

MISSION VALLEY / ROCK COMPANY ASPHALT COMPANY READY MIX COMPANY

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

February 23, 2001

Mr. Scott Seery
Alameda County Health Care 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, Tait Environmental Management Inc.(T.E.M). If you require further information or clarification please direct your correspondence to T.E.M. with a copy to Mission Valley Rock Company at the above address.

Thank You,
MISSION VALLEY ROCK CO.


W.M. Calvert

**Groundwater Monitoring Report
Fourth Quarter 2000**

Mission Valley Rock Company
7999 Athenour Way
Sunol, California

Prepared by:
Tait Environmental Management, Inc.

February 13, 2001

FEBRUARY 13, 2001

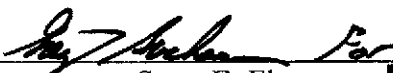
GROUNDWATER MONITORING REPORT
FOURTH QUARTER 2000

MISSION VALLEY ROCK COMPANY
7999 ATHENOUR WAY
SUNOL, CALIFORNIA


PREPARED FOR:

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MISSION VALLEY ROCK COMPANY
7999 ATHENOUR WAY
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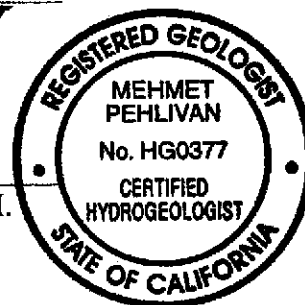
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TAIT ENVIRONMENTAL MANAGEMENT
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PROJECT NO. EM 5008

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	WORK CONDUCTED DURING PRESENT QUARTER.....	1
3.0	GROUNDWATER MONITORING ACTIVITIES	1
3.1	GROUNDWATER ELEVATION MONITORING.....	1
3.2	GROUNDWATER SAMPLING	2
4.0	LABORATORY ANALYSES	2
4.1	GROUNDWATER ANALYTICAL RESULTS.....	2
5.0	SUMMARY.....	2
6.0	RECOMMENDATIONS	3
7.0	QUALITY ASSURANCE/QUALITY CONTROL	4
8.0	LIMITATIONS	4
9.0	CLOSURE.....	4

FIGURES

1. Site Vicinity Map
2. Site Plan with Groundwater Elevations (December 2000)
3. Select Analytical Concentrations in Groundwater (December 2000)

TABLES

1. Groundwater Monitoring Well Construction and Groundwater Elevation Data (December 2000)
2. Summary of Groundwater Analytical Results (December 2000)
3. Historical Summary of Groundwater Data
4. Historical Summary of Groundwater Data

APPENDICES

- A. Charts
- B. Well Sampling Field Data Sheets
- C. Laboratory Reports



GROUNDWATER MONITORING REPORT FOURTH QUARTER 2000

MISSION VALLEY ROCK COMPANY
7999 ATHENOUR WAY
SUNOL, CALIFORNIA

1.0 INTRODUCTION

Tait Environmental Management, Inc. (TEM) is pleased to submit this Fourth Quarter Groundwater Monitoring Report for environmental services conducted at Mission Valley Rock Company (MVR) located at 7999 Athenour Way in Sunol, California (SITE, see Figure 1). This report has been prepared by or under the direct supervision of a California Registered Geologist. The groundwater monitoring activities were conducted by TEM, in accordance with the Alameda County Health Care Services Agency guidelines.

2.0 WORK CONDUCTED DURING PRESENT QUARTER

Work conducted by TEM during the fourth quarter of 2000 included:

- Submitted to the client, *Third Quarter Report, September 2000, Mission Valley Rock Company, October 16, 2000.*
- Measured depth-to-groundwater in monitoring wells MW-1, MW-2 and MW-3 for evaluation of groundwater flow direction.
- Collected groundwater samples from each well for analysis of total petroleum hydrocarbons as diesel and gasoline (TPH-D and TPH-G, respectively); benzene, toluene, ethylbenzene, and xylenes (BTEX); and methyl-tert-butyl-ether (MTBE).

3.0 GROUNDWATER MONITORING ACTIVITIES

3.1 Groundwater Elevation Monitoring

On December 20, 2000, TEM measured and recorded static groundwater levels in three (3) groundwater monitoring wells using a product/water interface meter. The meter was decontaminated with detergent and two (2) de-ionized water rinses following water level measurement of each well.

Water levels were measured from the top of the well casings representing the well head survey points. A slight Liquid Phase Hydrocarbons (LPH) sheen (0.07 feet) was observed in monitoring well MW-2. No LPH was observed in monitoring wells MW-1 and MW-3.

Based on the data, the average depth to groundwater measured at the SITE during this sampling event is approximately 5.96 feet below ground surface (bgs). The apparent groundwater flow direction is to the southeast with a groundwater gradient of approximately 0.02 ft/ft. Groundwater elevation data is summarized in Table 1 and shown on Figure 2. A historical summary of groundwater elevation data is summarized in Table 3 and shown in Chart 1 (Appendix A).

3.2 Groundwater Sampling

Prior to collecting samples, groundwater was purged using a new disposable bailer for each well. A minimum of three (3) casing volumes of water were purged from each of the monitoring wells, until measurements of pH, electrical conductivity, temperature and turbidity stabilized. Groundwater was allowed to recharge to at least 80 percent of the static level prior to collecting the groundwater samples. Because a dedicated disposable bailer was used for each well, no decontamination was necessary between wells. Copies of the well sampling field data sheets are presented in Appendix B.

Groundwater samples were collected using a new disposable bailer for each well. The groundwater samples were placed in appropriate sampling containers, stored at 4° C, and hand delivered to the laboratory under chain-of-custody protocol.

The purged groundwater was stored on-SITE in one (1) Department of Transportation (DOT) approved 55-gallon steel drums pending the results of the laboratory analysis.

4.0 LABORATORY ANALYSES

Groundwater samples collected from the three (3) wells were analyzed for:

- BTEX and MTBE using SW846 Method No. 8021B; and
- TPH-D and TPH-D using SW846 Method 8015B.

4.1 Groundwater Analytical Results

Laboratory analyses of the groundwater samples were conducted by Severn Trent Laboratories (STL), a State-Certified laboratory located in Santa Ana, California. Fourth quarter groundwater sample analytical results are summarized in Table 2 and shown in Figure 3. Laboratory reports are presented in Appendix C. A historical summary of groundwater sample analytical results is summarized in Table 4. Charts 2A, 2B, and 2C present historic measurements of TPHD, TPHG and MTBE, respectively (Appendix A).

5.0 SUMMARY

Based upon the data presented in this report, previous investigations, current regulatory guidelines, and the judgment of TEM, the following summary of findings and conclusions are presented:

- On December 20, 2000, groundwater sampling was conducted for three (3) groundwater monitoring wells (MW-1, MW-2, and MW-3). A total of three (3) groundwater samples, one (1) sample from each well, was collected and submitted to a State-Certified laboratory for analyses;
- The average depth to groundwater measured at the SITE during this sampling event is approximately 5.96 feet bgs. The apparent groundwater flow direction is to the southeast with a groundwater gradient of approximately 0.02 ft/ft;
- Groundwater elevations have generally been declining in all monitoring wells since their installation in June 1998;
- A slight LPH sheen (0.07 feet) was observed in monitoring well MW-2. No LPH was observed in monitoring wells MW-1 and MW-3;
- The highest TPH-D and TPH-G concentrations were detected in the groundwater sample collected from well MW-2. The TPH-D concentration was 19 milligrams per Liter (mg/L) and the TPH-G concentration was 7.1 mg/L;
- Benzene concentrations were only detected at or above the laboratory detection limit in the groundwater sample collected from monitoring well MW-1 and was reported at 5.3 micrograms per Liter (ug/L);
- The highest MTBE concentration (80 ug/L) was detected in the sample collected from well MW-3;
- Interpretation of Charts 2A, 2B, and 2C would indicate that TPH-D, TPH-G, and MTBE have shown an overall decrease since groundwater sampling began in June 1998 with the exception of well MW-2 where TPH-D and TPH-G concentrations have shown a recent increase.
- The purged groundwater was stored on-SITE in one (1) Department of Transportation (DOT) approved 55-gallon steel drums pending the results of the laboratory analysis.

6.0 RECOMMENDATIONS

Based on the data obtained during the site assessment, current regulatory guidelines, and the professional judgment of TEM, the following recommendations are presented for your consideration:

- Continue monitoring all wells for floating product, sheen and odors.
- Continued quarterly groundwater sampling to evaluate gradient and to monitor contaminant concentrations.

