

Oliver

August 9, 1993

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Use Oliver?

Alameda County Health Care Services Agency
Attention: Ms. Susan L. Hugo
80 Swan Way, Room 350
Oakland CA 94621

Subject: Quarterly Groundwater Monitoring Report
Fourth Quarter - July 14, 1993
Oliver Rubber Company
Emeryville, CA 94608

Dear Ms. Hugo:

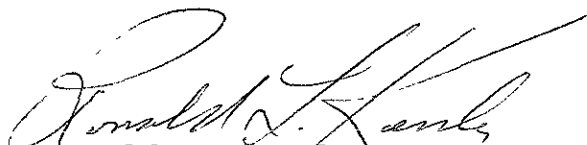
Enclosed, please find one copy of the subject report prepared by ASE Environmental.

This report was reviewed by our Oliver staff and our Standard Products Corporate Environmental personnel. We concur with its content, and findings, and look forward to bringing this project to a successful conclusion. Please note our request for site closure on page 7, we trust that this will be an acceptable resolution to this project.

Respectfully submitted,

OLIVER RUBBER COMPANY

THE STANDARD PRODUCTS COMPANY



Ronald L. Kessler
Division Manager



Tom O. Palmer
Director Environmental/Health
and Safety

c: Mr. Rich Hiett - Regional
Water Quality Control Board
David Allen - ASE

Kuhre:ACHCSA.089

Oliver Rubber Company

General Office: 1200 65th Street, P.O. Box 8447, Oakland, CA 94662 • (510) 654-7711 TWX 990106 (ORCO EMVL)
FAX (510) 655-6319
Oakland, CA • Athens, GA • Paris, TX • Asheboro, NC • Dallas, TX • Export, PA



Subsidiary of
THE STANDARD PRODUCTS Co.

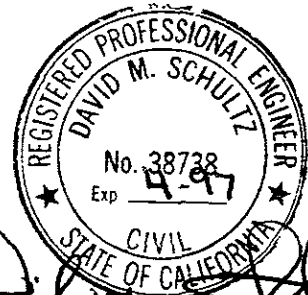


July 27, 1993

**QUARTERLY
GROUNDWATER MONITORING REPORT
FOURTH QUARTER - July 14, 1993**
for
The Oliver Rubber Company
1200 65th Street
Emeryville, California

Prepared for:
Mr. Ron Kessler
The Oliver Rubber Company
1200 65th Street
Emeryville, California

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583



1.0 INTRODUCTION

Site Location (Site), See Figure 1, Site Location Map

1200 65th Street
Emeryville, CA

Property Owner

The Oliver Rubber Company
1200 65th Street
Emeryville, CA
Contact: Mr. Ron Kessler
(510) 654-7711

Environmental Consulting Firm

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4
San Ramon, CA 94583
Contact: David Allen, Project Manager
(510) 820-9391

Agency Review

Alameda County Health Care Services Agency (ACHCSA)
80 Swan Way, Room 350
Oakland, CA 94621
Contact: Ms. Susan Hugo

RWQCB, San Francisco Bay Region
2101 Webster Street, Fourth Floor
Oakland, CA 94612
Contact: Mr. Rich Hiatt

This report details the fourth quarter of a quarterly groundwater monitoring program, as required by the RWQCB and the ACHCSA. Aqua Science Engineers, Inc. (ASE) has prepared this report on behalf of the property owner, The Oliver Rubber Company. This report is intended as a supplement to the following reports: "Project Report - Phase II Soil and Groundwater Assessment", produced by ASE in October, 1992 where three monitoring wells were installed; "Tank Pull" reports by Aqua Science Engineers, Inc. (ASE) dated December 5, 1991 and July 16, 1992. The December 5, 1991 report details the removal of two 8,000-gallon, underground, steel, non-halogenated organic solvent tanks; the July 16, 1992 report details the removal of one 1,000-gallon, underground, steel "Bunker Oil" tank.

Quarterly Groundwater Monitoring Report - July 14, 1993

2.0 SITE BACKGROUND

2.1 Physical Location

The site is located at the corner of 65th Street at Hollis Street within the city limits of Emeryville, California. The site is approximately 1/16 mile west of Interstate 80, and 1/16 mile south of Highway 13. The site is currently used as a manufacturing plant for rubber products. The topography of the immediate area is generally even and located at approximately 20 feet above mean sea level. (see Figure 1: Site Location Map).

