

SECOR International Incorporated

LETTER OF TRANSMITTAL

2301 Leghorn Street
Mountain View, CA 94043-1431
Telephone (650) 691-0131
Fax (650) 691-9837

✓ 20474

Subject: 3430 Castro Valley Blvd., Castro Valley
Sampling Report

Send Via: Federal Express

Attn: Mr. Amir Gholami

Company: Alameda County Health Care
Services Agency

Address: Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Project Name Former Merritt Tire Sales/
Goodyear Leased Location # 9578
3430 Castro Valley Blvd.,
Castro Valley, CA
August 2002 Groundwater
Sampling Event

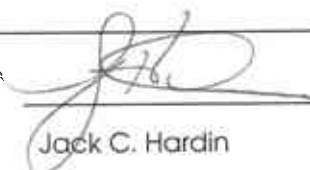
Date: September 23, 2002

- For:**
- As Requested
 - Review
 - Your Information
 - Approval
 - Signature
 - Return
 - Other

Project No. 06GY.66050.00.0001

Enclosure(s):	Quantity
Goodyear Leased Location # 9578, 3430 Castro Valley, Castro Valley Sampling Report	1

COMMENTS:

Signature: 

Jack C. Hardin

Cc: Ms. Karen Burlingame, Goodyear

Mr. Dennis Middleton, SECOR

Title: Regional Coordinator

September 23, 2002

Mr. Amir Gholami
Alameda County Health Care Services Agency
Environmental Protection Division (County)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Groundwater Sampling and Analysis
Former Merritt Tire Sales/Goodyear Leased Location No. 9578
3430 Castro Valley Boulevard
Castro Valley, Alameda County, CA
STID #1715
Project #: 06GY.66050.00.0001**

Dear Mr. Gholami:

SECOR International Incorporated (SECOR) is pleased to submit this Letter Report on behalf of Goodyear Tire and Rubber Company (Goodyear) presenting an evaluation of groundwater monitoring results for the Former Merritt Tire Sales/Goodyear Leased Location No. 9578 (Goodyear #9578), at 3430 Castro Valley Boulevard, Castro Valley, California (the Site; see Figure 1). This Letter Report is submitted to the Alameda County Health Care Services Agency, Environmental Protection Division (the County), in response to a Notice of Violation letter from the County to Goodyear dated December 4, 2001, and describes the results of groundwater sampling performed on August 28, 2002. SECOR was retained by Goodyear to perform this work and notified the County of this arrangement in a letter dated August 9, 2002.

BACKGROUND

Goodyear retained SEMCO on September 22, 1993 to conduct an investigation of a former waste oil underground storage tank (UST) location using hand auger sampling methods. Since there was no record on file of the removal of the UST, Goodyear cannot determine the date of the UST removal activity. According to background information included in a report by Touchstone Developments (Touchstone), dated November 1, 1994, SEMCO collected two soil samples from 8 feet below ground surface (bgs); one at the south end (No.1-South) and one at the north end (No.2-North) of the former UST location. Superior Analytical Laboratory in Martinez, California analyzed the soil samples for gasoline, benzene, toluene, ethylbenzene, total xylenes (collectively referred to as BTEX compounds), diesel range hydrocarbons, and oil and grease. Because both soil samples had detectable concentrations of total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), BTEX, and oil and grease, SEMCO recommended that a preliminary investigation be conducted to determine the extent of potential contamination.

In that same report by Touchstone dated November 1, 1994, Touchstone stated that Goodyear issued a form letter in January 1990 to their lessors, who, according to Goodyear records, had USTs on their leased facilities. The form letter was to obtain general information for permission to remove those USTs, if necessary. File records indicated that the UST was removed, however, there was no indication Goodyear contracted for the removal of the UST. It is assumed that the tenant, Merritt Tire & Brake, had the UST removed, although there was no record on file. Touchstone determined that the UST removal was performed without a permit, therefore, the details regarding the removal of the UST were not recorded.

Touchstone was retained by Goodyear in 1994 to respond to a formal request by the County dated May 19, 1994. The County requested that an initial investigation in the form of a preliminary site assessment be conducted at the site to determine the extent of environmental impact resulting from the potential release of petroleum hydrocarbons and related materials from the previously removed waste oil UST. Touchstone submitted a work plan to the County on August 10, 1994, and in September 1994, initiated the scope of work, which consisted of drilling three soil borings (to approximately 20 feet bgs, and convert the borings to two (2)-inch diameter monitoring wells (MW-1, MW-2, and MW-3, see Figure 2). Soil samples from MW-1 and MW-2 had no detectable concentrations of TPHg, TPHd, BTEX, oil and grease, halogenated volatile organics, or semivolatile organics. Soil samples from MW-3 did have detectable concentrations of these chemical constituents. Only soil samples from MW-1 had detectable concentrations of metals. Analytical results of groundwater samples collected from these monitoring wells indicated no detectable concentrations of these chemical constituents in MW-1 or MW-2 (except for nickel in MW-1), and detectable concentrations of TPHg, TPHd, BTEX, chromium, and nickel in MW-3. Depth to water ranged from 6.38 to 6.90 feet bgs, with a groundwater flow direction and gradient to the south-southwest and 0.0068 feet per foot, respectively. Touchstone Developments recommended further investigation and remedial action be performed.

A report by Touchstone dated May 15, 1995 summarized groundwater monitoring and sampling of Wells MW-1, MW-2, and MW-3. The work was performed on April 24, 1995 by DEL-TECH Services of Oakdale, California. Depth to water ranged from 4.38 to 4.91 feet bgs. Analytical results for this sampling effort indicated no detectable concentrations of TPHg, TPHd, BTEX, total oil and grease, semivolatile organics, or cadmium in MW-1 and MW-2. MW-1 and MW-2 had detectable concentrations of chloroform, chromium, lead, nickel, and zinc. Well MW-3 had detectable concentrations of TPHg, TPHd, BTEX, selected halogenated volatile organics (i.e., 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, tetrachloroethene [PCE], 1,1,1-trichloroethane, trichloroethene, vinyl chloride) and chromium, lead, nickel, and zinc.

EMCON Associates (EMCON) performed an expanded soil and groundwater assessment and a Tier 1 risk-based corrective action (RBCA) evaluation for the Site, as described in a report dated March 4, 1997. The purpose of the soil and groundwater assessment was to assess conditions adjacent to and downgradient (south) of the former waste oil UST. The RBCA was prepared to evaluate the potential risk posed by a chemical release at the Site and to determine what corrective action would be needed at the Site, if any. The field activities to collect supporting data commenced on December 13, 1996. Four soil borings (PB-1 to PB-4) were drilled to approximately 10 to 16 feet bgs (see Figure 2). Boring PB-4 was converted to a one (1)-inch diameter monitoring well MW-4. Soil samples from PB-1 and PB-4 were submitted for chemical analysis of TPHg, BTEX, and TRPH (PB-4 was also analyzed for total organic carbon [TOC]). Analytical results for soil samples from PB-1 indicated detectable concentrations of TPHg, BTEX, TRPH, and TOC; there were no detectable concentrations of TPHg, BTEX, or TRPH from PB-4 soils. A groundwater sample from PB-4 did not contain detectable concentrations of TPHg, TPHd, TRPH, BTEX, halogenated volatile organic compounds, or semivolatile organic compounds. A groundwater sample from MW-3 had detectable concentrations of BTEX and halogenated volatile organics (i.e., 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, PCE, 1,1,1-trichloroethane, trichloroethene, vinyl chloride). The approximate direction of groundwater flow was determined to be to the southeast with a gradient of 0.017 feet per foot. According to EMCON, the RBCA evaluation indicated that chemicals detected in soil and groundwater at the Site did not exceed levels that correspond to an acceptable level of risk. EMCON concluded that based on the results of their RBCA evaluation, and the occasional presence of a limited amount of floating product (hydraulic oil), that future work at the Site should consist of limited groundwater monitoring to verify that impacted groundwater continues to pose no significant risk.

SCOPE OF WORK – GROUNDWATER SAMPLING

On August 28, 2002, SECOR mobilized to the Site to sample four (4) monitoring wells (MW-1 through MW-4, see Figure 2). SECOR measured the depths to groundwater (DTWs) using a water level indicator calibrated to within 0.01 foot; this data was then compared to known wellhead elevations to determine groundwater elevation, and to calculate groundwater flow direction and gradient. Depth to and thickness of floating product was also measured in MW-3 using an oil/water interface probe. Depth to groundwater and floating product are presented on Table 1. Approximately three casing volumes of water from each well were then removed by bailing. The removed water was monitored for pH, temperature, dissolved oxygen, turbidity and conductivity (see Appendix A). Samples were decanted into laboratory-supplied glassware, placed into a cooler with ice, and submitted for analysis to Test America Inc. (Test America) of Nashville, Tennessee, under Chain-of-Custody protocol. The samples were analyzed using the following EPA Methods as directed by the County:

- 8015B for total petroleum hydrocarbons for gasoline (TPHg);
- 8015B/3510 for total petroleum hydrocarbons for diesel (TPHd);
- 418.1 for total recoverable petroleum hydrocarbons (TRPH);
- 8021B for benzene, toluene, ethylbenzene and xylenes (BTEX);
- 8021B for methyl tertiary-butyl ether (MTBE);
- 8021B (was used instead of 8010 which is now obsolete) for volatile organic compounds (VOCs);
- 8270 for phenols;
- 1664 for oil and grease; and
- 6010B for CAM 5 Metals (cadmium, chromium, lead, nickel, zinc).

Groundwater Analytical Results

Groundwater samples from three wells (MW-1, MW-2, and MW-4) were collected and submitted to Test America on August 29, 2002. Certified Analytical Reports and Chain of Custody documentation are included in Appendix B. Recent and historical groundwater analytical results are summarized on Table 1.

Well MW-3 was not sampled due to the presence of floating product. The groundwater samples collected from wells MW-1, MW-2, and MW-4 had no reportable concentrations of TPHg, TPHd, BTEX, MTBE, phenols, or oil and grease. Well MW-1 was detected with 0.207 milligrams per Liter (mg/L) of TRPH and 0.00140 mg/L of PCE. Well MW-2 detected a TRPH concentration of 0.162 mg/L. All three wells had detectable concentrations of the CAM 5 Metals (i.e., chromium results ranged from 0.0240 to 0.0920 mg/L; lead results ranged from 0.100 to 0.0200 mg/L; nickel results ranged from 0.0520 to 0.0980 mg/L; zinc results ranged from 0.0590 to 0.135 mg/L). Cadmium was non-detect in any of the samples.

Groundwater Flow Direction, Gradient, and Product Thickness

Based on information collected by SECOR during the groundwater sampling event, and surveyed well data provided by previous consultants, groundwater flow direction appears to be to the south-southwest with a gradient of 0.014 feet per foot. Apparent floating product thickness in Well MW-3 was calculated as 5.69 feet. Actual product thickness is likely significantly less due to the specific gravity or density of the product, the absence of a capillary fringe within the well, and the buoyancy force of the formation water in the well. Practical methods of calculating the actual thickness of floating product (e.g., recharge and/or bail-down tests) can be employed.

SUMMARY AND CONCLUSIONS

- SECOR performed one round of groundwater sampling on four wells on August 28, 2002. Due to the presence of floating product in MW-3, samples were collected from three wells (MW-1, MW-2, MW-4) and analyzed by Test America for the potential presence of petroleum hydrocarbons, BTEX, MTBE, phenols, oil and grease, and CAM 5 Metals. Groundwater samples were collected to determine whether further investigation is warranted.
- Well MW-3 was not sampled due to the presence of separate phase hydrocarbons. Depth to product for well MW-3 was measured at 5.56 feet bgs, with an apparent product thickness of 5.69 feet. Actual product thickness is likely significantly less due to the specific gravity or density of the product, the absence of a capillary fringe within the well, and the buoyancy force of the formation water in the well. Practical methods of calculating the actual thickness of floating product (e.g., recharge and/or bail-down tests) can be employed.
- Groundwater samples from wells MW-1 and MW-2 had detectable concentrations of TRPH (MW-1 at 0.207 mg/L and MW-2 at 0.162 mg/L). Well MW-4 was non-detect for TRPH. MW-1 detected PCE at 0.00140 mg/L, which is below the California Department of Health Services Drinking Water Standard (Primary Maximum Contaminant Level [MCL]) of 0.005 mg/L. MW-1, MW-2 and MW-4 had detectable concentrations of CAM 5 Metals (i.e., chromium results ranged from 0.0240 to 0.0920 mg/L; lead results ranged from 0.0100 to 0.0200 mg/L; nickel results ranged from 0.0520 to 0.0980 mg/L; zinc results ranged from 0.0590 to 0.135 mg/L), with MW-1 exceeding the MCL for chromium and lead of 0.05 and 0.015 mg/L, respectively. Cadmium was non-detect in all the samples. Recent and historical groundwater analytical results are summarized on Table 1.
- TPHg, TPHd, BTEX, MTBE, phenols, and oil and grease were non-detect in all the samples.

Based on the results, further investigation is warranted. A Work Plan is being prepared to outline the next phase of activities.


SECOR appreciates the opportunity to submit this letter report on behalf of Goodyear and trust that this document meets with your approval. Please do not hesitate to contact us at (650) 691-0131 or (330) 896-9226, respectively, with any questions or comments.

Sincerely,

SECOR International Incorporated



Jack C. Hardin
Regional Coordinator



Dennis L. Middleton FOR
Project Manager

Attachments:

Table 1 – Groundwater Analytical Results

Figure 1 – Site Map

Figure 2 – Site Location Map with Groundwater Contours

Mr. Amir Gholami
September 23, 2002
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Appendix A – Field and Laboratory Procedures
Appendix B – Certified Analytical Report and Chain of Custody
Appendix C – Field Data Sheets

cc: Ms. Karen Burlingame, Goodyear

TABLE 1
Groundwater Analytical Results

Former Meritt Tire Sales/Goodyear Leased Location #9578
3430 Castro Valley Blvd.,
Castro Valley, California

Sample ID	Date Sampled	Depth to Water (ft.)	Depth to Product (ft.)	TPH as Gasoline (mg/L)	TPH as Diesel (mg/L)	TRPH (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Tetra-chloroethane (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
RBSL (mg/L)							53.4	>sol	580	>sol						
MCL (mg/L)							0.001	0.15	0.7	1.75	0.013	0.005	0.05	0.015	0.1	--
MW-1	04/24/95	4.43	--	ND	ND	ND	ND	ND	ND	ND	--	--	0.052	0.0056	0.060	0.13
	08/28/02	6.04	--	<0.0500	<0.050	0.207	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00140	0.0920	0.0200	0.0980	0.135
MW-2	04/24/95	4.38	--	ND	ND	ND	ND	ND	ND	ND	--	--	0.054	0.0075	0.067	0.12
	08/28/02	5.66	--	<0.0500	<0.050	0.162	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00100	0.0430	0.0100	0.0520	0.0590
MW-3	09/30/94	--	--	--	--	--	0.029	0.0032	0.0033	0.029	--	0.012	0.01	ND	ND	0.02
	04/24/95	4.91	--	0.053	0.960	ND	0.012	0.00084	0.00069	0.0024	--	--	0.029	0.0071	0.075	0.084
	02/09/96	--	--	--	--	--	0.0096	0.0014	0.0012	0.002	--	--	NT	NT	NT	NT
	12/31/96	--	--	--	--	--	0.095	0.007	0.019	0.053	--	--	NT	NT	NT	NT
	08/28/02	11.25	5.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	04/24/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/31/96	--	--	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	NT	NT
	08/28/02	7.40	--	<0.0500	<0.050	<0.100	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00100	0.0240	0.0110	0.0770	0.0780

Notes:

ft = feet
mg/L = milligrams per Liter
ND = Not detected above laboratory reporting limits
NS = Not sampled
NT = Not tested

RBSL = Risk Based Screening Level used in the EMCON report dated March 4, 1997; Groundwater-to-Ambient Air Pathway
>sol = RBSL exceeds the solubility of compound in water
MCL = Primary Maximum Contaminant Levels from California Department of Health Services (last updated February 19, 2002)

TPH = Total petroleum hydrocarbons
TRPH = Total recoverable petroleum hydrocarbons
MTBE = Methyl tert-butyl ether

TPHg analyzed by EPA Method 8015B
TPHd analyzed by EPA Method 8015B/3510
TRPH analyzed by EPA Method 418.1
BTEX compounds analyzed by EPA Method 8021B
MtBE analyzed by EPA Method 8021B
Tetrachloroethane analyzed by EPA Method 8021B
Metals analyzed by EPA Method 6010B

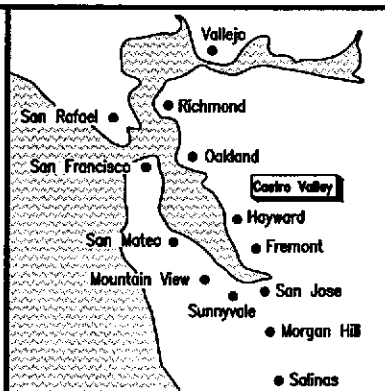
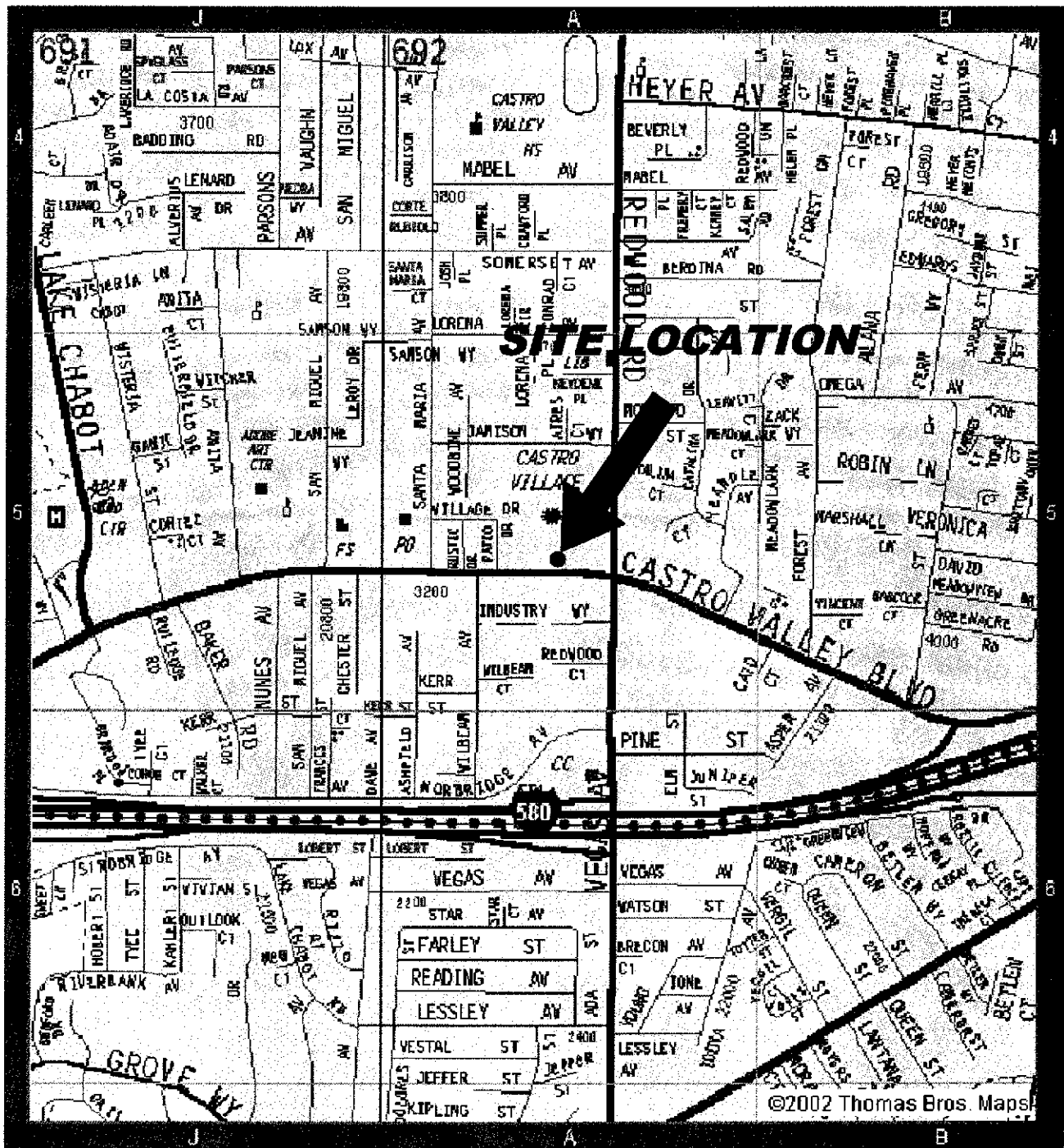
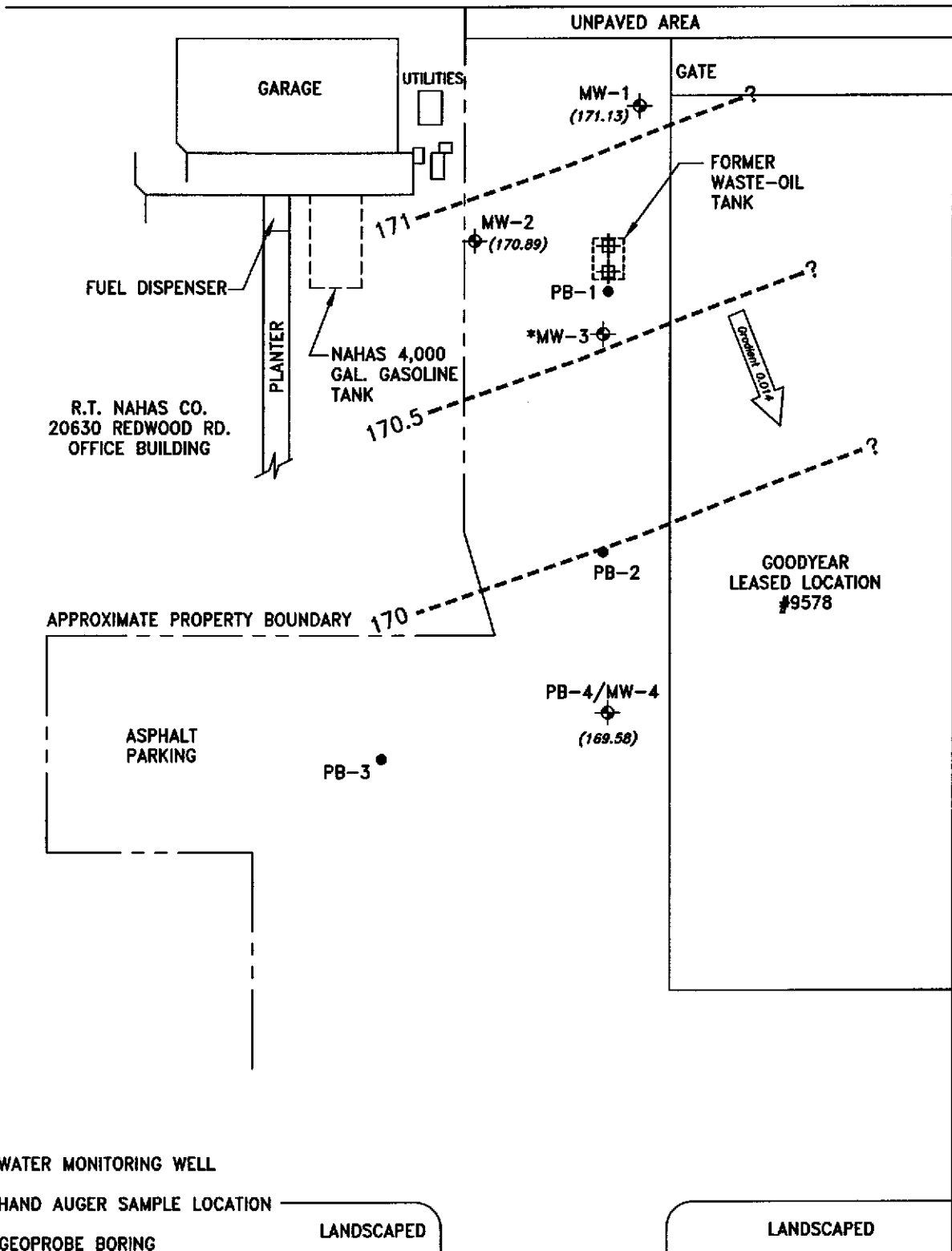


FIGURE 1

FORMER MERRITT TIRE/GOODYEAR LEASED LOCATION #9578
 3430 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA
SITE MAP

SECOR
International Incorporated

DRAWN BY:	LG	APP. BY:	JH
DATE:	09-05-02		
JOB NO.:	46GY.66032.00		
DRAWING NO.	9578-SP	REV.	



LEGEND:

- ◆ GROUNDWATER MONITORING WELL
- ⊞ SEMCO HAND AUGER SAMPLE LOCATION
- EMCON GEOPROBE BORING

(173.13) GROUNDWATER ELEVATION (FT-MSL)
MEASURED 08/28/02

• NO GROUNDWATER LEVEL MEASUREMENT
DUE TO FLOATING PRODUCT

--- GROUNDWATER ELEVATION CONTOUR
 → APPROXIMATE DIRECTION OF
 GROUNDWATER FLOW

Gradient 0.014



SECOR
International Incorporated

DRAWN BY:	LG	APP. BY:	JH
DATE:	09-05-02		
JOB NO.:	46GY.66032.00		
DRAWING NO.	9578-SLMGWC	REV.	

FIGURE 2
 FORMER MERRITT TIRE/GOODYEAR LEASED LOCATION #9578
 3430 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA
SITE LOCATION MAP
WITH GROUNDWATER CONTOURS

ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product that do not have submerged screens are then sampled without purging. Wells that have submerged screens are purged of approximately three casing volumes of water (or to dryness) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory.

Laboratory Procedures

The groundwater samples were analyzed according to EPA methods listed in Table 1 and in Attachment B. The certified analytical report and chain-of-custody records are presented as Attachment B. Field data sheets are presented in Attachment C.

APPENDIX B

CERTIFIED ANALYTICAL REPORTS AND CHAIN OF CUSTODY

TestAmerica

INCORPORATED

9/ 7/02

SECOR 3862
Dennis Middleton
1505 Corporate Woods Parkway
Uniontown, OH 44685

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 46GY.66032.00.0009 GOODYEAR LEASED LOCATION. The Laboratory Project number is 299328. An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
MW-1	02-A143384	8/28/02
MW-2	02-A143385	8/28/02
MW-4	02-A143386	8/28/02

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L. Connor

Report Date: 9/ 7/02

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 01168CA

ANALYTICAL REPORT

SECOR 3862
 Dennis Middleton
 1505 Corporate Woods Parkway
 Uniontown, OH 44685

Lab Number: 02-A143384
 Sample ID: MW-1
 Sample Type: Water
 Site ID:

Project: 46GY.66032.00.0009
 Project Name: GOODYEAR LEASED LOCATION
 Sampler: MICHAEL ASAKANA

Date Collected: 8/28/02
 Time Collected: 13:30
 Date Received: 8/30/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	mg/l	0.0005	1.0	9/ 6/02	3:19	D.Yeager	8021B	4873
Ethylbenzene	ND	mg/l	0.0005	1.0	9/ 6/02	3:19	D.Yeager	8021B	4873
Toluene	ND	mg/l	0.0005	1.0	9/ 6/02	3:19	D.Yeager	8021B	4873
Xylenes (Total)	ND	mg/l	0.0005	1.0	9/ 6/02	3:19	D.Yeager	8021B	4873
Methyl-t-butylether	ND	mg/l	0.0005	1.0	9/ 6/02	3:19	D.Yeager	8021B	4873
TRPH, IR	0.207	mg/l	0.100	1.0	9/ 4/02	17:51	A. Sims	418.1	2088
TPH (Gasoline Range)	ND	mg/l	0.0500	1.0	9/ 6/02	3:19	D.Yeager	8015B	4873
TPH (Diesel Range)	ND	mg/l	0.050	1.0	9/ 6/02	13:45	D.Haywood	8015B/3510	4080
EXTRACTABLE ORGANICS									
4-Chloro-3-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2-Chlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2,4-Dichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2,4-Dimethylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
4,6-Dinitro-2-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2,4-Dinitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
4-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
Pentachlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
Phenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2,4,5-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
2,4,6-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	21:51	M. Cobb	8270C	4093
VOLATILE ORGANICS by GC									
Chlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143384
 Sample ID: MW-1
 Project: 46GY.66032.00.0009
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Bromodichloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Bromoform	ND	mg/l	0.00200	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Bromomethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Carbon tetrachloride	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Chloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
2-Chloroethylvinylether	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Chloroform	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Chloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Dibromochloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Vinyl chloride	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,1-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Methylene chloride	ND	mg/l	0.00500	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Tetrachloroethene	0.00140	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Trichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	0:11	C. Bailey	8021B	5138
METALS									
Cadmium	ND	mg/l	0.0010	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Chromium	0.0920	mg/l	0.0050	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Lead	0.0200	mg/l	0.0030	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Nickel	0.0980	mg/l	0.0100	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Zinc	0.135	mg/l	0.0200	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143384
 Sample ID: MW-1
 Project: 46GY.66032.00.0009
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Oil & Grease as HEM	ND	mg/l	5.21	1.0	9/ 4/02	13:31	M. Cauthen	1664	2090

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH	1000 ml	1.00 ml	9/ 4/02		D. Harris	3510
BNA's	1000 ml	1.0 ml	9/ 3/02		M. Cauthen	3510

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	132.	50. - 150.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 132.
PID Surr., a,a,a-trifluorotoluene	99.	69. - 132.
BNA Surr-Nitrobenzene-d5	75.	40. - 127.
BNA Surr-2-Fluorobiphenyl	73.	42. - 113.
BNA Surr-Terphenyl-d14	77.	41. - 129.
BNA Surr-Phenol-d5	26.	1. - 75.
BNA Surr-2-Fluorophenol	33.	3. - 97.
BNA Surr-2,4,6-Tribromophenol	4. #	35. - 174.
Hall Surr., 2-chloropropane	82.	68. - 99.
Hall Surr., chloroprene	102. #	65. - 95.
Hall Surr., 1-chloro-3-fluorobenzene	133. #	71. - 103.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143384
Sample ID: MW-1
Project: 46GY.66032.00.0009
Page 4

LABORATORY COMMENTS:

- ND - Not detected at the report limit.
- B - Analyte was detected in the method blank.
- J - Estimated Value below Report Limit.
- E - Estimated Value above the calibration limit of the instrument.
- # - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

SECOR 3862
 Dennis Middleton
 1505 Corporate Woods Parkway
 Uniontown, OH 44685

Lab Number: 02-A143385
 Sample ID: MW-2
 Sample Type: Water
 Site ID:

Project: 46GY.66032.00.0009
 Project Name: GOODYEAR LEASED LOCATION
 Sampler: MICHAEL ASAKANA

Date Collected: 8/28/02
 Time Collected: 14:45
 Date Received: 8/30/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	mg/l	0.0005	1.0	9/ 6/02	3:51	D.Yeager	8021B	4873
Ethylbenzene	ND	mg/l	0.0005	1.0	9/ 6/02	3:51	D.Yeager	8021B	4873
Toluene	ND	mg/l	0.0005	1.0	9/ 6/02	3:51	D.Yeager	8021B	4873
Xylenes (Total)	ND	mg/l	0.0005	1.0	9/ 6/02	3:51	D.Yeager	8021B	4873
Methyl-t-butylether	ND	mg/l	0.0005	1.0	9/ 6/02	3:51	D.Yeager	8021B	4873
TRPH, IR	0.162	mg/l	0.100	1.0	9/ 4/02	17:51	A. Sims	418.1	2088
TPH (Gasoline Range)	ND	mg/l	0.0500	1.0	9/ 6/02	3:51	D.Yeager	8015B	4873
TPH (Diesel Range)	ND	mg/l	0.050	1.0	9/ 5/02	23:26	D.Haywood	8015B/3510	4080
EXTRACTABLE ORGANICS									
4-Chloro-3-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2-Chlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2,4-Dichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2,4-Dimethylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
4,6-Dinitro-2-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2,4-Dinitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
4-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
Pentachlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
Phenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2,4,5-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
2,4,6-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	22:31	M. Cobb	8270C	4093
VOLATILE ORGANICS by GC									
Chlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143385
 Sample ID: MW-2
 Project: 46GY.66032.00.0009
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Bromodichloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Bromoform	ND	mg/l	0.00200	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Bromomethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Carbon tetrachloride	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Chloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
2-Chloroethylvinylether	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Chloroform	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Chloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Dibromochloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Vinyl chloride	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,1-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Methylene chloride	ND	mg/l	0.00500	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Tetrachloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Trichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	17:39	C. Bailey	8021B	1672
METALS									
Cadmium	ND	mg/l	0.0010	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Chromium	0.0430	mg/l	0.0050	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Lead	0.0100	mg/l	0.0030	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Nickel	0.0520	mg/l	0.0100	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Zinc	0.0590	mg/l	0.0200	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143385
 Sample ID: MW-2
 Project: 46GY.66032.00.0009
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Oil & Grease as HEM	ND	mg/l	5.21	1.0	9/ 4/02	13:31	M. Cauthen	1664	2090

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH	1000 ml	1.00 ml	9/ 4/02		D. Harris	3510
BNA's	1000 ml	1.0 ml	9/ 3/02		M. Cauthen	3510

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	105.	50. - 150.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 132.
PID Surr., a,a,a-trifluorotoluene	93.	69. - 132.
BNA Surr-Nitrobenzene-d5	61.	40. - 127.
BNA Surr-2-Fluorobiphenyl	60.	42. - 113.
BNA Surr-Terphenyl-d14	64.	41. - 129.
BNA Surr-Phenol-d5	36.	1. - 75.
BNA Surr-2-Fluorophenol	53.	3. - 97.
BNA Surr-2,4,6-Tribromophenol	87.	35. - 174.
Hall Surr., 2-chloropropane	82.	68. - 99.
Hall Surr., chloroprene	101. #	65. - 95.
Hall Surr., 1-chloro-3-fluorobenzene	129. #	71. - 103.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143385
Sample ID: MW-2
Project: 46GY.66032.00.0009
Page 4

LABORATORY COMMENTS:

- ND - Not detected at the report limit.
- B - Analyte was detected in the method blank.
- J - Estimated Value below Report Limit.
- E - Estimated Value above the calibration limit of the instrument.
- # - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

SECOR 3862
 Dennis Middleton
 1505 Corporate Woods Parkway
 Uniontown, OH 44685

Lab Number: 02-A143386
 Sample ID: MW-4
 Sample Type: Water
 Site ID:

Project: 46GY.66032.00.0009
 Project Name: GOODYEAR LEASED LOCATION
 Sampler: MICHAEL ASAKANA

Date Collected: 8/28/02
 Time Collected: 16:40
 Date Received: 8/30/02
 Time Received: 9:00
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	mg/l	0.0005	1.0	9/ 6/02	4:23	D.Yeager	8021B	4873
Ethylbenzene	ND	mg/l	0.0005	1.0	9/ 6/02	4:23	D.Yeager	8021B	4873
Toluene	ND	mg/l	0.0005	1.0	9/ 6/02	4:23	D.Yeager	8021B	4873
Xylenes (Total)	ND	mg/l	0.0005	1.0	9/ 6/02	4:23	D.Yeager	8021B	4873
Methyl-t-butylether	ND	mg/l	0.0005	1.0	9/ 6/02	4:23	D.Yeager	8021B	4873
TRPH, IR	ND	mg/l	0.100	1.0	9/ 4/02	17:51	A. Sims	418.1	2088
TPH (Gasoline Range)	ND	mg/l	0.0500	1.0	9/ 6/02	4:23	D.Yeager	8015B	4873
TPH (Diesel Range)	ND	mg/l	0.050	1.0	9/ 5/02	23:45	D.Haywood	8015B/3510	4080
EXTRACTABLE ORGANICS									
4-Chloro-3-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2-Chlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2,4-Dichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2,4-Dimethylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
4,6-Dinitro-2-methylphenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2,4-Dinitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
4-Nitrophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
Pentachlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
Phenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2,4,5-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
2,4,6-Trichlorophenol	ND	mg/l	0.0100	1.0	9/ 5/02	23:10	M. Cobb	8270C	4093
VOLATILE ORGANICS by GC									
Chlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143386
 Sample ID: MW-4
 Project: 46GY.66032.00.0009
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,3-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,4-Dichlorobenzene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Bromodichloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Bromoform	ND	mg/l	0.00200	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Bromomethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Carbon tetrachloride	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Chloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
2-Chloroethylvinylether	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Chloroform	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Chloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Dibromochloromethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Vinyl chloride	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Dichlorodifluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,1-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,2-Dichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,1-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,2-Dichloropropane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Methylene chloride	ND	mg/l	0.00500	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Tetrachloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,1,1-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
1,1,2-Trichloroethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Trichloroethene	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
Trichlorofluoromethane	ND	mg/l	0.00100	1.0	9/ 6/02	10:38	C. Bailey	8021B	5138
METALS									
Cadmium	ND	mg/l	0.0010	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Chromium	0.0240	mg/l	0.0050	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Lead	0.0110	mg/l	0.0030	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Nickel	0.0770	mg/l	0.0100	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398
Zinc	0.0780	mg/l	0.0200	1.0	9/ 4/02	18:33	C. Johnson	6010B	1398

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143386
 Sample ID: MW-4
 Project: 46GY.66032.00.0009
 Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
MISCELLANEOUS CHEMISTRY									
Oil & Grease as HEM	ND	mg/l	5.21	1.0	9/ 4/02	13:31	M. Cauthen	1664	2090

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH	1000 ml	1.00 ml	9/ 4/02		D. Harris	3510
BNA's	1000 ml	1.0 ml	9/ 3/02		M. Cauthen	3510

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	98.	50. - 150.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 132.
PID Surr., a,a,a-trifluorotoluene	92.	69. - 132.
BNA Surr-Nitrobenzene-d5	86.	40. - 127.
BNA Surr-2-Fluorobiphenyl	83.	42. - 113.
BNA Surr-Terphenyl-d14	79.	41. - 129.
BNA Surr-Phenol-d5	47.	1. - 75.
BNA Surr-2-Fluorophenol	71.	3. - 97.
BNA Surr-2,4,6-Tribromophenol	119.	35. - 174.
Hall Surr., 2-chloropropane	80.	68. - 99.
Hall Surr., chloroprene	96. #	65. - 95.
Hall Surr., 1-chloro-3-fluorobenzene	127. #	71. - 103.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 02-A143386
Sample ID: MW-4
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LABORATORY COMMENTS:

- ND - Not detected at the report limit.
- B - Analyte was detected in the method blank.
- J - Estimated Value below Report Limit.
- E - Estimated Value above the calibration limit of the instrument.
- # - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Benzene	mg/l	< 0.0005	0.0430	0.0500	86	74. - 129.	4873	blank
Toluene	mg/l	< 0.0005	0.0451	0.0500	90	74. - 128.	4873	blank
Ethylbenzene	mg/l	< 0.0005	0.0436	0.0500	87	75. - 128.	4873	blank
Xylenes (Total)	mg/l	< 0.0005	0.0880	0.100	88	72. - 126.	4873	blank
Methyl-t-butylether	mg/l	< 0.0005	0.0419	0.0500	84	64. - 133.	4873	blank
TPH (Gasoline Range)	mg/l	< 0.0500	0.947	1.00	95	59. - 128.	4873	blank
TPH (Diesel Range)	mg/l	< 0.050	0.542	1.00	54	23. - 120.	4080	BLANK
BTEX/GRO Surr., a,a,a-TFT	% Recovery				99	69. - 132.	4873	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Chlorobenzene	mg/l	< 0.00018	0.0189	0.0200	94	57. - 142.	1672	blank
Chlorobenzene	mg/l	< 0.00018	0.0185	0.0200	92	57. - 142.	5138	blank
1,2-Dichlorobenzene	mg/l	0.00080	0.0201	0.0200	96	71. - 125.	1672	blank
1,2-Dichlorobenzene	mg/l	0.00060	0.0206	0.0200	100	71. - 125.	5138	blank
1,3-Dichlorobenzene	mg/l	< 0.00021	0.0181	0.0200	90	62. - 132.	1672	blank
1,3-Dichlorobenzene	mg/l	< 0.00021	0.0197	0.0200	98	62. - 132.	5138	blank
1,4-Dichlorobenzene	mg/l	< 0.00098	0.0207	0.0200	104	65. - 132.	1672	blank
1,4-Dichlorobenzene	mg/l	< 0.00098	0.0207	0.0200	104	65. - 132.	5138	blank
Bromodichloromethane	mg/l	< 0.00011	0.0212	0.0200	106	69. - 134.	1672	blank
Bromodichloromethane	mg/l	< 0.00011	0.0194	0.0200	97	69. - 134.	5138	blank
Bromoform	mg/l	< 0.00112	0.0194	0.0200	97	55. - 135.	1672	blank
Bromoform	mg/l	< 0.00112	0.0203	0.0200	102	55. - 135.	5138	blank
Bromomethane	mg/l	< 0.00016	0.0206	0.0200	103	44. - 137.	1672	blank
Bromomethane	mg/l	< 0.00016	0.0210	0.0200	105	44. - 137.	5138	blank
Carbon tetrachloride	mg/l	< 0.00010	0.0204	0.0200	102	73. - 125.	1672	blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Carbon tetrachloride	mg/l	< 0.00010	0.0204	0.0200	102	73. - 125.	5138	blank
Chloroethane	mg/l	< 0.00022	0.0258	0.0200	129	59. - 146.	1672	blank
Chloroethane	mg/l	< 0.00022	0.0209	0.0200	104	59. - 146.	5138	blank
2-Chloroethylvinylether	mg/l	< 0.00016	< 0.00100	0.0200	N/A	27. - 129.	1672	blank
2-Chloroethylvinylether	mg/l	< 0.00016	< 0.00100	0.0200	N/A	27. - 129.	5138	blank
Chloroform	mg/l	< 0.00010	0.0209	0.0200	104	72. - 125.	5138	blank
Chloromethane	mg/l	< 0.00022	0.0324	0.0200	162	15. - 197.	1672	blank
Chloromethane	mg/l	< 0.00022	0.0253	0.0200	126	15. - 197.	5138	blank
Dibromochloromethane	mg/l	< 0.00038	0.0200	0.0200	100	73. - 128.	1672	blank
Dibromochloromethane	mg/l	< 0.00038	0.0208	0.0200	104	73. - 128.	5138	blank
Vinyl chloride	mg/l	< 0.00011	0.0205	0.0200	102	71. - 133.	1672	blank
Vinyl chloride	mg/l	< 0.00011	0.0207	0.0200	104	71. - 133.	5138	blank
Dichlorodifluoromethane	mg/l	< 0.00010	0.0230	0.0200	115	44. - 172.	1672	blank
Dichlorodifluoromethane	mg/l	< 0.00010	0.0229	0.0200	114	44. - 172.	5138	blank
1,1-Dichloroethane	mg/l	< 0.00013	0.0228	0.0200	114	64. - 140.	1672	blank
1,1-Dichloroethane	mg/l	< 0.00013	0.0229	0.0200	114	64. - 140.	5138	blank
1,2-Dichloroethane	mg/l	< 0.00010	0.0214	0.0200	107	79. - 125.	1672	blank
1,2-Dichloroethane	mg/l	< 0.00010	0.0216	0.0200	108	79. - 125.	5138	blank
1,1-Dichloroethene	mg/l	< 0.00012	0.0218	0.0200	109	70. - 125.	1672	blank
1,1-Dichloroethene	mg/l	< 0.00012	0.0175	0.0200	88	70. - 125.	5138	blank
cis-1,2-Dichloroethene	mg/l	< 0.00092	0.0210	0.0200	105	76. - 121.	1672	blank
cis-1,2-Dichloroethene	mg/l	< 0.00092	0.0215	0.0200	108	76. - 121.	5138	blank
trans-1,2-Dichloroethene	mg/l	< 0.00010	0.0240	0.0200	120	66. - 135.	1672	blank
trans-1,2-Dichloroethene	mg/l	< 0.00010	0.0207	0.0200	104	66. - 135.	5138	blank
1,2-Dichloropropane	mg/l	< 0.00010	0.0206	0.0200	103	80. - 123.	1672	blank
1,2-Dichloropropane	mg/l	< 0.00010	0.0209	0.0200	104	80. - 123.	5138	blank
cis-1,3-Dichloropropene	mg/l	< 0.00018	0.0198	0.0200	99	69. - 123.	1672	blank
cis-1,3-Dichloropropene	mg/l	< 0.00018	0.0198	0.0200	99	69. - 123.	5138	blank
trans-1,3-Dichloropropene	mg/l	< 0.00013	0.0192	0.0200	96	68. - 123.	1672	blank
trans-1,3-Dichloropropene	mg/l	< 0.00013	0.0192	0.0200	96	68. - 123.	5138	blank
Methylene chloride	mg/l	< 0.00096	0.0231	0.0200	116	46. - 161.	1672	blank
Methylene chloride	mg/l	< 0.00096	0.0183	0.0200	92	46. - 161.	5138	blank
1,1,2,2-Tetrachloroethane	mg/l	< 0.00034	0.0197	0.0200	98	68. - 133.	1672	blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
1,1,2,2-Tetrachloroethane	mg/l	< 0.00034	0.0215	0.0200	108	68. - 133.	5138	blank
Tetrachloroethene	mg/l	< 0.00042	0.0198	0.0200	99	68. - 128.	1672	blank
Tetrachloroethene	mg/l	< 0.00042	0.0197	0.0200	98	68. - 128.	5138	blank
1,1,1-Trichloroethane	mg/l	< 0.00010	0.0201	0.0200	100	75. - 125.	1672	blank
1,1,1-Trichloroethane	mg/l	< 0.00010	0.0199	0.0200	100	75. - 125.	5138	blank
1,1,2-Trichloroethane	mg/l	< 0.00017	0.0220	0.0200	110	74. - 126.	1672	blank
1,1,2-Trichloroethane	mg/l	< 0.00017	0.0225	0.0200	112	74. - 126.	5138	blank
Trichloroethene	mg/l	0.00190	0.0209	0.0200	95	72. - 131.	1672	blank
Trichloroethene	mg/l	< 0.00019	0.0190	0.0200	95	72. - 131.	5138	blank
Trichlorofluoromethane	mg/l	< 0.00010	0.0208	0.0200	104	82. - 121.	1672	blank
Trichlorofluoromethane	mg/l	< 0.00010	0.0192	0.0200	96	82. - 121.	5138	blank
Hall Surr., 2-chloropropane % Rec					95	68. - 99.	1672	
Hall Surr., 2-chloropropane % Rec					96	68. - 99.	5138	
Hall Surr., chloroprene % Rec					108	65. - 95.	1672	
Hall Surr., chloroprene % Rec					111	65. - 95.	5138	
Hall Surr., 1-chloro-3-fluorobenzene					134	71. - 103.	1672	
Hall Surr., 1-chloro-3-fluorobenzene					135	71. - 103.	5138	
PID Surr., a,a,a-trifluorotoluene Recovery					93	69. - 132.	1672	
PID Surr., a,a,a-trifluorotoluene Recovery					95	69. - 132.	5138	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
EXTRACTABLE PARAMETERS								
4-Chloro-3-methylphenol	mg/l	< 0.00100	0.0380	0.0500	76	40. - 126.	4093	blank
2-Chlorophenol	mg/l	< 0.00100	0.0340	0.0500	68	32. - 106.	4093	blank
2,4-Dichlorophenol	mg/l	< 0.00100	0.0360	0.0500	72	36. - 121.	4093	blank
2,4-Dimethylphenol	mg/l	< 0.00100	0.0360	0.0500	72	6. - 119.	4093	blank
4,6-Dinitro-2-methylphenol	mg/l	< 0.00100	0.0480	0.0500	96	42. - 145.	4093	blank
2,4-Dinitrophenol	mg/l	< 0.00100	0.0360	0.0500	72	24. - 146.	4093	blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
2-Nitrophenol	mg/l	< 0.00100	0.0370	0.0500	74	34. - 124.	4093	blank
4-Nitrophenol	mg/l	< 0.00100	0.0210	0.0500	42	5. - 87.	4093	blank
Pentachlorophenol	mg/l	< 0.00100	0.0430	0.0500	86	39. - 140.	4093	blank
Phenol	mg/l	< 0.00040	0.0170	0.0500	34	8. - 72.	4093	blank
2,4,5-Trichlorophenol	mg/l	< 0.00100	0.0440	0.0500	88	42. - 132.	4093	blank
2,4,6-Trichlorophenol	mg/l	< 0.00100	0.0400	0.0500	80	41. - 126.	4093	blank
BNA Surr-Nitrobenzene-d5	% Rec				76	40. - 127.	4093	
BNA Surr-2-Fluorobiphenyl	% Rec				77	42. - 113.	4093	
BNA Surr-Terphenyl-d14	% Rec				86	41. - 129.	4093	
BNA Surr-Phenol-d5	% Rec				38	1. - 75.	4093	
BNA Surr-2-Fluorophenol	% Rec				53	3. - 97.	4093	
BNA Surr-2,4,6-Tribromopheno	% Rec				116	35. - 174.	4093	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Cadmium	mg/l	< 0.0010	0.0550	0.0500	110	80 - 120	1398	Duplicate
Chromium	mg/l	< 0.0050	0.219	0.200	110	80 - 120	1398	Duplicate
Lead	mg/l	< 0.0030	0.0520	0.0500	104	80 - 120	1398	Duplicate
Nickel	mg/l	< 0.0100	0.565	0.500	113	80 - 120	1398	Duplicate
Zinc	mg/l	< 0.0200	0.517	0.500	103	80 - 120	1398	Duplicate

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Oil & Grease as HEM	mg/l	< 5.00	39.4	40.0	98	80 - 120	2090	blank

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

UST PARAMETERS						
Benzene	mg/l	0.0430	0.0434	0.93	15.	4873
Toluene	mg/l	0.0451	0.0445	1.34	15.	4873
Ethylbenzene	mg/l	0.0436	0.0436	0.00	15.	4873
Xylenes (Total)	mg/l	0.0880	0.0884	0.45	19.	4873
Methyl-t-butylether	mg/l	0.0419	0.0426	1.66	23.	4873
TPH (Gasoline Range)	mg/l	0.947	0.899	5.20	22.	4873
TPH (Diesel Range)	mg/l	0.542	0.158	109.71#	49.	4080
BTEX/GRO Surr., a,a,a-TFT	% Recovery		98.			4873

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

VOA PARAMETERS						
Chlorobenzene	mg/l	0.0185	0.0174	6.13	27.	5138
Chlorobenzene	mg/l	0.0189	0.0184	2.68	27.	1672
1,2-Dichlorobenzene	mg/l	0.0206	0.0213	3.34	13.	5138
1,2-Dichlorobenzene	mg/l	0.0201	0.0198	1.50	13.	1672
1,3-Dichlorobenzene	mg/l	0.0197	0.0200	1.51	24.	5138
1,3-Dichlorobenzene	mg/l	0.0181	0.0191	5.38	24.	1672
1,4-Dichlorobenzene	mg/l	0.0207	0.0207	0.00	22.	5138
1,4-Dichlorobenzene	mg/l	0.0207	0.0203	1.95	22.	1672
Bromodichloromethane	mg/l	0.0194	0.0187	3.67	29.	5138
Bromodichloromethane	mg/l	0.0212	0.0190	10.95	29.	1672
Bromoform	mg/l	0.0203	0.0224	9.84	24.	5138
Bromoform	mg/l	0.0194	0.0172	12.02	24.	1672
Bromomethane	mg/l	0.0210	0.0225	6.90	33.	5138
Bromomethane	mg/l	0.0206	0.0231	11.44	33.	1672
Carbon tetrachloride	mg/l	0.0204	0.0196	4.00	14.	5138

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Carbon tetrachloride	mg/l	0.0204	0.0203	0.49	14.	1672
Chloroethane	mg/l	0.0209	0.0220	5.13	41.	5138
Chloroethane	mg/l	0.0258	0.0275	6.38	41.	1672
2-Chloroethylvinylether	mg/l	< 0.00100	< 0.00100	N/A	35.	5138
2-Chloroethylvinylether	mg/l	< 0.00100	< 0.00100	N/A	35.	1672
Chloroform	mg/l	0.0209	0.0201	3.90	16.	5138
Chloroform	mg/l	0.0211	0.0218	3.26	16.	1672
Chloromethane	mg/l	0.0253	0.0259	2.34	66.	5138
Chloromethane	mg/l	0.0324	0.0330	1.83	66.	1672
Dibromochloromethane	mg/l	0.0208	0.0209	0.48	14.	5138
Dibromochloromethane	mg/l	0.0200	0.0190	5.13	14.	1672
Vinyl chloride	mg/l	0.0207	0.0200	3.44	17.	5138
Vinyl chloride	mg/l	0.0205	0.0206	0.49	17.	1672
Dichlorodifluoromethane	mg/l	0.0229	0.0228	0.44	34.	5138
Dichlorodifluoromethane	mg/l	0.0230	0.0225	2.20	34.	1672
1,1-Dichloroethane	mg/l	0.0229	0.0215	6.31	33.	5138
1,1-Dichloroethane	mg/l	0.0228	0.0230	0.87	33.	1672
1,2-Dichloroethane	mg/l	0.0216	0.0207	4.26	13.	5138
1,2-Dichloroethane	mg/l	0.0214	0.0207	3.33	13.	1672
1,1-Dichloroethene	mg/l	0.0175	0.0173	1.15	20.	5138
1,1-Dichloroethene	mg/l	0.0218	0.0223	2.27	20.	1672
cis-1,2-Dichloroethene	mg/l	0.0215	0.0201	6.73	14.	5138
cis-1,2-Dichloroethene	mg/l	0.0210	0.0212	0.95	14.	1672
trans-1,2-Dichloroethene	mg/l	0.0207	0.0184	11.76	26.	5138
trans-1,2-Dichloroethene	mg/l	0.0240	0.0245	2.06	26.	1672
1,2-Dichloropropane	mg/l	0.0209	0.0202	3.41	13.	5138
1,2-Dichloropropane	mg/l	0.0206	0.0195	5.49	13.	1672
cis-1,3-Dichloropropene	mg/l	0.0198	0.0195	1.53	14.	5138
cis-1,3-Dichloropropene	mg/l	0.0198	0.0189	4.65	14.	1672
trans-1,3-Dichloropropene	mg/l	0.0192	0.0190	1.05	15.	5138
trans-1,3-Dichloropropene	mg/l	0.0192	0.0176	8.70	15.	1672
Methylene chloride	mg/l	0.0183	0.0177	3.33	39.	5138
Methylene chloride	mg/l	0.0231	0.0259	11.43	39.	1672

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
1,1,2,2-Tetrachloroethane	mg/l	0.0215	0.0205	4.76	19.	5138
1,1,2,2-Tetrachloroethane	mg/l	0.0197	0.0175	11.83	19.	1672
Tetrachloroethene	mg/l	0.0197	0.0206	4.47	15.	5138
Tetrachloroethene	mg/l	0.0198	0.0198	0.00	15.	1672
1,1,1-Trichloroethane	mg/l	0.0199	0.0195	2.03	14.	5138
1,1,1-Trichloroethane	mg/l	0.0201	0.0200	0.50	14.	1672
1,1,2-Trichloroethane	mg/l	0.0225	0.0219	2.70	13.	5138
1,1,2-Trichloroethane	mg/l	0.0220	0.0204	7.55	13.	1672
Trichloroethene	mg/l	0.0190	0.0191	0.52	20.	5138
Trichloroethene	mg/l	0.0209	0.0197	5.91	20.	1672
Trichlorofluoromethane	mg/l	0.0192	0.0194	1.04	16.	5138
Trichlorofluoromethane	mg/l	0.0208	0.0214	2.84	16.	1672
Hall Surr., 2-chloropropane	% Rec		95.			5138
Hall Surr., 2-chloropropane	% Rec		95.			1672
Hall Surr., chloroprene	% Rec		106.			5138
Hall Surr., chloroprene	% Rec		106.			1672
Hall Surr., 1-chloro-3-fluoro%eRecne			140.			5138
Hall Surr., 1-chloro-3-fluoro%eRecne			134.			1672

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
4-Chloro-3-methylphenol	mg/l	0.0380	0.0360	5.41	39.	4093
2-Chlorophenol	mg/l	0.0340	0.0340	0.00	43.	4093
4-Nitrophenol	mg/l	0.0210	0.0220	4.65	58.	4093
Pentachlorophenol	mg/l	0.0430	0.0430	0.00	42.	4093
Phenol	mg/l	0.0170	0.0170	0.00	60.	4093

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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BNA Surr-Nitrobenzene-d5	% Rec	71.	4093
BNA Surr-2-Fluorobiphenyl	% Rec	79.	4093
BNA Surr-Terphenyl-d14	% Rec	85.	4093
BNA Surr-Phenol-d5	% Rec	37.	4093
BNA Surr-2-Fluorophenol	% Rec	52.	4093
BNA Surr-2,4,6-Tribromophenol	% Rec	118.	4093

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
METALS						
Cadmium	mg/l	0.0550	0.0550	0.00	20	1398
Chromium	mg/l	0.219	0.221	0.91	20	1398
Lead	mg/l	0.0520	0.0520	0.00	20	1398
Nickel	mg/l	0.565	0.567	0.35	20	1398
Zinc	mg/l	0.517	0.520	0.58	20	1398

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Oil & Grease as HEM	mg/l	39.4	36.9	6.55	20	2090

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
UST PARAMETERS						
Benzene	mg/l	0.100	0.0851	85	74 - 124	4873
Toluene	mg/l	0.100	0.0875	88	74 - 121	4873
Ethylbenzene	mg/l	0.100	0.0853	85	75 - 123	4873
Xylenes (Total)	mg/l	0.200	0.172	86	72 - 120	4873
Methyl-t-butylether	mg/l	0.100	0.0829	83	64 - 128	4873

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
TRPH, IR	mg/l	20.0	19.8	99	90 - 110	2088
TPH (Gasoline Range)	mg/l	1.00	0.947	95	61 - 139	4873
TPH (Diesel Range)	mg/l	1.00	0.461	46	28 - 115	4080
BTEX/GRO Surr., a,a,a-TFT	% Recovery			98	69 - 132	4873

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Chlorobenzene	mg/l	0.0200	0.0199	100	63 - 136	1672
Chlorobenzene	mg/l	0.0200	0.0199	100	63 - 136	5138
1,2-Dichlorobenzene	mg/l	0.0200	0.0212	106	72 - 122	1672
1,2-Dichlorobenzene	mg/l	0.0200	0.0212	106	72 - 122	5138
1,3-Dichlorobenzene	mg/l	0.0200	0.0200	100	63 - 132	1672
1,3-Dichlorobenzene	mg/l	0.0200	0.0200	100	63 - 132	5138
1,4-Dichlorobenzene	mg/l	0.0200	0.0221	110	70 - 127	1672
1,4-Dichlorobenzene	mg/l	0.0200	0.0221	110	70 - 127	5138
Bromodichloromethane	mg/l	0.0200	0.0213	106	70 - 133	1672
Bromodichloromethane	mg/l	0.0200	0.0213	106	70 - 133	5138
Bromoform	mg/l	0.0200	0.0207	104	63 - 125	1672
Bromoform	mg/l	0.0200	0.0207	104	63 - 125	5138
Bromomethane	mg/l	0.0200	0.0246	123	46 - 137	1672
Bromomethane	mg/l	0.0200	0.0246	123	46 - 137	5138
Carbon tetrachloride	mg/l	0.0200	0.0220	110	74 - 123	1672
Carbon tetrachloride	mg/l	0.0200	0.0220	110	74 - 123	5138
Chloroethane	mg/l	0.0200	0.0247	124	63 - 149	1672
Chloroethane	mg/l	0.0200	0.0247	124	63 - 149	5138
2-Chloroethylvinylether	mg/l	0.0200	0.0283	142 #	37 - 121	1672
2-Chloroethylvinylether	mg/l	0.0200	0.0283	142 #	37 - 121	5138
Chloroform	mg/l	0.0200	0.0227	114	76 - 121	1672
Chloroform	mg/l	0.0200	0.0227	114	76 - 121	5138

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chloromethane	mg/l	0.0200	0.0283	142	35 - 180	1672
Chloromethane	mg/l	0.0200	0.0283	142	35 - 180	5138
Dibromochloromethane	mg/l	0.0200	0.0209	104	80 - 120	1672
Dibromochloromethane	mg/l	0.0200	0.0209	104	80 - 120	5138
Vinyl chloride	mg/l	0.0200	0.0224	112	75 - 133	1672
Vinyl chloride	mg/l	0.0200	0.0224	112	75 - 133	5138
Dichlorodifluoromethane	mg/l	0.0200	0.0191	96	53 - 172	1672
Dichlorodifluoromethane	mg/l	0.0200	0.0191	96	53 - 172	5138
1,1-Dichloroethane	mg/l	0.0200	0.0248	124	68 - 137	1672
1,1-Dichloroethane	mg/l	0.0200	0.0248	124	68 - 137	5138
1,2-Dichloroethane	mg/l	0.0200	0.0223	112	81 - 124	1672
1,2-Dichloroethane	mg/l	0.0200	0.0223	112	81 - 124	5138
1,1-Dichloroethene	mg/l	0.0200	0.0195	98	73 - 120	1672
1,1-Dichloroethene	mg/l	0.0200	0.0195	98	73 - 120	5138
cis-1,2-Dichloroethene	mg/l	0.0200	0.0233	116	78 - 120	1672
cis-1,2-Dichloroethene	mg/l	0.0200	0.0233	116	78 - 120	5138
trans-1,2-Dichloroethene	mg/l	0.0200	0.0256	128	66 - 135	1672
trans-1,2-Dichloroethene	mg/l	0.0200	0.0256	128	66 - 135	5138
1,2-Dichloropropane	mg/l	0.0200	0.0227	114	80 - 123	1672
1,2-Dichloropropane	mg/l	0.0200	0.0227	114	80 - 123	5138
cis-1,3-Dichloropropene	mg/l	0.0200	0.0193	96	70 - 123	1672
cis-1,3-Dichloropropene	mg/l	0.0200	0.0193	96	70 - 123	5138
trans-1,3-Dichloropropene	mg/l	0.0200	0.0181	90	68 - 118	1672
trans-1,3-Dichloropropene	mg/l	0.0200	0.0181	90	68 - 118	5138
Methylene chloride	mg/l	0.0200	0.0192	96	50 - 161	1672
Methylene chloride	mg/l	0.0200	0.0192	96	50 - 161	5138
1,1,2,2-Tetrachloroethane	mg/l	0.0200	0.0205	102	74 - 127	1672
1,1,2,2-Tetrachloroethane	mg/l	0.0200	0.0205	102	74 - 127	5138
Tetrachloroethene	mg/l	0.0200	0.0217	108	68 - 128	1672
Tetrachloroethene	mg/l	0.0200	0.0217	108	68 - 128	5138
1,1,1-Trichloroethane	mg/l	0.0200	0.0220	110	75 - 123	1672
1,1,1-Trichloroethane	mg/l	0.0200	0.0220	110	75 - 123	5138
1,1,2-Trichloroethane	mg/l	0.0200	0.0227	114	77 - 122	1672

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1,2-Trichloroethane	mg/l	0.0200	0.0227	114	77 - 122	5138
Trichloroethene	mg/l	0.0200	0.0206	103	75 - 125	1672
Trichloroethene	mg/l	0.0200	0.0206	103	75 - 125	5138
Trichlorofluoromethane	mg/l	0.0200	0.0201	100	84 - 121	1672
Trichlorofluoromethane	mg/l	0.0200	0.0201	100	84 - 121	5138
Hall Surr., 2-chloropropane	% Rec			95	68 - 99	1672
Hall Surr., 2-chloropropane	% Rec			95	68 - 99	5138
Hall Surr., chloroprene	% Rec			111	65 - 95	1672
Hall Surr., chloroprene	% Rec			111	65 - 95	5138
Hall Surr., 1-chloro-3-fluoro%Recne				137	71 - 103	1672
Hall Surr., 1-chloro-3-fluoro%Recne				137	71 - 103	5138
PID Surr., a,a,a-trifluorotol%Recovery				94	69 - 132	1672
PID Surr., a,a,a-trifluorotol%Recovery				94	69 - 132	5138

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
4-Chloro-3-methylphenol	mg/l	0.0500	0.0330	66	40 - 126	4093
2-Chlorophenol	mg/l	0.0500	0.0300	60	32 - 106	4093
2,4-Dichlorophenol	mg/l	0.0500	0.0310	62	36 - 121	4093
2,4-Dimethylphenol	mg/l	0.0500	0.0300	60	21 - 109	4093
4,6-Dinitro-2-methylphenol	mg/l	0.0500	0.0470	94	42 - 145	4093
2,4-Dinitrophenol	mg/l	0.0500	0.0440	88	24 - 145	4093
2-Nitrophenol	mg/l	0.0500	0.0310	62	34 - 124	4093
4-Nitrophenol	mg/l	0.0500	0.0210	42	9 - 84	4093
Pentachlorophenol	mg/l	0.0500	0.0410	82	40 - 139	4093
Phenol	mg/l	0.0500	0.0150	30	11 - 70	4093
2,4,5-Trichlorophenol	mg/l	0.0500	0.0410	82	42 - 132	4093
2,4,6-Trichlorophenol	mg/l	0.0500	0.0370	74	41 - 126	4093

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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BNA Surr-Nitrobenzene-d5	% Rec	62	40 - 127	4093
BNA Surr-2-Fluorobiphenyl	% Rec	69	42 - 113	4093
BNA Surr-Terphenyl-d14	% Rec	79	41 - 129	4093
BNA Surr-Phenol-d5	% Rec	33	1 - 75	4093
BNA Surr-2-Fluorophenol	% Rec	46	3 - 97	4093
BNA Surr-2,4,6-Tribromophenol	% Rec	108	35 - 174	4093

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Cadmium	mg/l	0.0500	0.0520	104	80 - 120	1398
Chromium	mg/l	0.200	0.207	104	80 - 120	1398
Lead	mg/l	0.0500	0.0500	100	80 - 120	1398
Nickel	mg/l	0.500	0.542	108	80 - 120	1398
Zinc	mg/l	0.500	0.500	100	80 - 120	1398

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Oil & Grease as HEM	mg/l	40.0	38.1	95	78 - 114	2090

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

UST PARAMETERS					
Benzene	< 0.0005	mg/l	4873	9/ 5/02	18:15
Toluene	< 0.0005	mg/l	4873	9/ 5/02	18:15
Ethylbenzene	< 0.0005	mg/l	4873	9/ 5/02	18:15
Xylenes (Total)	< 0.0005	mg/l	4873	9/ 5/02	18:15
Methyl-t-butylether	< 0.0005	mg/l	4873	9/ 5/02	18:15
TRPH, IR	< 0.100	mg/l	2088	9/ 4/02	17:51
TPH (Gasoline Range)	< 0.0500	mg/l	4873	9/ 5/02	18:15
TPH (Diesel Range)	< 0.050	mg/l	4080	9/ 6/02	10:45

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

UST PARAMETERS					
BTEX/GRO Surr., a,a,a-TFT	102.	% Recovery	4873	9/ 5/02	18:15

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

VOA PARAMETERS					
Chlorobenzene	< 0.00018	mg/l	5138	9/ 5/02	23:30
Chlorobenzene	< 0.00018	mg/l	1672	9/ 6/02	13:26
1,2-Dichlorobenzene	0.00060	mg/l	5138	9/ 5/02	23:30
1,2-Dichlorobenzene	0.00080	mg/l	1672	9/ 6/02	13:26
1,3-Dichlorobenzene	< 0.00021	mg/l	5138	9/ 5/02	23:30
1,3-Dichlorobenzene	< 0.00021	mg/l	1672	9/ 6/02	13:26
1,4-Dichlorobenzene	< 0.00098	mg/l	5138	9/ 5/02	23:30
1,4-Dichlorobenzene	< 0.00098	mg/l	1672	9/ 6/02	13:26

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromodichloromethane	< 0.00011	mg/l	5138	9/ 5/02	23:30
Bromodichloromethane	< 0.00011	mg/l	1672	9/ 6/02	13:26
Bromoform	< 0.00112	mg/l	5138	9/ 5/02	23:30
Bromoform	< 0.00112	mg/l	1672	9/ 6/02	13:26
Bromomethane	< 0.00016	mg/l	5138	9/ 5/02	23:30
Bromomethane	< 0.00016	mg/l	1672	9/ 6/02	13:26
Carbon tetrachloride	< 0.00010	mg/l	5138	9/ 5/02	23:30
Carbon tetrachloride	< 0.00010	mg/l	1672	9/ 6/02	13:26
Chloroethane	< 0.00022	mg/l	5138	9/ 5/02	23:30
Chloroethane	< 0.00022	mg/l	1672	9/ 6/02	13:26
2-Chloroethylvinylether	< 0.00016	mg/l	5138	9/ 5/02	23:30
2-Chloroethylvinylether	< 0.00016	mg/l	1672	9/ 6/02	13:26
Chloroform	< 0.00010	mg/l	5138	9/ 5/02	23:30
Chloromethane	< 0.00022	mg/l	5138	9/ 5/02	23:30
Chloromethane	< 0.00022	mg/l	1672	9/ 6/02	13:26
Dibromochloromethane	< 0.00038	mg/l	5138	9/ 5/02	23:30
Dibromochloromethane	< 0.00038	mg/l	1672	9/ 6/02	13:26
Vinyl chloride	< 0.00011	mg/l	5138	9/ 5/02	23:30
Vinyl chloride	< 0.00011	mg/l	1672	9/ 6/02	13:26
Dichlorodifluoromethane	< 0.00010	mg/l	5138	9/ 5/02	23:30
Dichlorodifluoromethane	< 0.00010	mg/l	1672	9/ 6/02	13:26
1,1-Dichloroethane	< 0.00013	mg/l	5138	9/ 5/02	23:30
1,1-Dichloroethane	< 0.00013	mg/l	1672	9/ 6/02	13:26
1,2-Dichloroethane	< 0.00010	mg/l	5138	9/ 5/02	23:30
1,2-Dichloroethane	< 0.00010	mg/l	1672	9/ 6/02	13:26
1,1-Dichloroethene	< 0.00012	mg/l	5138	9/ 5/02	23:30
1,1-Dichloroethene	< 0.00012	mg/l	1672	9/ 6/02	13:26
cis-1,2-Dichloroethene	< 0.00092	mg/l	5138	9/ 5/02	23:30
cis-1,2-Dichloroethene	< 0.00092	mg/l	1672	9/ 6/02	13:26
trans-1,2-Dichloroethene	< 0.00010	mg/l	5138	9/ 5/02	23:30
trans-1,2-Dichloroethene	< 0.00010	mg/l	1672	9/ 6/02	13:26
1,2-Dichloropropane	< 0.00010	mg/l	5138	9/ 5/02	23:30
1,2-Dichloropropane	< 0.00010	mg/l	1672	9/ 6/02	13:26

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
cis-1,3-Dichloropropene	< 0.00018	mg/l	5138	9/ 5/02	23:30
cis-1,3-Dichloropropene	< 0.00018	mg/l	1672	9/ 6/02	13:26
trans-1,3-Dichloropropene	< 0.00013	mg/l	5138	9/ 5/02	23:30
trans-1,3-Dichloropropene	< 0.00013	mg/l	1672	9/ 6/02	13:26
Methylene chloride	< 0.00096	mg/l	5138	9/ 5/02	23:30
Methylene chloride	< 0.00096	mg/l	1672	9/ 6/02	13:26
1,1,2,2-Tetrachloroethane	< 0.00034	mg/l	5138	9/ 5/02	23:30
1,1,2,2-Tetrachloroethane	< 0.00034	mg/l	1672	9/ 6/02	13:26
Tetrachloroethene	< 0.00042	mg/l	5138	9/ 5/02	23:30
Tetrachloroethene	< 0.00042	mg/l	1672	9/ 6/02	13:26
1,1,1-Trichloroethane	< 0.00010	mg/l	5138	9/ 5/02	23:30
1,1,1-Trichloroethane	< 0.00010	mg/l	1672	9/ 6/02	13:26
1,1,2-Trichloroethane	< 0.00017	mg/l	5138	9/ 5/02	23:30
1,1,2-Trichloroethane	< 0.00017	mg/l	1672	9/ 6/02	13:26
Trichloroethene	< 0.00019	mg/l	5138	9/ 5/02	23:30
Trichloroethene	0.00190	mg/l	1672	9/ 6/02	13:26
Trichlorofluoromethane	< 0.00010	mg/l	5138	9/ 5/02	23:30
Trichlorofluoromethane	< 0.00010	mg/l	1672	9/ 6/02	13:26
Hall Surr., 2-chloropropane	87.	% Rec	5138	9/ 5/02	23:30
Hall Surr., 2-chloropropane	84.	% Rec	1672	9/ 6/02	13:26
Hall Surr., chloroprene	105.	% Rec	5138	9/ 5/02	23:30
Hall Surr., chloroprene	106.	% Rec	1672	9/ 6/02	13:26
Hall Surr., 1-chloro-3-fluorobenzene	132.	% Rec	5138	9/ 5/02	23:30
Hall Surr., 1-chloro-3-fluorobenzene	135.	% Rec	1672	9/ 6/02	13:26
PID Surr., a,a,a-trifluorotoluene	93.	% Recovery	5138	9/ 5/02	23:30
PID Surr., a,a,a-trifluorotoluene	95.	% Recovery	1672	9/ 6/02	13:26

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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EXTRACTABLE PARAMETERS

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
4-Chloro-3-methylphenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2-Chlorophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2,4-Dichlorophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2,4-Dimethylphenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
4,6-Dinitro-2-methylphenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2,4-Dinitrophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2-Nitrophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
4-Nitrophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
Pentachlorophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
Phenol	< 0.00040	mg/l	4093	9/ 5/02	19:49
2,4,5-Trichlorophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
2,4,6-Trichlorophenol	< 0.00100	mg/l	4093	9/ 5/02	19:49
BNA Surr-Nitrobenzene-d5	72.	% Rec	4093	9/ 5/02	19:49
BNA Surr-2-Fluorobiphenyl	71.	% Rec	4093	9/ 5/02	19:49
BNA Surr-Terphenyl-d14	84.	% Rec	4093	9/ 5/02	19:49
BNA Surr-Phenol-d5	36.	% Rec	4093	9/ 5/02	19:49
BNA Surr-2-Fluorophenol	54.	% Rec	4093	9/ 5/02	19:49
BNA Surr-2,4,6-Tribromophenol	106.	% Rec	4093	9/ 5/02	19:49

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Cadmium	< 0.0006	mg/l	1398	9/ 4/02	18:33
Chromium	< 0.0013	mg/l	1398	9/ 4/02	18:33
Lead	< 0.0022	mg/l	1398	9/ 4/02	18:33
Nickel	< 0.0019	mg/l	1398	9/ 4/02	18:33
Zinc	< 0.0031	mg/l	1398	9/ 4/02	18:33

Project QC continued . . .

PROJECT QUALITY CONTROL DATA
Project Number: 46GY.66032.00.0009
Page: 17

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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MISC PARAMETERS					
Oil & Grease as HEM	< 5.00	mg/l	2090	9/ 4/02	13:31

End of Report for Project 299328

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Scor BC# 299328

Cooler Received On: 8/30/02 And Opened On: 8/30/02 By: Shawn Gracey

Shawn Gracey
(Signature)

1. Temperature of Cooler when opened 30 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO
a. If yes, how many, what kind and where: 2, Front
3. Were custody seals on containers and intact?..... NO...YES
4. Were the seals intact, signed, and dated correctly?..... YES...NO
5. Were custody papers inside cooler?..... YES...NO
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO
7. Did you sign the custody papers in the appropriate place?..... YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?..... YES...NO
10. Did all bottles arrive in good condition (unbroken)?..... YES...NO
11. Were all bottle labels complete (#, date, signed, pres, etc)?..... YES...NO
12. Did all bottle labels and tags agree with custody papers?..... YES...NO
13. Were correct bottles used for the analysis requested?..... YES...NO
14. a. Were VOA vials received?..... YES...NO SAG 8/30
b. Was there any observable head space present in any VOA vial?..... NO...YES
15. Was sufficient amount of sample sent in each bottle?..... YES...NO
16. Were correct preservatives used?..... YES...NO
17. Was residual chlorine present?..... NO...YES
18. Corrective action taken, if necessary:

See attached for resolution

APPENDIX C

FIELD DATA SHEETS

SECOR International Incorporated
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. _____ Purged By: _____ Well I.D.: _____
 Client Name: Goodyear Sampled By: M. A. Sample I.D.: MW-1
 Location: Castro Valley, CA #9578 What QA Samples?: _____

Date Purged: 8/28/02 Start (2400hr): 1252 End (2400hr): 1355
 Date Sampled: // Sample Time (2400hr): _____

Casing Diameter: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 22' Casing Volume (gal) = 2.04
 Depth to water (feet) = 10' Calculated Purge (gal) = 6.12 (3 casing vols.)
 Water column height (feet) = 12' Actual Purge (gal) = _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees F/°C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	D.O.	
							DTW (ft)	Turbidity NTU
<u>8/28</u>	<u>1301</u>	<u>2.2</u>	<u>23.5</u>	<u>0.287</u>	<u>5.65</u>	<u>brown</u>	<u>7.00</u>	<u>201</u>
	<u>1308</u>	<u>4.4</u>	<u>22.3</u>	<u>0.554</u>	<u>5.42</u>	<u>//</u>	<u>8.04</u>	<u>999</u>
	<u>1314</u>	<u>6.6</u>	<u>22.1</u>	<u>0.551</u>	<u>5.34</u>	<u>//</u>	<u>8.34</u>	<u>927</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

D.O. 7.00 mg/l. _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump Bailer (disposable)
 ___ Active Extraction Well Pump ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

___ WW Bladder Pump ___ Bailer (disposable)
 ___ Sample Port ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: _____

Signature: _____

SECOR International Incorporated
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. _____ Purged By: _____ Well I.D.: _____
 Client Name: Goodyear Sampled By: M.A. Sample I.D.: MW-2
 Location: Castro Valley, CA #9578 What QA Samples?: _____

Date Purged: 8/28/02 Start (2400hr): 1358 End (2400hr): 1500
 Date Sampled: 8/28/02 Sample Time (2400hr): 1400

Casing Diameter: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 21' Casing Volume (gal) = 0.17
 Depth to water (feet) = 10.5' Calculated Purge (gal) = 5.36 (3 casing vols.)
 Water column height (feet) = 10.5' Actual Purge (gal) = _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees F) °C	Conductivity (umhos/cm) mS/cm	pH (units)	Color (visual)	D.O. DTW (ft)	Turbidity NTU
<u>8/28</u>	<u>1402</u>	<u>2.3</u>	<u>24.6</u>	<u>0.563</u>	<u>5.76</u>	<u>brown</u>	<u>8.13</u>	<u>932</u>
	<u>1411</u>	<u>4.5</u>	<u>23.3</u>	<u>0.561</u>	<u>5.32</u>	<u>tinge</u>	<u>8.55</u>	<u>39</u>
	<u>1418</u>	<u>6.0</u>	<u>23.1</u>	<u>0.565</u>	<u>5.18</u>	<u>"</u>	<u>8.66</u>	<u>130</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

D.O. (mg/l) %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump Bailer (disposable)
 ___ Active Extraction Well Pump ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

___ WW Bladder Pump ___ Bailer (disposable)
 ___ Sample Port ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: _____

Signature: _____

SECOR International Incorporated
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. _____ Purged By: _____ Well I.D.: _____
 Client Name: Goodyear Sampled By: M. A. Sample I.D.: MW-3
 Location: Castro Valley #9578 What QA Samples?: _____

Date Purged: _____ Start (2400hr): _____ End (2400hr): _____
 Date Sampled: _____ Sample Time (2400hr): _____

Casing Diameter: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 21' Casing Volume (gal) = 1.87
 Depth to water (feet) = 10' Calculated Purge (gal) = 5.61 (3 casing vols.)
 Water column height (feet) = 11' Actual Purge (gal) = _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees $^{\circ}$ C)	Conductivity μ S/cm <small>(umhos/cm)</small>	pH (units)	Color (visual)	DTW (ft)	Turbidity NTU
FREE PRODUCT								
NOT SAMPLED								

D.O. _____ mg/l, _____ %

PURGING EQUIPMENT

Well Wizard Bladder Pump Bailer (disposable)
 Active Extraction Well Pump _____ Bailer (PVC)
 Submersible Pump _____ Bailer (Stainless Steel)
 Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

WW Bladder Pump _____ Bailer (disposable)
 Sample Port _____ Bailer (PVC)
 Submersible Pump _____ Bailer (Stainless Steel)
 Peristaltic Pump _____ Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: Water present in well box; need to be raised or leveled; well is down slope (middle) of garage

Signature: _____

SECOR International Incorporated
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. _____ Purged By: _____ Well I.D.: _____
 Client Name: Goodyear Sampled By: MA Sample I.D.: MW-4
 Location: Carter Valley #9578 What QA Samples?: _____

Date Purged: 8/28/02 Start (2400hr): 1000 End (2400hr): 1715
 Date Sampled: 8/28/02 Sample Time (2400hr): 1715

Casing Diameter: 2" _____ 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other 1"
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) (0.09)

Total depth (feet) = 16' Casing Volume (gal) = 0.07
 Depth to water (feet) = 14.25' Calculated Purge (gal) = 0.21 (3 casing vols.)
 Water column height (feet) = 1.75' Actual Purge (gal) = _____

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees) $^{\circ}C$	Conductivity $\mu S/cm$	pH (units)	Color (visual)	D.O. (ft)	Turbidity NTU
<u>8/28</u>	<u>1012</u>	<u>0.08</u>	<u>21.6</u>	<u>0.688</u>	<u>5.26</u>	<u>light tan</u>	<u>7.80</u>	<u>165</u>
	<u>1601</u>	<u>0.16</u>	<u>24.7</u>	<u>0.643</u>	<u>5.45</u>	<u>//</u>	<u>9.90</u>	<u>171</u>
	<u>1604</u>	<u>0.24</u>	<u>24.6</u>	<u>0.552</u>	<u>5.04</u>	<u>//</u>	<u>9.84</u>	<u>170</u>
	<u>1615</u>	<u>0.30</u>	<u>24.0</u>	<u>0.564</u>	<u>5.01</u>	<u>//</u>	<u>9.80</u>	<u>173</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

D.O. 7.80 (mg/l) _____ %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump Bailer (disposable)
 ___ Active Extraction Well Pump ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

___ WW Bladder Pump ___ Bailer (disposable)
 ___ Sample Port ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: water present in well box

Signature: _____