



**Touchstone
Developments**
Environmental Management

May 15, 1995

Goodyear Tire & Rubber Company
7301 Ambassador Row
Post Office Box 660245
Dallas, Texas 75266-0245

Attention: Mr. W.J. Ingelhofer

Re: GROUNDWATER MONITORING AND SAMPLING REPORT
3430 Castro Valley Boulevard
Castro Valley, California

Mr. Ingelhofer:

This letter report summarizes the recent groundwater monitoring and sampling of Monitoring Wells MW-1, MW-2, and MW-3 at the above referenced address. Monitoring and sampling was performed on April 24, 1995, by DEL-TECH Services of Oakdale, California.

The monitoring wells are two-inch diameter with total depths of 18.88, 18.27, and 16.27 feet below ground surface (bgs), respectively. Depth to groundwater was measured in the wells at 4.43, 4.38, and 4.91 feet bgs, respectively. The calculated purge volumes ranged from 7.4 to 9.4 gallons and the actual purge volumes were 10 gallons for four (4) casing volumes in each well. During the purging process, pH, conductivity, and temperature measurements were recorded and when these field measurements were stabilized, samples were collected using a submersible pump. Field measurements and pertinent sampling data are included on the field log presented in Appendix A.

Formation groundwater from each well was decanted from the submersible pump into six (6), laboratory-supplied, 40-milliliter VOA bottles, one, one-liter amber glass and one, one-liter plastic bottles. The sample bottles were labeled, entered onto a chain-of-custody form, placed in a cooler with blue ice and delivered to Sequoia Analytical located in Redwood City, California.

Analyses of the groundwater samples included: Total Petroleum Hydrocarbons calculated as Gasoline according to EPA Method 8015 (Modified), Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8020, Total Petroleum Hydrocarbons calculated as Diesel according to EPA Method 8015 (Modified), Total Recoverable Petroleum Hydrocarbons according to EPA Method 5520 BF, Volatile Organic Compounds (VOCs) according to EPA Method 8010, Semivolatile Organics according to EPA SW-846 Method 8270, and Cadmium, Chromium, Lead, Nickel, and Zinc according to Title 22. The chemical analytical results are summarized on Table A. The DEL TECH Sampling Groundwater Field Monitoring Summary Report is presented in Appendix A and the Sequoia Analytical laboratory report and Chain-of-Custody form is presented in Appendix B.

TRPH (SS))
TPH-G
TPH-D
BTEX
SVOC
HVOC
metals

If you have any questions or comments, please call me at (707) 935-0601.

Sincerely,

Timothy J. Walker
Project Manager

attachments

cc: Mr. Scott Seary, Alameda County Department of Environmental Health

TABLE A

TABLE A GROUNDWATER ANALYTICAL SUMMARY

Results are in ug/L - parts per billion (ppb), unless otherwise noted.

WELL ID	DATE	TPH - Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-Diesel	TOG
MW-1	24-Apr-95	ND	ND	ND	ND	ND	ND	ND
MW-2	24-Apr-95	ND	ND	ND	ND	ND	ND	ND
MW-3	24-Apr-95	53	12	0.84	0.69	2.4	960	ND

WELL ID	DATE	8010	8270	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
MW-1	24-Apr-95	CAR	ND	ND	0.052	0.0056	0.060	0.13
MW-2	24-Apr-95	CAR	ND	ND	0.054	0.0075	0.067	0.12
MW-3	24-Apr-95	CAR	ND	ND	0.029	0.0071	0.075	0.084

	MW-1	MW-2	MW-3	MCLs
Chloroform	1.7	1.5	—	
1,1-DCA	—	—	15	5.0
1,1-DCE	—	—	0.89	
Cis-1,2-DCE	—	—	4.6	6.0
PCE	—	—	2.2	5.0
1,1,1-TCA	—	—	4.4	200
TCE	—	—	0.91	5.0
Vinyl chloride	—	—	15	0.5

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline

TPH-Diesel = Total Petroleum Hydrocarbons calculated as Diesel

TOG = Total Oil & Grease

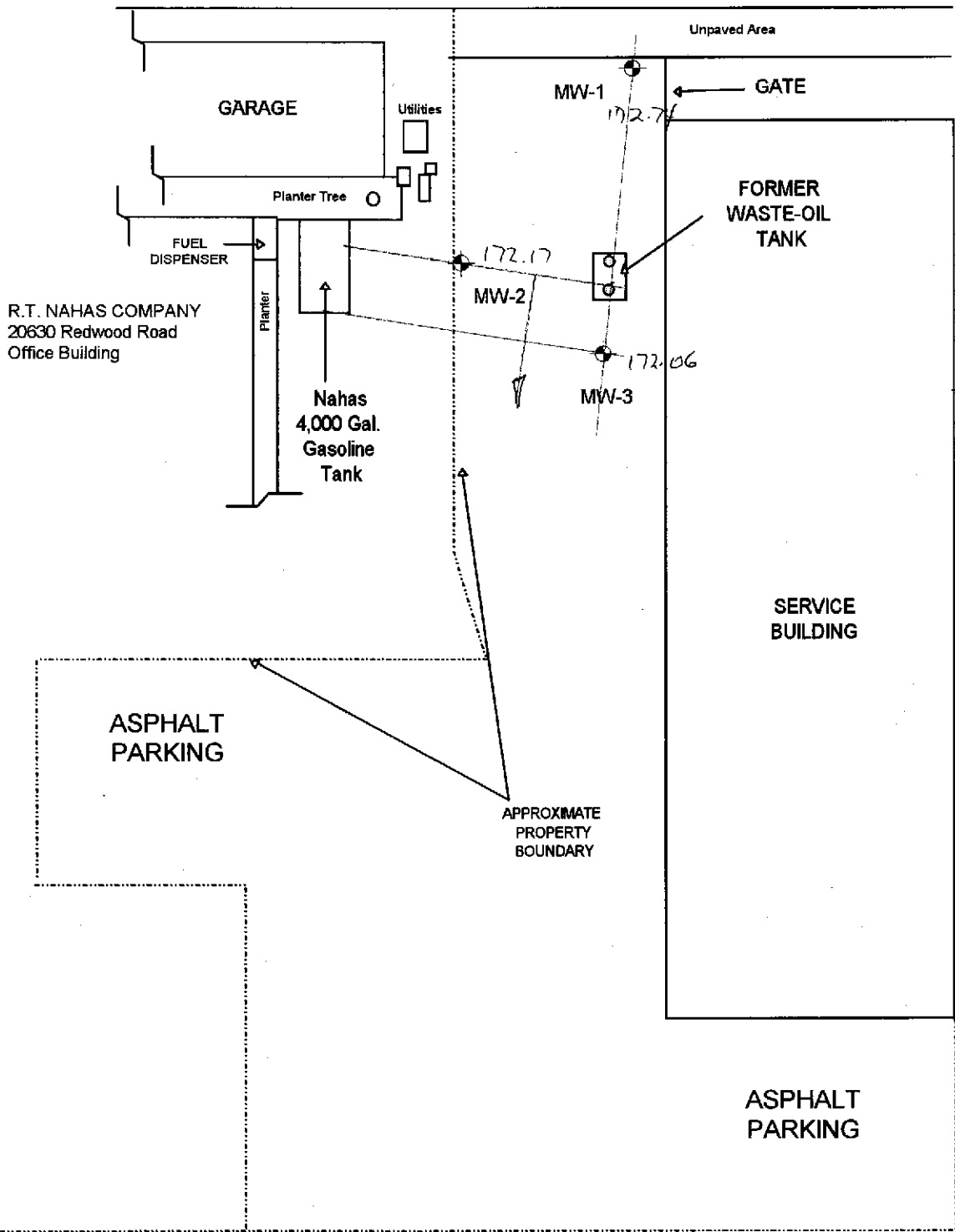
ND = Not detected at or above the laboratory detection limits.