2.2 Background and Site History

Between December 5, 1991 and July 16, 1992, ASE removed two 8,000-gallon underground, non-halogenated solvent storage tanks and one 1,000-gallon underground bunker oil storage tank. Underground tank removal activities were documented by ASE in the reports referenced in the previous sections. Detectable concentrations of total petroleum hydrocarbons as diesel (TPH-D), oil and grease, and several volatile organic compounds were found in the sidewalls of both excavations upon backfilling activities. It was determined that groundwater monitoring wells would be necessary to investigate the possibility of groundwater contamination from the leaking tanks. In October of 1992, three groundwater monitoring wells were installed, developed and sampled. The results of this investigation can be found in the October 1992 ASE report.

2.3 General Geology/Hydrogeology

The site rests on unconsolidated sediments primarily composed of clay. The eastern shoreline of the San Francisco Bay is located approximately 1/16 mile west of the site. Shallow groundwater in the area is located approximately 10-12 feet below grade at the site, and flows in a westerly direction towards the San Francisco Bay.

3.0 DRILLING AND GROUNDWATER WELL CONSTRUCTION

Monitoring wells MW-1, MW-2 and MW-3 were installed at the site on October 1, 1992 (Figure 2, Site Plan). The soil borings for well installation were drilled to 25 feet below ground surface using a CME-75 drill rig equipped with 8-inch diameter continuous flight, hollow-stem augers. All drilling equipment was steam-cleaned prior to use and between each boring. Groundwater was first encountered at approximately 15-17 feet below ground surface in each boring.

Two-inch diameter, 0.020-inch slotted, schedule 40 PVC well screen was installed from the bottom of each boring to 5 feet below the ground surface. Two-inch diameter schedule-40 PVC blank casing was installed above the slotted casing to the ground surface. The well casings were capped on the bottom with 2-inch diameter threaded female plugs and on top with 2-inch diameter locking security plugs. The annular space of each well was packed with No. 3 Monterey sand from the bottom of the boring to 4.5 feet below the surface. A 2-foot thick hydrated bentonite layer was placed above the sand pack. Class "H" Portland Cement was placed above the bentonite seal to the ground surface. The well heads were secured with concrete vaulted, water-tight, locking, steel, street boxes.

Presented below are the methods and findings of the fourth quarter of groundwater monitoring. Also included in this section are results of the previous quarter's sampling.

4.0 GROUND WATER SAMPLE COLLECTION AND CHEMICAL ANALYSIS

On July 14, 1993, ASE personnel arrived on-site. After measuring and recording the depths to groundwater in MW-1, MW-2, and MW-3, ASE purged five well casing volumes of groundwater from each well using an electric PVC pump. No free product or odor was noted from any well. After each well was purged, groundwater samples were collected from the well using polyethylene bailers. These bailers were washed with TSP soap and triple rinsed before use. A bailer blank was collected from each bailer just prior to use by pouring distilled water into each bailer and then decanting the water from the bailer into a 40-ml glass volatile organic analysis (VOA) vial. The bailer blanks were then transported to the laboratory with the groundwater samples and were held pending analytical results of the groundwater samples.

The groundwater samples were decanted from the bailer into VOA vials. All samples were labeled, placed in protective foam sleeves and placed on crushed ice for transport to Priority Environmental Labs in Milpitas, California (DHS No. 1707) under chain-of-custody. The analytical reports and chain-of-custody records are included in Appendix A. Well Sampling Field Logs are attached in Appendix B. Well purge water was placed in a 55-gallon steel DOT 17H drums and stored on-site pending analytical results.

The groundwater samples collected this quarter were analyzed for all or a combination of the following: TPH-G, TPH-D, benzene, toluene, ethylbenzene and xylenes (BTEX), oil & grease, volatile organic compounds (VOCs), pH, and electrical conductivity. The results are tabulated below in Tables One, Two and Three. These tables also contain results from previous quarters.

