

**MFG, INC.**  
 a Tetra Tech Company  
 Providing Environmental Consulting and  
 Engineering Services  
 180 Howard Street, Suite 200  
 San Francisco, CA 94105-1617  
 (415) 495-7110  
 FAX (415) 495-7107

**LETTER OF TRANSMITTAL**

DATE	4/3/02	JOB NO.	030062
ATTENTION	BARNEY CHAN		
RE	HERTZ FACILITY 1 AIRPORT DRIVE OAKLAND, CA SITE ID 2260		

TO ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:  
 Shop drawings  Prints  Plans  Samples  Specifications  
 Copy of letter  Change order  \_\_\_\_\_

APR 05 2002

COPIES	DATE	NO.	DESCRIPTION
1	01/26/02		QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2001

SND  
2260 / 157

THESE ARE TRANSMITTED as checked below:  
 For approval  Approved as submitted  Resubmit \_\_\_\_\_ copies for approval  
 For your use  Approved as noted  Submit \_\_\_\_\_ copies for distribution  
 As requested  Returned for corrections  Return \_\_\_\_\_ corrected prints  
 For review and comment  \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS \_\_\_\_\_

PLEASE CALL ME IF YOU HAVE ANY QUESTIONS OR WOULD  
 LIKE TO DISCUSS.

Regards

COPY TO File

SIGNED: Michael Tiche

RO157

May 3, 2002

MAY 16 2002

TRANSMITTED VIA E-MAIL

Mr. Barney Chan  
Alameda County Environmental Health Agency  
1131 Harbor Bay Parkway  
Alameda, CA 94502

**RE: Groundwater Sample Results for One Airport Drive, Oakland, California**

Dear Mr. Chan:

Per our discussion this morning, I am forwarding you the results of the groundwater samples collected at the above referenced site (a copy of the site map is attached). The monitoring wells were sampled at the request of your office to assess whether or not additional down gradient groundwater remediation would be necessary beyond that proposed for the impending soil excavation activities.

The groundwater samples were collected on April 24, 2002. The depths to water, as well as the depth of each monitoring well, were recorded prior to sampling. The measurements are provided in Table 1 below.

<b>Well Location</b>	<b>*TOC Elevation</b>	<b>Depth to Water (ft)</b>	<b>**Well Casing Depth (ft bgs)</b>	<b>Groundwater Elevation</b>
MW-1	7.45	3.53	14.97	3.92
MW-2	8.09	2.89	14.35	5.20
MW-3	7.66	3.27	14.60	4.39
MW-4	7.11	3.68	10.10	3.43
MW-5	7.76	3.40	11.10	4.36
MW-6	7.17	3.84	10.71	3.33
MW-7	6.93	4.00	9.85	2.93
MW-8	6.75	4.21	11.28	2.54
MW-9	6.55	4.45	10.46	2.10

\* Top of casing elevations obtained from Clearwater Group Inc., Groundwater Sampling Report.

\*\* Measurement taken from top of casing.

Based on the reported top of casing elevations for the nine monitor wells, as well as the measured depths to water collected prior to the recent sampling event, the groundwater flow direction beneath the area is calculated as flowing towards the southwest at an approximate gradient of 0.02 (see attached Figure 2). The groundwater table elevation for MW-5 appears to be anomalous to the area, and thus was omitted from the groundwater flow direction and gradient calculation.

A total of five monitoring wells were sampled on April 24, 2002. They were MW-4, MW-6, MW-7, MW-8 and MW-9. Four well casing volumes were purged from each prior to sample collection. The monitor wells were purged using an air diaphragm pump and disposable polyethylene tubing, and groundwater samples were collected from each well using disposable polyethylene bailers.

Groundwater samples from each monitor well were analyzed for total petroleum hydrocarbon compounds in the gasoline range (TPH-g) using CA LUFT Method; benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) using US EPA Method 8021B; and fuel oxygenates using US EPA Method 8260B. The sample results are presented in Table 2 below, and copies of the analytical laboratory data sheets are attached. The only oxygenate compound reported above the laboratory method detection limit concentration was methyl tertiary butyl ether (MTBE). 1,2-dibromomethane, 1,2-dichloroethane, diisopropyl ether, t-butyl alcohol, tert-amyl methyl ether, and tert-butyl ethyl ether were not reported above their respective laboratory method detection limit concentrations in any of the sampled wells.

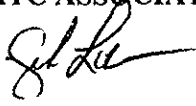
Table 2 Analytical Laboratory Data Sheets						
Well Location	Analytical Laboratory Data Sheets (mg/L)					
	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	*MTBE
MW-4	<b>9.8</b>	<b>1.4</b>	<b>0.24</b>	<b>0.64</b>	<b>0.77</b>	<b>0.50 / 0.42</b>
MW-6	<0.05	<0.001	<0.001	<0.001	<0.001	<b>0.041 / 0.034</b>
MW-7	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001 / <0.005
MW-8	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001 / <0.005
MW-9	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001 / <0.005

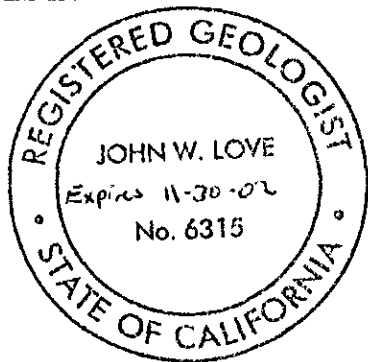
\*MTBE analyzed using US EPA Method 8021B / 8260B.


