

ENVIRONMENTAL
PROTECTION
Jonas & Associates Inc.

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**GROUNDWATER MONITORING REPORT
Sampling Round Seven**

**FORMER OAKLAND GENERAL TIRE
1201 14th Avenue
Oakland, California**

March 2, 1999

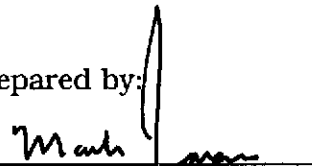
Report Prepared for:

CONTINENTAL GENERAL TIRE, INC.
1800 Continental Boulevard
Charlotte, North Carolina 28273

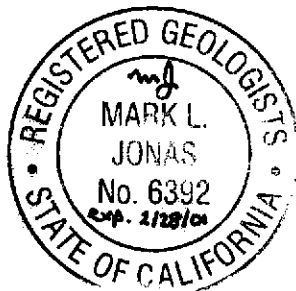
GROUNDWATER MONITORING REPORT
Sampling Round Seven
Former Oakland General Tire
1201 14th Avenue
Oakland, California

Jonas and Associates Inc. Job No. GT-213

Prepared by:



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March 2, 1999

Jonas & Associates Inc.

GROUNDWATER MONITORING REPORT
Sampling Round Seven
Former Oakland General Tire
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GROUNDWATER MONITORING REPORT
Sampling Round Seven

FORMER OAKLAND GENERAL TIRE
1201 14th Avenue
Oakland, California

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- Appendix C: Laboratory Reports



JONAS & ASSOCIATES INC.

Environmental Consultants
ENVIRONMENTAL PROTECTION

2815 Mitchell Drive, Suite 209 • Walnut Creek, CA 94598 • Tel: (510) 933-5360 • Fax: (510) 933-5362
99 MAR 5 PM 4:50 425

March 2, 1999

Ms. Madhulla Logan
Hazardous Materials Specialist
Department of Environmental Health
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502
(510) 567-6764; 337-9335 fax

Subject: Transmittal of the "Groundwater Monitoring Report, Sampling Round Seven, Former Oakland General Tire, 1201 14th Avenue, Oakland, California."

Project: Former Oakland General Tire
1201 14th Avenue, Oakland, California
J&A #: PCO-220

Dear Madhulla:

Attached is the March 2, 1999 "Groundwater Monitoring Report, Sampling Round Seven, Former Oakland General Tire, 1201 14th Avenue, Oakland, California". This report presents the procedures and results associated with the Round Seven (January 27, 1999) groundwater sampling event. Procedures and results associated with Round Six (October 13, 1998) are presented in the October 16, 1998 "Hydraulic Lift Excavation Report."

With quarterly monitoring the next sampling round is scheduled for April 1999. But we would like you to consider a semi-annual event with a sampling round in July 1999. We will call you to discuss this option.

Please call if you have any questions or comments.

Sincerely,
JONAS AND ASSOCIATES INC.

Mark L. Jonas
Mark L. Jonas, R.G.
Project Manager

attachment: One copy of the March 2, 1999 "Groundwater Monitoring Report, Sampling Round Seven, Former Oakland General Tire, 1201 14th Avenue, Oakland, California."

cc: Mr. Mike McNally (Continental General Tire Inc.)

GROUNDWATER MONITORING REPORT
Sampling Round Seven

FORMER OAKLAND GENERAL TIRE
1201 14th Avenue, Oakland, California

March 2, 1999

1.0 INTRODUCTION

Jonas and Associates Inc. (J&A) has been retained by Continental General Tire, Inc. (General Tire) to perform the groundwater monitoring program at their former property located at 1201 14th Avenue, in Oakland, California 94606. To date, seven groundwater sampling rounds have been performed at this facility. The first five rounds are presented in previous groundwater monitoring reports, identified in Section 4.0 References. Procedures and results associated with sampling round six were presented in the October 16, 1998 "Hydraulic Lift Excavation Report." The following report presents the results of the seventh groundwater sampling round performed on January 27, 1999.

General Tire's environmental representative for this project is Mr. Mike McNally {(704) 583-8561}. The lead agency for this project is the Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Division (Alameda County Health Services). The address of Alameda County Health Services is 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502. The agency representative is Ms. Madhulla Logan {(510) 567-6764}.

1.1 Site Description

The former Oakland General Tire facility presented in this report is located at 1201 14th Avenue, in Oakland, California, in the County of Alameda. Prior to 1991, General Tire had an active facility at this location. The facility was primarily associated with tire sales and installation, with some minor auto repair (EMG, 1990). The property was sold in December 1998.

On the property is a single story, irregularly shaped building. It was built in 1960 and is situated along the north edge of a triangular shaped lot with dimensions of approximately 126' by 248' by 279'. Adjacent to the Oakland General Tire property is Style Center Cleaners, located at 1353 East 14th Street. Style Center Cleaners is an active dry cleaning facility and may be contributing to local groundwater contamination.

Across 14th Avenue and to the south is a restaurant located in what appears to have been a gas station. To the west are railroad tracks and the Nimitz Freeway. Beyond the Nimitz Freeway is the Port of Oakland. To the east and on the corner of East 12th Street and 14th Avenue is Armstrong Tire, which appears to operate a business similar to General Tire. Figure 1-1 presents the regional location of the former Oakland General Tire facility.

1201 14th Avenue
Oakland, California



1" = 1/2 MILE

REGIONAL LOCATION
GENERAL TIRE, CO.
1201 14TH AVENUE
OAKLAND, CALIFORNIA

Figure 1-1

Drawing Number
GT213-11/95-F1-1

1.2 Scope of Report

This "Groundwater Monitoring Report, Sampling Round Seven" is presented in four sections and three appendices. Section 1, Introduction, provides a brief description of the site and the scope of the report. Section 2, Monitoring Wells and Hydrogeology, presents general well construction details for the four monitoring wells, the results of elevation and location surveys, and a local hydrogeologic cross-section. Section 3, Groundwater Sampling and Analysis, present Round Seven groundwater sampling procedures and results, along with water level and free product measurements. Section 4, References, cites various references relevant to this report.

The appendices of the report include groundwater analysis summary tables, chain-of-custody records, and laboratory data sheets.

2.0 MONITORING WELLS AND HYDROGEOLOGY

This section of the report presents a brief history and construction details of the four monitoring wells located at the former Oakland General Tire 1201 14th Avenue facility. In addition, a summary of the location and elevation surveys performed by Kier & Wright is provided. A local hydrogeologic cross-section is also presented using lithologic logs from on-site monitoring well boreholes.