TABLE ONE
Summary of Chemical Analysis of WATER Samples
TPH as Gas, Diesel, BTEX, and Oil & Grease
EPA Methods 5030/8015, 3510/8015, 602, and 5520 C&F

Sample I.D.	TPH Gas (ppb)	TPH Diesel (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	Oil & Grease (ppm)
10/5/92							
MW-1	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	---	---	---	---	---	---	---
MW-3	---	---	---	---	---	---	---
1/18/93							
MW-1	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
4/16/93							
MW-1	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	---	---	---	---	---	---
MW-3	N.D.	---	---	---	---	---	---
7/14/93							
MW-1	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	---	---	---	---	---	---
MW-3	N.D.	---	---	---	---	---	---
EPA METHOD	5030/8015	3510/8015	602	602	602	602	5520 C&F

N.D. Non Detectable at analytical method limits
 ppm parts per million
 ppb parts per billion
 --- not analyzed

TABLE TWO
Summary of Chemical Analysis of Water Samples
Volatile Organics
EPA Method 624

Sample I.D.	All Volatile Organics
-----	-----
10/5/92	
MW-1	---
MW-2	N.D.
MW-3	N.D.
1/18/93	
MW-1	---
MW-2	N.D.
MW-3	N.D.
4/16/93	
MW-1	---
MW-2	N.D.
MW-3	N.D.
7/14/93	
MW-1	---
MW-2	N.D.
MW-3	N.D.
EPA METHOD	624

N.D. Non Detectable at analytical method limits
 --- not analyzed

TABLE THREE
Summary of Chemical Analysis of Water Samples
pH and Conductivity
EPA Methods 9045 and 120.1

Sample I.D.	pH	Conductivity
-----	-----	-----
4/16/93		
MW-1	6.8	810
MW-2	7.2	720
MW-3	6.9	970
EPA METHOD	9045	120.1

5.0 GROUNDWATER GRADIENT AND DIRECTION

The top of casing elevation of each well was surveyed relative to a project datum at the time of the well installation. The depths to groundwater were measured in each well on July 14, 1993 using an electric Solinst water level sounder. The top of casing elevations and July 14, 1993 depth to groundwater measurements are presented below in table four.

TABLE FOUR
Summary of Groundwater Well Survey Data

Well Number	Depth to Water (ft)	Top of Casing Elevation (project datum)	Groundwater Elevation (project elevation)
MW-1	6.82	20.00	13.18
MW-2	6.20	19.21	13.01
MW-3	6.11	19.80	13.69

Groundwater elevation contours are plotted on Figure 3. Groundwater flows to the west-southwest beneath the site at a gradient of 0.009 ft/ft which is consistent with previous results.

6.0 CONCLUSIONS

No hydrocarbons or volatile organic compounds were detected in any groundwater sample.

7.0 RECOMMENDATIONS

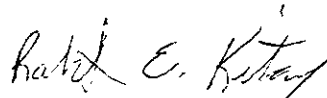
Since no hydrocarbons or volatile organic compounds have ever been detected in groundwater samples from any site well, and since the wells have now been sampled for four subsequent quarters, *please consider this report as a formal request for site closure.*

8.0 REPORT LIMITATIONS

The results of this investigation represent conditions at the time at which groundwater samples were collected, and for the specific parameters analyzed for by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks at the site, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CSDHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