Bold italic type indicates compound reported above method detection limit concentration.

If you have any questions concerning the recent groundwater sampling event, please contact either of the undersigned at (925) 460-5300.

Sincerely,  
ATC ASSOCIATES INC.

  
John Love, RG  
Project Manager



  
James A. Lehrman, RG, CHG  
Director, Environmental Management

MAY 16 2002



ALAN SHEPARD WAY

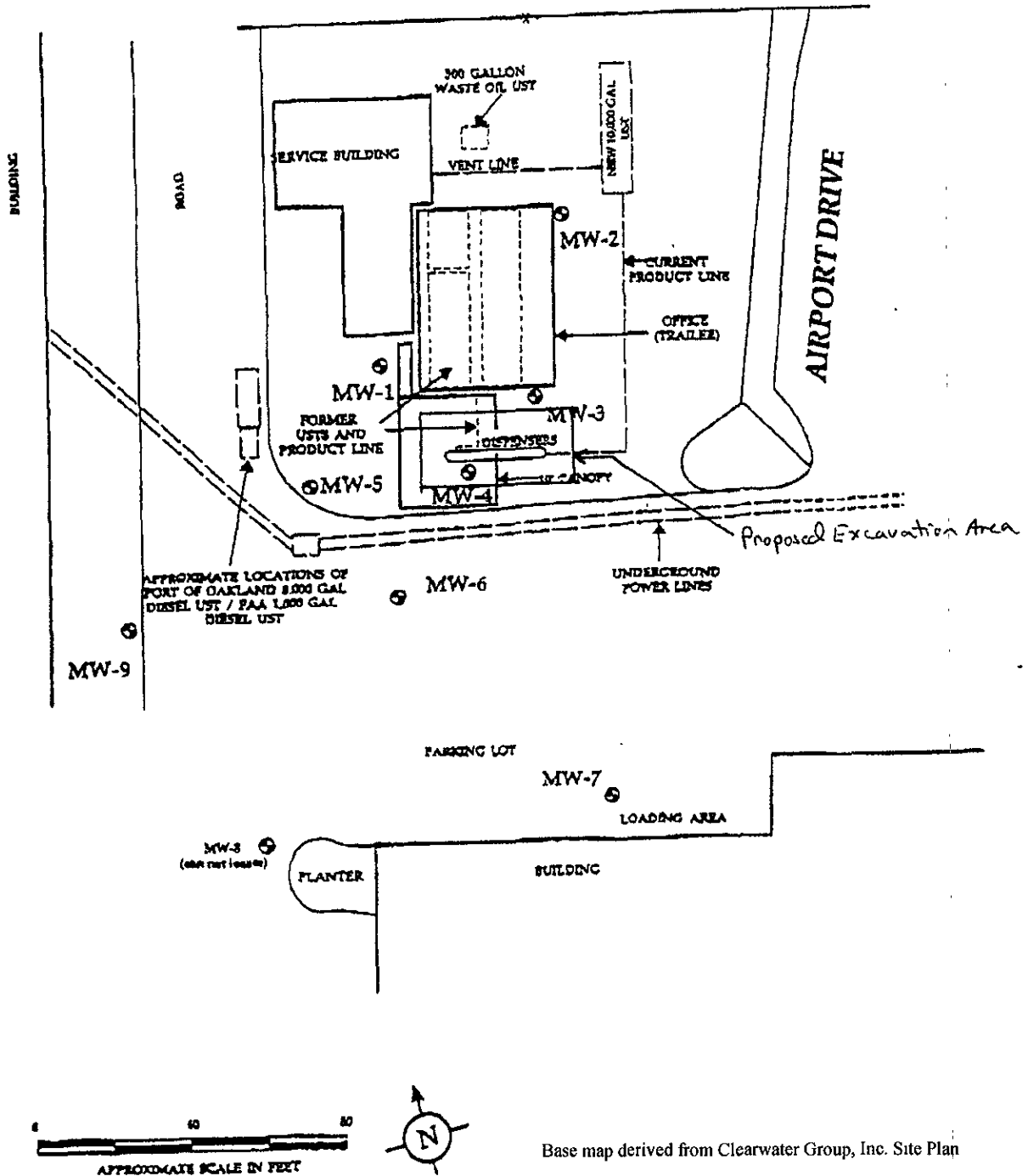


FIGURE 1

**SITE MAP**

Former Hertz Rental Car Facility  
One Airport Drive  
OAKLAND, CALIFORNIA



6602 Owens Drive, Suite 100  
Pleasanton, CA 94588  
(925) 460-5300