2.1 Monitoring Wells

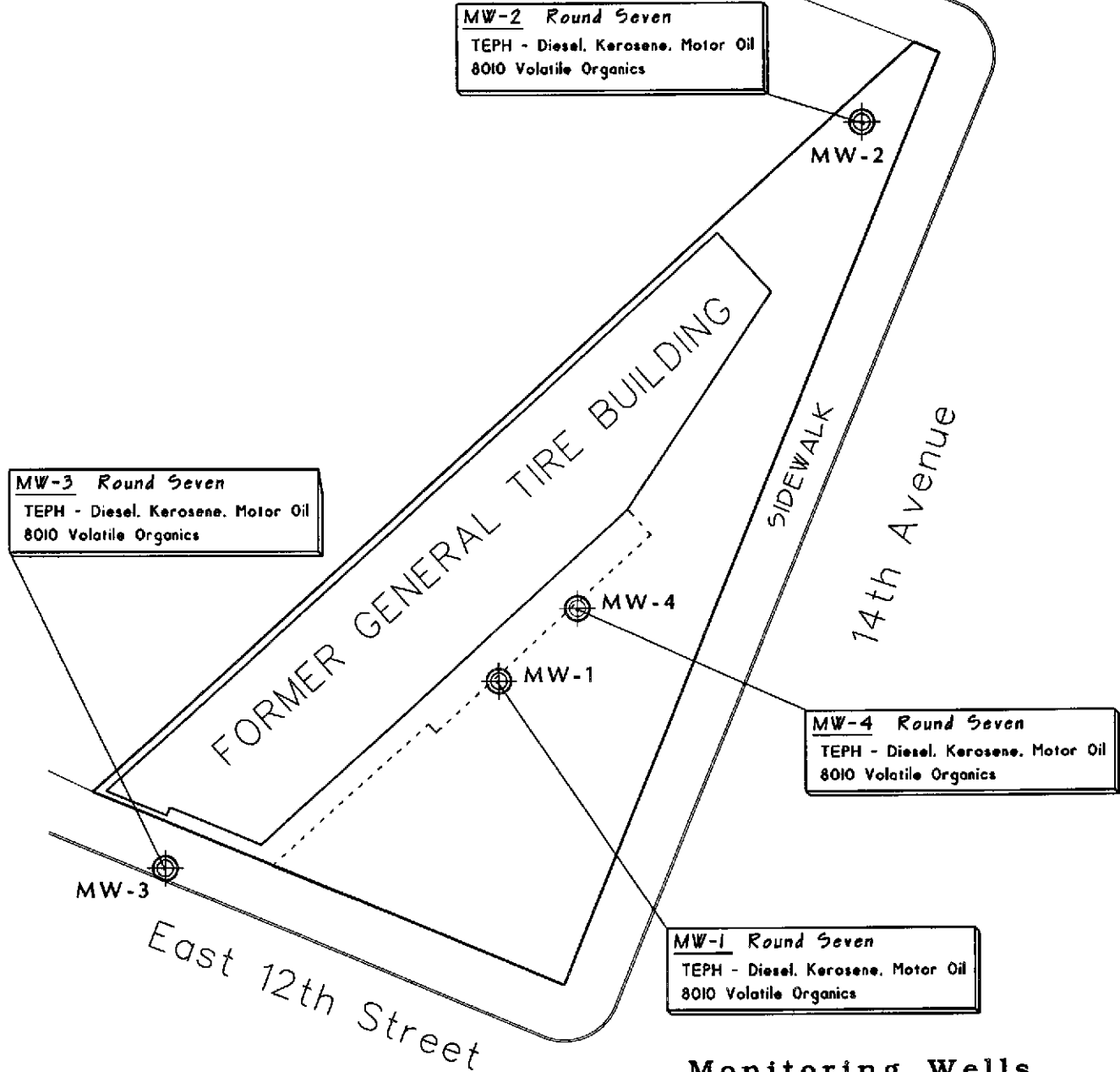
Four monitoring wells are located at the former Oakland General Tire facility. The first monitoring well was drilled and installed by H⁺GCL Environmental Scientist and Engineers (H⁺GCL) around March 1992. The H⁺GCL April 1992 "Phase II Investigation, 1201 14th Avenue, Oakland, California" presents the installation details and a lithologic log associated with monitoring well MW-1. Monitoring wells MW-2 and MW-3 were drilled and installed on September 7, 1993, by Advance Drilling Company, Inc. (C-57 License #607458). The installation details and rationale for monitoring wells MW-2 and MW-3 are presented in the J&A October 26, 1994 "Environmental Site Investigation Report, General Tire Oakland Facility, General Tire, Inc., 1201 14th Avenue, Oakland, California". Monitoring well MW-4 was installed on December 11, 1998 with a graphic description in the December 23, 1998 "Site Remediation" report. All of the monitoring wells are apparently screened in transmissive sandy silty clay to silty clay found underneath the facility. Figure 2-1 presents the locations of the four monitoring wells, the Round Seven analyses performed for each well, the site boundary, the building on the site, and the adjacent Style Center Cleaners.

2.1.1 Construction Details

All of the four monitoring wells are constructed in boreholes drilled to depths of 16.5 feet. Each of the monitoring wells have a ten foot well screen set approximately 5.5 to 15.5 feet below ground surface (bgs). Monitoring well MW-1 has a casing and screen diameter of two inches, which was placed in an 8 inch borehole. Monitoring wells MW-2, MW-3, and MW-4 have a casing and screen diameter of four inches, each placed in an 8½ to 9 inch borehole.

As reported by H⁺GCL (1992), monitoring well MW-1 was installed at the Oakland General Tire facility. It apparently was constructed around March 1992. The well was installed in front of and on the southeast side of the only building on the site. The lithology encountered during drilling reported ranged from a silty sand, clay and cobbles, fill material, and sandy clay. During drilling, first water was encountered at an approximate depth of 7.5 feet bgs. The monitoring well was then installed using a 2-inch PVC casing and screen with a slot size of 0.01 inches. The monitoring well screen was set at a depth range of 5.5 to 15.5 feet bgs. A christy-box was then installed, with the top of the PVC casing set 0.29 feet (Kier & Wright, 1993) below the asphalt ground surface. After the screen was installed, the well water level was measured at 9.02 feet bgs on October 5, 1993.

Well	Date Installed	Total Depth	Casing Diameter	Borehole Diameter	Screen Depth	Sand Pack Depth
MW-1	3/1992	16.5'	2"	8"	5.5'-15.5'	5'-16.5'
MW-2	9/7/1993	16.5'	4"	8.5"	5.5'-15.5'	5'-16.5'
MW-3	9/7/1993	16.5'	4"	8.5"	5.5'-15.5'	5'-16.5'
MW-4	12/11/98	16.5'	4"	9"	5.5'-15.5'	4.5'-16.5'



Legend:

⊕ Monitoring Well

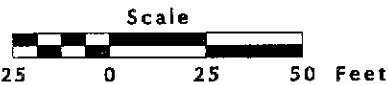
With groundwater analyses performed during Round Seven (January 27, 1999)

TEPH = Total Extractable Petroleum Hydrocarbons

**Monitoring Wells
and Round Seven
Groundwater Analyses**

Former General Tire
1201 14th Avenue
Oakland, California

Prepared by
JONAS & ASSOCIATES INC.



Date: 2/5/99
Locations Approx.

Figure 2-1

Drawing Number
GT213-2/99:F2-1



Monitoring well MW-2 is located adjacent to and southeast of Style Center Cleaners. The rationale for installing this well was to provide an upgradient characterization of water quality entering onto the facility. Subsequent water level measurements have found that monitoring well MW-2 is an upgradient well. As stated previously, the well was installed on September 7, 1993. The lithology encountered during drilling ranged from a sandy silty clay to a silty clay. First water was measured at an approximate depth of 12.1 feet bgs. The monitoring well has a 4-inch PVC casing and a screen with a slot size of 0.020 inches. The well screen was set at a depth range of 5.5 to 15.5 feet bgs. A christy-box was installed with the top of the PVC casing set 0.59 feet (Kier & Wright, 1993) below the ground surface. On October 5, 1993 water level in monitoring well MW-2 was measured at 7.39 feet bgs.