NA = Analysis not requested.

ppm = parts per million (mg/L)

CAR = See Certified Analytical Report for results

FIGURE 1



EXPLANATION

- SEMCO Hand Auger Sample Locations
- ⊕ Groundwater Monitoring Well

CASTRO VALLEY BOULEVARD

approximate scale is 1" : 30'



SITE PLAN
Goodyear Tire & Service Center
3430 Castro Valley Boulevard
Castro Valley, California

FIGURE
1

APPENDIX A

DEL-TECH GROUNDWATER FIELD MONITORING SAMPLING REPORT



DEL-TECH Geotechnical Support Services

**GROUNDWATER
FIELD MONITORING
SUMMARY REPORT**

SITE

GOODYEAR TIRE RUBBER
3430 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA.
04/24/95



MONITORING WELL FIELD LOG

PROJECT NAME: GOODYEAR TIRE & RUBBER CO 3430 CASTRO VALLEY BLVD CASTRO VALLEY, CA		SAMPLE ANALYSIS PERFORMED: TPH-Gas/DIESEL, B.T.X.E., OIL & GREASE, 601, 8270, TTLC METALS SAMPLE TIME: 13:00 SAMPLE CONTAINER(S): 6 VOA'S, 2 LITRES, 1 QUART, 1 PLASTIC ANALYSIS PERFORMED BY: SEQUOIA LABS.	
CLIENT: TOUCHSTONE		DATE: 04/24/1995	
PROJECT MANAGER: MIKE TAMBRONI		SAMPLE LOCATION: MW-1	
SAMPLER: DON LIGHT		START TIME:	
GROUNDWATER: XXX	VADOSE:	OTHER: P.I.D. READING 0.0 PPM	
CASING ELEVATION: (FEET-MSL)		CASING DIAMETER: 2 INCH	
DEPTH TO WATER: 4.43 FEET		CALCULATED PURGE VOLUME: 2.35 GAL.	
DEPTH OF WELL: 18.88 FEET		ACTUAL VOLUME PER PURGE: 2.5 GAL.	

TIME	VOLUME gallons	pH units	E.C. umhos/cm	TEMP. Degrees C	COLOR (Visual)	OTHER
	0	6.8	474	22.5	TURBID (BRN)	NO ODOR
	2.5	6.8	466	22.2	"	"
	5.0	6.8	468	22.2	LT. TURBID	"
	7.5	6.8	470	21.8	CLEAR	"
	10.0	6.8	470	21.8	"	"

PURGE METHOD : CENTRIFUGAL PUMP.
SAMPLE METHOD: 1' STAINLESS STEEL BAILER.
DEPTH TO WATER AFTER PURGE: **DEPTH TO WATER AT SAMPLE TIME:**
WELL INTEGRITY: CAP AND SEAL ARE SECURE, LOCK IS INSTALLED.
REMARKS: GOOD RECHARGE.
WEATHER: CLEAR SKIES.
QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED
 IN THE FIELD WITH STEAM CLEANER & ALCONOX.
 NEW NITRILE GLOVES WERE WORN AT ALL TIMES.
WELL LOCATION: NORTHERN.
CONTAINMENT: D.O.T. 17 DRUMS
INSTRUMENTATION: ORION pH/TEMPERATURE METER 2 POINT pH CALIBRATION (4.0 & 7.0)
 ORION CONDUCTIVITY METER
 ENVIRONMENTAL INSTRUMENTS SLOPE METER
 KECK PRODUCT INTERFACE METER
 THERMODYNE 580B PHOTO IONIZATION DETECTOR



MONITORING WELL FIELD LOG

PROJECT NAME: GOODYEAR TIRE & RUBBER CO 3430 CASTRO VALLEY BLVD. CASTRO VALLEY, CA		SAMPLE ANALYSIS PERFORMED: TPH-Gas/DIESEL, B.T.X.E., OIL & GREASE, 601, 8270, TTLC METALS SAMPLE TIME: 14:00 SAMPLE CONTAINER(S): 6 VOA'S, 2 LITRES, 1 QUART, 1 PLASTIC ANALYSIS PERFORMED BY: SEQUOIA LABS.	
CLIENT: TOUCHSTONE		DATE: 04/24/1995	
PROJECT MANAGER: MIKE TAMBRONI		SAMPLE LOCATION: MW-2	
SAMPLER: DON LIGHT		START TIME:	
GROUNDWATER: XXX	VADOSE:	OTHER: P.I.D. READING 0.0 PPM	
CASING ELEVATION: (FEET MSL)		CASING DIAMETER: 2 INCH	
DEPTH TO WATER: 4.38 FEET		CALCULATED PURGE VOLUME: 2.26 GAL.	
DEPTH OF WELL: 18.27 FEET		ACTUAL VOLUME PER PURGE: 2.5 GAL.	

TIME	VOLUME gallons	pH units	E.C. umhos/cm	TEMP. Degrees C	COLOR (Visual)	OTHER
	0	7.6	476	22.1	TURBID (BRN)	NO ODOR
	2.5	7.2	478	22.1	"	"
	5.0	7.0	478	21.8	LT. TURBID	"
	7.5	6.9	479	22.1	CLEAR	"
	10.0	6.9	478	22.1	"	"

PURGE METHOD: CENTRIFUGAL PUMP.
SAMPLE METHOD: 1' STAINLESS STEEL BAILER.
DEPTH TO WATER AFTER PURGE: DEPTH TO WATER AT SAMPLE TIME:
WELL INTEGRITY: CAP AND SEAL ARE SECURE, LOCK IS INSTALLED.
REMARKS: GOOD RECHARGE.
WEATHER: CLEAR SKIES.
QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED
 IN THE FIELD WITH STEAM CLEANER & ALCONOX.
 NEW NITRILE GLOVES WERE WORN AT ALL TIMES.
WELL LOCATION: EAST.
CONTAINMENT: D.O.T. 17 DRUMS
INSTRUMENTATION: ORION pH/TEMPERATURE METER 2 POINT pH CALIBRATION (4.0 & 7.0)
 ORION CONDUCTIVITY METER
 ENVIRONMENTAL INSTRUMENTS SLOPE METER
 KECK PRODUCT INTERFACE METER
 THERMODYNE 580B PHOTO IONIZATION DETECTOR