PROJECT NO: 75.75015.0001

DESIGNED BY: DEM

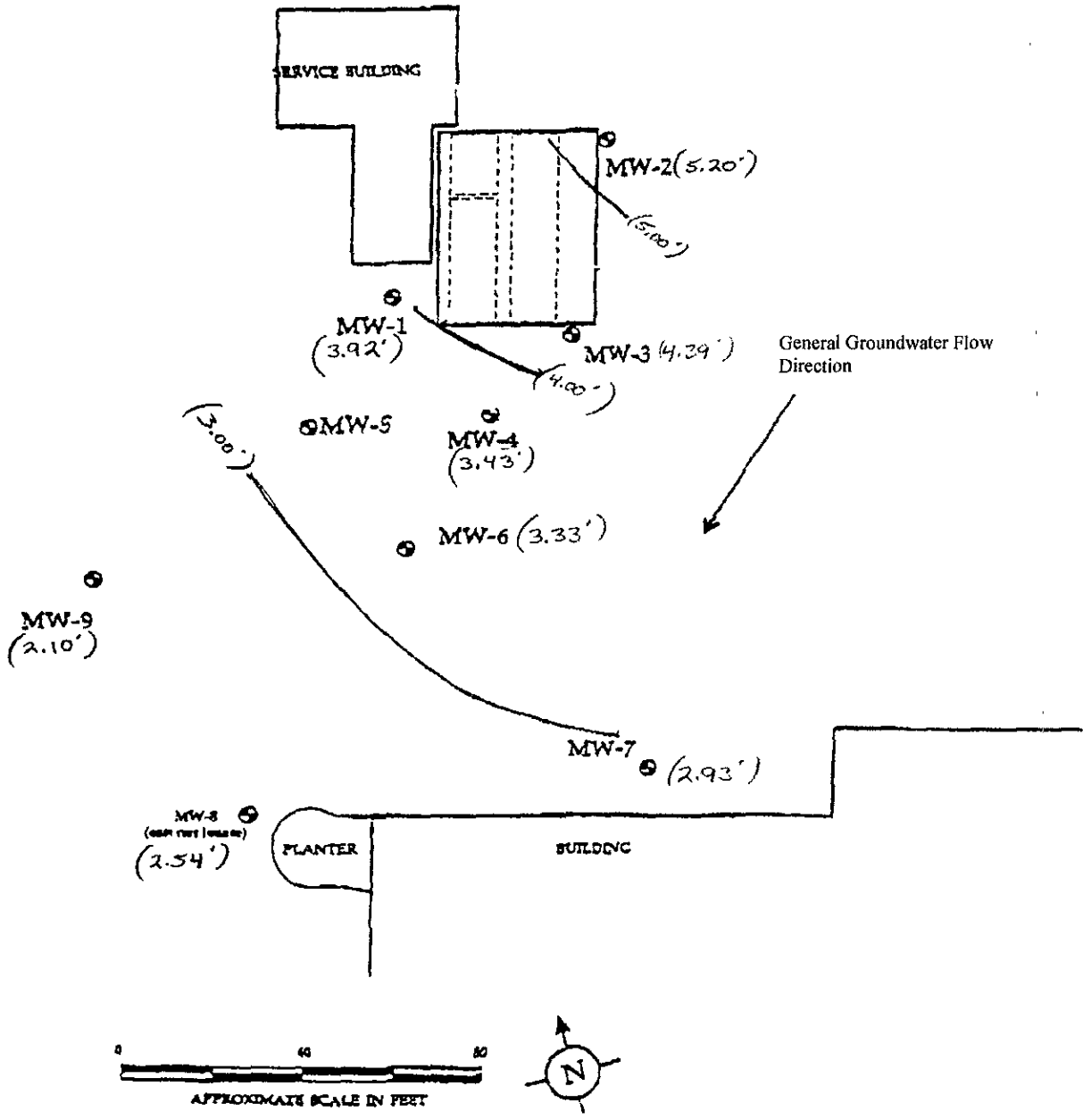
SCALE: UNK

REVIEWED BY: JAL

DRAWN BY: JL

DATE: 05/02

FILE: MAP (REVISED)



Base map derived from Clearwater Group, Inc. Site Plan

FIGURE 2  
**GROUNDWATER CONTOUR MAP**  
 Former Hertz Rental Car Facility  
 One Airport Drive  
 OAKLAND, CALIFORNIA



6602 Owens Drive, Suite 100  
 Pleasanton, CA 94588  
 (925) 460-5300

PROJECT NO: 75.75015.0001

DESIGNED BY: DEM	SCALE: UNK	REVIEWED BY: JAL
DRAWN BY: JL	DATE: 05/02	FILE: MAP (REVISED)



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

RECEIVED  
MAY - 6 2002  
ATC Associates Inc.

