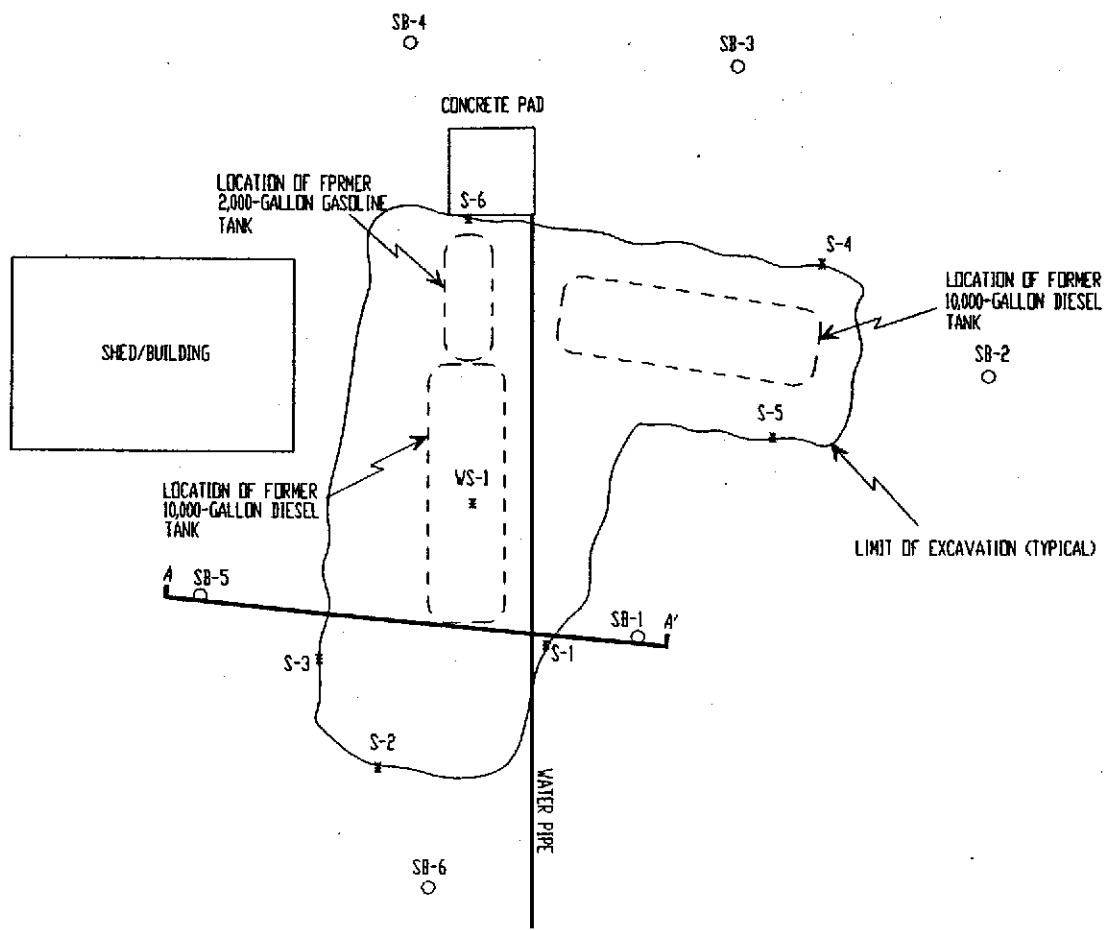
Sample ID Name	Date	Depth (Feet)	TPHG	TPHD	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SB-4	01/15/97	10.0-10.5	2.6	180	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	01/15/97	6.0-6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	01/15/97	11.0-11.5	110	<1.0	0.55	0.50	0.69	0.38	<0.05
SB-6	01/15/97	6.0-6.5	160	2,500	<0.005	<0.005	<0.005	0.32	<0.05
SB-6	01/15/97	10.0-10.5	5.4	160	<0.005	<0.005	<0.005	<0.005	<0.05

¹ PARTS PER MILLION

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
(ppm¹)

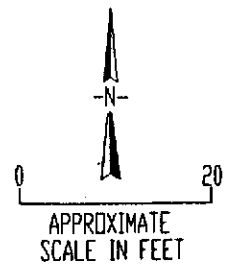
Sample ID Name	Date	Depth (Feet)	TPHG	TPHD	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
S-1	06/18/96	13.5-14.0	170	<1.0	0.065	0.075	0.14	0.23	<0.005
S-2	06/18/96	13.0-13.5	<1.0	<1.0	<.0050	<.0050	<.0050	<.0050	<0.005
S-3	06/18/96	12.5-13.0	16	<1.0	0.0061	0.0071	0.027	0.047	<0.005
S-4	06/18/96	12.0-12.5	790	12	1.1	2.8	4.4	14	<0.005
S-5	06/18/96	12.0-12.5	130	450	0.6	0.21	0.7	28	<0.005
S-6	06/18/96	9.0-9.5	670	49	0.26	0.077	0.2	0.44	<0.005
SP1-A,B,C,D	06/18/96	2.0-2.5	160	150	0.033	0.028	0.13	0.19	<0.005
SP2-A,B,C,D	06/18/96	2.0-2.5	4.5	90	0.0096	<0.005	0.014	0.058	<0.005
SP3-A,B,C,D	06/18/96	2.0-2.5	49	39	0.021	0.023	0.12	0.13	<0.005
SP4-A,B,C,D	06/18/96	2.0-2.5	280	16	0.53	0.019	2.1	3.3	<0.005
SP5-A,B,C,D	06/26/96	2.0-2.5	47	45	0.35	0.13	0.53	1.6	<0.005
SB-1	01/15/97	6.0-6.5	<1.0	56	<0.005	<0.005	<0.005	<0.005	0.062
SB-1	01/15/97	10.0-10.5	230	220	1.9	1.0	12	5.0	<0.05
SB-2	01/15/97	6.0-6.5	<1.0	25	<0.005	<0.005	0.0072	<0.005	<0.05
SB-2	01/15/97	10.0-10.5	<1.0	42	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	01/15/97	6.0-6.5	<1.0	120	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	01/15/97	10.0-10.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-4	01/15/97	6.0-6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05

← borings



LEGEND

- S-1 NAME AND LOCATION OF SOIL SAMPLE
- * SOIL SAMPLE
- SB-1 SOIL BORING LOCATIONS
- o SOIL BORING LOCATIONS
- A A' LOCATION OF GEOLOGIC CROSS SECTION



TANK PROTECT ENGINEERING

SITE PLAN:
LOCATION OF CROSS SECTION A-A'

MISSION VALLEY ROCK
799 ATHENOUR WAY
SUNOL, CA 94586

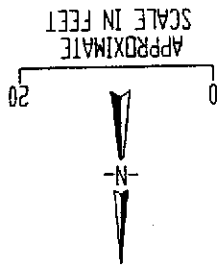
DATE	3/3/97
FIGURE	3
FILE #	384-3N
DRAWN BY	VK
CHECKED BY	LNH

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
(ppm¹)

Sample ID Name	Date	Depth (Feet)	TPHG	TPHD	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
S-1	06/18/96	13.5-14.0	170	<1.0	0.065	0.075	0.14	0.23	<0.005
S-2	06/18/96	13.0-13.5	<1.0	<1.0	<.0050	<.0050	<.0050	<.0050	<0.005
S-3	06/18/96	12.5-13.0	16	<1.0	0.0061	0.0071	0.027	0.047	<0.005
S-4	06/18/96	12.0-12.5	790	12	1.1	2.8	4.4	14	<0.005
S-5	06/18/96	12.0-12.5	130	450	0.6	0.21	0.7	28	<0.005
S-6	06/18/96	9.0-9.5	670	49	0.26	0.077	0.2	0.44	<0.005
SP1-A,B,C,D	06/18/96	2.0-2.5	160	150	0.033	0.028	0.13	0.19	<0.005
SP2-A,B,C,D	06/18/96	2.0-2.5	4.5	90	0.0096	<0.005	0.014	0.058	<0.005
SP3-A,B,C,D	06/18/96	2.0-2.5	49	39	0.021	0.023	0.12	0.13	<0.005
SP4-A,B,C,D	06/18/96	2.0-2.5	280	16	0.53	0.019	2.1	3.3	<0.005
SP5-A,B,C,D	06/26/96	2.0-2.5	47	45	0.35	0.13	0.53	1.6	<0.005

¹ PARTS PER MILLION

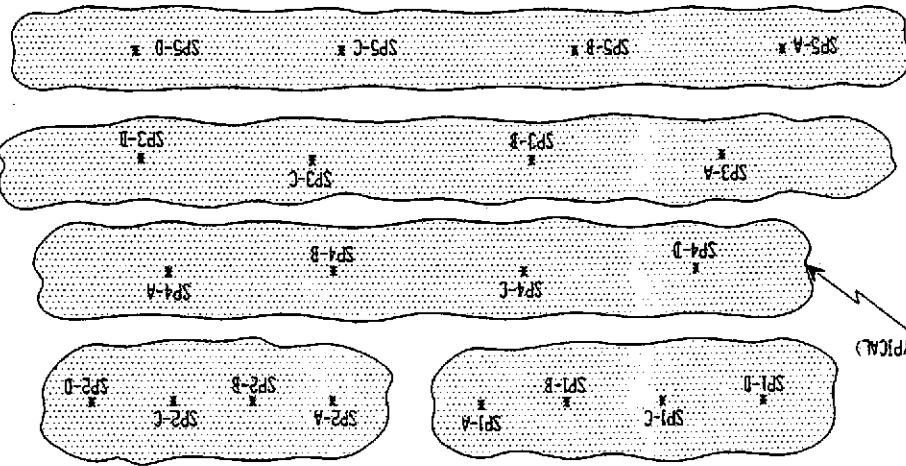
DATE	7/9/96	MISSION VALLEY ROCK 799 ATHENOUR WAY SUNOLE, CA 94586
FIGURE #	2	
FILE #	384-IN	
DRAWN BY	VX	
CHECKED BY	LT III	



SITE PLAN

TANK PROTECT ENGINEERING

LEGEND



SOIL STOCKPILE (TYPICAL)

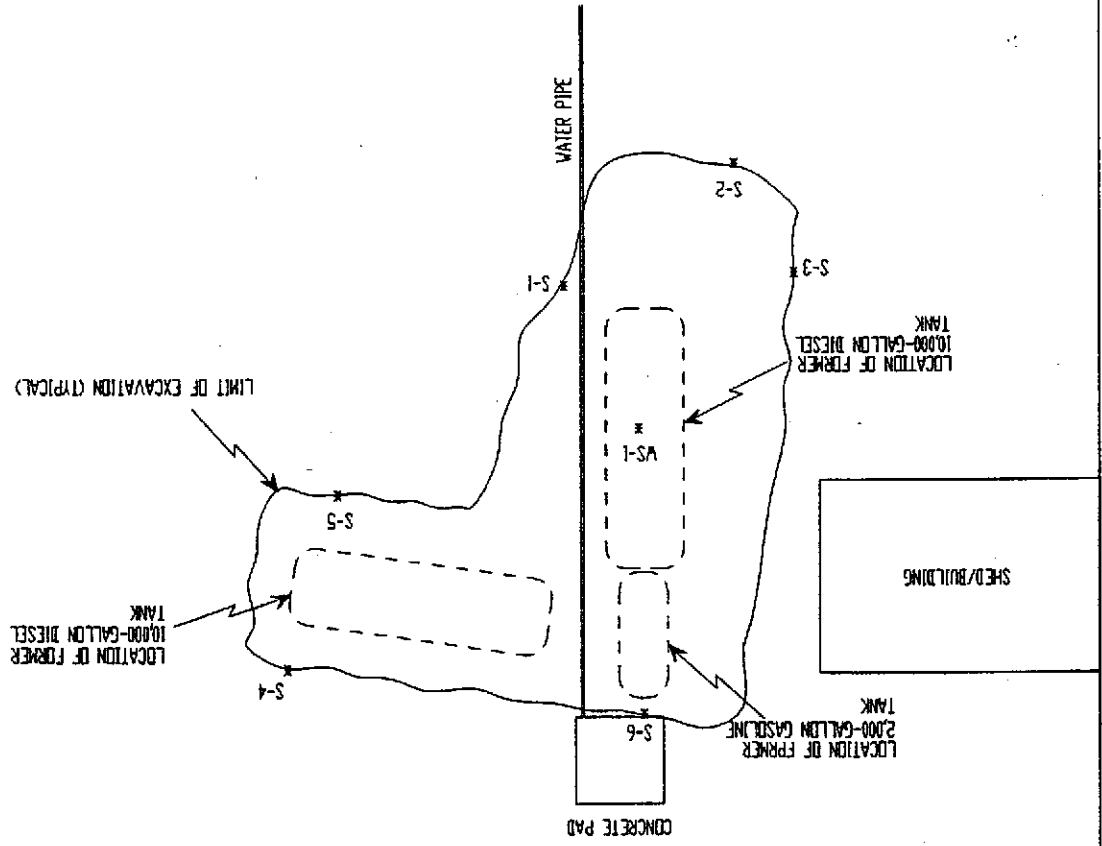


TABLE 2
 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

~~(ppb)~~ ppm

Sample ID Name	Date	DEPTH (FEET)	TPHG	TPHD	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
WS-1	06/18/96	10.0-10.5	12	1.2	0.035	0.026	0.029	0.072	<0.0005

¹ PARTS PER ~~BILLION~~

million