MONITORING WELL FIELD LOG

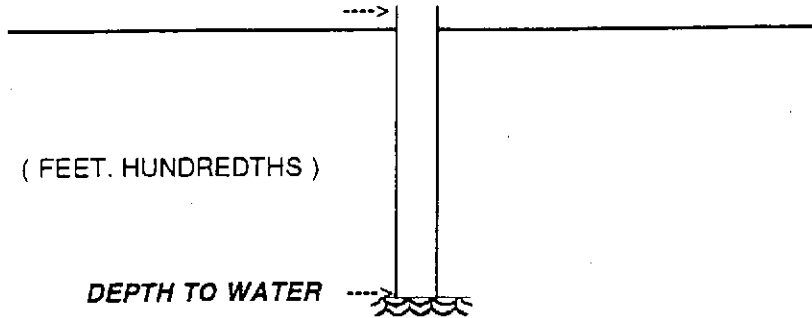
PROJECT NAME: GOODYEAR TIRE & RUBBER CO. 3430 CASTRO VALLEY BLVD. CASTRO VALLEY, CA		SAMPLE ANALYSIS PERFORMED : TPH-Gas/DIESEL, B.T.X.E., OIL & GREASE, 601, 8270, TTLC METALS SAMPLE TIME: 14:30 SAMPLE CONTAINER(S): 6 VOA'S, 2 LITRES, 1 QUART, 1 PLASTIC ANALYSIS PERFORMED BY: SEQUOIA LABS.	
CLIENT: TOUCHSTONE		DATE: 04/24/1995	
PROJECT MANAGER: MIKE TAMBRONI		SAMPLE LOCATION: MW-3	
SAMPLER: DON LIGHT		START TIME:	
GROUNDWATER: XXX	VADOSE:	OTHER: P.I.D. READING 10.0 PPM	
CASING ELEVATION: (FEET MSL)		CASING DIAMETER: 2 INCH	
DEPTH TO WATER: 4.91 FEET		CALCULATED PURGE VOLUME: 1.85 GAL.	
DEPTH OF WELL: 16.28 FEET		ACTUAL VOLUME PER PURGE: 2.0 GAL.	

TIME	VOLUME gallons	pH units	E.C. umhos/cm	TEMP. Degrees C	COLOR (Visual)	OTHER
	0	6.7	759	22.0	TURBID (BRN)	NO ODOR
	2.0	6.7	762	21.9	"	"
	4.0	6.7	757	22.3	LT. TURBID	"
	6.0	6.7	752	22.2	"	"
	8.0	6.7	750	22.1	"	"
	10.0	6.7	751	22.3	"	"

PURGE METHOD : CENTRIFUGAL PUMP.
SAMPLE METHOD: 1' STAINLESS STEEL BAILER.
DEPTH TO WATER AFTER PURGE: **DEPTH TO WATER AT SAMPLE TIME:**
WELL INTEGRITY: CAP AND SEAL ARE SECURE, LOCK IS INSTALLED.
REMARKS: GOOD RECHARGE. WELL NEEDS TO BE REDEVELOPED.
WEATHER: CLEAR SKIES .
QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED
 IN THE FIELD WITH STEAM CLEANER & ALCONOX.
 NEW NITRILE GLOVES WERE WORN AT ALL TIMES.
WELL LOCATION: SOUTHERN.
CONTAINMENT: D.O.T. 17 DRUMS
INSTRUMENTATION: ORION pH/TEMPERATURE METER 2 POINT pH CALIBRATION (4.0 & 7.0)
 ORION CONDUCTIVITY METER
 ENVIRONMENTAL INSTRUMENTS SLOPE METER
 KECK PRODUCT INTERFACE METER
 THERMODYNE 580B PHOTO IONIZATION DETECTOR



MONITORING WELL SUMMARY LOG



SITE: GOODYEAR TIRE / CASTRO VALLEY

WELL ELEV. (MSL)					
DATE	MW-1	MW-2	MW-3	MW-4	MW-5
04/24/95	4.43'	4.38'	4.91'		
DEPTH OF WELL	18.00'	18.27'	16.28'		

INSTRUMENTATION: ORION pH/TEMPERATURE METER 2 POINT pH CALIBRATION (4.0 & 7.0)
 ORION CONDUCTIVITY METER
 ENVIRONMENTAL INSTRUMENTS SLOPE METER
 KECK PRODUCT INTERFACE METER
 THERMODYNE 580B PHOTO IONIZATION DETECTOR

1. ALL MEASUREMENTS ARE MADE FROM THE NORTH SIDE AND TOP EDGE OF THE WELL CASING, NOTCH IN THE TOP OF CASING OR BLACK MARKING, WHICH EVER ONE IS APPROPRIATE.



SAMPLE CHAIN OF CUSTODY RECORD

DEL-TECH GEOTECHNICAL SUPPORT
 10624 OLIVE AVE. OAKDALE, CALIFORNIA 95361
 OFFICE (209) 847-8757
 FAX (209) 847-7744

(PLEASE PRINT)

Lab. Analysis by: SEQUOIA
 LAB. INVOICE TO: TOUCHSTONE
684 30th AVE. / SAN FRAN. / CA.
 PH. # (415) 3868791 / MIKE TAMBRONI
 P.O. # / INVOICE # _____

CLIENT / CONSULTANT: TOUCHSTONE RECORD 1 OF 1

PROJECT / SITE NAME: <u>GOD YEAR TIRE</u>						ANALYSIS REQUESTED (ITEMIZED AND CHECKED BELOW)						SITE SAMPLE MAP (NOT TO SCALE)			
STREET: <u>3430 CASTRO VALLEY BLVD.</u> CITY: <u>CASTRO VALLEY</u> STATE: <u>CA</u>						TPHG - Gasoline (8015 Mod.)	TPHD - Diesel (8015 Mod.)	TRPH - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS	B.T.X.E. (8020)	8010 HALOGENATED	8240 - PURGABLE ORGANICS	8270 - EXTRACTABLE ORGANICS	TTL METALS - SEE REMARKS		
SAMPLER: <u>NON LIGHT</u> (PRINTED SIGNATURE)			SHIP VIA: <u>TOUCHSTONE</u> WAYBILL # _____											REMARKS / * SPECIAL INSTRUCTIONS BELOW	
SAMPLE LOCATION (IDENTIFICATION)	DATE MTH/DAY/YR.	TIME HOUR / MIN.	NUMBER OF CONTAINERS	TYPE (GRAB OR COMPOSITE)	SAMPLE MATRIX										
1) <u>TRW-1</u>	<u>4/24/95</u>	<u>1300</u>	<u>1D</u>	<u>682MS</u>	<u>WATER</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	TRPH - TOTAL OIL + GREASE		
2) <u>TRW-2</u>	<u>1</u>	<u>1400</u>	<u>1D</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>			
3) <u>TRW-3</u>	<u>1</u>	<u>1430</u>	<u>1D</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	*ICAP METALS		
4) <u>TRIP BLANKS</u>	<u>PL</u>		<u>2</u>	<u>PL</u>	<u>PL</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	(Cd, Cr, Pb, Zn, Ni)		
5.)															
6.)															
7.)															
8.)															
9.)															
10.)															
RELINQUISHED BY: SIGNATURE: <u>Jon Light</u>		DATE / TIME: <u>4/24/95 1500</u>		RECEIVED BY: SIGNATURE: <u>[Signature]</u>				DATE / TIME: <u>1500 4/24/95</u>		** SAMPLE INTEGRITY / CONDITION & TURNAROUND TIME **					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY: SIGNATURE:				DATE / TIME:		RECEIVED COLD & INTACT / YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY: SIGNATURE:				DATE / TIME:		PRESERVATIVES USED / YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY: SIGNATURE:				DATE / TIME:		CUSTODY SEALS INTACT / YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/>					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY: SIGNATURE:				DATE / TIME:		AIR BUBBLES IN V.O.A.'S / YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> LINE # _____					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY LABORATORY: (NOTE TURNAROUND TIME)				DATE / TIME:		TURN AROUND TIME: CHECK ONE					
RELINQUISHED BY: SIGNATURE:		DATE / TIME:		RECEIVED BY LABORATORY: (NOTE TURNAROUND TIME)				DATE / TIME:		24 - HOUR <input type="checkbox"/> 48 - HOUR <input type="checkbox"/> 5 - DAY <input checked="" type="checkbox"/> 10 - DAY <input type="checkbox"/>					