Certificate of Analysis Number:  
**02040966**

<b>Report To:</b>  ATC Associates Inc. John Love 6602 Owens Drive, Suite 100  Pleasanton CA 94588- ph: (925) 460-5300      fax:	<b>Project Name:</b> Hertz Service Center <b>Site:</b> 1 Airport Dr. Oakland, CA 94621 <b>Site Address:</b>  <b>PO Number:</b> <b>State:</b> California <b>State Cert. No.:</b> 1903 <b>Date Reported:</b> 5/3/02
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This Report Contains A Total Of 17 Pages

Excluding This Page

And

Chain Of Custody

5/3/02

Date



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Case Narrative for:  
**ATC Associates Inc.**

Certificate of Analysis Number:  
02040966

<p><b>Report To:</b></p> <p>ATC Associates Inc.          John Love          6602 Owens Drive, Suite 100</p> <p>Pleasanton          CA          94588-          ph: (925) 460-5300      fax:</p>	<p><b>Project Name:</b> Hertz Service Center</p> <p><b>Site:</b> 1 Airport Dr. Oakland, CA 94621</p> <p><b>Site Address:</b></p> <p><b>PO Number:</b></p> <p><b>State:</b> California</p> <p><b>State Cert. No.:</b> 1903</p> <p><b>Date Reported:</b> 5/3/02</p>
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID "MW-4" (SPL ID: 02040966-01) was randomly selected for use in SPL's quality control program for the Volatile Organics analysis by SW846 Method 8260B. The MS and MSD recoveries were outside of the advisable quality control limits for Benzene and Toluene (Batch ID: R58549) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

*Sonia West*  
 Sonia West  
 Senior Project Manager

5/3/02

Date



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

**ATC Associates Inc.**

Certificate of Analysis Number:

**02040966**

**Report To:** ATC Associates Inc.  
 John Love  
 6602 Owens Drive, Suite 100  
  
 Pleasanton  
 CA  
 94588-  
 ph: (925) 460-5300 fax: (925) 463-2559

**Project Name:** Hertz Service Center  
**Site:** 1 Airport Dr. Oakland, CA 94621  
**Site Address:**  
  
**PO Number:**  
**State:** California  
**State Cert. No.:** 1903  
**Date Reported:** 5/3/02

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-4	02040966-01	Water	4/24/02 12:25:00 PM	4/25/02 2:00:00 PM		<input type="checkbox"/>
MW-6	02040966-02	Water	4/24/02 11:45:00 AM	4/25/02 2:00:00 PM		<input type="checkbox"/>
MW-7	02040966-03	Water	4/24/02 10:15:00 AM	4/25/02 2:00:00 PM		<input type="checkbox"/>
MW-8	02040966-04	Water	4/24/02 10:45:00 AM	4/25/02 2:00:00 PM		<input type="checkbox"/>
MW-9	02040966-05	Water	4/24/02 11:15:00 AM	4/25/02 2:00:00 PM		<input type="checkbox"/>

*Sonia West*  
 Sonia West  
 Senior Project Manager

5/3/02  
 Date

Joel Grice  
 Laboratory Director  
  
 Ted Yen  
 Quality Assurance Officer





HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Client Sample ID: MW-4

Collected: 04/24/2002 12:25

SPL Sample ID: 02040966-01

Site: 1 Airport Dr. Oakland, CA 94621

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: mg/L</b>		
Gasoline Range Organics	9.8	0.25		5	04/26/02 21:56	DL	1119602
Surr: 1,4-Difluorobenzene	116	% 62-144		5	04/26/02 21:56	DL	1119602
Surr: 4-Bromofluorobenzene	93.0	% 44-153		5	04/26/02 21:56	DL	1119602
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	1400	5.0		5	04/26/02 21:56	DL	1119576
Ethylbenzene	640	5.0		5	04/26/02 21:56	DL	1119576
Toluene	240	5.0		5	04/26/02 21:56	DL	1119576
Methyl tert-butyl ether	500	5.0		5	04/26/02 21:56	DL	1119576
m,p-Xylene	630	5.0		5	04/26/02 21:56	DL	1119576
o-Xylene	140	5.0		5	04/26/02 21:56	DL	1119576
Xylenes, Total	770	5.0		5	04/26/02 21:56	DL	1119576
Surr: 4-Bromofluorobenzene	89.9	% 48-156		5	04/26/02 21:56	DL	1119576
Surr: 1,4-Difluorobenzene	127	% 72-137		5	04/26/02 21:56	DL	1119576
<b>VOLATILE ORGANICS BY METHOD 8260B</b>			<b>MCL</b>	<b>SW8260B</b>	<b>Units: ug/L</b>		
1,2-Dibromoethane	ND	5		1	05/01/02 16:01	JC	1126304
1,2-Dichloroethane	ND	5		1	05/01/02 16:01	JC	1126304
Diisopropyl Ether	ND	10		1	05/01/02 16:01	JC	1126304
Methyl tert-butyl ether	420	25		5	05/02/02 14:19	LT	1127439
t-Butyl alcohol	ND	500		1	05/01/02 16:01	JC	1126304
tert-Amyl methyl ether	ND	10		1	05/01/02 16:01	JC	1126304
tert-Butyl ethyl ether	ND	10		1	05/01/02 16:01	JC	1126304
Surr: 1,2-Dichloroethane-d4	92.0	% 62-130		5	05/02/02 14:19	LT	1127439
Surr: 1,2-Dichloroethane-d4	100	% 62-130		1	05/01/02 16:01	JC	1126304
Surr: 4-Bromofluorobenzene	96.0	% 70-130		5	05/02/02 14:19	LT	1127439
Surr: 4-Bromofluorobenzene	110	% 70-130		1	05/01/02 16:01	JC	1126304
Surr: Toluene-d8	96.0	% 74-122		5	05/02/02 14:19	LT	1127439
Surr: Toluene-d8	106	% 74-122		1	05/01/02 16:01	JC	1126304