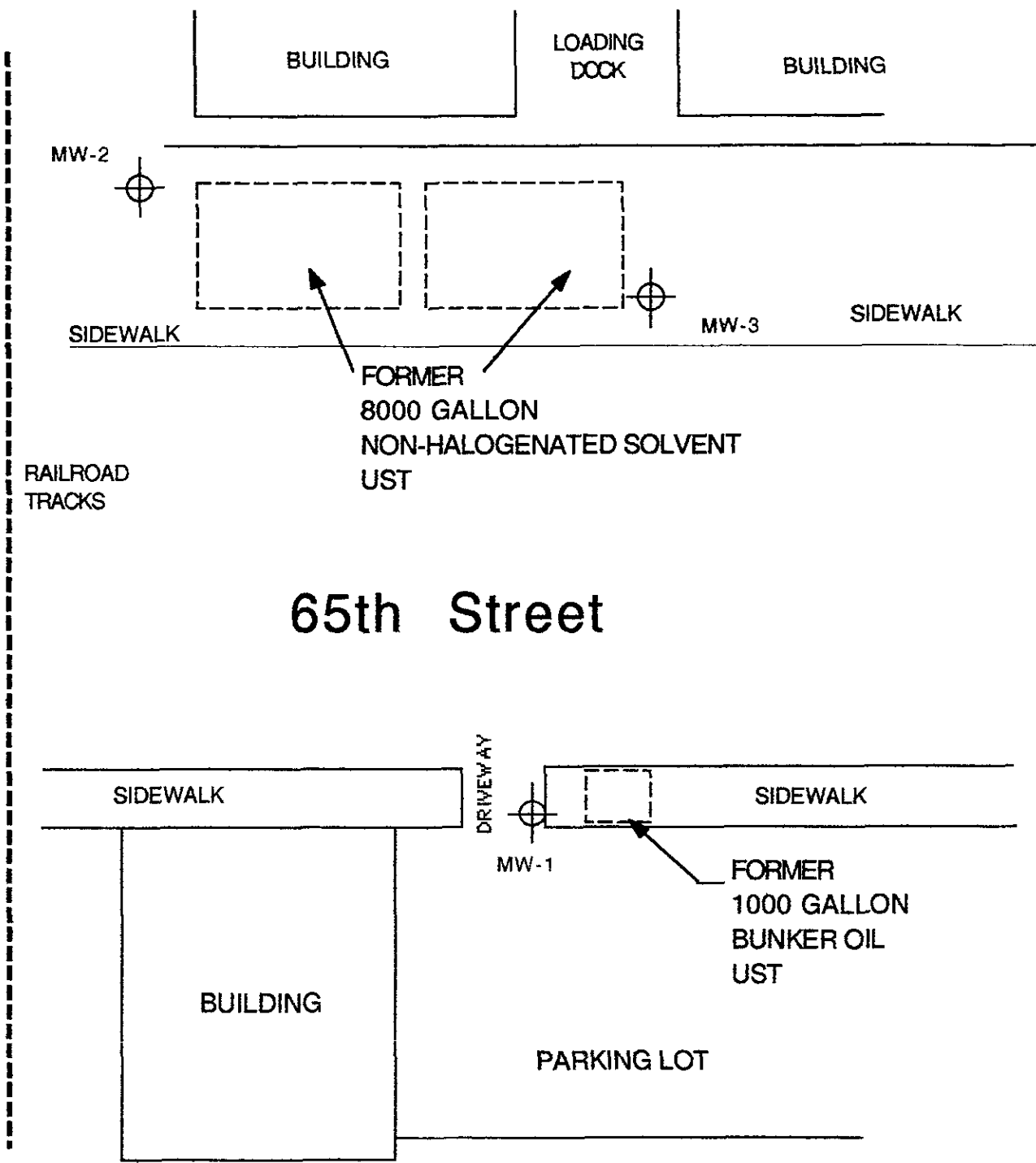


Robert E. Kitay
Project Geologist

cc: Ms. Susan Hugo, ACHCSA
Mr. Rich Hiatt, RWQCB, San Francisco Bay Region




SITE LOCATION MAP	
Oliver Rubber 1200 65th Street Emeryville, California	
Aqua Science Engineers	Figure 1




65th Street

LEGEND

MW-1
 Monitoring Well

N

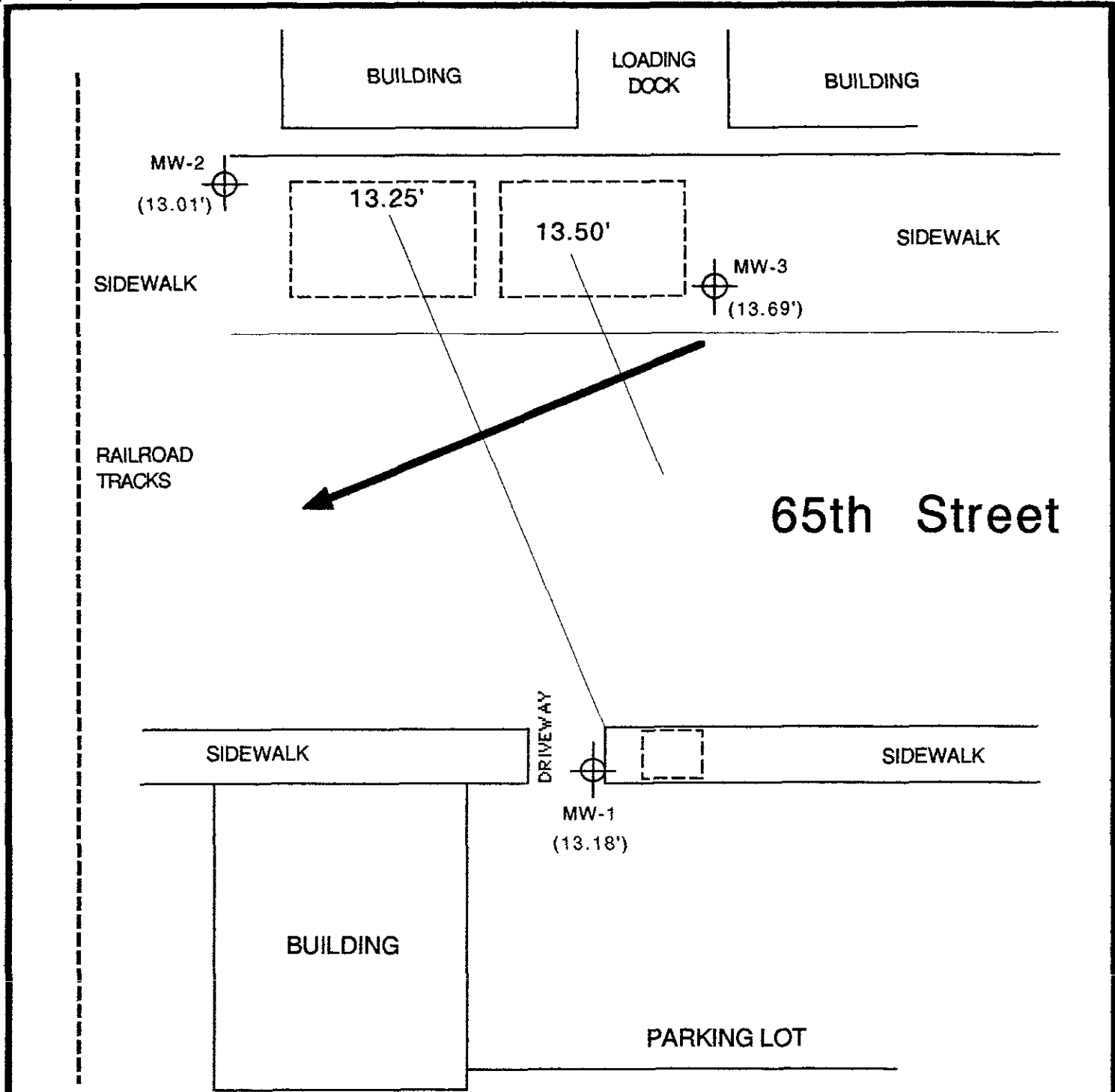
0 ft.  20 ft.

SCALE

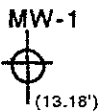
SITE PLAN

Oliver Rubber
 1200 65th Street
 Emeryville, California

Aqua Science Engineers | Figure 2



LEGEND



Monitoring well with groundwater elevation referenced to project datum



Groundwater elevation contour, approximately located



Groundwater flow direction

0 ft. 20 ft.

SCALE

GROUNDWATER ELEVATION
CONTOUR MAP (7/14/93)

Oliver Rubber
1200 65th Street
Emeryville, California

Aqua Science Engineers | Figure 3

APPENDIX A

**California EPA Certified Laboratory
Report of Groundwater Samples
and
Chain of Custody Record**



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 17, 1993

PEL # 9307036

AQUA SCIENCE ENGINEERS, INC.

Attn: David Allen

Re: Three water samples for pH, Gasoline/BTEX, Diesel, Oil & Grease, and Conductivity analyses.

Project name: Oliver Rubber Company

Project location: 1200 65th street _ Emeryville , CA .

Project number: 2516

Date sampled: Jul 14, 1993

Date submitted: Jul 16, 1993

Date extracted: Jul 16-17, 1993

Date analyzed: Jul 16-17, 1993

RESULTS:

SAMPLE I.D.	pH	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	Oil & Grease (mg/L)	Conductivity (uS)
MW-1	7.8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	730
MW-2	7.8	N.D.	---	---	---	---	---	---	880
MW-3	7.7	N.D.	---	---	---	---	---	---	620
Blank	7.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0
Spiked Recovery	---	88.2%	94.1%	85.2%	87.6%	82.4%	93.0%	---	---
Duplicate Spiked Recovery	---	95.1%	93.6%	94.8%	96.7%	90.4%	102.5%	---	---
Detection limit	0.05	50	50	0.5	0.5	0.5	0.5	0.5	10
Method of Analysis	9045	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F	120.1

David Duong
Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 19, 1993

PEL # 9307036

AQUA SCIENCE ENGINEERS, INC.

Attn: David Allen

Project name :Oliver Rubber Company

Project number: 2516

Project location: 1200 65th St., - Emeryville, CA.

Sample I.D.: MW-3

Date Sampled: Jul 14, 1993

Date Submitted: Jul 16, 1993

Date Analyzed: Jul 19, 1993

Method of Analysis: EPA 624

Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Acetone	N.D.	-----
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	81.2
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	90.7
Methylene Chloride	N.D.	-----
Trans-1,2-Dichloroethene	N.D.	86.4
1,1-Dichloroethane	N.D.	83.5
Chloroform	N.D.	-----
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	91.7
Trichloroethene	N.D.	94.3
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	85.5
Benzene	N.D.	94.1
Dibromochloromethane	N.D.	-----
Toluene	N.D.	87.8
Chlorobenzene	N.D.	93.9
Ethylbenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
Dichlorodifluoromethane	N.D.	-----
Freon 113	N.D.	104.6
M & P-Xylenes	N.D.	-----
O-Xylene	N.D.	90.9
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 19, 1993

PEL # 9307036

AQUA SCIENCE ENGINEERS, INC.

Attn: David Allen

Project name : Oliver Rubber Company

Project number: 2516

Project location: 1200 65th St., - Emeryville, CA.

Sample I.D.: MW-2

Date Sampled: Jul 14, 1993

Date Submitted: Jul 16, 1993

Date Analyzed: Jul 19, 1993

Method of Analysis: EPA 624

Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Acetone	N.D.	-----
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	81.2
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	90.7
Methylene Chloride	N.D.	-----
Trans-1,2-Dichloroethene	N.D.	86.4
1,1-Dichloroethane	N.D.	83.5
Chloroform	N.D.	-----
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	91.7
Trichloroethene	N.D.	94.3
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	85.5
Benzene	N.D.	94.1
Dibromochloromethane	N.D.	-----
Toluene	N.D.	87.8
Chlorobenzene	N.D.	93.9
Ethylbenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
Dichlorodifluoromethane	N.D.	-----
Freon 113	N.D.	104.6
M & P-Xylenes	N.D.	-----
O-Xylene	N.D.	90.9
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong

Laboratory Director

Aqua Science Engineers, Inc.
 2411 Old Crow Canyon Road, #4,
 San Ramon, CA 94583
 (510) 820-9391 - FAX (510) 837-4853

Chair

PEL # 9307036

INV # 23793

dy

DATE 7-14-93 PAGE 1 OF 1

SAMPLERS (SIGNATURE)

Richard C. Kistner

(PHONE NO.)

(510) 820-9391

PROJECT NAME

Oliver Rubber Company

NO. 2516

ADDRESS

1200 65th Street, Emeryville, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	PURGABLE HALOCARBOIS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F OF 8&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC-CAM WET (EPA 1311/1310)	REACTIVITY CORROSION IGNITABILITY	pH	Conductivity	HOLD	
																					MW 1
MW 2	7/14	12:25	Water	4	X					X								X	X		
MW 3	7/14	13:00	Water	4	X					X								X	X		
PB 1	7/14	13:30	Water	1						X								X	X		
PB 2	7/14	12:20	Water	1																X	
PB 3	7/14	13:00	Water	1																X	

RELINQUISHED BY <i>W. Sasse</i> (signature)	RECEIVED BY (signature)	RELINQUISHED BY: (signature)	RECEIVED BY LABORATORY: <i>[Signature]</i> (signature)	COMMENTS:
8:00am (time)	 (time)	 (time)	8:00am (time)	
<i>W. Sasse</i> (printed name)	 (printed name)	 (printed name)	 (printed name)	
7/16/93 (date)	 (date)	 (date)	7/16/93 (date)	
Company- ASE	Company-	Company-	Company- PEL	

APPENDIX B

Well Sampling Field Logs

WELL SAMPLING FIELD LOG

Aqua Science Engineers, Inc, San Ramon, CA 94583

Project Name: OLIVER Rubber
Project Address: 1200 65th Street, Emeryville
Job # 2571 Date of sampling: 7-14-73
Completed by: REK
Well Number / Designation: MW-1
Top of casing elevation: 17.80'
Total depth of well casing: 24.64' Well diameter: 2"
Depth to water (before sampling): 6.82'
Thickness of floating product if any: None
Depth of well casing in water: 17.82'
Req'd volume of groundwater to be purged before sampling: 15 gallons
Approximate volume of groundwater purged: 15 gallons
Type of seal at grade: concrete
Type of cap on the casing: locking
Is the seal water tight? yes Is the cap water tight? yes
Number of samples (containers) collected 3
Did 40 ml VOA vials have headspace: no
Were sample containers chilled after sampling & for delivery? yes
Are Chain of Custody documents accompanying the samples: yes
Sample temperature: 17°
Sample pH: _____ Test method: 909K
Conductivity: _____ Test method: 1261
Physical description of water during initial bailing period:
slightly silty
Physical description of water sample: clear
Type of analysis requested: TPH-C
Volatiles Organics
pH
conductivity
Type of bailer/sampling equipment used: polyethylene
Equipment decontamination procedures: TSP Wash w/ triple rinse
Bailer blank BB 3 collected before use
Disposition of bailed water volume:
Drained on-site

WELL SAMPLING FIELD LOG

Aqua Science Engineers, Inc. San Ramon, CA 94583

Project Name: OLIVER Rubber
 Project Address: 7200 65th Street, Emeryville, CA
 Job # 2571 Date of sampling: 7-14-93
 Completed by: REK
 Well Number / Designation: MW-2
 Top of casing elevation: 19.2'
 Total depth of well casing: 2448' Well diameter: 7"
 Depth to water (before sampling): 6.20
 Thickness of floating product if any: None
 Depth of well casing in water: ~~18.28'~~ 18.28'
 Req'd volume of groundwater to be purged before sampling: 15 gallons
 Approximate volume of groundwater purged: 16 gallons
 Type of seal at grade: Cement
 Type of cap on the casing: locking
 Is the seal water tight? Yes Is the cap water tight? Yes
 Number of samples (containers) collected 4
 Did 40 ml VOA vials have headspace: No
 Were sample containers chilled after sampling & for delivery? Yes
 Are Chain of Custody documents accompanying the samples: Yes
 Sample temperature: 19°C
 Sample pH: _____ Test method: 9040
 Conductivity: _____ Test method: 1201
 Physical description of water during initial bailing period:
Slightly salty
 Physical description of water sample: clear
 Type of analysis requested: TPT-6
Volatiles Organics
pH
Conductivity
 Type of bailer/sampling equipment used: polyethylene
 Equipment decontamination procedures: TSP wash and triple tap water
rinse Buckler bucket B3B-2 collection bucket use
 Disposition of bailed water volume:
Drained on-site

WELL SAMPLING FIELD LOG

Aqua Science Engineers, Inc. San Ramon, CA 94583

Project Name: OLIVER RUBBER
Project Address: 1200 65th Street, Emeryville, CA
Job # 2571 Date of sampling: 7-14-93
Completed by: REL
Well Number / Designation: MW-3
Top of casing elevation: 20.0'
Total depth of well casing: 24.02' Well diameter: 2"
Depth to water (before sampling): 6.11'
Thickness of floating product if any: None
Depth of well casing in water: 17.91'
Req'd volume of groundwater to be purged before sampling: 15 gal
Approximate volume of groundwater purged: 15 gal
Type of seal at grade: concrete
Type of cap on the casing: lock
Is the seal water tight? Y Is the cap water tight? Y
Number of samples (containers) collected 4
Did 40 ml VOA vials have headspace: No
Were sample containers chilled after sampling & for delivery? Y
Are Chain of Custody documents accompanying the samples: Y
Sample temperature: 19°C
Sample pH: _____ Test method: 9040
Conductivity: _____ Test method: 1201
Physical description of water during initial bailing period: Slightly dirty
Physical description of water sample: clear
Type of analysis requested: TFH-D
BTEX
0.1 & Grease
pH
Conductivity
Type of bailer/sampling equipment used: polyethylene
Equipment decontamination procedures: TSP wash and triple tap water
rinse 3x blank 3x 3 collected before sampling
Disposition of bailed water volume: Disposed on site