MONITORING WELL FIELD LOG

PROJECT NAME: <u>6050 HEARTL</u>	SAMPLE ANALYSIS PERFORMED: <u>TPH, G/D, BTEX, OIL + GREASE, G/D, 3,2,7,0, METALS</u>
ADDRESS: <u>3438 CASTRO VALLEY BLDG.</u>	SAMPLE TIME: <u>1300</u>
CITY, STATE: <u>CASTRO VALLEY, CA</u>	SAMPLE CONTAINER(S): <u>6VIA, 2LTR, 1RT, 1 PLASTIC</u>
SITE CONTACT: _____	ANALYSIS PERFORMED BY: <u>SECURUS &</u> LABS
CLIENT / CONSULTANT: <u>TOUCHSTONE</u>	DATE: <u>4/24</u> 199 <u>5</u>
PROJECT MANAGER: <u>MIKE</u>	START TIME: (HR./MIN.) _____
SAMPLER(S): <u>BON</u>	SAMPLE POINT I.D. / LOCATION: <u>MW-1</u>
GROUNDWATER: <input checked="" type="checkbox"/> VADOSE: <input type="checkbox"/> SURFACE: <input type="checkbox"/> OTHER: _____	PHOTO IONIZATION READING AT WELL HEAD: <u>0.8</u> PPM
CASING ELEVATION: (FEET MSL) -----	CASING DIAMETER: 2 INCH <input checked="" type="checkbox"/> 4 INCH () 6 INCH ()
DEPTH TO PRODUCT: (FEET) -----	OTHER: _____
DEPTH TO WATER: (FEET) ----- <u>4.43</u>	CALCULATED PURGE VOLUME: <u>2.35</u> GALLONS
DEPTH OF WELL: (FEET) ----- <u>18.88</u>	ACTUAL VOLUME PER PURGE: <u>2.5</u> GALLONS

TIME (HR./MIN.)	VOLUME (GALLONS)	pH (units)	EC (Microhm/cm)	TEMP. (Degrees C)	COLOR (Visual) (Turbidity / NTU's)	OTHER (Odor)
	0	6.8	474	22.5	TURBID (BRI)	NO SCUM
	2.5	6.8	466	22.2	"	"
	5.0	6.8	463	22.2	LT "	"
	7.5	6.8	470	21.8	CLEAR	"
	10.0	6.8	470	21.8	CLEAR	"
**** PURGE METHOD **** (CHECK OR CIRCLE ONE)						
<input type="checkbox"/> ISCO <input type="checkbox"/> 2' BLADDER AIR PUMP	<input type="checkbox"/> 2' GRUNDFOS PUMP (.1832)	<input type="checkbox"/> 4' GRUNDFOS PUMP (.6528 / 1.469)	<input type="checkbox"/> 3' OR 1' STAINLESS STEEL BAILER	<input type="checkbox"/> MANUAL / ELECTRONIC BAILER SPOOL	<input type="checkbox"/> ISCO PERISTALTIC PUMP	<input type="checkbox"/> DISPOSABLE BAILER
<input type="checkbox"/> SUBMERSIBLE PUMP	<input type="checkbox"/> GEO - GUARD PUMP	<input type="checkbox"/> WELL WIZARD	<input type="checkbox"/> PNEUMATIC DISPLACEMENT PUMP	<input checked="" type="checkbox"/> CENTRIFUGAL PUMP	<input type="checkbox"/> FULTZ PUMP	<input type="checkbox"/> DEDICATED
**** SAMPLE METHOD **** (CHECK OR CIRCLE ONE)						
<input type="checkbox"/> ISCO <input type="checkbox"/> 2' BLADDER AIR PUMP	<input type="checkbox"/> 2' GRUNDFOS PUMP	<input type="checkbox"/> 4' GRUNDFOS PUMP	<input type="checkbox"/> 3' STAINLESS STEEL BAILER	<input checked="" type="checkbox"/> STAINLESS STEEL BAILER	<input type="checkbox"/> ISCO PERISTALTIC	<input type="checkbox"/> DISPOSABLE BAILER
<input type="checkbox"/> DIPPER	<input type="checkbox"/> SURFACE SAMPLER	<input type="checkbox"/> WELL WIZARD	<input type="checkbox"/> DEDICATED PUMP	<input type="checkbox"/> TEFLON BAILER		<input type="checkbox"/> OTHER
**** WELL INTEGRITY / LOCATION / WEATHER ****						
CAP & SEAL SECURE YES <input checked="" type="checkbox"/> NO ()	LOCK INSTALLED YES <input checked="" type="checkbox"/> NO () TYPE: <u>60414</u>	MONUMENT TYPE/STYLE: <u>FLUSH</u>	WELL CASING MATERIAL: <u>PVC</u>	RECHARGE: GOOD <input checked="" type="checkbox"/> FAIR () POOR ()	LOCATION: <u>NDOT/ISAN</u>	WEAT-ER: <u>CLEAR</u> AIR TEMP:

REMARKS:



MONITORING WELL FIELD LOG

PROJECT NAME: <u>FOOD YEAR</u>	SAMPLE ANALYSIS PERFORMED: <u>SAME AS MW1</u>
ADDRESS: <u>3430 CASTRO VALLEY BLVD</u>	SAMPLE TIME: <u>14:00</u>
CITY, STATE: <u>CASTRO VALLEY</u>	SAMPLE CONTAINER(S): <u>SAME AS 1</u>
SITE CONTACT: _____	ANALYSIS PERFORMED BY: <u>SEONDIA</u> LABS
CLIENT / CONSULTANT: <u>TOUCHSTONE</u>	DATE: <u>4/24</u> 199 <u>5</u>
PROJECT MANAGER: <u>MIKE</u>	START TIME: (HR./MIN.) _____
SAMPLER(S): <u>DON</u>	SAMPLE POINT I.D. / LOCATION: <u>MW-2</u>
GROUNDWATER <input checked="" type="checkbox"/> VADOSE: <input type="checkbox"/> SURFACE: <input type="checkbox"/> OTHER: _____	PHOTO IONIZATION READING AT WELL HEAD: <u>0.0</u> PPM
CASING ELEVATION: (FEET MSL) _____	CASING DIAMETER: 2 INCH <input checked="" type="checkbox"/> 4 INCH () 6 INCH ()
DEPTH TO PRODUCT: (FEET) _____	OTHER: _____
DEPTH TO WATER: (FEET) _____ <u>4.38</u>	CALCULATED PURGE VOLUME: <u>2.26</u> GALLONS
DEPTH OF WELL: (FEET) _____ <u>18.27</u>	ACTUAL VOLUME PER PURGE: <u>2.5</u> GALLONS

TIME (HR./MIN.)	VOLUME (GALLONS)	pH (units)	E.C. (Umhos/cm / MSmhos/cm)	TEMP (Degrees C)	COLOR (Visual) (Turbidity / NTU's)	OTHER (Odor)
	0	7.6	476	22.1	TURBID (BRN)	NO SCOP
	2.5	7.2	478	22.1	"	"
	5.0	7.0	478	21.8	LT. TURBID	"
	7.5	6.9	478	22.1	CLEAR	"
	10.0	6.9	478	22.1	"	"

**** PURGE METHOD **** (CHECK OR CIRCLE ONE)

<input type="checkbox"/> ISCO 2' BLADDER AIR PUMP	<input type="checkbox"/> 2" GRUNDFOS PUMP (.1632)	<input type="checkbox"/> 4" GRUNDFOS PUMP (.6528 / 1.469)	<input type="checkbox"/> 3" OR 1" STAINLESS STEEL BAILER	<input type="checkbox"/> MANUAL / ELECTRONIC BAILER SPOOL	<input type="checkbox"/> ISCO PERISTALTIC PUMP	<input type="checkbox"/> DISPOSABLE BAILER
<input type="checkbox"/> SUBMERSIBLE PUMP	<input type="checkbox"/> GEO - GUARD PUMP	<input type="checkbox"/> WELL WIZARD	<input type="checkbox"/> PNEUMATIC DISPLACEMENT PUMP	<input checked="" type="checkbox"/> CENTRIFUGAL PUMP	<input type="checkbox"/> FULTZ PUMP	<input type="checkbox"/> DEDICATED

**** SAMPLE METHOD **** (CHECK OR CIRCLE ONE)

<input type="checkbox"/> ISCO 2' BLADDER AIR PUMP	<input type="checkbox"/> 2" GRUNDFOS PUMP	<input type="checkbox"/> 4" GRUNDFOS PUMP	<input type="checkbox"/> 3" STAINLESS STEEL BAILER	<input checked="" type="checkbox"/> STAINLESS STEEL BAILER	<input type="checkbox"/> ISCO PERISTALTIC	<input type="checkbox"/> DISPOSABLE BAILER
<input type="checkbox"/> DIPPER	<input type="checkbox"/> SURFACE SAMPLER	<input type="checkbox"/> WELL WIZARD	<input type="checkbox"/> DEDICATED PUMP	<input type="checkbox"/> TEFLON BAILER		<input type="checkbox"/> OTHER

**** WELL INTEGRITY / LOCATION / WEATHER ****

CAP & SEAL SECURE YES <input checked="" type="checkbox"/> NO ()	LOCK INSTALLED YES <input checked="" type="checkbox"/> NO () TYPE <u>DEPHIN</u>	MONUMENT TYPE/STYLE: <u>FLUSH</u>	WELL CASING MATERIAL: <u>PVC</u>	RECHARGE: GOOD <input checked="" type="checkbox"/> FAIR () POOR ()	LOCATION: <u>EAST</u>	WEAT-ER: <u>CLEAR</u> AIR TEMP: _____
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REMARKS:



MONITORING WELL FIELD LOG

PROJECT NAME: <u>GOOD YEAR</u>	SAMPLE ANALYSIS PERFORMED: <u>SAME AS MW1</u>
ADDRESS: <u>3430 CASTRO VALLEY BLVD</u>	SAMPLE TIME: <u>14:30</u>
CITY, STATE: <u>CASTRO VALLEY, CA</u>	SAMPLE CONTAINER(S): <u>SAME AS 1</u>
SITE CONTACT: _____	ANALYSIS PERFORMED BY: <u>SEAN MOIA</u> LABS
CLIENT / CONSULTANT: <u>TOUCHSTONE</u>	DATE: <u>4/24</u> 199 <u>5</u>
PROJECT MANAGER: <u>MILICE</u>	START TIME: (HR./MIN.) _____
SAMPLER(S): <u>BDN</u>	SAMPLE POINT I.D. / LOCATION: <u>MW-3</u>
GROUNDWATER <input checked="" type="checkbox"/> VADOSE: SURFACE: OTHER: _____	PHOTO IONIZATION READING AT WELL HEAD: <u>18.0</u> PPM
CASING ELEVATION: (FEET MSL) -----	CASING DIAMETER: 2 INCH (<input checked="" type="checkbox"/>) 4 INCH () 6 INCH ()
DEPTH TO PRODUCT: (FEET) -----	OTHER: _____
DEPTH TO WATER: (FEET) ----- <u>4.91</u>	CALCULATED PURGE VOLUME: <u>1.85</u> GALLONS
DEPTH OF WELL: (FEET) ----- <u>16.28</u>	ACTUAL VOLUME PER PURGE: <u>2.0</u> GALLONS

TIME (HR./MIN.)	VOLUME (GALLONS)	pH (units)	E.C. (µmhos/cm / MSmhos/cm)	TEMP. (Degrees C)	COLOR (Visual) (Turbidity / NTU's)	OTHER (Odor)
	0	6.7	759	22.0	TURBID (BRN)	NO ODOR
	2	6.7	762	21.9	"	"
	4	6.7	757	22.3	LT "	"
	6	6.7	752	22.2	"	"
	8	6.7	750	22.1	"	"
	10	6.7	751	22.3	"	"
**** PURGE METHOD **** (CHECK OR CIRCLE ONE)						
ISCO 2" BLADDER AIR PUMP	2" GRUNDFOS PUMP (.1632)	4" GRUNDFOS PUMP (.6528 / 1.469)	3" OR 1" STAINLESS STEEL BAILER	MANUAL / ELECTRONIC BAILER SPOOL	ISCO PERISTALTIC PUMP	DISPOSABLE BAILER
SUBMERSIBLE PUMP	GEO-GUARD PUMP	WELL WIZARD	PNEUMATIC DISPLACEMENT PUMP	<input checked="" type="checkbox"/> CENTRIFUGAL PUMP	FULTZ PUMP	DEDICATED
**** SAMPLE METHOD **** (CHECK OR CIRCLE ONE)						
ISCO 2" BLADDER AIR PUMP	2" GRUNDFOS PUMP	4" GRUNDFOS PUMP	3" STAINLESS STEEL BAILER	<input checked="" type="checkbox"/> STAINLESS STEEL BAILER	ISCO PERISTALTIC	DISPOSABLE BAILER
DIPPER	SURFACE SAMPLER	WELL WIZARD	DEDICATED PUMP	TEFLON BAILER		OTHER
**** WELL INTEGRITY / LOCATION / WEATHER ****						
CAP & SEAL SECURE YES <input checked="" type="checkbox"/> NO ()	LOCK INSTALLED YES <input checked="" type="checkbox"/> NO () TYPE: <u>DEEPIN</u>	MONUMENT TYPE/STYLE: <u>FLUOR</u>	WELL CASING MATERIAL: <u>PVC</u>	RECHARGE: GOOD <input checked="" type="checkbox"/> FAIR () POOR ()	LOCATION: <u>SOUTHERN</u>	WEATHER: <u>CLEAR</u> AIR TEMP: _____

REMARKS: WELL NEEDS TO BE RE-DEVELOPED.