- Perform additional site assessment using hydropunch sampling and auger drilling.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

To increase the confidence levels in the data obtained and minimize the likelihood that judgments were made from potentially erroneous data, a quality assurance/quality control (QA/QC) program was implemented. QA refers to management of actions designed to maintain precision, accuracy, completeness, and representativeness of the data developed from the project. QC refers to accepted formal procedures and activities specifically designed for the purpose of collecting data that are intended to be reliable and consistent for the SITE conditions. The laboratory reported the results to be within acceptable percent recoveries with no results exceeding the laboratory-established control limits.

8.0 LIMITATIONS

No investigation is considered thorough enough to exclude the presence of hazardous materials at a given site. Any opinions and/or recommendations presented apply to SITE conditions existing at the time of the performance of services. TEM is unable to report on or accurately predict events which may impact the SITE following conduct of the described services, whether occurring naturally or caused by external forces.

TEM assumes no responsibility for conditions we were not authorized to investigate, or conditions not generally recognized as environmentally unacceptable at the time services were performed.

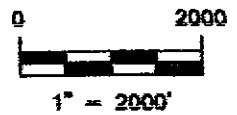
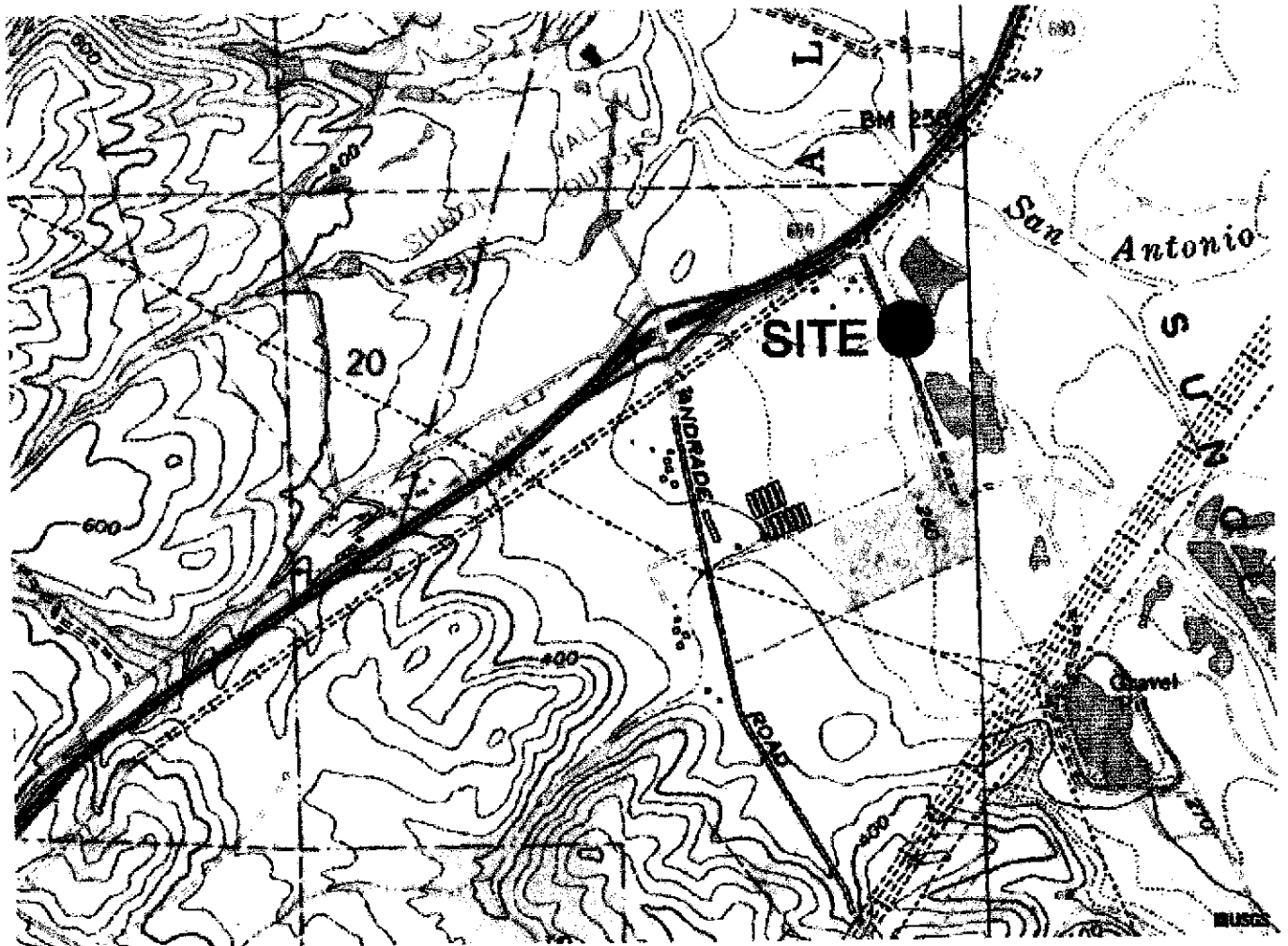
Services hereunder were performed in accordance with our agreement and understanding with, and solely for the use of, Mission Valley Rock Company. We are not responsible for the subsequent separation, detachment or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.

9.0 CLOSURE

The next sampling event is scheduled for March 2001.

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
1515 Clay Street, Suite 1400
Oakland, CA 94612



NOTES:

BASE MAP TAKEN FROM TERRASERVER.COM, UNITED STATES GEOLOGICAL SURVEY (USGS), FREEMONT QUADRANGLE, ALAMEDA COUNTY, CALIFORNIA. PRINTED JULY 1, 1989.



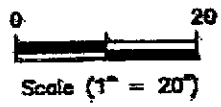
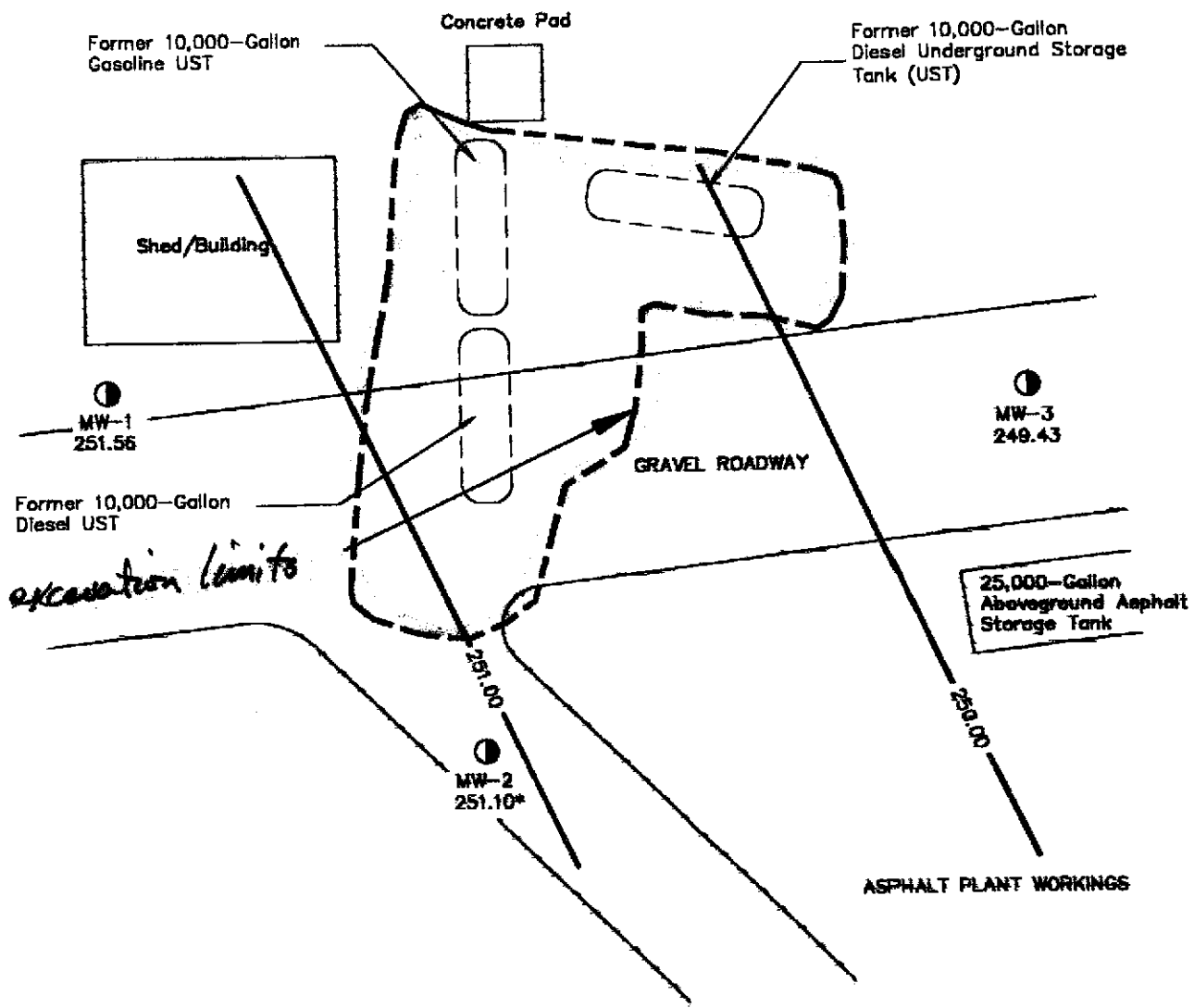
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 SANTA ANA, CA 92705
 (714) 960-8200
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ENVIRONMENTAL MANAGEMENT, INC.