**Qualifiers:** ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution  
 \* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Client Sample ID: MW-6

Collected: 04/24/2002 11:45

SPL Sample ID: 02040966-02

Site: 1 Airport Dr. Oakland, CA 94621

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA GRO</b>	<b>Units: mg/L</b>		
Gasoline Range Organics	ND	0.05	1		04/26/02 21:30	DL	1119601
Surr: 1,4-Difluorobenzene	97.3	% 62-144	1		04/26/02 21:30	DL	1119601
Surr: 4-Bromofluorobenzene	87.0	% 44-153	1		04/26/02 21:30	DL	1119601
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	1.0	1		04/26/02 21:30	DL	1119575
Ethylbenzene	ND	1.0	1		04/26/02 21:30	DL	1119575
Toluene	ND	1.0	1		04/26/02 21:30	DL	1119575
Methyl tert-butyl ether	41	1.0	1		04/26/02 21:30	DL	1119575
m,p-Xylene	ND	1.0	1		04/26/02 21:30	DL	1119575
o-Xylene	ND	1.0	1		04/26/02 21:30	DL	1119575
Xylenes, Total	ND	1.0	1		04/26/02 21:30	DL	1119575
Surr: 4-Bromofluorobenzene	85.4	% 48-156	1		04/26/02 21:30	DL	1119575
Surr: 1,4-Difluorobenzene	100	% 72-137	1		04/26/02 21:30	DL	1119575
<b>VOLATILE ORGANICS BY METHOD 8260B</b>			<b>MCL</b>	<b>SW8260B</b>	<b>Units: ug/L</b>		
1,2-Dibromoethane	ND	5	1		05/02/02 13:52	LT	1127436
1,2-Dichloroethane	ND	5	1		05/02/02 13:52	LT	1127436
Diisopropyl Ether	ND	10	1		05/02/02 13:52	LT	1127436
Methyl tert-butyl ether	34	5	1		05/02/02 13:52	LT	1127436
t-Butyl alcohol	ND	500	1		05/02/02 13:52	LT	1127436
tert-Amyl methyl ether	ND	10	1		05/02/02 13:52	LT	1127436
tert-Butyl ethyl ether	ND	10	1		05/02/02 13:52	LT	1127436
Surr: 1,2-Dichloroethane-d4	98.0	% 62-130	1		05/02/02 13:52	LT	1127436
Surr: 4-Bromofluorobenzene	92.0	% 70-130	1		05/02/02 13:52	LT	1127436
Surr: Toluene-d8	96.0	% 74-122	1		05/02/02 13:52	LT	1127436

**Qualifiers:**

ND/U - Not Detected at the Reporting Limit  
 B - Analyte detected in the associated Method Blank  
 \* - Surrogate Recovery Outside Advisable QC Limits  
 J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)  
 D - Surrogate Recovery Unreportable due to Dilution  
 MI - Matrix Interference



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Client Sample ID: MW-7

Collected: 04/24/2002 10:15

SPL Sample ID: 02040966-03

Site: 1 Airport Dr. Oakland, CA 94621

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: mg/L</b>		
Gasoline Range Organics	ND	0.05	1		04/26/02 21:04	DL	1119600
Surr: 1,4-Difluorobenzene	96.0	% 62-144	1		04/26/02 21:04	DL	1119600
Surr: 4-Bromofluorobenzene	75.0	% 44-153	1		04/26/02 21:04	DL	1119600
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	1.0	1		04/26/02 21:04	DL	1119574
Ethylbenzene	ND	1.0	1		04/26/02 21:04	DL	1119574
Toluene	ND	1.0	1		04/26/02 21:04	DL	1119574
Methyl tert-butyl ether	ND	1.0	1		04/26/02 21:04	DL	1119574
m,p-Xylene	ND	1.0	1		04/26/02 21:04	DL	1119574
o-Xylene	ND	1.0	1		04/26/02 21:04	DL	1119574
Xylenes, Total	ND	1.0	1		04/26/02 21:04	DL	1119574
Surr: 4-Bromofluorobenzene	78.6	% 48-156	1		04/26/02 21:04	DL	1119574
Surr: 1,4-Difluorobenzene	98.9	% 72-137	1		04/26/02 21:04	DL	1119574
<b>VOLATILE ORGANICS BY METHOD 8260B</b>			<b>MCL</b>	<b>SW8260B</b>	<b>Units: ug/L</b>		
1,2-Dibromoethane	ND	5	1		05/01/02 17:50	JC	1126312
1,2-Dichloroethane	ND	5	1		05/01/02 17:50	JC	1126312
Diisopropyl Ether	ND	10	1		05/01/02 17:50	JC	1126312
Methyl tert-butyl ether	ND	5	1		05/01/02 17:50	JC	1126312
t-Butyl alcohol	ND	500	1		05/01/02 17:50	JC	1126312
tert-Amyl methyl ether	ND	10	1		05/01/02 17:50	JC	1126312
tert-Butyl ethyl ether	ND	10	1		05/01/02 17:50	JC	1126312
Surr: 1,2-Dichloroethane-d4	108	% 62-130	1		05/01/02 17:50	JC	1126312
Surr: 4-Bromofluorobenzene	90.0	% 70-130	1		05/01/02 17:50	JC	1126312
Surr: Toluene-d8	100	% 74-122	1		05/01/02 17:50	JC	1126312

**Qualifiers:** ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
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 \* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Client Sample ID: MW-8

Collected: 04/24/2002 10:45 SPL Sample ID: 02040966-04

Site: 1 Airport Dr. Oakland, CA 94621

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: mg/L</b>		
Gasoline Range Organics	ND	0.05	1		04/26/02 20:38	DL	1119599
Surr: 1,4-Difluorobenzene	94.0	% 62-144	1		04/26/02 20:38	DL	1119599
Surr: 4-Bromofluorobenzene	87.0	% 44-153	1		04/26/02 20:38	DL	1119599
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	1.0	1		04/26/02 20:38	DL	1119573
Ethylbenzene	ND	1.0	1		04/26/02 20:38	DL	1119573
Toluene	ND	1.0	1		04/26/02 20:38	DL	1119573
Methyl tert-butyl ether	ND	1.0	1		04/26/02 20:38	DL	1119573
m,p-Xylene	ND	1.0	1		04/26/02 20:38	DL	1119573
o-Xylene	ND	1.0	1		04/26/02 20:38	DL	1119573
Xylenes, Total	ND	1.0	1		04/26/02 20:38	DL	1119573
Surr: 4-Bromofluorobenzene	79.9	% 48-156	1		04/26/02 20:38	DL	1119573
Surr: 1,4-Difluorobenzene	97.4	% 72-137	1		04/26/02 20:38	DL	1119573
<b>VOLATILE ORGANICS BY METHOD 8260B</b>			<b>MCL</b>	<b>SW8260B</b>	<b>Units: ug/L</b>		
1,2-Dibromoethane	ND	5	1		05/01/02 18:17	JC	1126314
1,2-Dichloroethane	ND	5	1		05/01/02 18:17	JC	1126314
Diisopropyl Ether	ND	10	1		05/01/02 18:17	JC	1126314
Methyl tert-butyl ether	ND	5	1		05/01/02 18:17	JC	1126314
t-Butyl alcohol	ND	500	1		05/01/02 18:17	JC	1126314
tert-Amyl methyl ether	ND	10	1		05/01/02 18:17	JC	1126314
tert-Butyl ethyl ether	ND	10	1		05/01/02 18:17	JC	1126314
Surr: 1,2-Dichloroethane-d4	116	% 62-130	1		05/01/02 18:17	JC	1126314
Surr: 4-Bromofluorobenzene	92.0	% 70-130	1		05/01/02 18:17	JC	1126314
Surr: Toluene-d8	94.0	% 74-122	1		05/01/02 18:17	JC	1126314

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution  
 \* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY  
 8880 INTERCHANGE DRIVE  
 HOUSTON, TX 77054  
 (713) 660-0901

Client Sample ID: MW-9

Collected: 04/24/2002 11:15 SPL Sample ID: 02040966-05

Site: 1 Airport Dr. Oakland, CA 94621

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: mg/L</b>		
Gasoline Range Organics	ND	0.05	1		04/26/02 20:12	DL	1119598
Surr: 1,4-Difluorobenzene	97.3 %	62-144	1		04/26/02 20:12	DL	1119598
Surr: 4-Bromofluorobenzene	91.3 %	44-153	1		04/26/02 20:12	DL	1119598
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	1.0	1		04/26/02 20:12	DL	1119572
Ethylbenzene	ND	1.0	1		04/26/02 20:12	DL	1119572
Toluene	ND	1.0	1		04/26/02 20:12	DL	1119572
Methyl tert-butyl ether	ND	1.0	1		04/26/02 20:12	DL	1119572
m,p-Xylene	ND	1.0	1		04/26/02 20:12	DL	1119572
o-Xylene	ND	1.0	1		04/26/02 20:12	DL	1119572
Xylenes, Total	ND	1.0	1		04/26/02 20:12	DL	1119572
Surr: 4-Bromofluorobenzene	79.9 %	48-156	1		04/26/02 20:12	DL	1119572
Surr: 1,4-Difluorobenzene	99.5 %	72-137	1		04/26/02 20:12	DL	1119572
<b>VOLATILE ORGANICS BY METHOD 8260B</b>			<b>MCL</b>	<b>SW8260B</b>	<b>Units: ug/L</b>		
1,2-Dibromoethane	ND	5	1		05/01/02 18:44	JC	1126316
1,2-Dichloroethane	ND	5	1		05/01/02 18:44	JC	1126316
Diisopropyl Ether	ND	10	1		05/01/02 18:44	JC	1126316
Methyl tert-butyl ether	ND	5	1		05/01/02 18:44	JC	1126316
t-Butyl alcohol	ND	500	1		05/01/02 18:44	JC	1126316
tert-Amyl methyl ether	ND	10	1		05/01/02 18:44	JC	1126316
tert-Butyl ethyl ether	ND	10	1		05/01/02 18:44	JC	1126316
Surr: 1,2-Dichloroethane-d4	120 %	62-130	1		05/01/02 18:44	JC	1126316
Surr: 4-Bromofluorobenzene	92.0 %	70-130	1		05/01/02 18:44	JC	1126316
Surr: Toluene-d8	96.0 %	74-122	1		05/01/02 18:44	JC	1126316