SAMPLE CHAIN OF CUSTODY RECORD

DEL-TECH GEOTECHNICAL SUPPORT
 10624 OLIVE AVE. OAKDALE, CALIFORNIA 95361
 OFFICE (209) 847-8757
 FAX (209) 847-7744

(PLEASE PRINT)

Lab. Analysis by: SEQUOIA
 LAB. INVOICE TO: TOUCHSTONE
604 30th AVE. / SAN FRAN. / CA.
 PH. # (415) 386 8791 / MIKE TAMERSONI
 P.O. # / INVOICE # _____

CLIENT / CONSULTANT: TOUCHSTONE

PROJECT / SITE NAME: <u>GOODYEAR TIRE</u>						ANALYSIS REQUESTED (ITEMIZED AND CHECKED BELOW)						SITE SAMPLE MAP (NOT TO SCALE)			
STREET: <u>3430 CASTRO VALLEY BLVD.</u> CITY: <u>CASTRO VALLEY, CA</u> STATE: <u>CA</u>						TPHG - Gasoline (8015 Mod.)	TPHD - Diesel (8015 Mod.)	TPRH - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS	B.T.X.E. (8020)	8010 HALOGENATED	8240 - PURGABLE ORGANICS	8270 - EXTRACTABLE ORGANICS	TTL METALS - SEE REMARKS		
SAMPLER: <u>HON LIGHT</u> (PRINTED SIGNATURE)			SHIP VIA: <u>TOUCHSTONE</u> WAYBILL # _____												
SAMPLE LOCATION (IDENTIFICATION)	DATE MTH./DAY/YR.	TIME HOUR / MIN.	NUMBER OF CONTAINERS	TYPE (GRAB OR COMPOSITE)	SAMPLE MATRIX										
1.) <u>mw-1</u>	<u>4/24/95</u>	<u>1300</u>	<u>1D</u>	<u>GRAB</u>	<u>WATER</u>	X	X	X	X	X	X	X	<u>TRPN - TOTAL OIL + GREASE</u>		
2.) <u>mw-2</u>	<u>1</u>	<u>1400</u>	<u>1D</u>	<u>1</u>	<u>1</u>										
3.) <u>mw-3</u>	<u>1</u>	<u>1430</u>	<u>1D</u>	<u>1</u>	<u>1</u>								<u>*ICAP METALS</u>		
4.) <u>TRIP BUNKS</u>	<u>RL</u>		<u>2</u>	<u>OL</u>	<u>RL</u>	↓	↓	↓	↓	↓	↓	↓	<u>(Cd, Cr, Pb, Zn, Ni)</u>		
5.)															
6.)															
7.)															
8.)															
9.)															
10.)															

RELINQUISHED BY: <u>Hon Light</u> (SIGNATURE)	DATE / TIME: <u>4/24/95 1500</u>	RECEIVED BY: <u>Kevin Banks</u> (SIGNATURE)	DATE / TIME: <u>4/24/95 1500</u>	** SAMPLE INTEGRITY / CONDITION & TURNAROUND TIME **	
RELINQUISHED BY: <u>Mike Tamersoni</u> (SIGNATURE)	DATE / TIME: <u>4/25/95 1515</u>	RECEIVED BY: <u>M. J. L. TD</u> (SIGNATURE)	DATE / TIME: <u>4-25-1995</u>	RECEIVED COLD & INTACT / YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	RESERVATIVES USED / YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
RELINQUISHED BY: <u>M. J. L.</u> (SIGNATURE)	DATE / TIME: <u>4-25-95/1611</u>	RECEIVED BY LABORATORY: _____	DATE / TIME: <u>4/25/95 1600</u>	CUSTODY SEALS INTACT / YES <input type="checkbox"/> NO <input type="checkbox"/> (NA <input checked="" type="checkbox"/>)	AIR BUBBLES IN V.O.A.'S / YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> LINE # _____
				TURN AROUND TIME: CHECK ONE	
				24 - HOUR <input type="checkbox"/> 48 - HOUR <input type="checkbox"/> 5 - DAY <input checked="" type="checkbox"/> 10 - DAY <input type="checkbox"/>	

NOTE: LABORATORY SAMPLE ARCHIVING WILL BE 30 DAYS FROM THE DATE SAMPLE WAS COLLECTED, UNLESS OTHER ARRANGEMENTS ARE MADE.
 PLEASE RETURN DEL-TECH'S ICE CHEST AND BLUE ICE AS SOON AS POSSIBLE. THANK YOU

APPENDIX B

CHEMICAL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Lab Proj. ID: 9504G64	Sampled: 04/24/95 Received: 04/25/95 Analyzed: see below Reported: 05/03/95
Attention: Mike Tambroni		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9504G64-01 Sample Desc: LIQUID,MW-1				
Cadmium	mg/L	04/27/95	0.010	N.D.
Chromium	mg/L	04/27/95	0.010	0.052
Lead	mg/L	04/27/95	0.0050	0.0056
Nickel	mg/L	04/27/95	0.050	0.060
TRPH (SM 5520 B&F)	mg/L	05/01/95	5.0	N.D.
Zinc	mg/L	04/27/95	0.010	0.13
Lab No: 9504G64-02 Sample Desc: LIQUID,MW-2				
Cadmium	mg/L	04/27/95	0.010	N.D.
Chromium	mg/L	04/27/95	0.010	0.054
Lead	mg/L	04/27/95	0.0050	0.0075
Nickel	mg/L	04/27/95	0.050	0.067
TRPH (SM 5520 B&F)	mg/L	05/01/95	5.0	N.D.
Zinc	mg/L	04/27/95	0.010	0.12
Lab No: 9504G64-03 Sample Desc: LIQUID,MW-3				
Cadmium	mg/L	04/27/95	0.010	N.D.
Chromium	mg/L	04/27/95	0.010	0.029
Lead	mg/L	04/27/95	0.0050	0.0071
Nickel	mg/L	04/27/95	0.050	0.075
TRPH (SM 5520 B&F)	mg/L	05/01/95	5.0	N.D.
Zinc	mg/L	04/27/95	0.010	0.084

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

VMT Clark

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9504G64-01	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: GC042795801015A
Instrument ID: GCHP15


Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	1.7
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager





Touchstone Development
684 30th Ave.
San Francisco, CA 94121

Client Proj. ID: Goodyear Tire
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9504G64-01

Sampled: 04/24/95
Received: 04/25/95
Extracted: 04/27/95
Analyzed: 04/28/95
Reported: 05/03/95

QC Batch Number: MS0427958270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





Sequoia Analytical

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Touchstone Development
684 30th Ave.
San Francisco, CA 94121

Client Proj. ID: Goodyear Tire
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9504G64-01

Sampled: 04/24/95
Received: 04/25/95
Extracted: 04/27/95
Analyzed: 04/28/95
Reported: 05/03/95

QC Batch Number: MS0427958270EXA
Instrument ID: F4

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	49
Phenol-d5	10	110	39
Nitrobenzene-d5	35	114	78
2-Fluorobiphenyl	43	116	75
2,4,6-Tribromophenol	10	123	81
p-Terphenyl-d14	33	141	69

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9504G64-01	Sampled: 04/24/95 Received: 04/25/95 Extracted: 04/27/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: GC0427950HBPEXZ
Instrument ID: GCHP5B


Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	118

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9504G64-01	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 04/27/95 Reported: 05/03/95
--	--	---

QC Batch Number: GC042795BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9504G64-02	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: GC042795801015A
Instrument ID: GCHP15

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	1.5
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Clark

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8270 Lab Number: 9504G64-02	Sampled: 04/24/95 Received: 04/25/95 Extracted: 04/27/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: MS0427958270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl) ether	5.0	N.D.
Bis(2-chloroisopropyl) ether	5.0	N.D.
Bis(2-ethylhexyl) phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8270 Lab Number: 9504G64-02	Sampled: 04/24/95 Received: 04/25/95 Extracted: 04/27/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: MS0427958270EXA
Instrument ID: F4

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	45
Phenol-d5	10	110	37
Nitrobenzene-d5	35	114	73
2-Fluorobiphenyl	43	116	71
2,4,6-Tribromophenol	10	123	76
p-Terphenyl-d14	33	141	71

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Vickie Tague Clark
Project Manager





Touchstone Development
684 30th Ave.
San Francisco, CA 94121
Attention: Mike Tambroni

Client Proj. ID: Goodyear Tire
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9504G64-02

Sampled: 04/24/95
Received: 04/25/95
Extracted: 04/27/95
Analyzed: 04/28/95
Reported: 05/03/95

QC Batch Number: GC0427950HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development
684 30th Ave.
San Francisco, CA 94121
Attention: Mike Tambroni

Client Proj. ID: Goodyear Tire
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9504G64-02

Sampled: 04/24/95
Received: 04/25/95
Analyzed: 04/26/95
Reported: 05/03/95

QC Batch Number: GC042695BTEX07B
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121 Attention: Mike Tambroni	Client Proj. ID: Goodyear Tire Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9504G64-03	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 05/01/95 Reported: 05/03/95
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QC Batch Number: GC042895801008A
Instrument ID: GCHP8


Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	15
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	0.89
cis-1,2-Dichloroethene	0.50	4.6
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	2.2
1,1,1-Trichloroethane	0.50	4.4
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	0.91
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	15

Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager





Touchstone Development
684 30th Ave.
San Francisco, CA 94121

Client Proj. ID: Goodyear Tire
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8270
Lab Number: 9504G64-03

Sampled: 04/24/95
Received: 04/25/95
Extracted: 04/27/95
Analyzed: 04/28/95
Reported: 05/03/95

QC Batch Number: MS0427958270EXA
Instrument ID: F4

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8270 Lab Number: 9504G64-03	Sampled: 04/24/95 Received: 04/25/95 Extracted: 04/27/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: MS0427958270EXA
Instrument ID: F4

Analyte	Detection Limit ug/L	Sample Results ug/L
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	45
Phenol-d5	10	110	34
Nitrobenzene-d5	35	114	79
2-Fluorobiphenyl	43	116	74
2,4,6-Tribromophenol	10	123	100
p-Terphenyl-d14	33	141	76

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9504G64-03	Sampled: 04/24/95 Received: 04/25/95 Extracted: 04/27/95 Analyzed: 04/28/95 Reported: 05/03/95
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QC Batch Number: GC0427950HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	960 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121 Attention: Mike Tambroni	Client Proj. ID: Goodyear Tire Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9504G64-03	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 04/26/95 Reported: 05/03/95
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QC Batch Number: GC042695BTEX07B
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	53
Benzene	0.50	12
Toluene	0.50	0.84
Ethyl Benzene	0.50	0.69
Xylenes (Total)	0.50	2.4
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121 Attention: Mike Tambroni	Client Proj. ID: Goodyear Tire Sample Descript: Trip Blank Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9504G64-04	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 04/26/95 Reported: 05/03/95
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QC Batch Number: GC042695BTEX07B
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager





Touchstone Development 684 30th Ave. San Francisco, CA 94121	Client Proj. ID: Goodyear Tire Sample Descript: Trip Blank Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9504G64-04	Sampled: 04/24/95 Received: 04/25/95 Analyzed: 05/01/95 Reported: 05/03/95
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QC Batch Number: GC042895801008A
Instrument ID: GCHP8

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager





Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid

Work Order #: 9504G64 -01, 2

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC042795801015A	GC042795801015A	GC042795801015A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Miller	J. Miller	J. Miller
MS/MSD #:	9504G6201	9504G6201	9504G6201
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/27/95	4/27/95
Instrument I.D.#:	GCHP15	GCHP15	GCHP15
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L

Result:	22	21	21
MS % Recovery:	88	84	84

Dup. Result:	20	17	17
MSD % Recov.:	80	68	68

RPD:	9.5	21	21
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK042795	BLK042795	BLK042795
Prepared Date:	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/27/95	4/27/95
Instrument I.D.#:	GCHP15	GCHP15	GCHP15
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	25	23	23
LCS % Recov.:	100	92	92

MS/MSD	28-167	35-146	38-150
LCS			
Control Limits			

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Vickie Tague Clark
Project Manager





Touchstone Developments
 684 30th Avenue
 San Francisco, CA 94121
 Attention: Mike Tambroni

Client Project ID: Goodyear Tire
 Matrix: Liquid
 Work Order #: 9504G64-03, 4

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
QC Batch#:	GC042895801008A	GC042895801008A	GC042895801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030

Analyst:	T. Costello	T. Costello	T. Costello
MS/MSD #:	9504E2602	9504E2602	9504E2602
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/28/95	4/28/95	4/28/95
Analyzed Date:	4/28/95	4/28/95	4/28/95
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L

Result:	28	28	27
MS % Recovery:	112	112	108

Dup. Result:	27	28	27
MSD % Recov.:	108	112	108

RPD:	3.6	0.0	0.0
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK042895	BLK042895	BLK042895
Prepared Date:	4/28/95	4/28/95	4/28/95
Analyzed Date:	4/28/95	4/28/95	4/28/95
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	27	26	26
LCS % Recov.:	108	104	104

MS/MSD	LCS	28-167	35-146	38-150
Control Limits				

SEQUOIA ANALYTICAL

Vickie Clark

Vickie Tague Clark
 Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference





Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid
Work Order #: 9504G64-01-3

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0427958270EXA	MS0427958270EXA	MS0427958270EXA	MS0427958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510

Analyst:	S. Hoffmann	S. Hoffmann	S. Hoffmann	S. Hoffmann
MS/MSD #:	BLK042795	BLK042795	BLK042795	BLK042795
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/28/95	4/28/95	4/28/95	4/28/95
Instrument I.D.#:	F4/H5	F4/H5	F4/H5	F4/H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	73	140	120	180
MS % Recovery:	37	70	60	90
Dup. Result:	74	160	130	170
MSD % Recov.:	37	80	65	85
RPD:	1.4	13	8.0	5.7
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD	5-112	23-134	20-124	DL-230
LCS				
Control Limits				

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

Vickie Clark
Vickie Tague Clark
Project Manager





Touchstone Developments
 684 30th Avenue
 San Francisco, CA 94121
 Attention: Mike Tambroni

Client Project ID: Goodyear Tire
 Matrix: Liquid
 Work Order #: 9504G64-01-3

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0427958270EXA	MS0427958270EXA	MS0427958270EXA	MS0427958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510

Analyst:	S. Hoffmann	S. Hoffmann	S. Hoffmann	S. Hoffmann
MS/MSD #:	BLK042795	BLK042795	BLK042795	BLK042795
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/28/95	4/28/95	4/28/95	4/28/95
Instrument I.D.#:	F4/H5	F4/H5	F4/H5	F4/H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	130	170	140	71
MS % Recovery:	65	85	70	36
Dup. Result:	150	160	140	51
MSD % Recov.:	75	80	70	26
RPD:	14	6.1	0.0	33
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD	LCS	44-142	22-147	47-145	DL-132
Control Limits					

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

Vickie Clark

Vickie Tague Clark
 Project Manager





Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid
Work Order #: 9504G64-01-3

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro- toluene	Pentachloro- phenol	Pyrene
QC Batch#:	MS0427958270EXA	MS0427958270EXA	MS0427958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510

Analyst:	S. Hoffmann	S. Hoffmann	S. Hoffmann
MS/MSD #:	BLK042795	BLK042795	BLK042795
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/28/95	4/28/95	4/28/95
Instrument I.D.#:	F4/H5	F4/H5	F4/H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L

Result:	160	180	120
MS % Recovery:	80	90	60

Dup. Result:	160	190	180
MSD % Recov.:	80	95	90

RPD:	0.0	5.4	40
RPD Limit:	0-50	0-50	0-50

LCS #:	-	-	-
Prepared Date:	-	-	-
Analyzed Date:	-	-	-
Instrument I.D.#:	-	-	-
Conc. Spiked:	-	-	-
LCS Result:	-	-	-
LCS % Recov.:	-	-	-

MS/MSD LCS	39-139	14-176	52-115
Control Limits			

SEQUOIA ANALYTICAL

Vickie Tague Clark

Vickie Tague Clark
Project Manager

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Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid
Work Order #: 9504G64-01-3

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Total Recoverable Petroleum Hydrocarb.	Diesel	Lead
QC Batch#:	OP0426955520EXB	GC0427950HBPEXZ	ME0427957000MDA
Analy. Method:	SM 5520 BF	EPA 8015 M	EPA 239.2
Prep. Method:	SPE	EPA 3520	EPA 3020

Analyst:	C. Garde	T. Olive	W. Thant
MS/MSD #:	BLK042695	9504H2101	9504C1902
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/26/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/28/95	4/27/95
Instrument I.D.#:	Manual	GCHP5	MTJA3
Conc. Spiked:	20 mg/L	600 µg/L	0.050 mg/L

Result:	8.7	580	0.050
MS % Recovery:	87	97	100

Dup. Result:	8.4	660	0.050
MSD % Recov.:	84	110	100

RPD:	3.5	13	0.0
RPD Limit:	0-50	0-50	0-30

LCS #:	-	BLK042795	BLK042795
Prepared Date:	-	4/27/95	4/27/95
Analyzed Date:	-	4/28/95	4/27/95
Instrument I.D.#:	-	GCHP5	MTJA3
Conc. Spiked:	-	600 µg/L	0.050 mg/L
LCS Result:	-	360	0.050
LCS % Recov.:	-	60	100

MS/MSD	70-110		
LCS		38-122	75-125
Control Limits			

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SEQUOIA ANALYTICAL

Vickie Tague Clark

Vickie Tague Clark
Project Manager

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Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid

Work Order #: 9504G64-01-3

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0427956010MDA	ME0427956010MDA	ME0427956010MDA	ME0427956010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9504C1902	9504C1902	9504C1902	9504C1902
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/27/95	4/27/95	4/27/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	1.0	0.98
MS % Recovery:	100	100	100	98
Dup. Result:	0.98	1.0	0.98	0.96
MSD % Recov.:	98	100	98	96
RPD:	2.0	0.0	2.0	2.1
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK042795	BLK042795	BLK042795	BLK042795
Prepared Date:	4/27/95	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/27/95	4/27/95	4/27/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.98	1.0	0.99	0.97
LCS % Recov.:	98	100	99	97

MS/MSD LCS	75-125	75-125	75-125	75-125
Control Limits				

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SEQUOIA ANALYTICAL

VMT Clark

Vickie Tague Clark
Project Manager

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Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid

Work Order #: 9504G64-01

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042795BTEX07A	GC042795BTEX07A	GC042795BTEX07A	GC042795BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Garcia	G. Garcia	G. Garcia	G. Garcia
MS/MSD #:	9504D3402	9504D3402	9504D3402	9504D3402
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/27/95	4/27/95	4/27/95	4/27/95
Analyzed Date:	4/27/95	4/27/95	4/27/95	4/27/95
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	11	11	10	31
MSD % Recov.:	110	110	100	103
RPD:	9.5	9.5	0.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD	71-133	72-128	72-130	71-120
LCS				
Control Limits				

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Project Manager

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Touchstone Developments
684 30th Avenue
San Francisco, CA 94121
Attention: Mike Tambroni

Client Project ID: Goodyear Tire
Matrix: Liquid
Work Order #: 9504G64-02-4

Reported: May 5, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042695BTEX07B	GC042695BTEX07B	GC042695BTEX07B	GC042695BTEX07B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Garcia	G. Garcia	G. Garcia	G. Garcia
MS/MSD #:	9504A1103	9504A1103	9504A1103	9504A1103
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/26/95	4/26/95	4/26/95	4/26/95
Analyzed Date:	4/26/95	4/26/95	4/26/95	4/26/95
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	11	33
MS % Recovery:	110	110	110	110
Dup. Result:	12	11	11	33
MSD % Recov.:	120	110	110	110
RPD:	8.7	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	-	-	-	-
Prepared Date:	-	-	-	-
Analyzed Date:	-	-	-	-
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	-	-	-	-
LCS Result:	-	-	-	-
LCS % Recov.:	-	-	-	-

MS/MSD LCS	71-133	72-128	72-130	71-120
Control Limits				

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**Touchstone
Developments**
Environmental Management

ENVIRONMENTAL
PROTECTION
95 MAY 22 PM 2:47

LETTER OF TRANSMITTAL

DATE 5/18/95

From: TIM WALKER

Project No: 9414

To: **Mr. W. J. Ingelhofer**
Goodyear Tire & Rubber Company
7301 Ambassador Row
Post Office Box 660245
Dallas, Texas 75266-0245

SUBJECT: **1995 2nd Quarterly Report
Monitoring and Sampling**
Goodyear Service Center
3430 Castro Valley Blvd.
Castro Valley, California

The following items are: Enclosed Sent Separately
via _____

Date	Description	# of Copies
5/17/95	QUARTERLY REPORT - 2nd Quarter 1995	2

These are transmitted: At your request For your action
 For your approval For your files
 For your review For your information
 Preliminary _____

COMMENTS:

Sincerely,

signed

cc: Scott Seery, Alameda County Environmental Health