Monitoring well MW-3 was also constructed on September 7, 1993. The well was installed in the sidewalk, adjacent to the southwest border of the former Oakland General Tire facility. The well was installed to determine the water table direction and gradient across the site. The lithology encountered during drilling ranged from sandy silty clay to clayey sand to a silty clay between 5.5 and 16.5 feet bgs. During drilling, first water was not able to be clearly identified because of the predominance of silty clay in the borehole. The monitoring well was then installed using a 4-inch PVC casing and screen with a slot size of 0.020 inches. The screen was set between a depth range of 5.5 to 15.5 feet bgs. A christy-box was installed, with the top of the PVC casing set 0.44 feet (Kier & Wright, 1993) below the pavement. On October 5, 1993 the water level in monitoring well was measured at 10.94 feet bgs.

Monitoring well MW-4 was installed on December 11, 1998 as a result of excavation activities associated with removal of hydraulic lifts from the facility. This well is located downgradient of several former excavations. Monitoring well MW-4 is located approximately 35 feet northwest of monitoring well MW-1. The lithology encountered during drilling was predominantly a sandy silty clay. First water was measured at an approximate depth of 8 feet bgs. The monitoring well has a 4-inch PVC casing and a screen with a slot size of 0.020 inches. The well screen was set at a depth range of 5.5 to 15.5 feet bgs. A christy-box was installed. The approximate elevation of monitoring well MW-4 is assumed to be similar to monitoring well MW-1, with a surface elevation of 18.6 feet and top of the PVC casing at 18.3 feet. On January 27, 1999 water level in monitoring well MW-4 was measured at 6.1 feet bgs.

The following Table 2-1 present a summary of construction details for monitoring wells MW-1, MW-2, MW-3, and MW-4.

Table 2-1
Monitoring Well Construction Details
Former Oakland General Tire - 1201 14th Avenue

Well Number	Date Completed	Casing Diameter	~ Depth in feet bgs					Borehole Diameter
			Screen	Sand Pack	Bentonite Seal	Portland Cement ¹	Borehole	
MW-1	~ 3/1992	2"	5½ - 15½	~ 5 - 16½	?	?	16½	8"
MW-2	9/7/1993	4"	5½ - 15½	5 - 16½	4½ - 5	~ ¼ - 4½	16½	8½"
MW-3	9/7/1993	4"	5½ - 15½	5 - 16½	4½ - 5	~ ¼ - 4½	16½	8½"
MW-4	12/11/1998	4"	5½ - 15½	4½ - 16½	3½ - 4½	~ ¼ - 3½	16½	9"

2.1.2 Monitoring Well Survey

During November 1993, monitoring wells MW-1, MW-2, and MW-3 were surveyed by Kier & Wright. The locations of the wells were surveyed using the California State Coordinate System, which identifies the well locations using Eastings and Northings, in feet. The monitoring wells were surveyed at a punch mark at the north rim of the christy-box and at a north notch in the PVC casing. The survey was based on the City of Oakland Benchmark 1521, located at 15th Avenue and 14th Street. Because of its proximity to monitoring well MW-1 and relatively flat surface, the elevation of monitoring well MW-4 is assume to be similar to MW-1. The following Table 2-2 presents the monitoring well survey results and assumed elevation of monitoring well MW-4.

Table 2-2
Monitoring Well Survey Data
Former Oakland General Tire - 1201 14th Avenue

Well	Easting	Northing	M.S.L. ¹ Elevation
MW-1	1495579.17'	474023.22'	Top PVC ² : 18.29' rim ³ : 18.58'
MW-2	1495664.73'	474169.72'	Top PVC: 20.18' rim: 20.77'
MW-3	1495474.96'	473977.93'	Top PVC: 19.55' rim: 19.99'
MW-4			Top PVC: 18.3' ⁴ rim: 18.6" ⁴

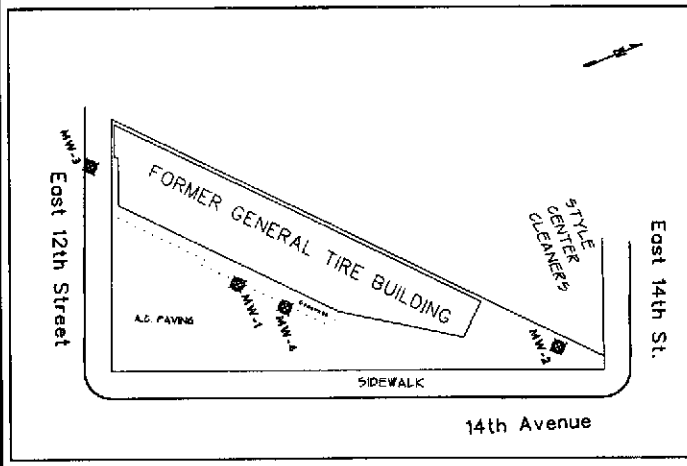
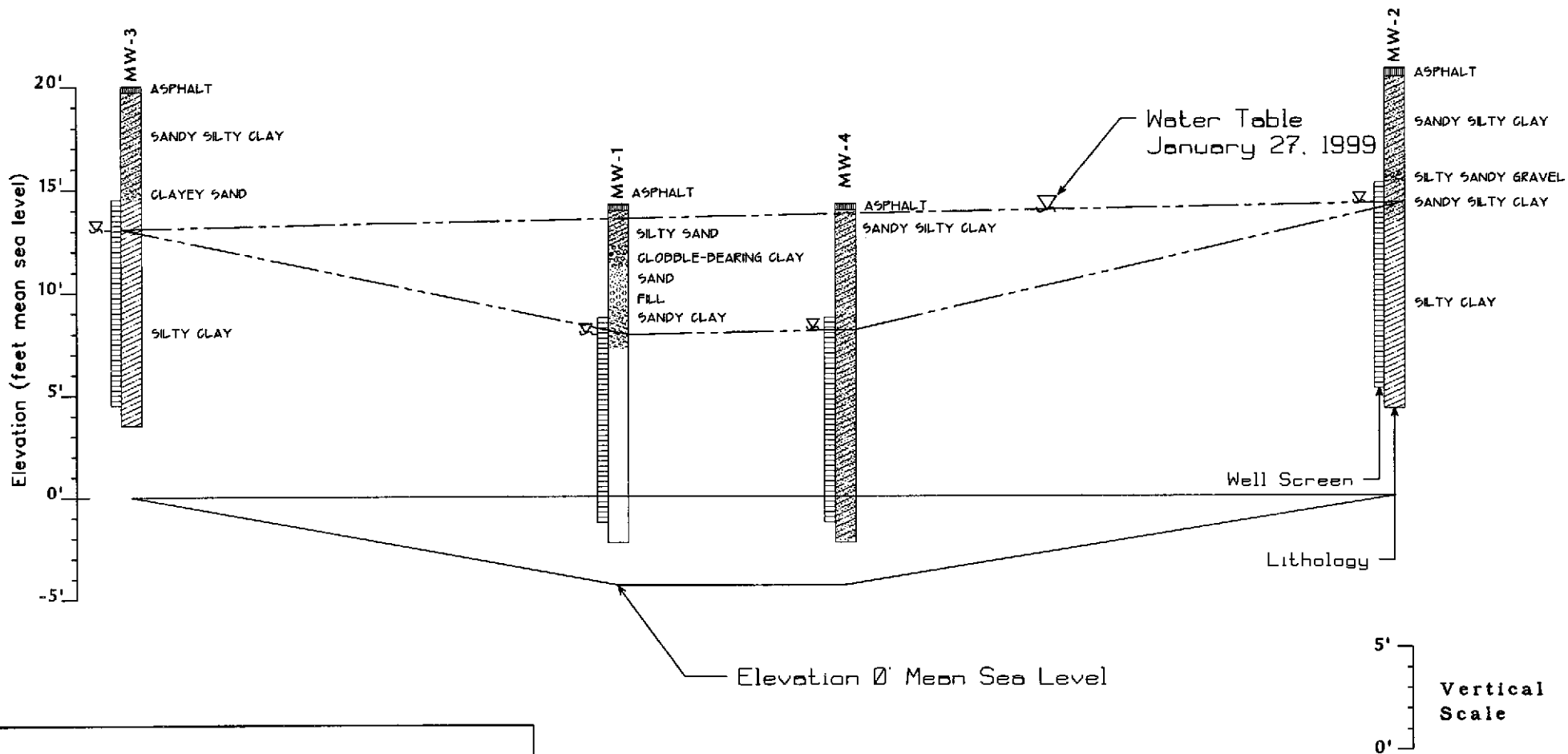
¹ M.S.L. = Mean Sea Level.

³ rim = North rim of christy-box.

² Top PVC = Top north edge of PVC casing. ⁴ Assumed to be similar to MW-1.

2.2 Hydrogeologic Cross Section

Figure 2-2 presents a hydrogeologic cross section using potentiometric and lithologic data associated with the monitoring wells.



Hydrogeologic Cross Section

**Former General Tire
1201 14th Avenue
Oakland, California**

Prepared by
JONAS & ASSOCIATES INC.

Date: 2/5/1999	Figure 2-2	Drawing Number
Locations Approx.		GT213-2/99:F2-2

3.0 ROUND SEVEN GROUNDWATER SAMPLING AND ANALYSIS

Following is a discussion of the procedures and results associated with Round Seven groundwater sampling of monitoring wells MW-1, MW-2, MW-3, and MW-4. Sampling for Round Seven occurred on January 27, 1999 and represents winter seasonal conditions. Also presented in this section are water level and free product measurements.

A summary of all laboratory results from samples collected from the on-site monitoring wells are presented in Appendix A. The chain-of-custody records for the January 27, 1999 Round Seven are presented in Appendix B. The laboratory data sheets associated with these sampling events are presented in Appendix C.

3.1 Groundwater Sampling Procedures

During the January 27, 1999 sampling event, the general groundwater sampling procedures presented in the "Environmental Site Investigation Work Plan" (J&A 1993) for the facility were followed. After samples were collected and labeled, they were placed into ice chests chilled with blue ice for transport to the Chromalab analytical laboratory. Chain-of-custody records were completed and signed by representatives of Jonas & Associates Inc. and, upon delivery, by a representative of Chromalab. The analysis and results of groundwater samples collected during Round Seven are presented in Section 3.2. The following section presents relevant information associated with the sampling of each of the four monitoring wells.

Sampling Monitoring Well MW-1

Prior to purging the well, the depth to groundwater in monitoring well MW-1 was measured at 6.02 feet below the top of the casing. This measurement was collected on January 27, 1999. The water level was measured with an electronic water level indicator on a stretch-resistant measuring tape. After measuring the depth to groundwater, a clear bailer was placed into the well to collect a water sample for visual observations. No petroleum products were identified floating on groundwater in monitoring well MW-1. After assessing for the presence of floating product, approximately 8 gallons of groundwater was removed from the 2" well. A well volume was calculated at approximately 1.7 gallons. Temperature and pH were measured initially and after each four gallons of purging. These parameters appeared to stabilize and were recorded on a groundwater sampling form. Monitoring well MW-1 appeared to recover moderately well during purging activities. Purged water was collected in a dated and labeled 55-gallon drum for temporary storage. After purging the well, groundwater samples were collected with a clean bailer. Two one-liter containers were collected for analysis of Total Extractable Petroleum Hydrocarbons as -Diesel, -Kerosene, and -Motor Oil (TEPH -Diesel, -Kerosene, & -Motor Oil; EPA Method 3550/8015M); and three Volatile Organic Analysis (VOA) containers with HCl preservative were collected for analyses for Volatile Halogenated Organics (8010

Compounds by EPA Method 8260A). The Round Seven groundwater samples from monitoring well MW-1 are identified as GT3-MW1.

Sampling Monitoring Well MW-2

Prior to purging the well on January 27, 1999, the depth to groundwater in monitoring well MW-2 was measured at 5.88 feet below the top of the casing. The water level was measured with an electronic water level indicator on a stretch-resistant measuring tape. After measuring the depth to groundwater, a clear bailer was placed into the well to collect a water sample for visual observations. No petroleum products were identified floating on groundwater in monitoring well MW-2. After assessing for the presence of floating product, approximately 15 gallons of groundwater were removed from the well. A well volume was calculated at approximately 7 gallons. During purging activities, the temperature and pH of the extracted groundwater were measured and appeared to stabilize. During purging the well went dry and was allowed to recover prior to sampling. Two one-liter containers were collected for analysis of TEPH -Diesel, -Kerosene, & -Motor Oil (EPA Method 3550/8015M); and three VOA containers with HCl preservative were collected for analyses for Volatile Halogenated Organics (8010 Compounds by EPA Method 8260A). The Round Seven groundwater sample from monitoring well MW-2 is identified as GT3-MW2.

Sampling Monitoring Well MW-3

For the Round Seven sampling event, on January 27, 1999, the groundwater level in monitoring well MW-3 was measured at 6.50 feet below the top of the casing. After measuring the depth to groundwater, a clear bailer was placed into the well to collect a water sample for visual observations. No floating product was observed. After assessing for the presence of floating products, approximately 13 gallons of groundwater was removed from the well. A well volume was calculated at approximately 6.5 gallons. Temperature and pH of the purge water were measured and appeared to stabilize. During purging the well went dry and after the well recovered, two one-liter containers were collected for analysis of TEPH -Diesel, -Kerosene, & -Motor Oil (EPA Method 3550/8015M); and three VOA containers with HCl preservative were collected for analyses for Volatile Halogenated Organics (8010 Compounds by EPA Method 8260A). The Round Seven groundwater sample from monitoring well MW-3 is identified as GT3-MW3.

Sampling Monitoring Well MW-4

Prior to purging the well on January 27, 1999, the depth to groundwater in monitoring well MW-4 was measured at 5.82 feet below the top of the casing. No floating petroleum products were identified. The well was pumped dry after purging approximately 9.5 gallons of groundwater. After the well recovered, two one-liter containers were collected for analysis of TEPH -Diesel, -Kerosene, & -Motor Oil (EPA Method 3550/8015M); and three VOA containers with HCl preservative were collected for analyses for Volatile Halogenated Organics (8010 Compounds by EPA Method

8260A). The Round Seven groundwater sample from monitoring well MW-4 is identified as GT3-MW4.

3.2 Groundwater Sampling Results

This section of the report presents the analytical results for the Round Seven groundwater sampling event. Water level and free product measurements are also presented.

3.2.1 Analytical Results For January 1999 Sampling Event

As stated previously, summary tables, the Round Seven chain-of-custody records, and laboratory data sheets are presented in Appendix A, B, and C, respectively. The following Table 3-1 present a summary of the analyses performed and the analytes detected during the Round Seven groundwater sampling event. Figure 3-1 provides a graphical display of the Round Seven analytical results.

Table 3-1
January 1999 - Round Seven
Groundwater Sampling Results

Sample I.D.	Analysis	Detected Analytes	(in mg/L)
GT3-MW1	TEPH as Diesel, Kerosene, Motor Oil (3550/8015M) Volatile Halogenated Organics (8010)	Diesel	0.410
		1,1-DCA	0.0016
		cis 1,2-DCE	0.0030
		trans 1,2-DCE	0.00057
		TCE	0.0024
GT3-MW2	TEPH as Diesel, Kerosene, Motor Oil (3550/8015M) Volatile Halogenated Organics (8010)	none detected	
		1,1-DCE	0.00068
		cis 1,2-DCE	0.019
		trans-1,2-DCE	0.00064
		PCE	0.0035
		TCE	0.029
GT3-MW3	TEPH as Diesel, Kerosene, Motor Oil (3550/8015M) Volatile Halogenated Organics (8010)	none detected	
		none detected	
GT3-MW4	TEPH as Diesel, Kerosene, Motor Oil (3550/8015M) Volatile Halogenated Organics (8010)	none detected	
		cis 1,2-DCE	0.010
		trans 1,2-DCE	0.004
		TCE	0.008

Legend - TEPH: Total Extractable Petroleum Hydrocarbons
cis 1,2-DCE: cis 1,2-Dichloroethene; 1,1-DCA: 1,1-Dichloroethane;
TCE: Trichloroethene; PCE: Tetrachloroethene

Well	Date Installed	Total Depth	Casing Diameter	Borehole Diameter	Screen Depth	Sand Pack Depth
MW-1	~3/1992	16.5'	2"	8"	5.5'-15.5'	~5'-16.5'
MW-2	9/7/1993	16.5'	4"	8.5"	5.5'-15.5'	5'-16.5'
MW-3	9/7/1993	16.5'	4"	8.5"	5.5'-15.5'	5'-16.5'
MW-4	12/11/98	16.5'	4"	9"	5.5'-15.5'	4.5'-16.5'

MW-2 (Water Elev.:+14.30')
January 27, 1999 sampling results:

(mg/L)		(mg/L)	
TEPH-Diesel	ND(0.050)	Detected Method 8010 Volatile Organics:	
TEPH-Kerosene	ND(0.050)	Vinyl Chloride 0.0065	
TEPH-Motor Oil	ND(0.500)	1,1-DCE	0.00068
		trans-1,2-DCE	0.00064
		cis 1,2-DCE	0.019
		TCE	0.029
		PCE	0.0035

STYLE CENTER CLEANERS

MW-3 (Water Elev.:+13.05')
January 27, 1999 sampling results:

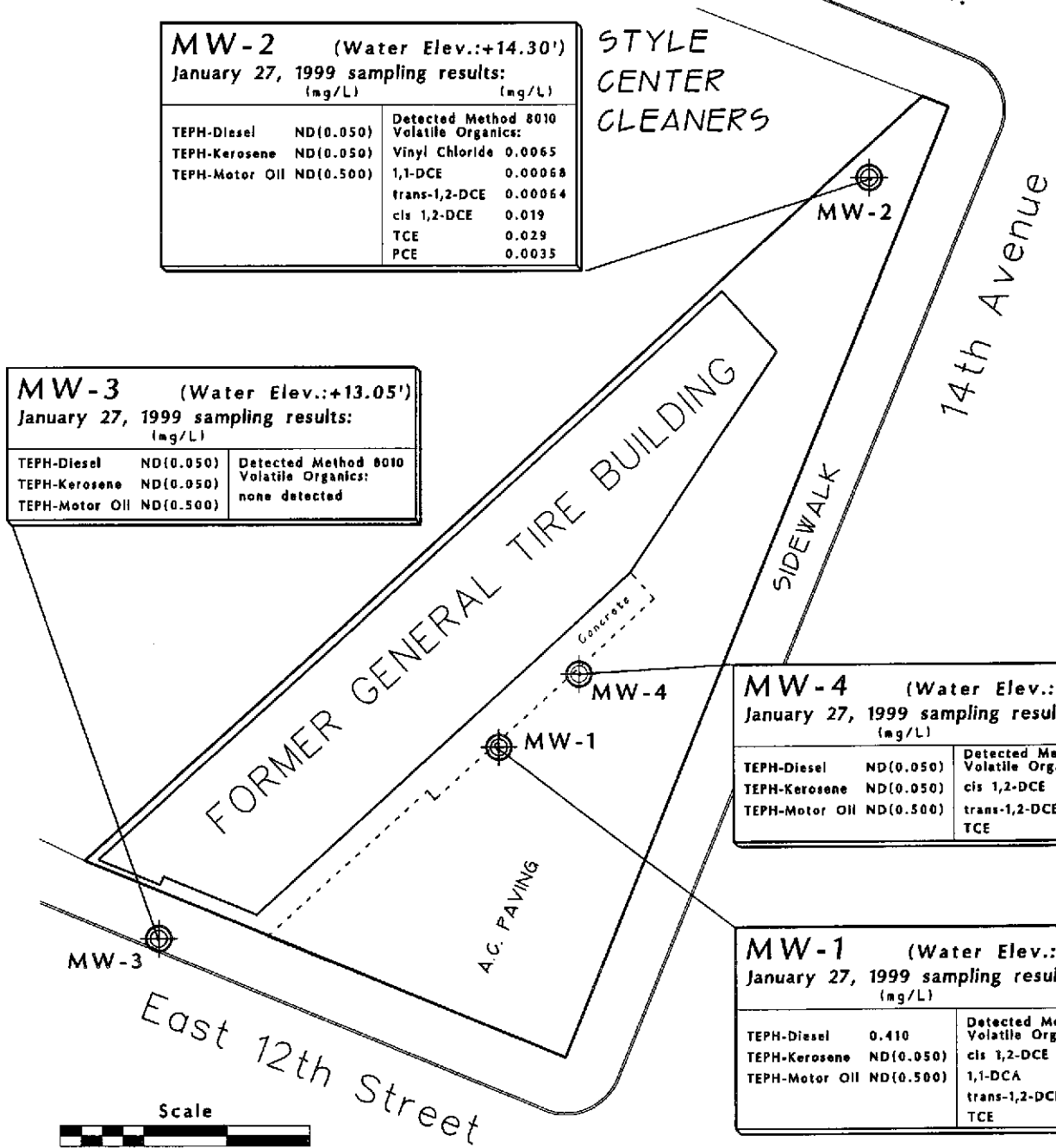
(mg/L)		(mg/L)	
TEPH-Diesel	ND(0.050)	Detected Method 8010 Volatile Organics:	
TEPH-Kerosene	ND(0.050)	none detected	
TEPH-Motor Oil	ND(0.500)		

MW-4 (Water Elev.:+12.48')
January 27, 1999 sampling results:

(mg/L)		(mg/L)	
TEPH-Diesel	ND(0.050)	Detected Method 8010 Volatile Organics:	
TEPH-Kerosene	ND(0.050)	cis 1,2-DCE 0.010	
TEPH-Motor Oil	ND(0.500)	trans-1,2-DCE	0.0040
		TCE	0.0080

MW-1 (Water Elev.:+12.27')
January 27, 1999 sampling results:

(mg/L)		(mg/L)	
TEPH-Diesel	0.410	Detected Method 8010 Volatile Organics:	
TEPH-Kerosene	ND(0.050)	cis 1,2-DCE 0.0030	
TEPH-Motor Oil	ND(0.500)	1,1-DCA	0.0016
		trans-1,2-DCE	0.00057
		TCE	0.0024



Legend:

⊕ Monitoring Well

ND(0.050) = Not Detected above detection limit in parentheses.
 TEPH = Total Extractable Petroleum Hydrocarbons.
 trans 1,2-DCE = trans 1,2-Dichloroethene
 cis 1,2-DCE = cis 1,2-Dichloroethene
 1,1-DCA = 1,1-Dichloroethane
 1,1,1-DCA = 1,1,1-Trichloroethane
 TCE = Trichloroethane
 PCE = Tetrachloroethane

January 27, 1999
Groundwater Sampling Results

Former General Tire
 1201 14th Avenue
 Oakland, California

Prepared by
JONAS & ASSOCIATES INC.

Drawn by
 J.R.W.
 2-5-1999

Date: 2-5-1999
 Locations Approx.

Figure 3-1

Drawing Number
 GT213-2/99:FS-1

3.2.2 Results of Water Level and Free Product Measurements

During each sampling round, water level measurements are recorded and a determination is made with respect to the presence or absence of a floating product or sheen.

The following Table 3-2 provides a summary of groundwater levels and free product measurements for the January 27, 1999 Round Seven, respectively. Water level elevations, with respect to mean sea level, were calculated using the results of the Kier & Wright surveys.

Table 3-2
Round Seven - January 1999
Groundwater Level and Free Product Measurement

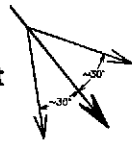
Date	Well ID	Surveyed Casing Elevation M.S.L.	Water Level from Top of Casing		Pavement vs. Casing Top	Free Product
			Depth	Elevation M.S.L.		
1/27/1999	MW-1	+18.29'	6.02'	+12.27'	-0.29'	no floating product
1/27/1999	MW-2	+20.18'	5.88'	+14.30'	-0.59'	no floating product
1/27/1999	MW-3	+19.55'	6.50'	+13.05'	-0.44'	no floating product
1/27/1999	MW-4	+18.3' ²	5.82'	+12.48'	-0.3' ²	no floating product

notes: 1/ Elevation with respect to mean sea level (M.S.L.) and Kier & Wright survey.
2/ Assumed based on elevation of MW-1.

Figure 3-2 graphically presents the results of the well water levels collected during the Round Seven sampling events, respectively. As identified in this figure, based upon groundwater elevation data from monitoring wells MW-1, MW-2, MW-3, and MW-4, the apparent direction of groundwater flow during January 1999 is in a southeasterly direction, from the Style Center Cleaners to the former Oakland General Tire facility.



$\phi = 0.03 \text{ ft/ft}$



East 14th St.

MW-2
(+14.30' msl)

+14.0'

FORMER GENERAL TIRE BUILDING

+13.0'

MW-4
(+12.48' msl)

MW-1
(+12.27' msl)

SIDEWALK

14th Avenue

MW-3
(+13.05' msl)

East 12th Street

LEGEND:

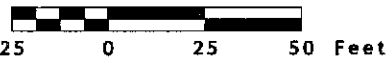
{+12.27' msl}

MW1
Monitoring Well
w/ Well Water Elevation
Feet Mean Sea Level (msl)

$\phi = 0.025 \text{ ft/ft}$
Potentiometric Gradient

+13.0'
Equipotential Line

Scale



January 27, 1999

Winter Season

Potentiometric/Water Table

Former General Tire
1201 14th Avenue
Oakland, California

Prepared by
JONAS & ASSOCIATES INC.

Date: 2-5-1999
Locations Approx.

Figure 3-2

Drawing Number
GT213-2/99:F3-2

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gmr7rpt.gt3

Appendix A

Summary Tables of Laboratory Results

GROUNDWATER RESULTS
TEPH -DIESEL, -KEROSENE, & -MOTOR OIL
FORMER OAKLAND GENERAL TIRE - 1201 14TH AVENUE

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	TEPH-Diesel (3510/8015) (mg/L)	TEPH-Kerosene (3510/8015) (mg/L)	TEPH-Motor Oil (3510/8015) (mg/L)
<u>Monitoring Well MW-1</u>							
02	3/11/92	5½'-15½' screen	water	CT	0.190	-	-
MW1-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)
MW1-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)
GT3-MW1-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW1-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW1-Q5	8/22/96	5½'-15½' screen	water	CrLab	0.050	ND(0.050)	ND(0.500)
GT3-MW1	10/13/98	5½'-15½' screen	water	CrLab	0.140	ND(0.050)	ND(0.500)
GT3-MW1	1/27/99	5½'-15½' screen	water	CrLab	0.410	ND(0.050)	ND(0.500)
<u>Monitoring Well MW-2</u>							
MW2-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.050)	0.490 ¹	0.7
MW2-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)
GT3-MW2-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW2-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW2-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW2	10/13/98	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW2	1/27/99	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
<u>Monitoring Well MW-3</u>							
MW3-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)
MW3-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)
GT3-MW3-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW3-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GW9-MW3-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW3	10/13/98	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW3	1/27/99	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
<u>Monitoring Well MW-4</u>							
MW-4	12/15/98	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)
GT3-MW4	1/27/99	5½'-15½' screen	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)

notes: TEPH: Total Extractable Petroleum Hydrocarbons.
 ND(0.004) = Not Detected above the laboratory detection limit in parentheses.
¹ = Unknown hydrocarbon found in early Kerosene quantified as Kerosene.

Table A/GW2
 GROUNDWATER RESULTS
 VOLATILE ORGANICS
 FORMER OAKLAND GENERAL TIRE - 1201 14th Avenue
 {mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Bromodichloro- methane	Bromoform	Bromo- methane	Carbon Tetrachloride	Chloro- benzene	Chloro- ethane	2-Chloroethyl Vinyl Ether	Chloroform	Chloro- methane	Dibromo- chloromethane	1,2-Dichloro- benzene
<i>Monitoring Well MW-1</i>															
03	3/11/92	5½'-15½' screen	water	CT	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)
MW1-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW1-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.00080	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)
<i>Monitoring Well MW-2</i>															
MW2-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW2-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0012	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)
<i>Monitoring Well MW-3</i>															
MW3-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW3-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)
<i>Monitoring Well MW-4</i>															
MW-4	12/15/98	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)
GT3-MW4	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)	ND(0.0010)	ND(0.0005)	ND(0.0005)

GROUNDWATER RESULTS
VOLATILE ORGANICS
FORMER OAKLAND GENERAL TIRE - 1201 14th Avenue
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	1,3-Dichloro- benzene	1,4-Dichloro- benzene	1,1-Dichloro- ethane	1,2-Dichloro- ethane	1,1-Dichloro- ethene	cis 1,2- Dichloroethene	trans 1,2- Dichloroethene	1,2-Dichloro- propane	cis-1,3-Di- chloropropene	trans-1,3-Di- chloropropene	Freon 113
<u>Monitoring Well MW-1</u>															
03	3/11/92	5½'-15½' screen	water	CT	ND(0.001)	ND(0.001)	0.015	ND(0.001)	ND(0.001)	0.019	0.004	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW1-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0013	ND(0.0005)	ND(0.0005)	0.00070	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW1-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.00033	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0060	ND(0.0005)	ND(0.0005)	0.0042	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0010	ND(0.0005)	ND(0.0005)	0.0010	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.00060	ND(0.0005)	ND(0.0005)	0.00090	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0016	ND(0.0005)	ND(0.0005)	0.0030	0.00057	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well MW-2</u>															
MW2-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0010	0.031	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW2-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0017	0.048	0.0013	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.013	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.017	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.00080	0.026	0.00070	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.00068	0.019	0.00064	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well MW-3</u>															
MW3-10593	10/5/93	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW3-61794	6/17/94	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3-Q3	5/17/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3-Q4	8/10/95	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3-Q5	8/22/96	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well MW-4</u>															
MW-4	12/15/98	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0046	0.0021	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW2	1/27/99	5½'-15½' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.010	0.0040	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

Table A/GW2^{cont}
GROUNDWATER RESULTS
VOLATILE ORGANICS
FORMER OAKLAND GENERAL TIRE - 1201 14th Avenue
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Methylene Chloride	1,1,2,2-Tetra-chloroethane	Tetra-chloroethene	1,1,1-Tri-chloroethane	1,1,2-Tri-chloroethane	Tri-chloroethene	Trichlorofluoro-methane	Vinyl Chloride
<u>Monitoring Well MW-1</u>												
03	9/11/92	5½'-15½' <small>screen</small>	water	CT	ND(0.020)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.012	ND(0.001)	ND(0.002)
MW1-10593	10/5/93	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW1-61794	6/17/94	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	0.00058	ND(0.0005)	ND(0.0005)	0.00057	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q3	5/17/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	0.0006	ND(0.0005)	0.0013	ND(0.0005)	ND(0.0005)
GT3-MW1-Q4	8/10/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1-Q5	8/22/96	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW1	1/27/99	5½'-15½' <small>screen</small>	water	CrLab	ND(0.0050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0024	ND(0.0005)	ND(0.0005)
<u>Monitoring Well MW-2</u>												
MW2-10593	10/5/93	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	0.040	ND(0.0005)	ND(0.0005)	0.046	ND(0.0005)	0.0015
MW2-61794	6/17/94	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	0.044	ND(0.0005)	ND(0.0005)	0.087	ND(0.0005)	0.0053
GT3-MW2-Q3	5/17/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	0.0044	ND(0.0005)	ND(0.0005)	0.017	ND(0.0005)	ND(0.0005)
GT3-MW2-Q4	8/10/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	0.0060	ND(0.0005)	ND(0.0005)	0.026	ND(0.0005)	0.0020
GT3-MW2-Q5	8/22/96	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	0.016	ND(0.0005)	ND(0.0005)	0.064	ND(0.0005)	0.0023
GT3-MW2	1/27/99	5½'-15½' <small>screen</small>	water	CrLab	ND(0.0050)	ND(0.0005)	0.0035	ND(0.0005)	ND(0.0005)	0.029	ND(0.0005)	0.0065
<u>Monitoring Well MW-3</u>												
MW3-10593	10/5/93	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW3-61794	6/17/94	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q3	5/17/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q4	8/10/95	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q5	8/22/96	5½'-15½' <small>screen</small>	water	CrLab	ND(0.020)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GT3-MW3	1/27/99	5½'-15½' <small>screen</small>	water	CrLab	ND(0.005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well MW-4</u>												
MW-4'	12/15/98	5½'-15½' <small>screen</small>	water	CrLab	ND(0.0050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0048	ND(0.0005)	ND(0.0005)
GT3-MW4	1/27/99	5½'-15½' <small>screen</small>	water	CrLab	ND(0.0050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0080	ND(0.0005)	ND(0.0005)

note: 1 = Other Method 8260A Volatile Organic Analytes Not Detected, and
 Method 8270A Polynuclear Aromatic Hydrocarbons (PAHs) Not Detected (see 12/23/98 J&A "Site Remediation" Report).

GROUNDWATER RESULTS
METALS
FORMER OAKLAND GENERAL TIRE - 1201 14th Avenue
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Chromium			Nickel	Zinc
					Cadmium	Lead			
<u>Monitoring Well MW-4</u>									
MW-4 ¹	12/15/98	5½'-15½' _{screen}	water	CrLab	ND(0.0020)	ND(0.0050)	ND(0.0050)	0.0067	0.016

notes: 1 = filtered

Appendix B
Chain-of-Custody Records

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SUB# #: 9901334 REP: GC
 CLIENT: JONAS
 DUE: 02/04/99
 REF #: 44341

Reference #: 49341

Chain of Custody

DATE 1/27/99 PAGE 1 of 1

PROJ MGR Mark L. Jonas, R.G.
 COMPANY Jonas & Associates Inc.
 ADDRESS 2815 Mitchell Drive, Suite 209
Walnut Creek, California 94598
 SAMPLERS (SIGNATURE) (925) 933-5360 (PHONE NO.)
Mark L. Jonas (925) 933-5362 (FAX NO.)

SAMPLE ID	DATE	TIME	MATRIX	PRESERV.	TPH (EPA 8015, 8020) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) Bikerosene, Diesel, B.M. O.	PURGEABLE HALOCARBON (HYOCs) (EPA 8010 by 826)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5520 B + F, E + F)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> pH <input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	EXTRACTION STLC	NUMBER OF CONTAINERS
GT3-MW1-06	1/27/99	1245	water					X	X												5
GT3-MW2-06	1/27/99	1400	water					X	X												5
GT3-MW3-06	1/27/99	1200	water					X	X												5
GT3-MW4-06	1/27/99	1315	water					X	X												5

PROJECT INFORMATION
 PROJECT NAME General Tire - Oakland
 PROJECT NUMBER GT-213
 P.O. #

SAMPLE RECEIPT
 TOTAL NO OF CONTAINERS 20
 HEAD SPACE
 TEMPERATURE
 CONFORMS TO RECORD

TAT STANDARD 5-DAY 24 48 72 OTHER

Report: Routine Level 2 Level 3 Level 4
 SPECIAL INSTRUCTIONS/COMMENTS:
8 Amber
12 VOA's
3.8

RELINQUISHED BY <u>[Signature]</u> 10:08 (SIGNATURE) (TIME) <u>James White 1-28-99</u> (PRINTED NAME) (DATE) Jonas & Associates Inc. (COMPANY)	RELINQUISHED BY <u>[Signature]</u> 1610 (SIGNATURE) (TIME) <u>[Signature]</u> 1/28/99 (PRINTED NAME) (DATE) (COMPANY)	RELINQUISHED BY <u>[Signature]</u> 1610 (SIGNATURE) (TIME) <u>[Signature]</u> 1/28/99 (PRINTED NAME) (DATE) (COMPANY)
RECEIVED BY <u>[Signature]</u> 1008 (SIGNATURE) (TIME) <u>[Signature]</u> 1/28/99 (PRINTED NAME) (DATE) Chromalab (COMPANY)	RECEIVED BY <u>[Signature]</u> 1610 (SIGNATURE) (TIME) <u>[Signature]</u> 1/28/99 (PRINTED NAME) (DATE) (COMPANY)	RECEIVED BY (LABORATORY) <u>[Signature]</u> 1610 (SIGNATURE) (TIME) <u>[Signature]</u> 1/28/99 (PRINTED NAME) (DATE) Chromalab (LAB)

CHROMALAB, INC.

Environmental Services (SDB)

February 3, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND
Received: January 28, 1999

Project#: GT-213

re: One sample for TEPH analysis.
Method: EPA 8015M

Client Sample ID: GT3-MW1-25 mg

Spl#: 226828 Matrix: WATER Extracted: February 1, 1999
Sampled: January 27, 1999 Run#: 17195 Analyzed: February 2, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	410	50	N.D.	82.4	1
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.					
MOTOR OIL	N.D.	500	N.D.	--	1
KEROSENE	N.D.	50	N.D.	--	1


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

February 3, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND
Received: January 28, 1999

Project#: GT-213

re: One sample for TEPH analysis.
Method: EPA 8015M

Client Sample ID: GT3-MW2-~~25-8~~

Spl#: 226829

Matrix: WATER


Extracted: February 1, 1999

Sampled: January 27, 1999

Run#:17195

Analyzed: February 2, 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>
DIESEL	N.D.	50	N.D.	82.4	1
<i>Note: Surrogate Recoveries demonstrate Matrix interference.</i>					
MOTOR OIL	N.D.	500	N.D.	--	1
KEROSENE	N.D.	50	N.D.	--	1


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

February 3, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND
Received: January 28, 1999

Project#: GT-213

re: One sample for TEPH analysis.
Method: EPA 8015M

Client Sample ID: GT3-MW3-08-0

Spl#: 226830

Matrix: WATER

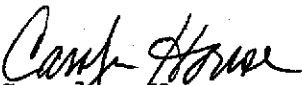
Extracted: February 1, 1999


Sampled: January 27, 1999

Run#: 17195

Analyzed: February 2, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
DIESEL	N.D.	50	N.D.	82.4	1
Note: Surrogate Recoveries demonstrate Matrix interference.					
MOTOR OIL	N.D.	500	N.D.	--	1
KEROSENE	N.D.	50	N.D.	--	1


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

February 3, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND

Project#: GT-213

Received: January 28, 1999

re: One sample for TEPH analysis.

Method: EPA 8015M

Client Sample ID: GT3-MW4-26 ~~26~~

Spl#: 226831

Matrix: WATER

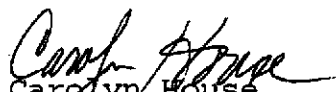
Extracted: February 1, 1999

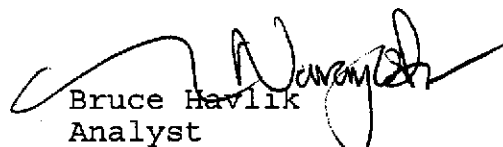
Sampled: January 27, 1999

Run#: 17195

Analyzed: February 2, 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>
DIESEL	N.D.	50	N.D.	82.4	1
MOTOR OIL	N.D.	500	N.D.	--	1
KEROSENE	N.D.	50	N.D.	--	1


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

February 1, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND

Project#: GT-213

Received: January 28, 1999

re: One sample for Volatile Halogenated Organics by GC/MS analysis.

Method: 8010 Compounds by Method 8260A Sept 1994

Client Sample ID: GT3-MW1-26 mg

Spl#: 226828


Matrix: WATER


Sampled: January 27, 1999

Run#: 17192

Analyzed: January 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
BROMODICHLOROMETHANE	N.D.	0.50	N.D.	--	1
BROMOFORM	N.D.	0.50	N.D.	--	1
BROMOMETHANE	N.D.	1.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	0.50	N.D.	--	1
CHLOROBENZENE	N.D.	0.50	N.D.	101	1
CHLOROETHANE	N.D.	1.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	0.50	N.D.	--	1
CHLOROFORM	N.D.	0.50	N.D.	--	1
CHLOROMETHANE	N.D.	1.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,2-DIBROMOETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHANE	1.6	0.50	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	0.50	N.D.	104	1
1,2-DICHLOROETHENE (CIS)	3.0	0.50	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	0.57	0.50	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	0.50	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	0.50	N.D.	--	1
TETRACHLOROETHENE	N.D.	0.50	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROETHENE	2.4	0.50	N.D.	93.0	1
VINYL CHLORIDE	N.D.	0.50	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--	1


June Zhao
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 1, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND

Project#: GT-213

Received: January 28, 1999

re: One sample for Volatile Halogenated Organics by GC/MS analysis.

Method: 8010 Compounds by Method 8260A Sept 1994

Client Sample ID: GT3-MW2-26 ~0

Spl#: 226829


Matrix: WATER

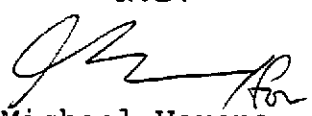
Sampled: January 27, 1999

Run#: 17192

Analyzed: January 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
BROMODICHLOROMETHANE	N.D.	0.50	N.D.	--	1
BROMOFORM	N.D.	0.50	N.D.	--	1
BROMOMETHANE	N.D.	1.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	0.50	N.D.	--	1
CHLOROBENZENE	N.D.	0.50	N.D.	101	1
CHLOROETHANE	N.D.	1.0	N.D.	--	1
2-CHLOROETHYLVINYLEETHER	N.D.	0.50	N.D.	--	1
CHLOROFORM	N.D.	0.50	N.D.	--	1
CHLOROMETHANE	N.D.	1.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,2-DIBROMOETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHENE	0.68	0.50	N.D.	104	1
1,2-DICHLOROETHENE (CIS)	19	0.50	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	0.64	0.50	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	0.50	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	0.50	N.D.	--	1
TETRACHLOROETHENE	3.5	0.50	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROETHENE	29	0.50	N.D.	93.0	1
VINYL CHLORIDE	6.5	0.50	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--	1


June Zhao
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 1, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND

Project#: GT-213

Received: January 28, 1999

re: One sample for Volatile Halogenated Organics by GC/MS analysis.

Method: 8010 Compounds by Method 8260A Sept 1994

Client Sample ID: GT3-MW3-06

Spl#: 226830


Matrix: WATER

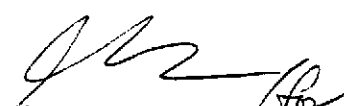
Sampled: January 27, 1999

Run#: 17192

Analyzed: January 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
BROMODICHLOROMETHANE	N.D.	0.50	N.D.	--	1
BROMOFORM	N.D.	0.50	N.D.	--	1
BROMOMETHANE	N.D.	1.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	0.50	N.D.	--	1
CHLOROBENZENE	N.D.	0.50	N.D.	101	1
CHLOROETHANE	N.D.	1.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	0.50	N.D.	--	1
CHLOROFORM	N.D.	0.50	N.D.	--	1
CHLOROMETHANE	N.D.	1.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,2-DIBROMOETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	0.50	N.D.	104	1
1,2-DICHLOROETHENE (CIS)	N.D.	0.50	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	0.50	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	0.50	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	0.50	N.D.	--	1
TETRACHLOROETHENE	N.D.	0.50	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROETHENE	N.D.	0.50	N.D.	93.0	1
VINYL CHLORIDE	N.D.	0.50	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--	1


June Zhao
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 1, 1999

Submission #: 9901334

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas

Project: GENERAL TIRE-OAKLAND

Project#: GT-213

Received: January 28, 1999

re: One sample for Volatile Halogenated Organics by GC/MS analysis.

Method: 8010 Compounds by Method 8260A Sept 1994

Client Sample ID: GT3-MW4-25-8

Spl#: 226831


Matrix: WATER


Sampled: January 27, 1999

Run#: 17192

Analyzed: January 29, 1999

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE SPR (%)	DILUTION FACTOR
BROMODICHLOROMETHANE	N.D.	0.50	N.D.	--	1
BROMOFORM	N.D.	0.50	N.D.	--	1
BROMOMETHANE	N.D.	1.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	0.50	N.D.	--	1
CHLOROBENZENE	N.D.	0.50	N.D.	101	1
CHLOROETHANE	N.D.	1.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	0.50	N.D.	--	1
CHLOROFORM	N.D.	0.50	N.D.	--	1
CHLOROMETHANE	N.D.	1.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--	1
1,2-DIBROMOETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	0.50	N.D.	104	1
1,2-DICHLOROETHENE (CIS)	10	0.50	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	4.0	0.50	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	0.50	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	0.50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	0.50	N.D.	--	1
TETRACHLOROETHENE	N.D.	0.50	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROETHENE	8.0	0.50	N.D.	93.0	1
VINYL CHLORIDE	N.D.	0.50	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	0.50	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	0.50	N.D.	--	1


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