**Qualifiers:** ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution  
 \* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
 J - Estimated Value between MDL and PQL

# *Quality Control Documentation*



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

Quality Control Report

ATC Associates Inc.

Hertz Service Center

Analysis: Purgeable Aromatics  
Method: SW8021B

WorkOrder: 02040966  
Lab Batch ID: R58285

Method Blank

Samples in Analytical Batch:

RunID: VARE\_020426A-1119569 Units: ug/L  
Analysis Date: 04/26/2002 16:44 Analyst: DL

Lab Sample ID	Client Sample ID
02040966-01A	MW-4
02040966-02A	MW-6
02040966-03A	MW-7
02040966-04A	MW-8
02040966-05A	MW-9

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	99.4	72-130
Surr: 4-Bromofluorobenzene	87.8	70-130

Laboratory Control Sample (LCS)

RunID: VARE\_020426A-1119568 Units: ug/L  
Analysis Date: 04/26/2002 15:52 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	45	90	70	130
Ethylbenzene	50	46	92	70	130
Methyl tert-butyl ether	50	48	96	70	130
Toluene	50	46	92	70	130
m,p-Xylene	100	92	92	70	130
o-Xylene	50	47	95	70	130
Xylenes, Total	150	139	93	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02040966-05  
RunID: VARE\_020426A-1119570 Units: ug/L  
Analysis Date: 04/26/2002 18:01 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	16	80.6	20	17	83.3	3.20	21	32	164

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

ATC Associates Inc.

Hertz Service Center

Analysis: Purgeable Aromatics  
 Method: SW8021B

WorkOrder: 02040966  
 Lab Batch ID: R58285

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02040966-05  
 RunID: VARE\_020426A-1119570 Units: ug/L  
 Analysis Date: 04/26/2002 18:01 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	ND	20	16	78.6	20	16	79.1	0.687	19	52	142
Methyl tert-butyl ether	ND	20	19	95.6	20	21	105	9.75	20	39	150
Toluene	ND	20	16	79.4	20	16	80.6	1.59	20	38	159
m,p-Xylene	ND	40	33	83.1	40	33	83.5	0.446	17	53	144
o-Xylene	ND	20	17	85.2	20	17	85.7	0.611	18	53	143
Xylenes, Total	ND	60	50	83.3	60	50	83.3	0	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
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Quality Control Report

ATC Associates Inc.

Hertz Service Center

Analysis: Gasoline Range Organics  
 Method: CA\_GRO

WorkOrder: 02040966  
 Lab Batch ID: R58286

Method Blank

Samples in Analytical Batch:

RunID: VARE\_020426B-1119595 Units: mg/L  
 Analysis Date: 04/26/2002 16:44 Analyst: DL

Lab Sample ID	Client Sample ID
02040966-01A	MW-4
02040966-02A	MW-6
02040966-03A	MW-7
02040966-04A	MW-8
02040966-05A	MW-9

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	96.0	62-144
Surr: 4-Bromofluorobenzene	92.3	44-153

Laboratory Control Sample (LCS)

RunID: VARE\_020426B-1119594 Units: mg/L  
 Analysis Date: 04/26/2002 16:18 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.81	81	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02040966-04  
 RunID: VARE\_020426B-1119596 Units: mg/L  
 Analysis Date: 04/26/2002 18:53 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.4	43.9	0.9	0.41	45.9	4.53	36	36	160

**Qualifiers:** ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

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Quality Control Report

ATC Associates Inc.  
 Hertz Service Center

Analysis: Volatile Organics by Method 8260B  
 Method: SW8260B

WorkOrder: 02040966  
 Lab Batch ID: R58549

Method Blank

RunID: N\_020501A-1125241 Units: ug/L  
 Analysis Date: 05/01/2002 12:17 Analyst: JC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02040966-01B	MW-4
02040966-03B	MW-7
02040966-04B	MW-8
02040966-05B	MW-9

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	5.0
1,2-Dichloroethane	ND	5.0
Dilsopropyl Ether	ND	10
Methyl tert-butyl ether	ND	5.0
t-Butyl alcohol	ND	500
tert-Amyl methyl ether	ND	10
tert-Butyl ethyl ether	ND	10
Surr: 1,2-Dichloroethane-d4	118.0	62-130
Surr: 4-Bromofluorobenzene	84.0	70-130
Surr: Toluene-d8	96.0	74-122

Laboratory Control Sample (LCS)

RunID: N\_020501A-1125239 Units: ug/L  
 Analysis Date: 05/01/2002 11:23 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	48	96	61	145
Benzene	50	51	102	76	127
Chlorobenzene	50	48	96	75	130
Toluene	50	50	100	76	125
Trichloroethene	50	46	92	71	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02040966-01  
 RunID: N\_020501A-1126306 Units: ug/L  
 Analysis Date: 05/01/2002 16:28 Analyst: JC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50	47	94	50	37	74.0	24 *	14	38	172
Benzene	1700	50	1600	-200 *	50	1500	-400 *	67 *	11	66	134

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

ATC Associates Inc.  
 Hertz Service Center

Analysis: Volatile Organics by Method 8260B  
 Method: SW8260B

WorkOrder: 02040966  
 Lab Batch ID: R58549

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02040966-01  
 RunID: N\_020501A-1126306 Units: ug/L  
 Analysis Date: 05/01/2002 16:28 Analyst: JC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chlorobenzene	ND	50	44	88	50	34	68.0	26 *	13	67	115
Toluene	280	50	280	0 *	50	260	-40.0 *	200 *	13	59	125
Trichloroethene	ND	50	40	80	50	36	72.0	11	14	61	134

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

ATC Associates Inc.  
 Hertz Service Center

Analysis: Volatile Organics by Method 8260B  
 Method: SW8260B

WorkOrder: 02040966  
 Lab Batch ID: R58651

Method Blank

Samples in Analytical Batch:

RunID: L\_020502A-1127423 Units: ug/L  
 Analysis Date: 05/02/2002 11:38 Analyst: LT

Lab Sample ID Client Sample ID  
 02040966-01B MW-4  
 02040966-02B MW-6

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	5.0
1,2-Dichloroethane	ND	5.0
Diisopropyl Ether	ND	10
Methyl tert-butyl ether	ND	5.0
t-Butyl alcohol	ND	500
tert-Amyl methyl ether	ND	10
tert-Butyl ethyl ether	ND	10
Surr: 1,2-Dichloroethane-d4	94.0	62-130
Surr: 4-Bromofluorobenzene	92.0	70-130
Surr: Toluene-d8	94.0	74-122

Laboratory Control Sample (LCS)

RunID: L\_020502A-1127421 Units: ug/L  
 Analysis Date: 05/02/2002 10:45 Analyst: LT

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	49	98	61	145
Benzene	50	53	106	76	127
Chlorobenzene	50	46	92	75	130
Toluene	50	50	100	76	125
Trichloroethene	50	52	104	71	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02050025-01  
 RunID: L\_020502A-1127448 Units: ug/L  
 Analysis Date: 05/02/2002 15:39 Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50	49	98	50	48	96.0	2	14	38	172
Benzene	ND	50	49	98	50	49	98.0	0	11	66	134

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

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Quality Control Report

ATC Associates Inc.  
 Hertz Service Center

Analysis: Volatile Organics by Method 8260B  
 Method: SW8260B

WorkOrder: 02040966  
 Lab Batch ID: R58651

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02050025-01  
 RunID: L\_020502A-1127448 Units: ug/L  
 Analysis Date: 05/02/2002 15:39 Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chlorobenzene	ND	50	46	92	50	45	90.0	2	13	67	115
Toluene	ND	50	48	96	50	47	94.0	2	13	59	125
Trichloroethene	ND	50	48	96	50	50	100	4	14	61	134

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

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*Sample Receipt Checklist  
And  
Chain of Custody*



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

Sample Receipt Checklist

Workorder:	02040966	Received By:	DS
Date and Time Received:	4/25/02 2:00:00 PM	Carrier name:	FedEx
Temperature:	4	Chilled by:	Water Ice

- 1. Shipping container/cooler in good condition? Yes  No  Not Present
- 2. Custody seals intact on shipping container/cooler? Yes  No  Not Present
- 3. Custody seals intact on sample bottles? Yes  No  Not Present
- 4. Chain of custody present? Yes  No
- 5. Chain of custody signed when relinquished and received? Yes  No
- 6. Chain of custody agrees with sample labels? Yes  No
- 7. Samples in proper container/bottle? Yes  No
- 8. Sample containers intact? Yes  No
- 9. Sufficient sample volume for indicated test? Yes  No
- 10. All samples received within holding time? Yes  No
- 11. Container/Temp Blank temperature in compliance? Yes  No
- 12. Water - VOA vials have zero headspace? Yes  No  Not Applicable
- 13. Water - pH acceptable upon receipt? Yes  No  Not Applicable

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions: