

# MISSION VALLEY / ROCK COMPANY ASPHALT COMPANY READY MIX COMPANY

7999 ATHENOUR WAY SUNOL, CA 94586 (925) 862-2257

March 31, 1999

Mr. Scott Seery  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway Suite 250  
Alameda, CA 94502-6577

Dear Mr. Seery:

Submitted herewith is the fourth quarter prepared by Mission Valley Rock Company's consultant, Tank Protect Engineering. If you require further information or clarification please direct your correspondence to Tank Protect with a copy to Mission Valley Rock Company at the above address.

Thank You,  
MISSION VALLEY ROCK CO.



W.M. Calvert

RECEIVED  
TANK PROTECT  
99 APR -5 PM 10:01



MAR 19 1999

February 24, 1999

Mr. Mort Calvert  
Mission Valley Rock  
799 Athenour Way  
Sunol, CA 94586

Re: Fourth Quarter Report, 1998, Mission Valley Rock, 799 Athenour Way, Sunol,  
CA 94586

Dear Mr. Calvert:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this quarterly letter report of environmental services conducted at the subject site. Work conducted prior to the Fourth quarter 1998, is documented in TPE's December 17, 1997 October 30, 1998 Preliminary Site Assessment Report, Mission Valley Rock, 799 Athenour Way, Sunol, CA 94586.

Work Conducted By TPE During the Fourth Quarter, 1998:

- January 5, 1999 - Loosened well caps on all wells to allow depth-to-groundwater to stabilize to atmospheric pressure for groundwater gradient determination. Measured depth-to-groundwater in monitoring wells MW-1 through MW-3 for evaluation of groundwater flow direction and gradient. Collected a groundwater sample from each well for analysis for total petroleum hydrocarbons as diesel (TPHD) and gasoline (TPHG) along with methyl t-butyl ether, benzene, toluene, ethylbenzene, and xylenes (MBTEX).

Details of the above work are presented below.

### Groundwater Gradient

On January 5, 1999, depth-to-groundwater was measured from top of casing (TOC) in wells MW-1 through MW-3 to the nearest 0.01 foot using an electronic Solinst water level meter. A minimum of 3 repetitive measurements were made for each level determination to ensure accuracy. Depth-to-groundwater was subtracted from the TOC elevation, measured relative to mean sea level, to calculate the elevation of the groundwater level in each well (see attached Table 1).

Attached Figure 2 is a groundwater gradient map constructed from the data collected on January 5, 1999; groundwater flow direction was predominantly to the northeast with an average gradient of about 0.23 feet per foot.

Based on the groundwater flow direction for the subject quarter, wells MW-1, and MW-2, are located upgradient, and well MW-3 is downgradient of the location of the former underground fuel tanks.

### Groundwater Sampling and Analytical Results

On January 5, 1999, groundwater samples were collected from monitoring wells MW-1 through MW-3. Before sampling, each well was purged of about 7 to 8.25 gallons of groundwater with a dedicated polyethylene bailer and until the temperature, conductivity and pH of the water in the wells had stabilized (see attached Records of Water Sampling). Because a dedicated bailer was used for each well sampled, no decontamination was necessary between sampling events. The water samples were collected in laboratory-provided, sterilized, 40-milliliter glass vials having Teflon-lined screw caps; measured for turbidity and labeled with project name, date and time collected, sample number and sampler name. The samples were immediately stored on crushed ice for transport to California State Department of Health Services (DHS) certified Priority Environmental Labs, Inc. located in Milpitas, California accompanied by chain-of-custody documentation.

All groundwater samples were analyzed for the following constituents:  
TPHG and MBTEX by Method 5030/8015 and 602, respectively.

TPH-D by US EPA Method 3550/8015.

Each well was checked for floating product using a dedicated, disposable polyethylene bailer. Hydrocarbon odors were noted in wells MW-1, MW-2, and MW-3, and floating product was observed in well MW-2. *How much? Extracted?*

Purge water was stored on site in 55-gallon drums labeled to show material stored, date filled, company name, contact person and telephone number.

See attached protocols for TPE's sample handling, groundwater monitoring well sampling and quality assurance and quality control procedures.

Analytical results for wells MW-1, MW-2, and MW-3, detected TPHD at concentrations of 350 parts per billion (ppb), 38,000 ppb, and 5,600 ppb, respectively. No TPHG was detected; however, some or all BTEX chemicals were detected in wells MW-1, MW-2, and MW-3.

Analytical results are summarized in attached Table 2 and documented in an attached certified analytical report and chain-of-custody.

#### CONCLUSIONS AND RECOMMENDATIONS

Floating product was detected in well MW-2 during the subject quarter.

TPHD was detected in all wells ranging from 350 ppb to 38,000 ppb in wells MW-1, MW-2, and MW-3; however, some or all BTEX chemicals were detected. MTBE was detected in MW-3 at a concentration of 110 ppb.

TPHD and MBTEX levels were generally in higher concentrations during this subject quarter. Figure 3 presents concentration contour maps for diesel.

TPE recommends that all wells continue to be monitored for floating product, sheen and odors.

TPE recommends continued quarterly groundwater sampling to evaluate gradient and to monitor contaminant concentrations.

The next sampling event is due in March, 1999.

Two additional copies of this letter report have been included for your delivery to:

Mr. Scott Seery  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

California Regional Water Quality Control Board  
San Francisco Bay Region  
Toxics Cleanup Division  
2101 Webster Street, Suite 500  
Oakland, CA 94612

TPE recommends that this quarterly letter report be submitted with a cover letter from Mission Valley Rock. According to Alameda County Water District (ACWD) groundwater monitoring guidelines, the cover letter must be signed by an authorized representative and state, at a minimum, the following:

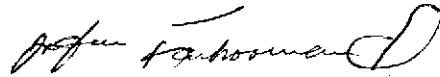
"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct."

If you have any questions, please call TPE at (510) 429-8088.

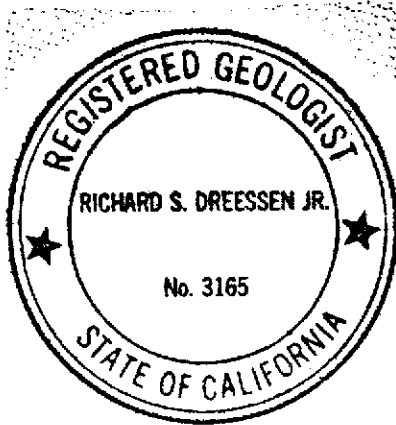
Sincerely,

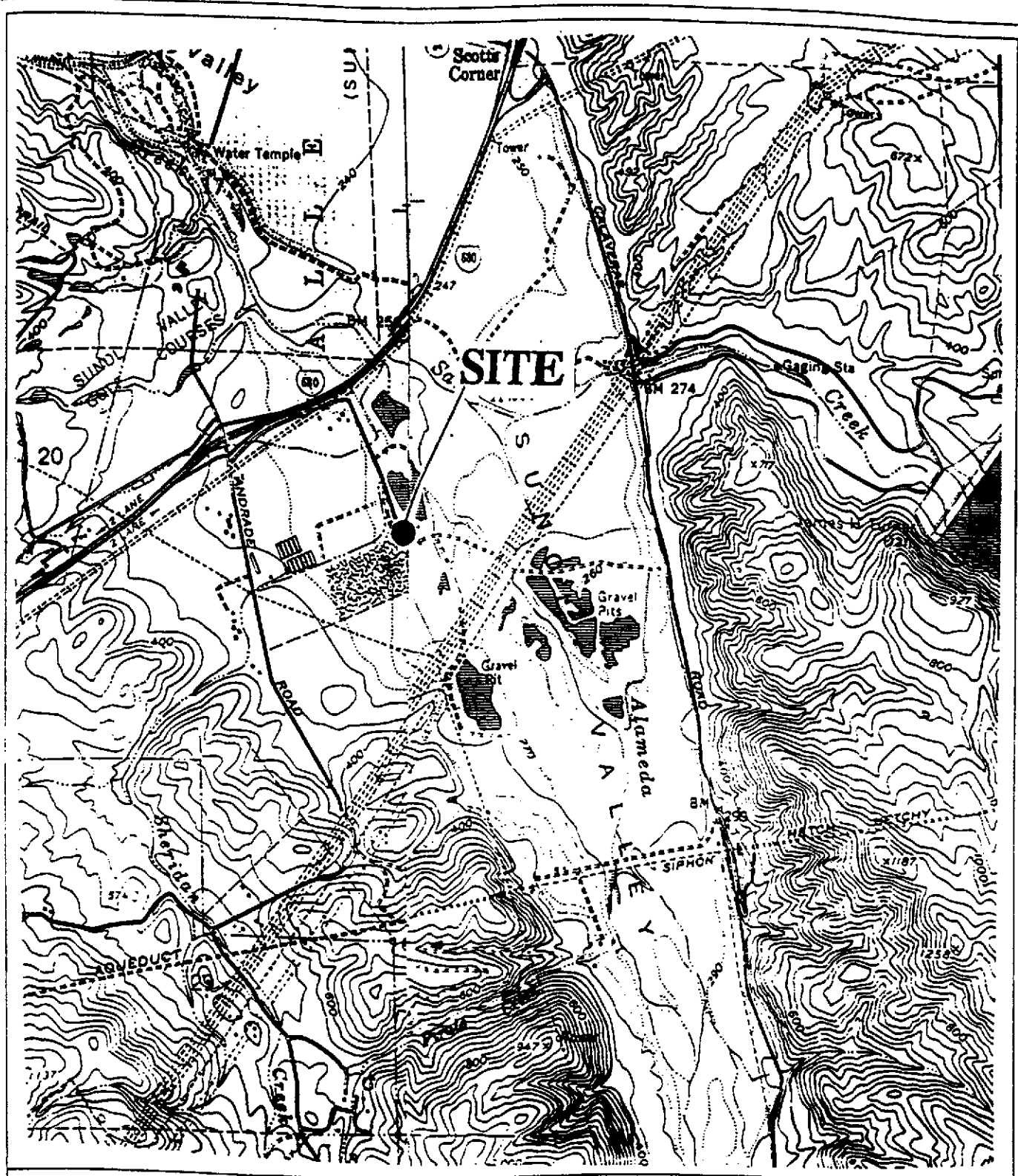


Richard S. Dreessen Jr.  
Registered Geologist



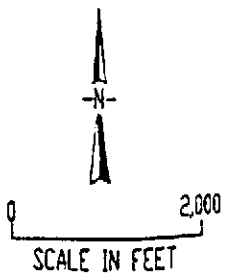
Jeff Farhoomand, M.S.  
Principal Engineer





**LEGEND**

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

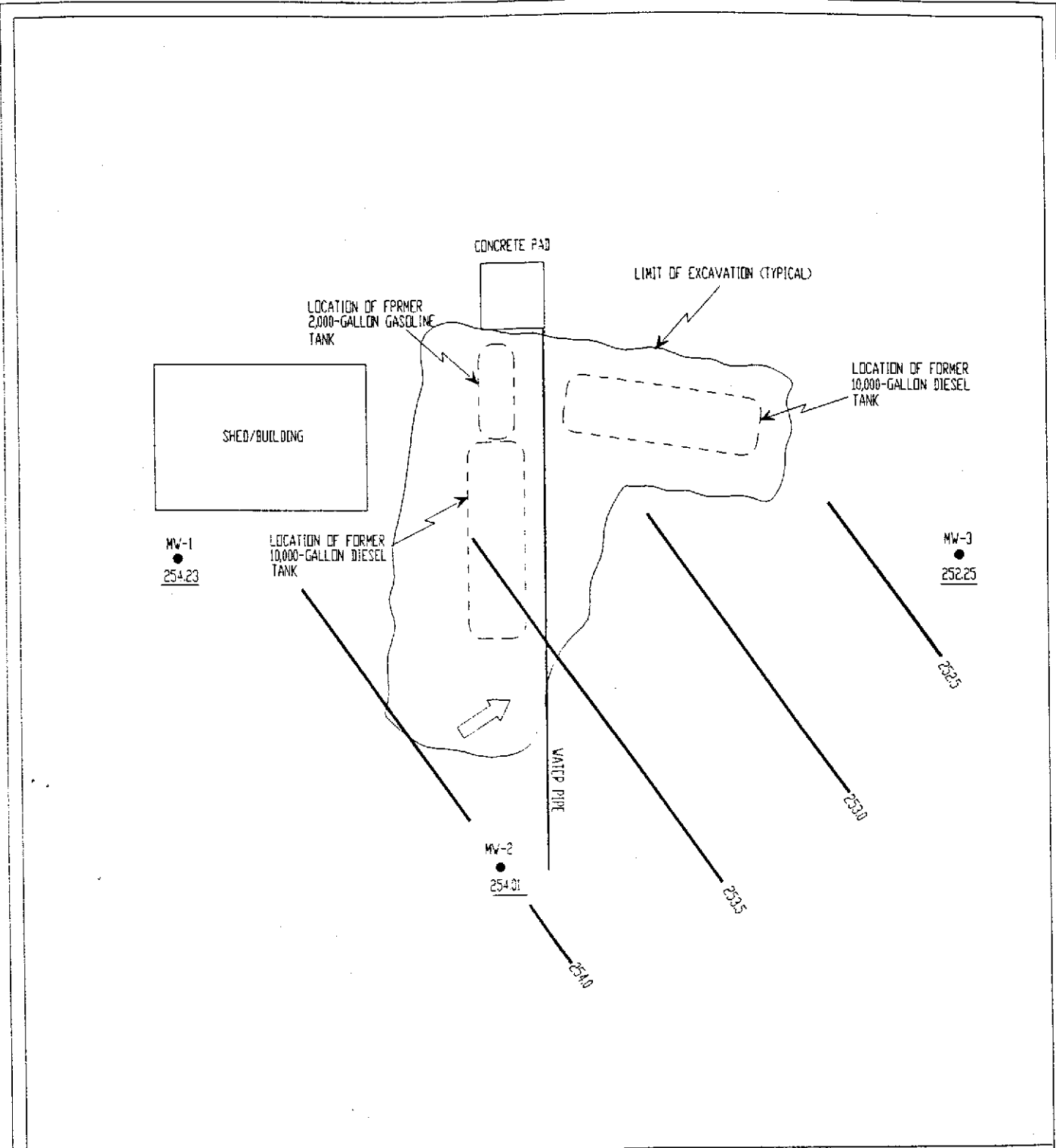


**TANK PROTECT ENGINEERING**

**SITE VICINITY MAP**

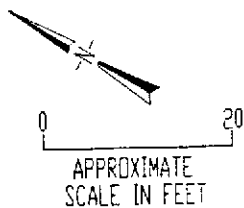
MISSION VALLEY RECK  
 799 ATHENOUR WAY  
 SUNOL, CA 94586

DATE	08/03/98
FIGURE	1
FILE #	384-IN
DRAWN BY	YK
CHECKED BY	RD



LEGEND

- MW-1 ● GROUNDWATER MONITORING WELL LOCATIONS
- 254.23 POTENTIOMETRIC ELEVATION
- 254.0 POTENTIOMETRIC CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION



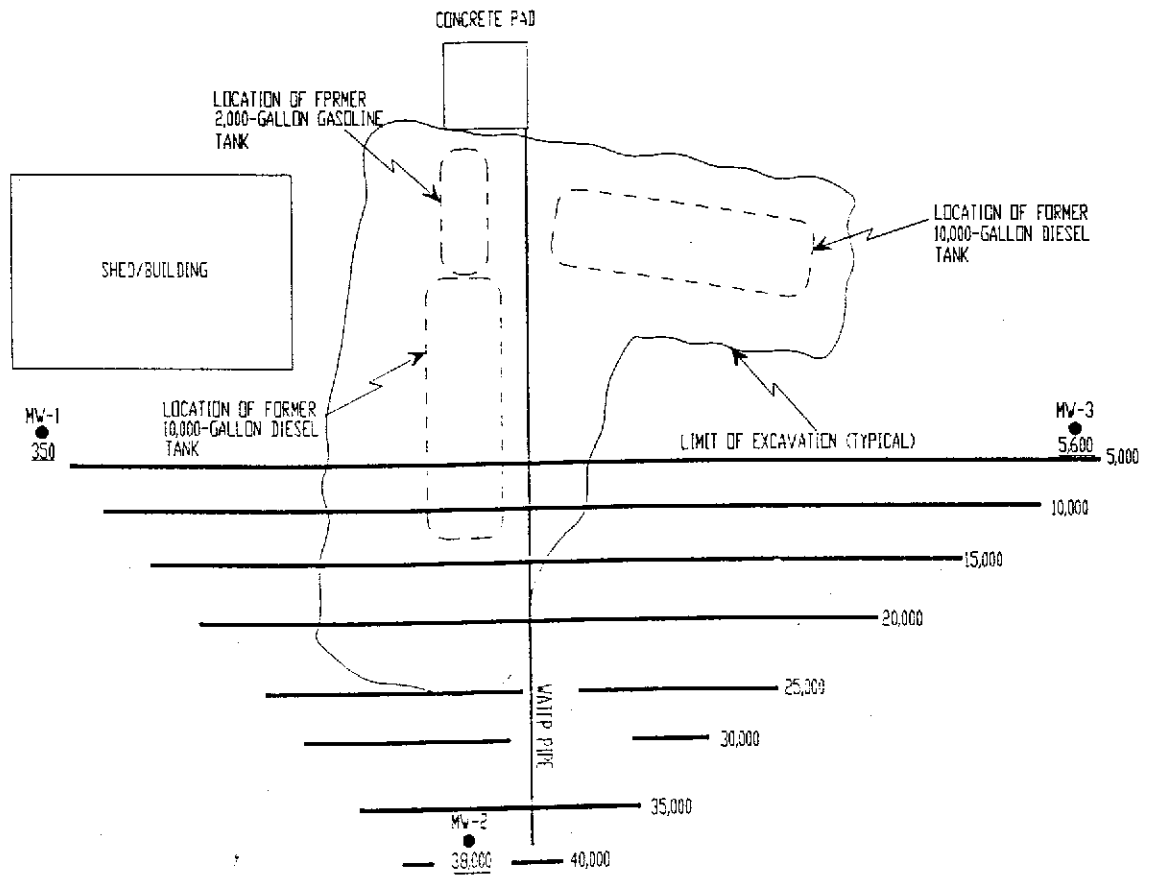
TANK PROTECT ENGINEERING

SITE PLAN:  
GROUNDWATER ELEVATION AND GRADIENT MAP (01/05/99)

MISSION VALLEY ROCK  
799 ATHENOUR WAY  
SUNOL, CA 94586

DATE	02/23/99
FIGURE	2
FILE #	384-2T
DRAWN BY	VK
CHECKED BY	RD

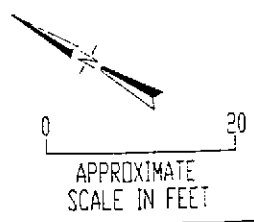




LEGEND

MW-1 ● GROUNDWATER MONITORING WELL LOCATIONS

350 CONCENTRATION (ppm)



TANK PROTECT ENGINEERING

SITE PLAN:  
TPHD CONCENTRATIONS

MISSION VALLEY ROCK  
799 ATHENDOUR WAY  
SUNOL, CA 94586

DATE	02/23/99
FIGURE	3
FILE #	384-031
DRAWN BY	VK
CHECKED BY	RD

TABLE 1  
GROUNDWATER ELEVATION

Well Name	Elevation TOC <sup>1</sup> (Feet MSL <sup>2</sup> )	Date	Depth-to-Water From TOC	Groundwater Elevation (Feet MSL)
MW-1	256.51 <sup>2</sup>	06/23/98	1.32	255.19
		01/05/99	2.28	254.23
MW-2	256.70 <sup>2</sup>	06/23/98	1.72	254.98
		01/05/99	2.69 <sup>3</sup>	254.01
MW-3	256.72 <sup>2</sup>	06/23/98	2.66	254.06
		01/05/99	4.47	252.25

<sup>1</sup> TOP-OF-CASING

<sup>2</sup> TOC SURVEYED 10/09/98 BY PROFESSIONAL ENGINEER.  
ELEVATION BASED ON ONSITE BENCHMARK ELEVATION 257.10,  
NATIONAL GEODETIC VERTICAL DATUM (NGVD), ESTABLISHED 1929.

<sup>3</sup> CORRECTED FOR FREE PRODUCT

TABLE 2  
SUMMARY OF FLOATING PRODUCT THICKNESS

Well Name	Date	Depth-to-Water From TOC <sup>1</sup> (Feet)	Depth-to-Product From TOC (Feet)	Product Thickness (Feet)
MW-1	06/23/98	1.32	ND <sup>2</sup>	---
	01/05/99	2.28	ND	---
MW-2	06/23/98	1.72	1.715	.005
	01/05/99	2.69 (5.3 <sup>3</sup> )	1.33	4
MW-3	06/23/98	2.66	ND	---
	01/05/99	4.47	ND	---

<sup>1</sup> TOP-OF-CASING.

<sup>2</sup> NOT DETECTED.

<sup>3</sup> CORRECTED FOR FREE PRODUCT THICKNESS; ACTUAL FIELD MEASUREMENT IN PARENTHESIS

TABLE 3  
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  
(ppb)<sup>1</sup>

Sample ID Name	Date	TPHD	TPHG	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes
MW-1	06/23/98	<1.0	3,100	110	19	2.3	91	48
	10/08/98	<50	2,300	<0.50	3.1	4.2	5.0	15
	12/01/98	350	<50	<5.0	12	7.5	20	6.2
MW-2	06/23/98	12,000	2,500	14	0.68	<0.50	1.2	0.57
	10/08/98	4,300	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/01/98	38,000	<5,000	<500	<0.50	<0.50	<0.50	<0.50
MW-3	06/23/98	12,000	300	150	0.80	<0.50	<0.50	<0.50
	10/08/98	6,400	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/01/98	5,600	<100	110	1.6	1.4	<1.0	<1.0
MW-4	06/23/98	NA <sup>2</sup>	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50
	10/08/98	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/01/98	NA	NA	NA	<0.50	<0.50	<0.50	<0.50

<sup>1</sup> PARTS PER BILLION

<sup>2</sup> NOT ANALYZED

# SAMPLING DATA SHEET

JOB #: 354

JOB LOCATION: X Mission Valley Park  
700 Atherton Way / San Jose

DATE PURGED: Dec 98 5 Jan 99

PURGE METHOD: Hand Bail

SAMPLING LOCATION: **MW-1**

DATE & TIME SAMPLED: Dec 98 5 Jan 99

SAMPLING METHOD: Disposable Bottle

DEPTH TO WATER: 2.28' toe (c. 256.5')

SAMPLE TYPE:  GRAB  COMPOSITE

WELL BOTTOM DEPTH: 18.16' toe

PRESERVATIVES: None

WELL CASING VOLUME (2"  $\phi$ ): 7.54 gal @ 7.02'

# OF CONTAINERS: 5

CASING VOLUMES PURGED: 3'

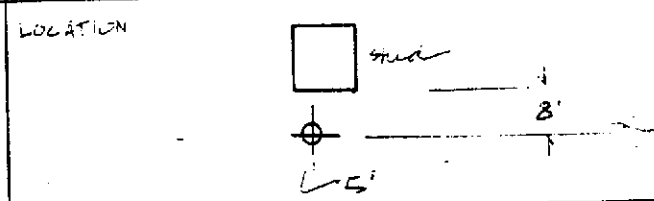
FIELD TECH: JV

PURGE RATE: 0.52 gpm x100

WEATHER CONDITIONS: Sunny & cool - high clouds

TIME (24 hr)	VOLUME REMOVED (gal)	ELECTRICAL CONDUCTIVITY ( $\mu$ mhos/cm)	PH	TEMPERATURE ( $^{\circ}$ f)	TURBIDITY (ntu)
3:50 (15:50)	0.25	10.58	*	56.1	Clear
3:55 (15:55)	2.50	10.22	*	57.2	lt gray sl. turbid
4:00 (16:00)	5.00	10.05	*	57.8	"
4:05 (16:05)	7.5	10.00	*	56.7	"
	IS	Sample in well MW-1			

NOTES: PHc odor - no smell  
 \* pH function non operational



# SAMPLING DATA SHEET

JOB #: 384

JOB LOCATION: Missouri Valley Park  
709 Atkinson Way / Seward

DATE PURGED: Dec 48 6 Jan 99

PURGE METHOD: Hand Pump

SAMPLING LOCATION: **MW-2**

DATE & TIME SAMPLED: Dec 48 5 Jan 99

SAMPLING METHOD: Proprietary Bailer

DEPTH TO WATER: 2.0' (5.33' toe (0.256' 40))

SAMPLE TYPE:  GRAB  COMPOSITE

WELL BOTTOM DEPTH: 19.16' toe

PRESERVATIVES: None

WELL CASING VOLUME: 2.74 x 3 = 8.22

# OF CONTAINERS: 5

CASING VOLUMES PURGED: 3

FIELD TECH: [Signature]

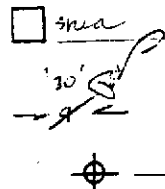
PURGE RATE: 0.38 gpm

WEATHER CONDITIONS: Sunny & cool w/ high clouds

TIME (24 hr)	VOLUME REMOVED (gal)	ELECTRICAL CONDUCTIVITY (µmhos/cm)	PH	TEMPERATURE (°F)	TURBIDITY (ntu)
2 <sup>25</sup> (14 <sup>25</sup> )	0.75 0.75*	9.02	5.29	60.5	clear*
2 <sup>33</sup> (14 <sup>33</sup> )	2.50	17.18	5.29	63.3	"
2 <sup>40</sup> (14 <sup>40</sup> )	5.00 5.00	11.79	5.00	63.6	"
2 <sup>48</sup> (14 <sup>48</sup> )	8.00	11.86	5.58	61.8	"
	8.22	Sampled & analyzed MW-2			

NOTES: 3' free product - 1st bailer - 2' free product - 2nd bailer

LOCATION



\* w/ bubbles - no bubbles f.p.  
 \* Adjusted for f.p. (5' x 0.00)

# SAMPLING DATA SHEET

JOB #: 324

JOB LOCATION: Missouri Valley Park  
790 Athenwood Way / Sewel

DATE PURGED: Dec 98 - 5 Jan 99

SAMPLING LOCATION: **MW-3**

PURGE METHOD: Hand Bail

DATE & TIME SAMPLED: Dec 98 5 Jan 99

SAMPLING METHOD: Disposable Bail

DEPTH TO WATER: 4.7' toe (c. 250.7')

SAMPLE TYPE:  GRAB  COMPOSITE

WELL BOTTOM DEPTH: 18.70' toe

PRESERVATIVES: None

WELL CASING VOLUME: 2.3 x 3 = 6.9 gal

# OF CONTAINERS: 5

CASING VOLUMES PURGED: 3

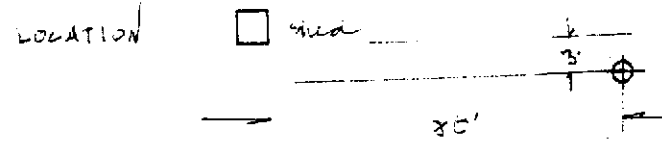
FIELD TECH: [Signature]

PURGE RATE: 0.47 gpm x 100

WEATHER CONDITIONS: Sunny + cool w/ high clouds

TIME (24 hr)	VOLUME REMOVED (gal)	ELECTRICAL CONDUCTIVITY (μmhos/cm)	PH	TEMPERATURE (°F)	TURBIDITY (ntu)
1:10 (13:10)	0.25	10.55	6.74	62.2	1/2 grey sl. turb.
1:15 (13:15)	2.25	10.31	6.46	60.5	1/2 grey turbid
1:20 (13:20)	4.50	10.60	6.33	60.5	"
1:25 (13:25)	6.75	10.63	6.13	59.8	"
	7.5	Sum of all MW-3			

NOTES: the odor - strong



## GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

Groundwater monitoring wells will not be sampled until at least 24 to 72 hours (according to local regulatory guidelines) after well development. Groundwater samples will be obtained using a bladder pump, clear Teflon bailer or dedicated polyethylene bailer. Prior to collecting samples, the sampling equipment will be thoroughly decontaminated to prevent introduction of contaminants into the well and to avoid cross-contamination. Monitoring wells will be sampled after 3 to 10 wetted casing volumes of groundwater have been evacuated and pH, electrical conductivity and temperature have stabilized as measured with a Hydac Digital Tester. If the well is emptied before 3 to 10 well volumes are removed, the sample will be taken when the water level in the well recovers to 80% or more of its initial water level.

When a water sample is collected, turbidity of the water will be measured and recorded with a digital turbidimeter. Degree of turbidity will be measured and recorded in nephelometric turbidity units (NTU).

TPE will also measure the thickness of any floating product in the monitoring wells using an interface probe or clear Teflon or polyethylene bailer. The floating product will be measured after well development but prior to the collection of groundwater samples. If floating product is present in the well, TPE will recommend to the client that product removal be commenced immediately and reported to the appropriate regulatory agency.

Unless specifically waived or changed by the local, prevailing regulatory agency, water samples will be handled and preserved according to the latest United States Environmental Protection Agency methods as described in the Federal Register (Volume 44, No. 233, Page 69544, Table II) for the type of analysis to be performed.



Development and/or purge water will be stored on site in labeled containers. The disposal of the containers and development and/or purge water is the responsibility of the client.

### MEASUREMENTS

Purged Water Parameter: During purging, discharged water will be measured for the following parameters.

<u>Parameter</u>	<u>Units of Measurement</u>
pH	None
Electrical Conductivity	Micromhos
Temperature	Degrees F or C
Depth to Water	Feet/Hundredths
Volume of Water Discharged	Gallons
Turbidity	NTU

Documentation: All parameter measurements will be documented in writing on TPE development logs.

## QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits and proper sample preservation and holding times also provide assurance of accurate analytical data.

TPE will follow a quality assurance and quality control (QA/QC) program in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

Field Samples: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged and sealed in the same manner as the other samples. One trip blank will be used for each sample set of less than 20 samples. At least 5% blanks will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water

sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels. Full documentation of these collection and decoy procedures will be made in the site log book.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory QA/QC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

The QA/QC program describes methods for performing QC tests. These methods involve analyzing method blanks, calibration standards, check standards (both independent and the United States Environmental Protection Agency-certified standards), duplicates, replicates and sample spikes. Internal QC also requires adherence to written methods, procedural documentation and the observance of good laboratory practices.

# CHROMALAB, INC.

Environmental Services (SDB)

January 12, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

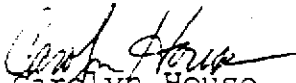
Project#: 384

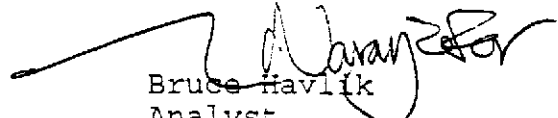
re: 1 sample for TPH - Diesel analysis.  
Method: EPA 8015M

Sampled: December 1, 1998      Matrix: WATER      Extracted: January 7, 1999  
Run#: 16854      Analyzed: January 8, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
223868	MW-1	350	50	N.D.	94.0	1

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.

  
Carolyn House  
Analyst

  
Bruce Havlik  
Analyst

# CHROMALAB, INC.

Environmental Services (SDB)

January 12, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

Project#: 384

re: 1 sample for TPH - Diesel analysis.  
Method: EPA 8015M

Sampled: December 1, 1998

Matrix: WATER  
Run#: 16854

Extracted: January 7, 1999  
Analyzed: January 11, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
223869	MW-2	38000	2500	N.D.	94.0	50

Note: Surrogate diluted out.

  
Carolyn House  
Analyst

Bruce Havlik  
Analyst

# CHROMALAB, INC.

Environmental Services (SDB)

January 12, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

Project#: 384

re: 1 sample for TPH - Diesel analysis.  
Method: EPA 8015M

Sampled: December 1, 1998      Matrix: WATER      Extracted: January 7, 1999  
Run#: 16854      Analyzed: January 9, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
223870	MW-3	5600	500	N.D.	94.0	10

Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.  
Surrogate Recoveries biased high due to Hydrocarbon co-elution.

  
Carolyn House  
Analyst

Bruce Havlik  
Analyst

# CHROMALAB, INC.

Environmental Services (SDB)

January 12, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

Project#: 384

re: One sample for BTEX analysis.  
Method: SW846 8020A Nov 1990

Client Sample ID: MW-4 TRIP

Spl#: 223871

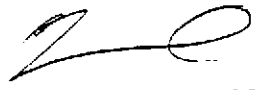
Matrix: WATER

Sampled: December 1, 1998

Run#: 16830

Analyzed: January 6, 1999

<u>ANALYTE</u>	<u>RESULT</u> (ug/L)	<u>REPORTING</u> <u>LIMIT</u> (ug/L)	<u>BLANK</u> <u>RESULT</u> (ug/L)	<u>BLANK</u> <u>SPIKE</u> (%)	<u>DILUTION</u> <u>FACTOR</u>
BENZENE	N.D.	0.50	N.D.	103	1
TOLUENE	N.D.	0.50	N.D.	107	1
ETHYL BENZENE	N.D.	0.50	N.D.	102	1
XYLENES	N.D.	0.50	N.D.	104	1

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

510-2226488&429-8089

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Facsimile (925) 484-1096  
Federal ID #68-0140157

6C V132 O: BTEXCC  
CRA.3

# CHROMALAB, INC.

Environmental Services (SDB)

January 13, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

Project#: 384

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-1

Spl#: 223868

Matrix: WATER


Sampled: December 1, 1998

Run#:16859

Analyzed: January 6, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	108	1
MTBE	N.D.	5.0	N.D.	100	1
BENZENE	12	0.50	N.D.	100	1
TOLUENE	7.5	0.50	N.D.	97	1
ETHYL BENZENE	20	0.50	N.D.	97	1
XYLENES	6.2	0.50	N.D.	97	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 340ug/L.

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

510-2226488&429-8089

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Facsimile (925) 484-1096  
Federal ID #68-0140157

GC V132 O: BTEXGCC  
CRAIG



# CHROMALAB, INC.

Environmental Services (SDB)

January 13, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL Project#: 384  
Received: January 5, 1999

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-2

Spl#: 223869


Matrix: WATER

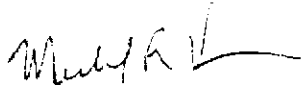
Sampled: December 1, 1998

Run#:16830

Analyzed: January 6, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	5000	N.D.	102	100
MTBE	N.D.	500	N.D.	107	100
BENZENE	N.D.	50	N.D.	103	100
TOLUENE	N.D.	50	N.D.	107	100
ETHYL BENZENE	51	50	N.D.	102	100
XYLENES	190	50	N.D.	104	100

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

510-2226488&429-8089

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Facsimile (925) 484-1096  
Federal ID #68-0140157

GC V132 O: BTEX QCC  
MSOFFICE EXCEL

# CHROMALAB, INC.

Environmental Services (SDB)

January 13, 1999

Submission #: 9901029

TANK PROTECT ENGINEERING

Atten: ROGER POPLER

Project: MISSION VALLEY ROCK/SUNOL  
Received: January 5, 1999

Project#: 384

re: One sample for Gasoline BTEX MTBE analysis.  
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: MW-3

Spl#: 223870

Matrix: WATER

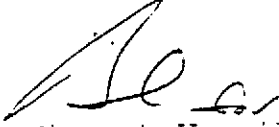
Sampled: December 1, 1998

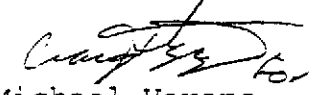
Run#:16859

Analyzed: January 6, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	100	N.D.	108	2
MTBE	110	10	N.D.	100	2
BENZENE	1.6	1.0	N.D.	100	2
TOLUENE	1.4	1.0	N.D.	97	2
ETHYL BENZENE	N.D.	1.0	N.D.	97	2
XYLENES	N.D.	1.0	N.D.	97	2

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 190ug/L.

  
Vincent Vancil  
Analyst

  
Michael Verona  
Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SUBJ #: 9961023 REP: 00  
 CLIENT: TANKPORTCT  
 DUE: 01/12/99  
 REF #: 43956

454 JF  
**Chain of Custody**

DATE: 12-98 PAGE: 1 OF 1

PROJ. MGR Regan Pappas / Jeff E.  
 COMPANY Tank Protect Engineering  
 ADDRESS 2821 Whitaker Rd  
Union City, CA

SAMPLERS (SIGNATURE) \_\_\_\_\_ (PHONE NO.) \_\_\_\_\_  
 \_\_\_\_\_ (510) 429-8088 / (510) 222-7838  
 \_\_\_\_\_ (FAX NO.) \_\_\_\_\_  
 \_\_\_\_\_ (510) 429-8089 / (510) 222-6488

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.
MW-1			WATER	
MW-2				
MW-3				
MW-4 Trip				

TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) X w/BTEX (EPA 602, 8020) /MTBE	TPH - Diesel, TEPH (EPA 3510/3550, 8015) X	PURGEABLE AROMATICS X BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS
	X	X														5
	X	X														5
	X	X														5
			X													2

PROJECT INFORMATION		SAMPLE RECEIPT			
PROJECT NAME <u>Miguel Valley Park / 5010</u>	TOTAL NO. OF CONTAINERS 24	HEAD SPACE		RECD GOOD CONDITION/COLD	
PROJECT NUMBER <u>384</u>	CONFORMS TO RECORD				
P.O. #	TAT	STANDARD 5-DAY	24	48	72
OTHER					

RELINQUISHED BY 1. <u>Regan Pappas</u> 16:30 (SIGNATURE) (TIME) <u>Regan Pappas</u> 6 Jan 99 (PRINTED NAME) (DATE) Tank Protect Eng. (COMPANY)	RELINQUISHED BY 2.	RELINQUISHED BY 3. <u>Gary Cook</u> 17:20 (SIGNATURE) (TIME) <u>Gary Cook</u> 1/5/99 (PRINTED NAME) (DATE)
--	--------------------	--

SPECIAL INSTRUCTIONS/COMMENTS:  
 Please Fax loc immediately after final signature & Fax results to both Fax #s  
 6 Amley  
 11 VOTHS  
 3.0 c #

RECEIVED BY <u>Gary Cook</u> 16:30 (SIGNATURE) (TIME) <u>Gary Cook</u> 5 Jan 99 (PRINTED NAME) (DATE) Chromalab (COMPANY)	RECEIVED BY 2.	RECEIVED BY (LABORATORY) 3. <u>A. Paredes</u> 17:30 (SIGNATURE) (TIME) <u>A. Paredes</u> 1/5/99 (PRINTED NAME) (DATE) Chromalab (LAB)
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