SITE VICINITY MAP
 MISSION VALLEY ROCK CO.
 7999 ATHENOUR WAY
 SUNOL, CALIFORNIA

PROJECT NO. EM-5009

FIGURE 1



LEGEND:

BASE MAP REFERENCED FROM TANK PROTECT ENGINEERING
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

- GROUNDWATER MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
- MW-1 251.56
- 250.00 — GROUNDWATER CONTOUR WITH ELEVATION IN FEET ABOVE MSL
- GENERAL DIRECTION OF GROUNDWATER FLOW
- - - - - LIMITS OF FORMER UST EXCAVATION
- 251.10* CORRECTED GROUNDWATER ELEVATION

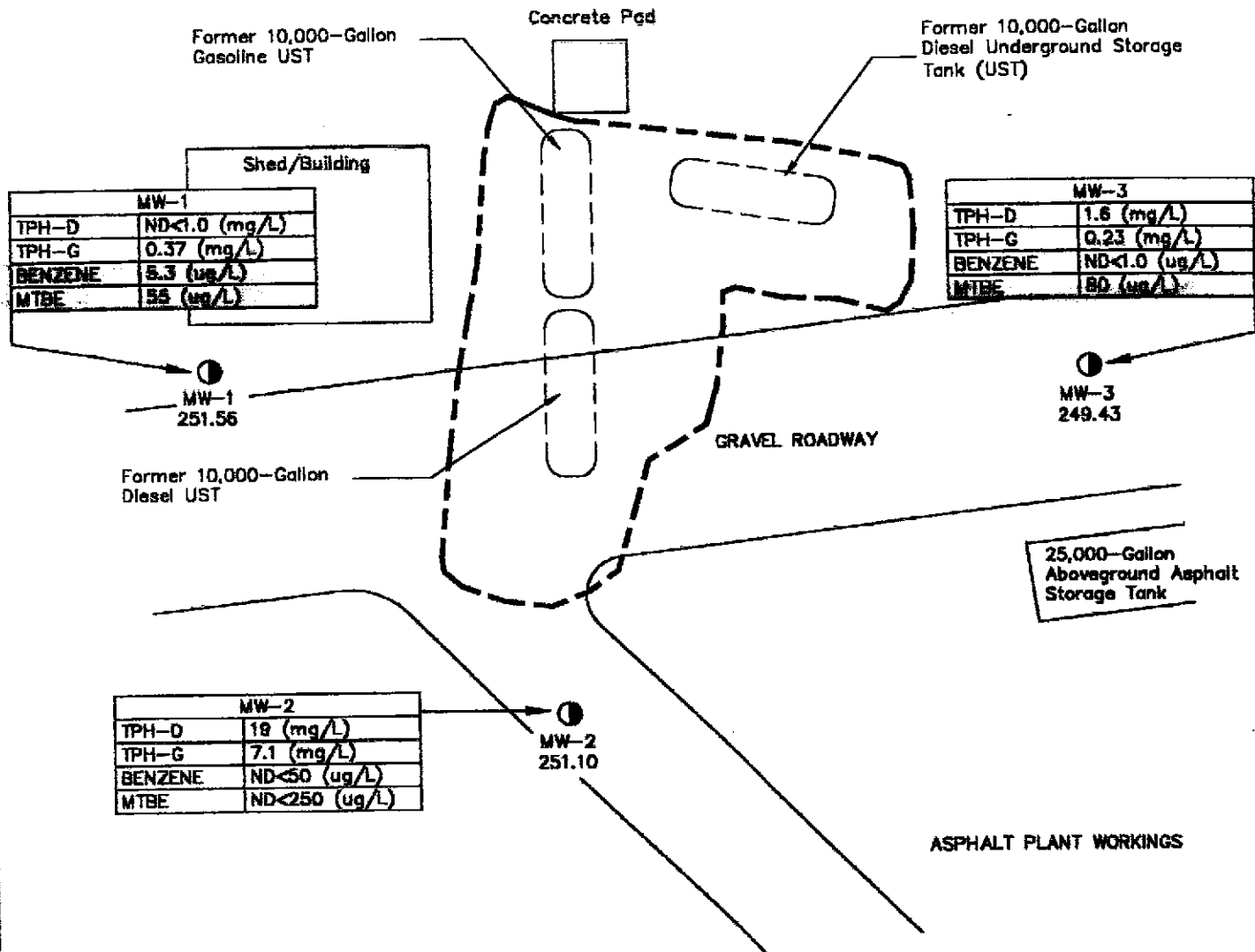
TAT 701 NORTH PARKCENTER DRIVE
SANTA ANA, CA 92705
(714) 560-8200
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ENVIRONMENTAL MANAGEMENT, INC.

SITE PLAN WITH GROUNDWATER ELEVATIONS (DECEMBER 2000)
MISSION VALLEY ROCK CO.
7999 ATHENOUR WAY
SUNOL, CALIFORNIA

PROJECT NO. EM-5009

FIGURE 2



MW-1	
TPH-D	ND<1.0 (mg/L)
TPH-G	0.37 (mg/L)
BENZENE	5.3 (ug/L)
MTBE	55 (ug/L)

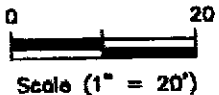
MW-3	
TPH-D	1.6 (mg/L)
TPH-G	0.23 (mg/L)
BENZENE	ND<1.0 (ug/L)
MTBE	80 (ug/L)

MW-2	
TPH-D	18 (mg/L)
TPH-G	7.1 (mg/L)
BENZENE	ND<50 (ug/L)
MTBE	ND<250 (ug/L)

MW-1
251.56

MW-3
249.43

MW-2
251.10



LEGEND:

BASE MAP REFERENCED FROM TANK PROTECT ENGINEERING

ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

mg/L = MILLIGRAMS PER LITER

TPH-D = TOTAL PETROLEUM HYDROCARBONS AS DIESEL

TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

ug/L = MICROGRAMS PER LITER

● GROUNDWATER MONITORING WELL

MW-1

--- LIMITS OF FORMER UST EXCAVATION

TAT ENVIRONMENTAL MANAGEMENT, INC.

701 NORTH PARKCENTER DRIVE
SANTA ANA, CA 92705
(714) 560-8200
(714) 560-8235 FAX

**SELECT ANALYTICAL CONCENTRATIONS
IN GROUNDWATER (DECEMBER 2000)**

MISSION VALLEY ROCK CO.
7999 ATHENOUR WAY
SUNOL, CALIFORNIA

PROJECT NO. EM-5009 FIGURE 3

Table 1
**Groundwater Monitoring Well Construction and
 Groundwater Elevation Data
 (December 2000)**

Mission Valley Rock Company
 7999 Athenour Way
 Sunol, California

Well	Diameter	Screened Interval	Total Depth	Depth to LPH	Depth to Water	LPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-1	2	5 - 20	16.71	ND	4.95	ND	256.51	251.56
MW-2	2	5 - 20	19.16	5.58	5.65	0.07	256.70	251.10*
MW-3	2	5 - 20	17.38	ND	7.29	ND	256.72	249.43

Notes:

Screened Intervals are approximated.

LPH = Liquid Phase Hydrocarbons

LPH Thickness measurements reported in feet.

ND = Not Detected

Screened Interval, Total Depth, Depth to Water, and Depth to LPH measurements reported in feet below top of casing.

Surface Elevation, Top of Casing Elevation, and Groundwater Elevations are reported in feet above mean sea level.

Total depth and depth to water measurements taken by Tait Environmental Management from top of monitoring well casing on December 20, 2000.

Screened interval in wells is lower than total depth due to silt in the bottom of the wells.

* Adjusted groundwater elevation = TOC elevation-Depth to water+(product thickness* .79)

Table 2
Summary of Groundwater Analytical Results
(December 2000)

Mission Valley Rock Company
 7999 Athenour Way
 Sunol, California

Well	Date	TPH-D (mg/L)	TPH-G (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	12/20/00	ND<1.0	0.37	5.3	ND<1.0	2.7	ND<3.0	55
MW-2	12/20/00	19	7.1	ND<50	ND<50	ND<50	ND<150	ND<250
MW-3	12/20/00	1.6	0.23	ND<1.0	ND<1.0	ND<1.0	ND<3.0	80

Notes:

mg/L = milligrams per Liter

ug/L = micrograms per Liter

MTBE = Methyl-tert-Butyl Ether

ND = Not detected at or above respective detection limit.

TPH-D and TPH-G concentrations reported using method SW846 8015B.

Benzene, Toluene, Ethylbenzene, Total Xylene, and MTBE concentrations reported using method SW846 8012B.

Table 3
Historical Summary of Groundwater Data

Mission Valley Rock Company
 7999 Athenour Way
 Sunol, California

MW-1	Jun-98	1.32	255.19	ND
	Jan-99	2.28	254.23	ND
	Mar-99	1.88	254.63	ND
	Jun-99	3.35	253.16	ND
	Sep-99	3.66	252.85	ND
	Dec-99	2.94	253.57	ND
	Mar-00	2.72	253.79	ND (Odor)
	Jun-00	4.01	252.50	ND (Slight Odor)
	Sep-00	5.11	251.40	ND (Slight Odor)
	Dec-00	4.95	251.56	ND
MW-2	Jun-98	1.72	254.98	0.005
	Jan-99	2.69	254.01	4.00
	Mar-99	2.50	254.20	ND
	Jun-99	4.00	252.70	Sheen
	Sep-99	4.54	252.16	0.50
	Dec-99	3.85	252.85	0.13
	Mar-00	3.20	253.50	0.03
	Jun-00	4.62	252.08	0.02
	Sep-00	5.95	250.75	>0.01
	Dec-00	5.65	251.05	0.07
MW-3	Jun-98	2.66	254.06	ND
	Jan-99	4.47	252.25	ND (Slight Odor)
	Mar-99	3.96	252.76	Sheen
	Jun-99	5.54	251.18	ND
	Sep-99	6.18	250.54	Sheen
	Dec-99	5.52	251.20	ND (Odor)
	Mar-00	4.61	252.11	ND (Odor)
	Jun-00	6.35	250.37	ND (Very Slight Odor)
	Sep-00	7.30	249.42	ND (Very Slight Odor)
	Dec-00	7.29	249.43	ND

Notes:

mst = mean sea level

LPH = Liquid Phase Hydrocarbons

ND = Not Detected

TOC = Top of Casing

Table 4
Historical Summary of Groundwater Analytical Data

Mission Valley Rock Company
 7999 Athenour Way
 Sunol, California

Well	Date	TPH-D (ug/L)	TPH-G (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	Jun-98	ND<50	3,100	19	2.3	91	48	110
	Oct-98	ND<50	2,300	3.1	4.2	5	15	ND<0.5
	Dec-98	350	ND<50	12	7.5	20	6.2	ND<0.5
	Mar-99	190	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	210	1,800	1.2	0.9	1.5	4.6	ND<0.5
	Sep-99	62	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Dec-99	290	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	70	450	2.1	ND<0.5	2.1	1.4	7.6
	Sep-00	ND<50	850	5.4	ND<0.5	9.4	2.6	9.8
Dec-00	ND<1.0 (mg/L)	0.37 (mg/L)	5.3	ND<1.0	2.7	ND<3.0	55	
MW-2	Jun-98	12,000	2,500	0.68	ND<0.5	1.2	0.57	14
	Oct-98	4,300	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Dec-98	38,000	ND<5000	ND<0.5	ND<0.5	51	190	ND<500
	Mar-99	580	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	4,500	24,000	38	27	41	98	ND<0.5
	Sep-99	24,000	1,400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27
	Dec-99	2,300	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	620	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	1,700	270	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17
	Sep-00	5,800	130	ND<0.5	ND<0.5	ND<0.5	0.94	12
Dec-00	19 (mg/L)	7.1 (mg/L)	ND<50	ND<50	ND<50	ND<150	ND<250	

Table 4
Historical Summary of Groundwater Analytical Data

Mission Valley Rock Company
 7999 Athenour Way
 Sunol, California

Well	Date	TPH-D (ug/L)	TPH-G (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-3	Jun-98	12,000	300	0.8	ND<0.5	ND<0.5	ND<0.5	150
	Oct-98	6,400	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Dec-98	5,600	ND<100	1.6	1.4	ND<1	ND<1	110
	Mar-99	150	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-99	620	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Sep-99	1,500	230	ND<0.5	ND<0.5	ND<0.5	ND<0.5	89
	Dec-99	58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Mar-00	94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	Jun-00	240	170	ND<0.5	0.52	ND<0.5	ND<0.5	100
	Sep-00	850	170	0.81	ND<0.5	ND<0.5	ND<0.5	68
Dec-00	1.6 (mg/L)	0.23 (mg/L)	ND<1.0	ND<1.0	ND<1.0	ND<3.0	80	

Notes:

mg/L = milligrams per Liter

msl = mean sea level

LPH = Liquid Phase Hydrocarbons

ND = Not detected at or above respective detection limit.

TOC = Top of Casing

ug/L = micrograms per Liter

**CHART 1
HISTORICAL GROUNDWATER ELEVATION
MISSION VALLEY ROCK, SUNOL**

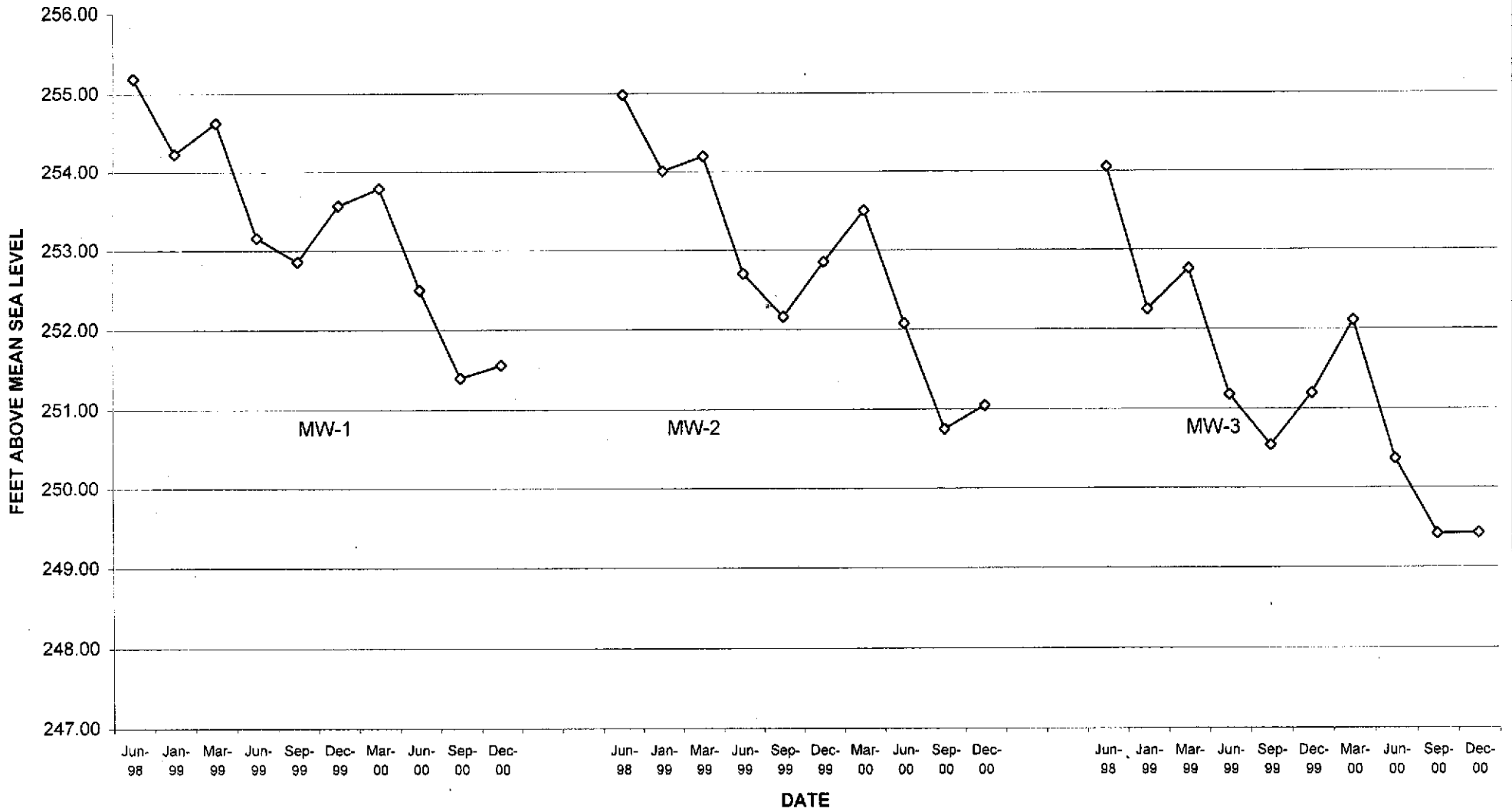


CHART 2A
 HISTORICAL TPH-D CONCENTRATIONS
 MISSION VALLEY ROCK, SUNOL

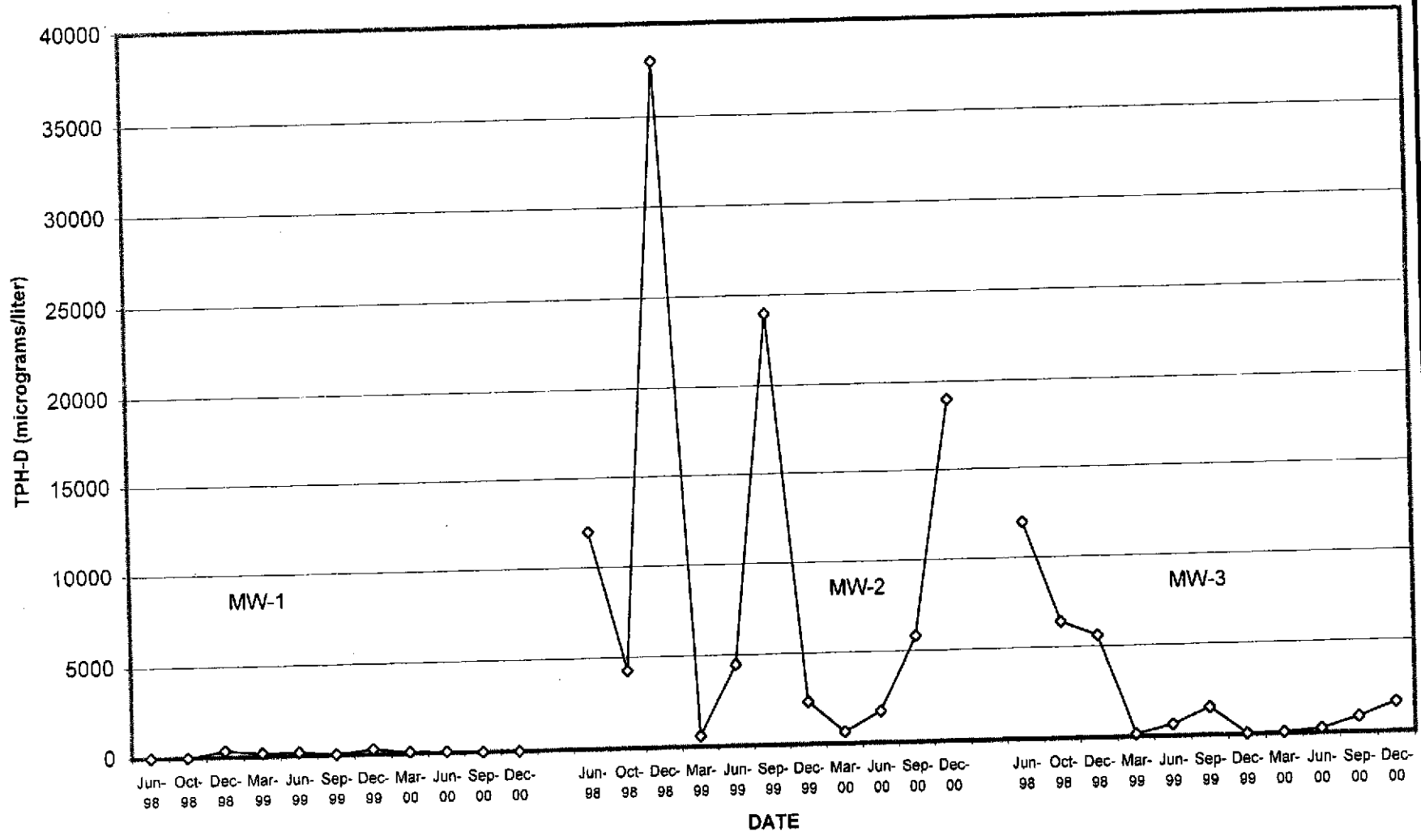


CHART 2B
 HISTORICAL TPH-G CONCENTRATIONS
 MISSION VALLEY ROCK, SUNOL

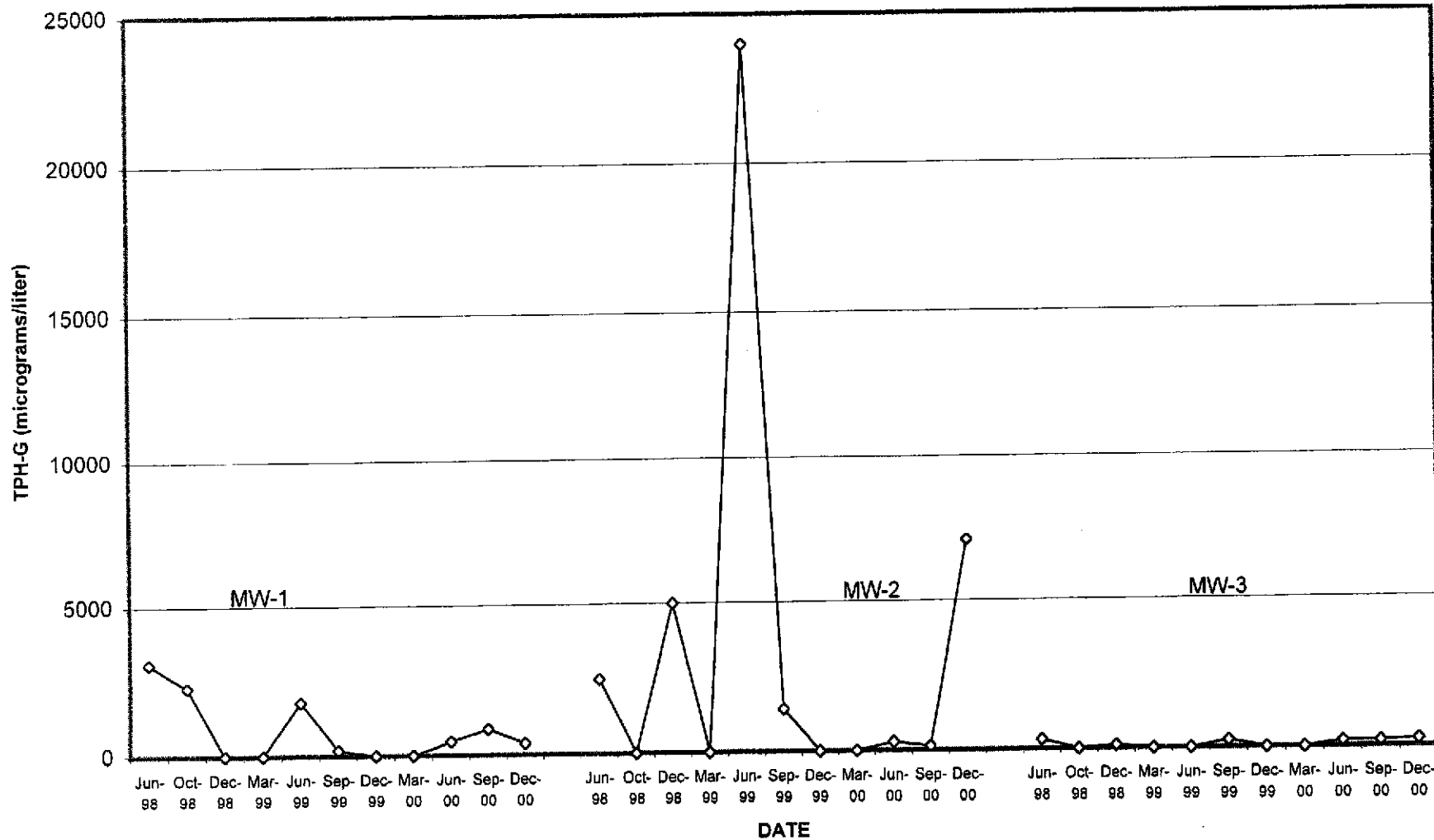
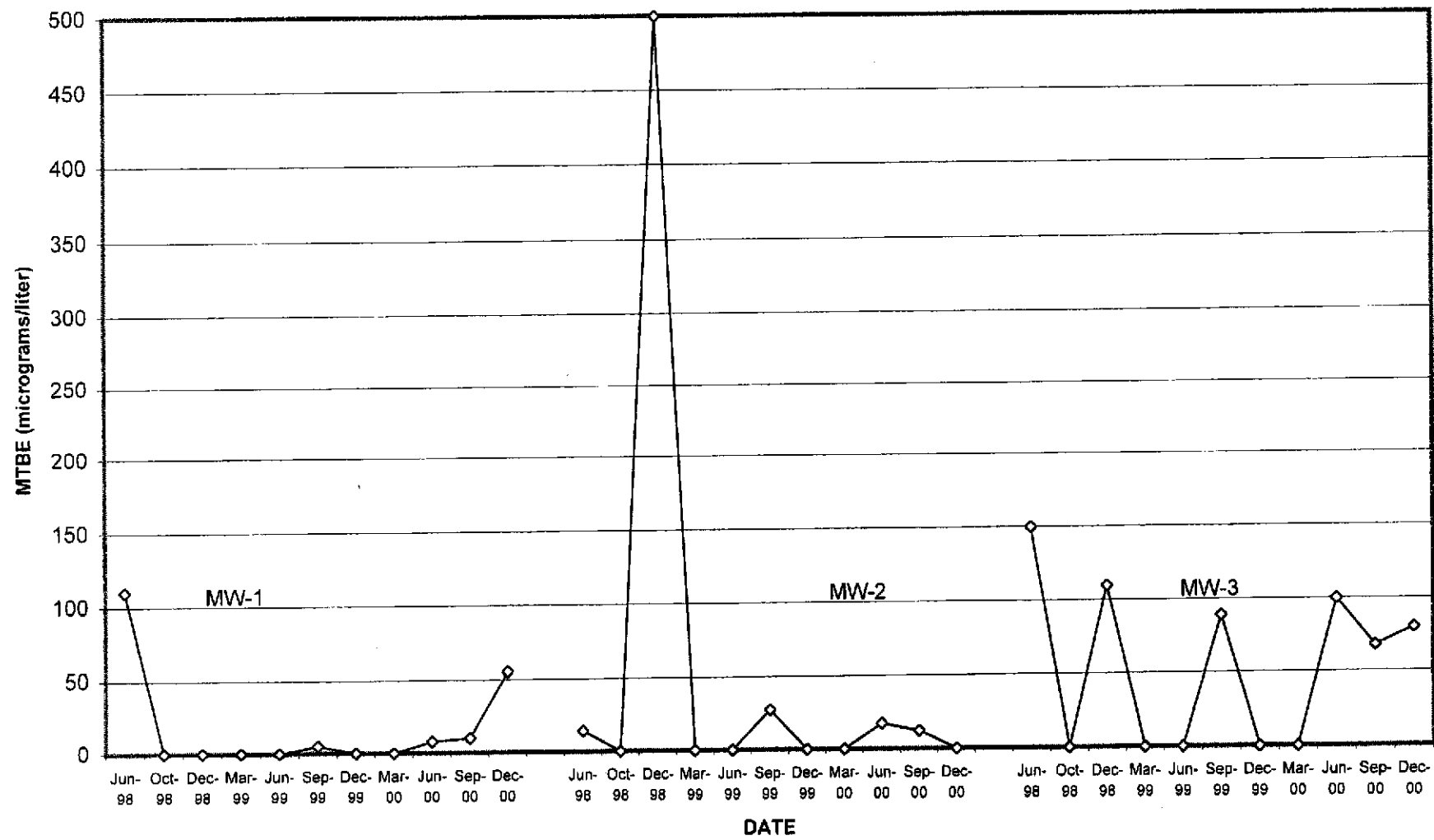


CHART 2C
 HISTORICAL MTBE CONCENTRATIONS
 MISSION VALLEY ROCK, SUNOL



TAIT Environmental Management, Inc.
Well Sampling Field Data Sheet

SITE: Mission Valley Rock				Project #:		
Well ID: MW-1		Well Diameter (in.): 2		Personnel: SEE		Date: 12/20/00
Depth to Water (ft):		4.95		Depth to Product (ft):		ND
Total Depth (ft):		16.71		Product Thickness (ft):		ND
Height of Water Column (ft):		11.76		Three (3) Casing Volumes (gal):		5.75
One (1) Casing Volume (gal):		1.91		Purge Start Time:		7:28
Time	Volume (Gallons)	Conductivity (mS/cm)	Temp (°C)	pH	Turbidity (NTU)	Observations
7:25	2	1.23	53.4	7.45	26.9	clear, no odor
7:29	4	1.19	53.4	7.41	92.6	" "
7:33	6	1.21	53.7	7.36	99.5	" "
80% Recovery Depth (ft):			7.30		Depth to Water at Sampling (ft): 5.13	
					Sample Collection Time: 7:45	
Notes: hand bail w/ disposable bailer.						

SITE: Mission Valley Rock				Project #:		
Well ID: MW-2		Well Diameter (in.): 2		Personnel: SEE		Date: 12/20/00
Depth to Water (ft):		5.65 5.58 ^{SEE} 6.50 6.05		Depth to Product (ft):		5.58
Total Depth (ft):		19.16		Product Thickness (ft):		0.07
Height of Water Column (ft):		13.51		Three (3) Casing Volumes (gal):		6.6
One (1) Casing Volume (gal):		2.20		Purge Start Time:		8:44
Time	Volume (Gallons)	Conductivity (mS/cm)	Temp (°C)	pH	Turbidity (NTU)	Observations
8:48	2	1.08	49.8	7.41	56.9	clear w/ slight prod. stain
8:54	4	1.16	54.0	7.27	46.5	clear - no stain
8:58	6	1.17	55.6	7.38	65.3	" "
80% Recovery Depth (ft):			8.35		Depth to Water at Sampling (ft): 6.19	
					Sample Collection Time: 9:09	
Notes: hand bail w/ disposable bailer						

TAIT Environmental Management, Inc.
Well Sampling Field Data Sheet

SITE: Mission Valley Rock				Project #:		
Well ID: MW-3		Well Diameter (in.): 2		Personnel: SEE		Date: 12/20/00
Depth to Water (ft): 7.29				Depth to Product (ft): ND		
Total Depth (ft): 17.38				Product Thickness (ft): ND		
Height of Water Column (ft): 10.09				Three (3) Casing Volumes (gal): 4.93		
One (1) Casing Volume (gal): 1.65				Purge Start Time: 9:22		
Time	Volume (Gallons)	Conductivity (mS/cm)	Temp (°C)	pH	Turbidity (NTU)	Observations
9:26	1.5	1.18	55.7	7.46	87.0	slightly cloudy
9:29	3.0	1.17	58.1	7.43	91.0	" " " "
9:34	4.5	1.19	59.0	7.39	90.0	" " " "
80% Recovery Depth (ft): 9.30			Depth to Water at Sampling (ft): 7.60		Sample Collection Time: 9:45	
Notes: hand bail w/ disposable bailer.						

SITE:				Project #:		
Well ID:		Well Diameter (in.):		Personnel:		Date:
Depth to Water (ft):				Depth to Product (ft):		
Total Depth (ft):				Product Thickness (ft):		
Height of Water Column (ft):				Three (3) Casing Volumes (gal):		
One (1) Casing Volume (gal):				Purge Start Time:		
Time	Volume (Gallons)	Conductivity (mS/cm)	Temp (°C)	pH	Turbidity (NTU)	Observations
80% Recovery Depth (ft):			Depth to Water at Sampling (ft):		Sample Collection Time:	
Notes:						

ANALYTICAL REPORT

PROJECT NO. EM-5009

MISSION ROCK

Lot #: EOL210346

Scott Ek

Tait Environmental

SEVERN TRENT LABORATORIES, INC.

**Marisol Tabirara
Project Manager**

January 11, 2001

EXECUTIVE SUMMARY - Detection Highlights

E0L210346

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-1 12/20/00 07:45 001				
TPH (as Gasoline)	0.37	0.10	mg/L	SW846 8015B
Benzene	5.3	1.0	ug/L	SW846 8021B
Ethylbenzene	2.7	1.0	ug/L	SW846 8021B
Methyl tert-butyl ether	55	5.0	ug/L	SW846 8021B
MW-2 12/20/00 09:09 002				
TPH (as Diesel)	19	1.0	mg/L	SW846 8015B
TPH (as Gasoline)	7.1	5.0	mg/L	SW846 8015B
MW-3 12/20/00 09:45 003				
TPH (as Diesel)	1.6	1.0	mg/L	SW846 8015B
TPH (as Gasoline)	0.23	0.10	mg/L	SW846 8015B
Methyl tert-butyl ether	80	5.0	ug/L	SW846 8021B

METHODS SUMMARY

E0L210346

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

EOL210346

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DRWQT	001	MW-1	12/20/00	07:4
DRWQV	002	MW-2	12/20/00	09:0
DRWQW	003	MW-3	12/20/00	09:4

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TAIT ENVIRONMENTAL

Client Sample ID: MW-1

GC Semivolatiles

Lot-Sample #...: E0L210346-001 Work Order #...: DRWQT1AA Matrix.....: WATER
Date Sampled...: 12/20/00 07:45 Date Received...: 12/21/00 16:15 MS Run #.....:
Prep Date.....: 12/26/00 Analysis Date...: 12/27/00
Prep Batch #...: 0361262 Analysis Time...: 15:27
Dilution Factor: 1
Analyst ID.....: 356074 Instrument ID...: G01
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND		1.0	mg/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Benzo (a) pyrene	RECOVERY	112	(60 - 130)	

TAIT ENVIRONMENTAL

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #....: EOL210346-001 Work Order #....: DRWQT1AC Matrix.....: WATER
Date Sampled....: 12/20/00 07:45 Date Received...: 12/21/00 16:15 MS Run #.....: 0364233
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0364357 Analysis Time...: 20:07
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	0.37	0.10	mg/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	87	(60 - 130)	

NOTE(S) :

Unknown hydrocarbon pattern.

TAIT ENVIRONMENTAL

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #....: E0L210346-001 Work Order #....: DRWQ1AD Matrix.....: WATER
Date Sampled...: 12/20/00 07:45 Date Received...: 12/21/00 16:15 MS Run #.....: 1011181
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 1003215 Analysis Time...: 20:07
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	5.3	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	2.7	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L
Methyl tert-butyl ether	55	5.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	102	(60 - 130)	

TAIT ENVIRONMENTAL

Client Sample ID: MW-2

GC Semivolatiles

Lot-Sample #....: EOL210346-002 Work Order #....: DRWQV1AA Matrix.....: WATER
Date Sampled...: 12/20/00 09:09 Date Received...: 12/21/00 16:15 MS Run #.....:
Prep Date.....: 12/26/00 Analysis Date...: 12/27/00
Prep Batch #....: 0361262 Analysis Time...: 15:57
Dilution Factor: 1
Analyst ID.....: 356074 Instrument ID...: G01
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	19	1.0	mg/L
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
Benzo (a) pyrene	105	(60 - 130)	

NOTE (S) :

The pattern elutes in the diesel range but not a perfect match with the diesel std used for calibration. C range C10 to beyond C24.

TAIT ENVIRONMENTAL

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #....: E0L210346-002 Work Order #....: DRWQV1AC Matrix.....: WATER
Date Sampled....: 12/20/00 09:09 Date Received...: 12/21/00 16:15 MS Run #.....: 0364233
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0364357 Analysis Time...: 20:36
Dilution Factor: 50
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	7.1		5.0	mg/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	80	RECOVERY	(60 - 130)	

NOTE(S):

Unknown hydrocarbon pattern.

TAIT ENVIRONMENTAL

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #...: E0L210346-002 Work Order #...: DRWQV1AD Matrix.....: WATER
Date Sampled...: 12/20/00 09:09 Date Received...: 12/21/00 16:15 MS Run #.....: 1011181
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #...: 1003215 Analysis Time...: 20:36
Dilution Factor: 50
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND G	50	ug/L
Toluene	ND G	50	ug/L
Ethylbenzene	ND G	50	ug/L
Xylenes (total)	ND G	150	ug/L
Methyl tert-butyl ether	ND G	250	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	89	(60 - 130)

NOTE (S) :

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

TAIT ENVIRONMENTAL

Client Sample ID: MW-3

GC Semivolatiles

Lot-Sample #....: E0L210346-003 Work Order #....: DRWQW1AA Matrix.....: WATER
Date Sampled....: 12/20/00 09:45 Date Received...: 12/21/00 16:15 MS Run #.....:
Prep Date.....: 12/26/00 Analysis Date...: 12/27/00
Prep Batch #....: 0361262 Analysis Time...: 16:27
Dilution Factor: 1
Analyst ID.....: 356074 Instrument ID...: G01
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	1.6	1.0	mg/L
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
Benzo (a)pyrene	109	(60 - 130)	

NOTE (S) :

The pattern is unknown hydrocarbons; C range- C14 to beyond C24.

TAIT ENVIRONMENTAL

Client Sample ID: MW-3

GC Volatiles

Lot-Sample #....: EOL210346-003 Work Order #....: DRWQW1AC Matrix.....: WATER
Date Sampled....: 12/20/00 09:45 Date Received...: 12/21/00 16:15 MS Run #.....: 0364233
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0364357 Analysis Time...: 21:04
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	0.23		0.10	mg/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	RECOVERY		(60 - 130)	
	75			

NOTE(S):

Unknown hydrocarbon pattern.

TAIT ENVIRONMENTAL

Client Sample ID: MW-3

GC Volatiles

Lot-Sample #....: EOL210346-003 Work Order #....: DRWQW1AD Matrix.....: WATER
Date Sampled...: 12/20/00 09:45 Date Received...: 12/21/00 16:15 MS Run #.....: 1011181
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 1003215 Analysis Time...: 21:04
Dilution Factor: 1
Analyst ID.....: 001464 Instrument ID...: G13
Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L
Methyl tert-butyl ether	80	5.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)	

QC DATA ASSOCIATION SUMMARY

E0L210346

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8015B		0361262	
	WATER	SW846 8015B		0364357	0364233
	WATER	SW846 8021B		1003215	1011181
002	WATER	SW846 8015B		0361262	
	WATER	SW846 8015B		0364357	0364233
	WATER	SW846 8021B		1003215	1011181
003	WATER	SW846 8015B		0361262	
	WATER	SW846 8015B		0364357	0364233
	WATER	SW846 8021B		1003215	1011181

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E0L210346
MB Lot-Sample #: E0L260000-262
Analysis Date...: 12/27/00
Dilution Factor: 1

Work Order #...: DR1ET1AA
Prep Date.....: 12/26/00
Prep Batch #...: 0361262
Analyst ID.....: 356074

Matrix.....: WATER
Analysis Time...: 13:57
Instrument ID...: G01

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
TPH (as Diesel)	ND	1.0	mg/L	SW846 8015B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
Benzo(a)pyrene	100	(60 - 130)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E0L210346
MB Lot-Sample #: E0L290000-357
Analysis Date...: 12/28/00
Dilution Factor: 1

Work Order #...: DR5GM1AA
Prep Date.....: 12/28/00
Prep Batch #...: 0364357
Analyst ID.....: 001464

Matrix.....: WATER
Analysis Time...: 12:37
Instrument ID...: G13

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Gasoline)	ND	0.10	mg/L	SW846 8015B
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>		
a,a,a-Trifluorotoluene (TFT)	72	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E0L210346
MB Lot-Sample #: E1A030000-215
Analysis Date...: 12/28/00
Dilution Factor: 1

Work Order #...: DR6781AA
Prep Date.....: 12/28/00
Prep Batch #...: 1003215
Analyst ID.....: 001464

Matrix.....: WATER
Analysis Time...: 12:37
Instrument ID...: G13

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Benzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	87	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: EOL210346 Work Order #...: DR1ET1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: EOL260000-262 DR1ET1AD-LCSD
 Prep Date.....: 12/26/00 Analysis Date...: 12/27/00
 Prep Batch #...: 0361262 Analysis Time...: 14:27
 Dilution Factor: 1 Instrument ID...: G01
 Analyst ID.....: 356074

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
TPH (as Diesel)	5.00	5.35	mg/L	107		SW846 8015B
	5.00	4.99	mg/L	100	7.1	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Benzo(a)pyrene	111	(60 - 130)
	103	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: E0L210346	Work Order #....: DRIET1AC-LCS	Matrix.....: WATER
LCS Lot-Sample#: E0L260000-262	DRIET1AD-LCSD	
Prep Date.....: 12/26/00	Analysis Date...: 12/27/00	
Prep Batch #....: 0361262	Analysis Time...: 14:27	
Dilution Factor: 1	Instrument ID...: G01	
Analyst ID.....: 356074		

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	107	(65 - 140)			SW846 8015B
	100	(65 - 140)	7.1	(0-25)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Benzo (a) pyrene	111	(60 - 130)
	103	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E0L210346 Work Order #...: DR5GM1AC Matrix.....: WATER
 LCS Lot-Sample#: E0L290000-357
 Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
 Prep Batch #...: 0364357 Analysis Time...: 11:41
 Dilution Factor: 1 Instrument ID...: G13
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
TPH (as Gasoline)	1.00	0.971	mg/L	97	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
a, a, a-Trifluorotoluene (TFT)		108	(60 - 130)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DR6781AC Matrix.....: WATER
 LCS Lot-Sample#: E1A030000-215
 Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
 Prep Batch #....: 1003215 Analysis Time...: 12:09
 Dilution Factor: 1 Instrument ID...: G13
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	10.0	9.08	ug/L	91	SW846 8021B
Toluene	10.0	9.56	ug/L	96	SW846 8021B
Ethylbenzene	10.0	9.10	ug/L	91	SW846 8021B
Xylenes (total)	30.0	27.1	ug/L	90	SW846 8021B
m-Xylene & p-Xylene	20.0	17.4	ug/L	87	SW846 8021B
o-Xylene	10.0	8.69	ug/L	87	SW846 8021B
<u>SURROGATE</u>				<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
a, a, a-Trifluorotoluene (TFT)				90	(60 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DR5GM1AC Matrix.....: WATER
LCS Lot-Sample#: E0L290000-357
Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0364357 Analysis Time...: 11:41
Dilution Factor: 1 Instrument ID...: G13
Analyst ID.....: 001464

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	97	(60 - 130)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	108	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DR6781AC Matrix.....: WATER
 LCS Lot-Sample#: E1A030000-215
 Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
 Prep Batch #....: 1003215 Analysis Time...: 12:09
 Dilution Factor: 1 Instrument ID...: G13
 Analyst ID.....: 001464

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	91	(80 - 125)	SW846 8021B
Toluene	96	(80 - 130)	SW846 8021B
Ethylbenzene	91	(80 - 125)	SW846 8021B
Xylenes (total)	90	(80 - 125)	SW846 8021B
m-Xylene & p-Xylene	87	(80 - 120)	SW846 8021B
o-Xylene	87	(80 - 125)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene (TFT)	90	(60 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DRXTH1AF-MS Matrix.....: WATER
 MS Lot-Sample #: E0L220184-002 DRXTH1AG-MSD
 Date Sampled...: 12/20/00 Date Received...: 12/22/00 10:30 MS Run #.....: 0364233
 Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
 Prep Batch #....: 0364357 Analysis Time...: 23:52
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G13

PARAMETER	SAMPLE SPIKE MEASRD			UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
TPH (as Gasoline)	ND	1.00	1.03	mg/L	103		SW846 8015B
	ND	1.00	1.03	mg/L	103	0.19	SW846 8015B
SURROGATE				PERCENT	RECOVERY		
				RECOVERY	LIMITS		
a, a, a-Trifluorotoluene (TFT)				103	(60 - 130)		
				106	(60 - 130)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DRXTH1AH-MS Matrix.....: WATER
 MS Lot-Sample #: E0L220184-002 DRXTH1AJ-MSD
 Date Sampled....: 12/20/00 Date Received...: 12/22/00 10:30 MS Run #.....: 1011181
 Prep Date.....: 12/28/00 Analysis Date...: 12/29/00
 Prep Batch #....: 1003215 Analysis Time...: 00:48
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G13

PARAMETER	SAMPLE SPIKE MEASRD			UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
Benzene	ND	10.0	11.0	ug/L	110		SW846 8021B
	ND	10.0	11.0	ug/L	110	0.05	SW846 8021B
Toluene	ND	10.0	11.5	ug/L	115		SW846 8021B
	ND	10.0	11.3	ug/L	113	1.4	SW846 8021B
Ethylbenzene	ND	10.0	10.7	ug/L	101		SW846 8021B
	ND	10.0	10.5	ug/L	99	1.7	SW846 8021B
Xylenes (total)	ND	30.0	32.5	ug/L	108		SW846 8021B
	ND	30.0	32.8	ug/L	109	0.86	SW846 8021B
m-Xylene & p-Xylene	ND	20.0	20.7	ug/L	100		SW846 8021B
	ND	20.0	20.8	ug/L	100	0.26	SW846 8021B
o-Xylene	ND	10.0	10.5	ug/L	97		SW846 8021B
	ND	10.0	10.7	ug/L	99	2.0	SW846 8021B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
a,a,a-Trifluorotoluene (TFT)	95	(60 - 130)
	93	(60 - 130)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DRXTH1AF-MS Matrix.....: WATER
 MS Lot-Sample #: E0L220184-002 DRXTHLAG-MSD
 Date Sampled...: 12/20/00 Date Received...: 12/22/00 10:30 MS Run #.....: 0364233
 Prep Date.....: 12/28/00 Analysis Date...: 12/28/00
 Prep Batch #....: 0364357 Analysis Time...: 23:52
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G13

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	103	(60 - 130)			SW846 8015B
	103	(60 - 130)	0.19	(0-25)	SW846 8015B
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
a, a, a-Trifluorotoluene (TFT)		103		(60 - 130)	
		106		(60 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: E0L210346 Work Order #....: DRXTH1AH-MS Matrix.....: WATER
 MS Lot-Sample #: E0L220184-002 DRXTH1AJ-MSD
 Date Sampled...: 12/20/00 Date Received...: 12/22/00 10:30 MS Run #.....: 1011181
 Prep Date.....: 12/28/00 Analysis Date...: 12/29/00
 Prep Batch #....: 1003215 Analysis Time...: 00:48
 Dilution Factor: 1 Analyst ID.....: 001464 Instrument ID...: G13

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Benzene	110	(80 - 125)			SW846 8021B
	110	(80 - 125)	0.05	(0-25)	SW846 8021B
Toluene	115	(80 - 130)			SW846 8021B
	113	(80 - 130)	1.4	(0-25)	SW846 8021B
Ethylbenzene	101	(80 - 125)			SW846 8021B
	99	(80 - 125)	1.7	(0-25)	SW846 8021B
Xylenes (total)	108	(80 - 125)			SW846 8021B
	109	(80 - 125)	0.86	(0-25)	SW846 8021B
m-Xylene & p-Xylene	100	(80 - 120)			SW846 8021B
	100	(80 - 120)	0.26	(0-25)	SW846 8021B
o-Xylene	97	(80 - 125)			SW846 8021B
	99	(80 - 125)	2.0	(0-25)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a, a, a-Trifluorotoluene (TFT)	95	(60 - 130)
	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

No. 203172

STL SEVERN TRENT LABORATORIES

Committed To Your Success

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION COMPANY: <u>Tait Environmental</u> END REPORT TO: <u>Scott EK</u> ADDRESS: <u>701 N. Parkcenter Dr.</u> <u>Santa Ana, CA 92705</u> PHONE: <u>(714) 560-8694</u> FAX: <u>(714) 560-8235</u>		PROJECT INFORMATION PROJECT NAME/NUMBER: <u>Mission Rock EM-5009</u> BILLING INFORMATION BILL TO: ADDRESS: PHONE: FAX: PO NO.:	
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TPH-G (8016M)
 TPH-D (8015M)
 BTEX/MIRE (8021B)

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	DATE	TIME	PARAMETER	1	2	3	4	5	6	7	8	9	10	11	12	REMARKS/PRECAUTIONS
NW-1		12/20/00	7:45	H ₂ O	6	X	X	X									
NW-2		↓	9:09	↓	6	X	X	X									
NW-3		↓	9:45	↓	6	X	X	X									

AMPLER: Scott EK SHIPMENT METHOD: AIRBILL NO.:
 EQUIRED TURNAROUND* SAME DAY 24 HOURS 48 HOURS 72 HOURS 5 DAYS 10 DAYS ROUTINE OTHER

SIGNATURE: <u>Scott EK</u>	DATE: <u>12/21</u>	SIGNATURE: <u>[Signature]</u>	DATE: <u>12/21/00</u>	SIGNATURE:	DATE:
PRINTED NAME/COMPANY: <u>SCOTT EK / TAIT</u>	TIME: <u>11:30</u>	PRINTED NAME/COMPANY: <u>STL</u>	TIME: <u>16:15</u>	PRINTED NAME/COMPANY:	TIME:
SIGNATURE: <u>[Signature]</u>	DATE: <u>12/21/00</u>	SIGNATURE: <u>ADD Ho Villa's BOS</u>	DATE: <u>12/21</u>	SIGNATURE:	DATE:
PRINTED NAME/COMPANY: <u>STL</u>	TIME: <u>11:50</u>	PRINTED NAME/COMPANY: <u>STL</u>	TIME: <u>16:15</u>	PRINTED NAME/COMPANY:	TIME: