

APPENDIX E

PIMA COUNTY DISCHARGE INFORMATION FOR IDW

RECEIVED MAR 14 2013



**PIMA COUNTY
REGIONAL WASTEWATER RECLAMATION DEPARTMENT**

201 North Stone Avenue
Tucson, Arizona 85701-1207

JACKSON JENKINS
DIRECTOR

Reply to Industrial Wastewater Control
3035 West El Camino del Cerro
Tucson, Arizona 85745
Ph: (520) 724-6200
Fax: (520) 724-6211

March 12, 2013

Ms. Abra Bentley
HYDRO GEO CHEM, INCORPORATED
51 West Wetmore Road, Suite 101
Tucson, Arizona 85705-1678

Dear Ms. Bentley:

RE: REQUEST TO DISCHARGE RECLAIMED WATER

The Pima County Regional Wastewater Reclamation Department has received your request for approval to discharge reclaimed water from well purging associated with the site, into the Publicly Owned Treatment Works (POTW). Approximately 1000 gallons is anticipated to be discharged into the newly installed manhole nearest the stop sign at the southwest corner of 7th Street and 5th Avenue.

Your request to discharge 1000 gallons from ground water monitoring is hereby approved with the following conditions:

- Discharge may be done only during day light hours;
- Barricades to be in place at manhole;
- Manhole area shall be manned during discharge times; and
- You shall furnish IWC with the total amount discharged for billing purposes.

The disposal fees associated with this project are \$0.14 per gallon, and a flat administration fee of \$11.14.

Letter to: Ms. Abra Bentley
Re: Request to Discharge Reclaimed Water
Date: March 12, 2013
Page: 2 of 2

This is a one-time approval for discharge. Any requests for future discharges will require written approval prior to discharge. If you have any questions, please contact my staff in the Industrial Wastewater Control Section at (520) 724-6200.

Sincerely,

A handwritten signature in blue ink, appearing to read "F. Jeff Prevatt", with a long horizontal flourish extending to the right.

F. Jeff Prevatt – Manager
Compliance and Regulatory Affairs Office

LABORATORY REPORT

Prepared For: Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project: 7th & Arizona

Sampled: 03/22/13
Received: 03/23/13
Issued: 04/02/13 12:24

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PWC1584-01
PWC1584-02

CLIENT ID

TB
IDW

MATRIX

Water
Water

TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13

Received: 03/23/13

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3 - 8260 - Batch 13C1207-BS1/BSD1/Batch 13C1253-BS1/BSD1/PWC1584-01 and -02 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits for Vinyl Acetate. Analyte not detected, data not impacted.
N1 - 8260 - Batch 13C1253-MS1/MSD1 - The LCS and/or LCSD as well as the MS and/or MSD recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples are non-detect for this compound and therefore should not be impacted.
N1a - 8260 - Batch 13C1207/13C1253/PWC1584-01 and -02 - The second source initial calibration verification analyzed immediately following the calibration recovered high and outside of acceptance limits for Vinyl Acetate. All associated samples had results less than the reporting limit for this analyte and therefore should not be impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:



TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13

Received: 03/23/13

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PWC1584-01 (TB - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	13C1207	10	ND	1	3/29/2013	3/29/2013	
Benzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Bromobenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Bromochloromethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Bromodichloromethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Bromoform	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
Bromomethane	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
2-Butanone (MEK)	EPA 8260B	13C1207	5.0	ND	1	3/29/2013	3/29/2013	
n-Butylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
sec-Butylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
tert-Butylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Carbon disulfide	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
Carbon tetrachloride	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Chlorobenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Chloroethane	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
Chloroform	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Chloromethane	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
2-Chlorotoluene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
4-Chlorotoluene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Dibromochloromethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2-Dibromo-3-chloropropane	EPA 8260B	13C1207	5.0	ND	1	3/29/2013	3/29/2013	
1,2-Dibromoethane (EDB)	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Dibromomethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2-Dichlorobenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,3-Dichlorobenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,4-Dichlorobenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Dichlorodifluoromethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,1-Dichloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2-Dichloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,1-Dichloroethene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
cis-1,2-Dichloroethene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
trans-1,2-Dichloroethene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2-Dichloropropane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,3-Dichloropropane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
2,2-Dichloropropane	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
1,1-Dichloropropene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
cis-1,3-Dichloropropene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
trans-1,3-Dichloropropene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Ethylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Hexachlorobutadiene	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	

TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
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Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13
Received: 03/23/13

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PWC1584-01 (TB - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	13C1207	5.0	ND	1	3/29/2013	3/29/2013	
Iodomethane	EPA 8260B	13C1207	2.5	ND	1	3/29/2013	3/29/2013	
Isopropylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
p-Isopropyltoluene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Methylene Chloride	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	13C1207	2.5	ND	1	3/29/2013	3/29/2013	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Naphthalene	EPA 8260B	13C1207	2.5	ND	1	3/29/2013	3/29/2013	
n-Propylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Styrene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,1,1,2-Tetrachloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,1,2,2-Tetrachloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Tetrachloroethene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Toluene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2,3-Trichlorobenzene	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
1,2,4-Trichlorobenzene	EPA 8260B	13C1207	1.0	ND	1	3/29/2013	3/29/2013	
1,1,1-Trichloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,1,2-Trichloroethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Trichloroethene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Trichlorofluoromethane	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,2,3-Trichloropropane	EPA 8260B	13C1207	2.0	ND	1	3/29/2013	3/29/2013	
1,2,4-Trimethylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
1,3,5-Trimethylbenzene	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Vinyl Acetate	EPA 8260B	13C1207	2.0	ND	1	3/29/2013	3/29/2013	L3, N1a
Vinyl chloride	EPA 8260B	13C1207	0.50	ND	1	3/29/2013	3/29/2013	
Xylenes, Total	EPA 8260B	13C1207	1.5	ND	1	3/29/2013	3/29/2013	
Surrogate: Dibromofluoromethane (70-130%)				98 %				
Surrogate: Toluene-d8 (70-130%)				97 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				92 %				

TestAmerica Phoenix

Linda Eshelman
Project Manager

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PWC1584-02RE1 (IDW - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	13C1253	10	ND	1	3/31/2013	3/31/2013	
Benzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Bromobenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Bromochloromethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Bromodichloromethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Bromoform	EPA 8260B	13C1253	1.0	2.0	1	3/31/2013	3/31/2013	
Bromomethane	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
2-Butanone (MEK)	EPA 8260B	13C1253	5.0	ND	1	3/31/2013	3/31/2013	
n-Butylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
sec-Butylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
tert-Butylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Carbon disulfide	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
Carbon tetrachloride	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Chlorobenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Chloroethane	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
Chloroform	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Chloromethane	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
2-Chlorotoluene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
4-Chlorotoluene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Dibromochloromethane	EPA 8260B	13C1253	0.50	1.3	1	3/31/2013	3/31/2013	
1,2-Dibromo-3-chloropropane	EPA 8260B	13C1253	5.0	ND	1	3/31/2013	3/31/2013	V1
1,2-Dibromoethane (EDB)	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Dibromomethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,2-Dichlorobenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,3-Dichlorobenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,4-Dichlorobenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Dichlorodifluoromethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,1-Dichloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,2-Dichloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,1-Dichloroethene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
cis-1,2-Dichloroethene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
trans-1,2-Dichloroethene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,2-Dichloropropane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,3-Dichloropropane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
2,2-Dichloropropane	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
1,1-Dichloropropene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
cis-1,3-Dichloropropene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
trans-1,3-Dichloropropene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Ethylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Hexachlorobutadiene	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	

TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
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Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13
Received: 03/23/13

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PWC1584-02RE1 (IDW - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	13C1253	5.0	ND	1	3/31/2013	3/31/2013	
Iodomethane	EPA 8260B	13C1253	2.5	ND	1	3/31/2013	3/31/2013	
Isopropylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
p-Isopropyltoluene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Methylene Chloride	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	13C1253	2.5	ND	1	3/31/2013	3/31/2013	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Naphthalene	EPA 8260B	13C1253	2.5	3.4	1	3/31/2013	3/31/2013	
n-Propylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Styrene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,1,1,2-Tetrachloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,1,2,2-Tetrachloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Tetrachloroethene	EPA 8260B	13C1253	0.50	0.74	1	3/31/2013	3/31/2013	
Toluene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,2,3-Trichlorobenzene	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
1,2,4-Trichlorobenzene	EPA 8260B	13C1253	1.0	ND	1	3/31/2013	3/31/2013	
1,1,1-Trichloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,1,2-Trichloroethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Trichloroethene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Trichlorofluoromethane	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,2,3-Trichloropropane	EPA 8260B	13C1253	2.0	ND	1	3/31/2013	3/31/2013	
1,2,4-Trimethylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
1,3,5-Trimethylbenzene	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Vinyl Acetate	EPA 8260B	13C1253	2.0	ND	1	3/31/2013	3/31/2013	L3, N1a
Vinyl chloride	EPA 8260B	13C1253	0.50	ND	1	3/31/2013	3/31/2013	
Xylenes, Total	EPA 8260B	13C1253	1.5	ND	1	3/31/2013	3/31/2013	
Surrogate: Dibromofluoromethane (70-130%)				101 %				
Surrogate: Toluene-d8 (70-130%)				100 %				
Surrogate: 4-Bromofluorobenzene (70-130%)				97 %				

TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13

Received: 03/23/13

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Blank Analyzed: 03/29/2013 (13C1207-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	5.0	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Project ID: 7th & Arizona
Report Number: PWC1584

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Blank Analyzed: 03/29/2013 (13C1207-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	2.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	2.0	ug/l							N/a
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Surrogate: Dibromofluoromethane	23.5		ug/l	25.0		94	70-130			
Surrogate: Toluene-d8	24.4		ug/l	25.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	22.8		ug/l	25.0		91	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
LCS Analyzed: 03/29/2013 (13C1207-BS1)										
Acetone	23.9	10	ug/l	25.0		96	38-150			
Benzene	21.2	0.50	ug/l	25.0		85	70-130			
Bromobenzene	20.6	0.50	ug/l	25.0		82	70-130			
Bromochloromethane	21.2	0.50	ug/l	25.0		85	70-130			
Bromodichloromethane	20.3	0.50	ug/l	25.0		81	70-130			
Bromoform	19.6	1.0	ug/l	25.0		78	69-129			
Bromomethane	20.7	1.0	ug/l	25.0		83	57-138			
2-Butanone (MEK)	23.8	5.0	ug/l	25.0		95	53-150			
n-Butylbenzene	22.5	0.50	ug/l	25.0		90	70-130			
sec-Butylbenzene	22.7	0.50	ug/l	25.0		91	70-130			
tert-Butylbenzene	22.6	0.50	ug/l	25.0		90	70-130			
Carbon disulfide	19.6	1.0	ug/l	25.0		78	64-145			
Carbon tetrachloride	19.6	0.50	ug/l	25.0		78	70-143			
Chlorobenzene	21.5	0.50	ug/l	25.0		86	70-130			
Chloroethane	21.4	1.0	ug/l	25.0		86	66-131			
Chloroform	20.7	0.50	ug/l	25.0		83	70-130			
Chloromethane	20.7	1.0	ug/l	25.0		83	56-129			
2-Chlorotoluene	21.7	0.50	ug/l	25.0		87	70-130			
4-Chlorotoluene	21.9	0.50	ug/l	25.0		87	70-130			
Dibromochloromethane	20.7	0.50	ug/l	25.0		83	70-130			
1,2-Dibromo-3-chloropropane	23.7	5.0	ug/l	25.0		95	63-146			
1,2-Dibromoethane (EDB)	21.9	0.50	ug/l	25.0		88	70-130			
Dibromomethane	20.9	0.50	ug/l	25.0		84	70-130			
1,2-Dichlorobenzene	20.8	0.50	ug/l	25.0		83	70-130			
1,3-Dichlorobenzene	21.3	0.50	ug/l	25.0		85	70-130			
1,4-Dichlorobenzene	20.3	0.50	ug/l	25.0		81	70-130			
Dichlorodifluoromethane	17.5	0.50	ug/l	25.0		70	46-144			
1,1-Dichloroethane	21.6	0.50	ug/l	25.0		86	70-130			
1,2-Dichloroethane	20.2	0.50	ug/l	25.0		81	66-139			
1,1-Dichloroethene	20.7	0.50	ug/l	25.0		83	63-131			
cis-1,2-Dichloroethene	22.3	0.50	ug/l	25.0		89	70-130			
trans-1,2-Dichloroethene	20.5	0.50	ug/l	25.0		82	69-127			
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	70-130			
1,3-Dichloropropane	21.7	0.50	ug/l	25.0		87	70-130			
2,2-Dichloropropane	21.8	1.0	ug/l	25.0		87	69-139			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
LCS Analyzed: 03/29/2013 (13C1207-BS1)										
1,1-Dichloropropene	20.0	0.50	ug/l	25.0		80	70-130			
cis-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	70-130			
trans-1,3-Dichloropropene	20.4	0.50	ug/l	25.0		82	70-130			
Ethylbenzene	22.2	0.50	ug/l	25.0		89	70-130			
Hexachlorobutadiene	23.7	1.0	ug/l	25.0		95	76-145			
2-Hexanone	25.1	5.0	ug/l	25.0		100	55-150			
Iodomethane	22.1	2.5	ug/l	25.0		88	70-130			
Isopropylbenzene	24.3	0.50	ug/l	25.0		97	88-141			
p-Isopropyltoluene	20.7	0.50	ug/l	25.0		83	70-130			
Methylene Chloride	19.1	1.0	ug/l	25.0		76	63-128			
4-Methyl-2-pentanone (MIBK)	23.2	2.5	ug/l	25.0		93	64-142			
Methyl-tert-butyl Ether (MTBE)	22.1	0.50	ug/l	25.0		88	70-130			
Naphthalene	24.4	2.5	ug/l	25.0		98	78-143			
n-Propylbenzene	23.3	0.50	ug/l	25.0		93	70-130			
Styrene	22.5	0.50	ug/l	25.0		90	70-130			
1,1,1,2-Tetrachloroethane	20.6	0.50	ug/l	25.0		82	70-130			
1,1,2,2-Tetrachloroethane	21.3	0.50	ug/l	25.0		85	70-130			
Tetrachloroethene	20.4	0.50	ug/l	25.0		82	70-130			
Toluene	21.4	0.50	ug/l	25.0		86	70-130			
1,2,3-Trichlorobenzene	24.0	1.0	ug/l	25.0		96	79-139			
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	80-137			
1,1,1-Trichloroethane	20.4	0.50	ug/l	25.0		81	71-131			
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0		80	70-130			
Trichloroethene	20.2	0.50	ug/l	25.0		81	70-130			
Trichlorofluoromethane	20.5	0.50	ug/l	25.0		82	69-150			
1,2,3-Trichloropropane	20.9	2.0	ug/l	25.0		84	70-130			
1,2,4-Trimethylbenzene	22.0	0.50	ug/l	25.0		88	70-130			
1,3,5-Trimethylbenzene	22.4	0.50	ug/l	25.0		89	70-130			
Vinyl Acetate	38.2	2.0	ug/l	25.0		153	67-148			L3, N1a
Vinyl chloride	21.0	0.50	ug/l	25.0		84	65-137			
Xylenes, Total	44.7	1.5	ug/l	50.0		89	70-130			
Surrogate: Dibromofluoromethane	24.0		ug/l	25.0		96	70-130			
Surrogate: Toluene-d8	24.4		ug/l	25.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
LCS Dup Analyzed: 03/29/2013 (13C1207-BSD1)										
Acetone	20.5	10	ug/l	25.0		82	38-150	15	35	
Benzene	21.8	0.50	ug/l	25.0		87	70-130	3	20	
Bromobenzene	21.0	0.50	ug/l	25.0		84	70-130	2	20	
Bromochloromethane	22.3	0.50	ug/l	25.0		89	70-130	5	20	
Bromodichloromethane	20.1	0.50	ug/l	25.0		81	70-130	0.8	20	
Bromoform	19.5	1.0	ug/l	25.0		78	69-129	0.4	20	
Bromomethane	20.7	1.0	ug/l	25.0		83	57-138	0.1	20	
2-Butanone (MEK)	24.0	5.0	ug/l	25.0		96	53-150	0.7	35	
n-Butylbenzene	22.2	0.50	ug/l	25.0		89	70-130	1	20	
sec-Butylbenzene	22.9	0.50	ug/l	25.0		91	70-130	0.6	20	
tert-Butylbenzene	22.7	0.50	ug/l	25.0		91	70-130	0.8	20	
Carbon disulfide	19.9	1.0	ug/l	25.0		80	64-145	2	33	
Carbon tetrachloride	19.9	0.50	ug/l	25.0		80	70-143	1	20	
Chlorobenzene	21.5	0.50	ug/l	25.0		86	70-130	0.09	20	
Chloroethane	21.1	1.0	ug/l	25.0		84	66-131	2	20	
Chloroform	20.7	0.50	ug/l	25.0		83	70-130	0.1	20	
Chloromethane	20.5	1.0	ug/l	25.0		82	56-129	1	20	
2-Chlorotoluene	21.8	0.50	ug/l	25.0		87	70-130	0.5	20	
4-Chlorotoluene	21.8	0.50	ug/l	25.0		87	70-130	0.5	20	
Dibromochloromethane	20.3	0.50	ug/l	25.0		81	70-130	2	20	
1,2-Dibromo-3-chloropropane	24.2	5.0	ug/l	25.0		97	63-146	2	22	
1,2-Dibromoethane (EDB)	21.8	0.50	ug/l	25.0		87	70-130	0.3	20	
Dibromomethane	20.7	0.50	ug/l	25.0		83	70-130	0.8	20	
1,2-Dichlorobenzene	21.0	0.50	ug/l	25.0		84	70-130	1	20	
1,3-Dichlorobenzene	21.3	0.50	ug/l	25.0		85	70-130	0.2	20	
1,4-Dichlorobenzene	20.5	0.50	ug/l	25.0		82	70-130	0.9	20	
Dichlorodifluoromethane	17.5	0.50	ug/l	25.0		70	46-144	0.2	23	
1,1-Dichloroethane	21.4	0.50	ug/l	25.0		86	70-130	1	20	
1,2-Dichloroethane	20.6	0.50	ug/l	25.0		82	66-139	2	20	
1,1-Dichloroethene	21.6	0.50	ug/l	25.0		86	63-131	4	22	
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0		89	70-130	0.6	20	
trans-1,2-Dichloroethene	20.9	0.50	ug/l	25.0		84	69-127	2	20	
1,2-Dichloropropane	21.2	0.50	ug/l	25.0		85	70-130	2	20	
1,3-Dichloropropane	20.9	0.50	ug/l	25.0		84	70-130	4	20	
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	69-139	4	20	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
LCS Dup Analyzed: 03/29/2013 (13C1207-BSD1)										
1,1-Dichloropropene	20.2	0.50	ug/l	25.0		81	70-130	0.8	20	
cis-1,3-Dichloropropene	22.1	0.50	ug/l	25.0		88	70-130	1	20	
trans-1,3-Dichloropropene	20.6	0.50	ug/l	25.0		82	70-130	1	20	
Ethylbenzene	22.3	0.50	ug/l	25.0		89	70-130	0.8	20	
Hexachlorobutadiene	23.2	1.0	ug/l	25.0		93	76-145	2	20	
2-Hexanone	23.2	5.0	ug/l	25.0		93	55-150	8	35	
Iodomethane	22.3	2.5	ug/l	25.0		89	70-130	1	20	
Isopropylbenzene	24.8	0.50	ug/l	25.0		99	88-141	2	20	
p-Isopropyltoluene	21.2	0.50	ug/l	25.0		85	70-130	2	20	
Methylene Chloride	19.9	1.0	ug/l	25.0		80	63-128	4	21	
4-Methyl-2-pentanone (MIBK)	22.8	2.5	ug/l	25.0		91	64-142	2	25	
Methyl-tert-butyl Ether (MTBE)	21.4	0.50	ug/l	25.0		86	70-130	3	20	
Naphthalene	24.0	2.5	ug/l	25.0		96	78-143	2	20	
n-Propylbenzene	23.4	0.50	ug/l	25.0		94	70-130	0.3	20	
Styrene	22.9	0.50	ug/l	25.0		92	70-130	2	20	
1,1,1,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	70-130	1	20	
1,1,2,2-Tetrachloroethane	20.1	0.50	ug/l	25.0		81	70-130	5	20	
Tetrachloroethene	20.5	0.50	ug/l	25.0		82	70-130	0.6	20	
Toluene	21.5	0.50	ug/l	25.0		86	70-130	0.4	20	
1,2,3-Trichlorobenzene	23.7	1.0	ug/l	25.0		95	79-139	1	20	
1,2,4-Trichlorobenzene	24.3	1.0	ug/l	25.0		97	80-137	1	20	
1,1,1-Trichloroethane	20.4	0.50	ug/l	25.0		82	71-131	0.1	20	
1,1,2-Trichloroethane	20.0	0.50	ug/l	25.0		80	70-130	0.2	20	
Trichloroethene	19.9	0.50	ug/l	25.0		80	70-130	2	20	
Trichlorofluoromethane	20.8	0.50	ug/l	25.0		83	69-150	1	22	
1,2,3-Trichloropropane	21.3	2.0	ug/l	25.0		85	70-130	2	20	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0		86	70-130	2	20	
1,3,5-Trimethylbenzene	22.4	0.50	ug/l	25.0		90	70-130	0.04	20	
Vinyl Acetate	36.7	2.0	ug/l	25.0		147	67-148	4	22	N/A
Vinyl chloride	20.7	0.50	ug/l	25.0		83	65-137	1	20	
Xylenes, Total	44.5	1.5	ug/l	50.0		89	70-130	0.4	20	
Surrogate: Dibromofluoromethane	24.6		ug/l	25.0		98	70-130			
Surrogate: Toluene-d8	25.0		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		ug/l	25.0		100	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Matrix Spike Analyzed: 03/29/2013 (13C1207-MS1)					Source: PWC1560-07					
Acetone	16.2	10	ug/l	25.0	ND	65	29-139			
Benzene	21.1	0.50	ug/l	25.0	ND	84	68-131			
Bromobenzene	20.7	0.50	ug/l	25.0	ND	83	70-130			
Bromochloromethane	21.8	0.50	ug/l	25.0	ND	87	64-132			
Bromodichloromethane	20.3	0.50	ug/l	25.0	ND	81	63-138			
Bromoform	20.1	1.0	ug/l	25.0	ND	81	60-128			
Bromomethane	20.8	1.0	ug/l	25.0	ND	83	47-144			
2-Butanone (MEK)	19.3	5.0	ug/l	25.0	ND	77	31-143			
n-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	69-140			
sec-Butylbenzene	22.7	0.50	ug/l	25.0	ND	91	72-136			
tert-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	74-135			
Carbon disulfide	19.3	1.0	ug/l	25.0	ND	77	45-150			
Carbon tetrachloride	20.3	0.50	ug/l	25.0	ND	81	65-147			
Chlorobenzene	21.6	0.50	ug/l	25.0	ND	86	70-130			
Chloroethane	20.0	1.0	ug/l	25.0	ND	80	57-139			
Chloroform	22.2	0.50	ug/l	25.0	1.68	82	63-131			
Chloromethane	19.6	1.0	ug/l	25.0	ND	78	47-134			
2-Chlorotoluene	21.2	0.50	ug/l	25.0	ND	85	71-131			
4-Chlorotoluene	21.6	0.50	ug/l	25.0	ND	86	70-130			
Dibromochloromethane	21.2	0.50	ug/l	25.0	ND	85	65-134			
1,2-Dibromo-3-chloropropane	26.3	5.0	ug/l	25.0	ND	105	53-145			
1,2-Dibromoethane (EDB)	21.8	0.50	ug/l	25.0	ND	87	70-130			
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	66-136			
1,2-Dichlorobenzene	20.7	0.50	ug/l	25.0	ND	83	70-130			
1,3-Dichlorobenzene	21.3	0.50	ug/l	25.0	ND	85	70-130			
1,4-Dichlorobenzene	20.7	0.50	ug/l	25.0	ND	83	70-130			
Dichlorodifluoromethane	16.8	0.50	ug/l	25.0	ND	67	40-148			
1,1-Dichloroethane	22.4	0.50	ug/l	25.0	1.27	85	62-130			
1,2-Dichloroethane	20.5	0.50	ug/l	25.0	ND	82	54-147			
1,1-Dichloroethene	22.2	0.50	ug/l	25.0	1.36	84	57-137			
cis-1,2-Dichloroethene	22.2	0.50	ug/l	25.0	ND	89	65-127			
trans-1,2-Dichloroethene	21.4	0.50	ug/l	25.0	ND	85	62-131			
1,2-Dichloropropane	21.0	0.50	ug/l	25.0	ND	84	68-126			
1,3-Dichloropropane	21.8	0.50	ug/l	25.0	ND	87	68-129			
2,2-Dichloropropane	20.4	1.0	ug/l	25.0	ND	82	60-146			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Matrix Spike Analyzed: 03/29/2013 (13C1207-MS1)					Source: PWC1560-07					
1,1-Dichloropropene	19.7	0.50	ug/l	25.0	ND	79	64-134			
cis-1,3-Dichloropropene	21.3	0.50	ug/l	25.0	ND	85	63-135			
trans-1,3-Dichloropropene	19.9	0.50	ug/l	25.0	ND	80	58-136			
Ethylbenzene	22.3	0.50	ug/l	25.0	ND	89	74-134			
Hexachlorobutadiene	24.5	1.0	ug/l	25.0	ND	98	69-150			
2-Hexanone	21.4	5.0	ug/l	25.0	ND	86	40-142			
Iodomethane	21.7	2.5	ug/l	25.0	ND	87	53-150			
Isopropylbenzene	24.3	0.50	ug/l	25.0	ND	97	80-146			
p-Isopropyltoluene	21.0	0.50	ug/l	25.0	ND	84	70-133			
Methylene Chloride	19.2	1.0	ug/l	25.0	ND	77	55-133			
4-Methyl-2-pentanone (MIBK)	22.5	2.5	ug/l	25.0	ND	90	52-143			
Methyl-tert-butyl Ether (MTBE)	22.1	0.50	ug/l	25.0	ND	88	67-138			
Naphthalene	24.8	2.5	ug/l	25.0	ND	99	67-146			
n-Propylbenzene	23.1	0.50	ug/l	25.0	ND	92	74-140			
Styrene	4.22	0.50	ug/l	25.0	ND	17	43-144			M2
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/l	25.0	ND	87	70-130			
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/l	25.0	ND	86	63-137			
Tetrachloroethene	21.1	0.50	ug/l	25.0	0.620	82	67-131			
Toluene	21.2	0.50	ug/l	25.0	ND	85	65-138			
1,2,3-Trichlorobenzene	24.7	1.0	ug/l	25.0	ND	99	74-139			
1,2,4-Trichlorobenzene	25.3	1.0	ug/l	25.0	ND	101	74-138			
1,1,1-Trichloroethane	20.4	0.50	ug/l	25.0	ND	81	64-138			
1,1,2-Trichloroethane	20.8	0.50	ug/l	25.0	ND	83	63-132			
Trichloroethene	20.6	0.50	ug/l	25.0	0.520	80	66-132			
Trichlorofluoromethane	20.7	0.50	ug/l	25.0	ND	83	62-150			
1,2,3-Trichloropropane	21.6	2.0	ug/l	25.0	ND	87	68-130			
1,2,4-Trimethylbenzene	21.9	0.50	ug/l	25.0	ND	87	63-135			
1,3,5-Trimethylbenzene	22.3	0.50	ug/l	25.0	ND	89	66-137			
Vinyl Acetate	13.2	2.0	ug/l	25.0	ND	53	47-150			N1a
Vinyl chloride	20.8	0.50	ug/l	25.0	ND	83	55-146			
Xylenes, Total	43.7	1.5	ug/l	50.0	ND	87	68-131			
Surrogate: Dibromofluoromethane	25.1		ug/l	25.0		100	70-130			
Surrogate: Toluene-d8	24.1		ug/l	25.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		ug/l	25.0		100	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Matrix Spike Dup Analyzed: 03/29/2013 (13C1207-MSD1)					Source: PWC1560-07					
Acetone	16.2	10	ug/l	25.0	ND	65	29-139	0.06	35	
Benzene	21.2	0.50	ug/l	25.0	ND	85	68-131	0.6	32	
Bromobenzene	20.5	0.50	ug/l	25.0	ND	82	70-130	1	28	
Bromochloromethane	22.3	0.50	ug/l	25.0	ND	89	64-132	2	35	
Bromodichloromethane	20.1	0.50	ug/l	25.0	ND	80	63-138	1	31	
Bromoform	19.9	1.0	ug/l	25.0	ND	79	60-128	1	31	
Bromomethane	20.2	1.0	ug/l	25.0	ND	81	47-144	3	35	
2-Butanone (MEK)	19.8	5.0	ug/l	25.0	ND	79	31-143	2	35	
n-Butylbenzene	21.7	0.50	ug/l	25.0	ND	87	69-140	4	32	
sec-Butylbenzene	22.1	0.50	ug/l	25.0	ND	89	72-136	3	33	
tert-Butylbenzene	22.1	0.50	ug/l	25.0	ND	88	74-135	2	32	
Carbon disulfide	18.9	1.0	ug/l	25.0	ND	76	45-150	2	35	
Carbon tetrachloride	20.1	0.50	ug/l	25.0	ND	81	65-147	0.6	35	
Chlorobenzene	21.5	0.50	ug/l	25.0	ND	86	70-130	0.2	30	
Chloroethane	19.7	1.0	ug/l	25.0	ND	79	57-139	2	35	
Chloroform	22.0	0.50	ug/l	25.0	1.68	81	63-131	0.8	33	
Chloromethane	19.5	1.0	ug/l	25.0	ND	78	47-134	0.4	35	
2-Chlorotoluene	21.1	0.50	ug/l	25.0	ND	84	71-131	0.9	29	
4-Chlorotoluene	21.5	0.50	ug/l	25.0	ND	86	70-130	0.6	28	
Dibromochloromethane	21.0	0.50	ug/l	25.0	ND	84	65-134	1	33	
1,2-Dibromo-3-chloropropane	23.4	5.0	ug/l	25.0	ND	94	53-145	12	35	
1,2-Dibromoethane (EDB)	23.0	0.50	ug/l	25.0	ND	92	70-130	5	33	
Dibromomethane	20.8	0.50	ug/l	25.0	ND	83	66-136	3	35	
1,2-Dichlorobenzene	20.4	0.50	ug/l	25.0	ND	81	70-130	2	27	
1,3-Dichlorobenzene	21.1	0.50	ug/l	25.0	ND	84	70-130	0.8	28	
1,4-Dichlorobenzene	20.4	0.50	ug/l	25.0	ND	82	70-130	1	26	
Dichlorodifluoromethane	17.3	0.50	ug/l	25.0	ND	69	40-148	3	35	
1,1-Dichloroethane	21.9	0.50	ug/l	25.0	1.27	82	62-130	2	34	
1,2-Dichloroethane	20.0	0.50	ug/l	25.0	ND	80	54-147	2	35	
1,1-Dichloroethene	21.5	0.50	ug/l	25.0	1.36	81	57-137	3	35	
cis-1,2-Dichloroethene	21.8	0.50	ug/l	25.0	ND	87	65-127	2	34	
trans-1,2-Dichloroethene	20.0	0.50	ug/l	25.0	ND	80	62-131	7	35	
1,2-Dichloropropane	20.8	0.50	ug/l	25.0	ND	83	68-126	1	32	
1,3-Dichloropropane	21.1	0.50	ug/l	25.0	ND	85	68-129	3	33	
2,2-Dichloropropane	19.6	1.0	ug/l	25.0	ND	78	60-146	4	35	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1207 Extracted: 03/29/13										
Matrix Spike Dup Analyzed: 03/29/2013 (13C1207-MSD1)					Source: PWC1560-07					
1,1-Dichloropropene	19.9	0.50	ug/l	25.0	ND	80	64-134	1	34	
cis-1,3-Dichloropropene	21.4	0.50	ug/l	25.0	ND	86	63-135	0.6	35	
trans-1,3-Dichloropropene	19.8	0.50	ug/l	25.0	ND	79	58-136	0.7	35	
Ethylbenzene	22.8	0.50	ug/l	25.0	ND	91	74-134	2	32	
Hexachlorobutadiene	22.9	1.0	ug/l	25.0	ND	91	69-150	7	32	
2-Hexanone	22.0	5.0	ug/l	25.0	ND	88	40-142	3	35	
Iodomethane	21.6	2.5	ug/l	25.0	ND	86	53-150	0.5	35	
Isopropylbenzene	24.2	0.50	ug/l	25.0	ND	97	80-146	0.7	32	
p-Isopropyltoluene	20.4	0.50	ug/l	25.0	ND	82	70-133	3	32	
Methylene Chloride	19.6	1.0	ug/l	25.0	ND	78	55-133	2	35	
4-Methyl-2-pentanone (MIBK)	22.9	2.5	ug/l	25.0	ND	91	52-143	2	35	
Methyl-tert-butyl Ether (MTBE)	21.3	0.50	ug/l	25.0	ND	85	67-138	4	21	
Naphthalene	23.3	2.5	ug/l	25.0	ND	93	67-146	6	29	
n-Propylbenzene	23.0	0.50	ug/l	25.0	ND	92	74-140	0.7	32	
Styrene	4.40	0.50	ug/l	25.0	ND	18	43-144	4	35	M2
1,1,1,2-Tetrachloroethane	21.2	0.50	ug/l	25.0	ND	85	70-130	2	30	
1,1,2,2-Tetrachloroethane	20.6	0.50	ug/l	25.0	ND	83	63-137	4	32	
Tetrachloroethene	21.4	0.50	ug/l	25.0	0.620	83	67-131	2	31	
Toluene	21.1	0.50	ug/l	25.0	ND	84	65-138	0.5	33	
1,2,3-Trichlorobenzene	22.5	1.0	ug/l	25.0	ND	90	74-139	9	26	
1,2,4-Trichlorobenzene	23.2	1.0	ug/l	25.0	ND	93	74-138	9	26	
1,1,1-Trichloroethane	19.9	0.50	ug/l	25.0	ND	79	64-138	2	35	
1,1,2-Trichloroethane	19.8	0.50	ug/l	25.0	ND	79	63-132	5	35	
Trichloroethene	20.2	0.50	ug/l	25.0	0.520	79	66-132	2	29	
Trichlorofluoromethane	19.6	0.50	ug/l	25.0	ND	78	62-150	5	35	
1,2,3-Trichloropropane	20.5	2.0	ug/l	25.0	ND	82	68-130	5	32	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	63-135	2	31	
1,3,5-Trimethylbenzene	22.0	0.50	ug/l	25.0	ND	88	66-137	2	30	
Vinyl Acetate	13.6	2.0	ug/l	25.0	ND	54	47-150	3	35	N1a
Vinyl chloride	20.4	0.50	ug/l	25.0	ND	82	55-146	2	35	
Xylenes, Total	43.7	1.5	ug/l	50.0	ND	87	68-131	0.02	31	
Surrogate: Dibromofluoromethane	23.7		ug/l	25.0		95	70-130			
Surrogate: Toluene-d8	24.2		ug/l	25.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		ug/l	25.0		103	70-130			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Blank Analyzed: 03/31/2013 (13C1253-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	5.0	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							VI
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Blank Analyzed: 03/31/2013 (13C1253-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	2.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	2.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Surrogate: Dibromofluoromethane	25.9		ug/l	25.0		104	70-130			
Surrogate: Toluene-d8	23.9		ug/l	25.0		95	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		ug/l	25.0		98	70-130			

N/a

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
LCS Analyzed: 03/31/2013 (13C1253-BS1)										
Acetone	23.6	10	ug/l	25.0		94	38-150			
Benzene	22.7	0.50	ug/l	25.0		91	70-130			
Bromobenzene	23.5	0.50	ug/l	25.0		94	70-130			
Bromochloromethane	24.4	0.50	ug/l	25.0		98	70-130			
Bromodichloromethane	22.4	0.50	ug/l	25.0		90	70-130			
Bromoform	24.4	1.0	ug/l	25.0		98	69-129			
Bromomethane	21.9	1.0	ug/l	25.0		88	57-138			
2-Butanone (MEK)	22.2	5.0	ug/l	25.0		89	53-150			
n-Butylbenzene	23.3	0.50	ug/l	25.0		93	70-130			
sec-Butylbenzene	23.7	0.50	ug/l	25.0		95	70-130			
tert-Butylbenzene	23.8	0.50	ug/l	25.0		95	70-130			
Carbon disulfide	20.3	1.0	ug/l	25.0		81	64-145			
Carbon tetrachloride	22.2	0.50	ug/l	25.0		89	70-143			
Chlorobenzene	22.4	0.50	ug/l	25.0		90	70-130			
Chloroethane	23.9	1.0	ug/l	25.0		95	66-131			
Chloroform	23.7	0.50	ug/l	25.0		95	70-130			
Chloromethane	22.3	1.0	ug/l	25.0		89	56-129			
2-Chlorotoluene	23.8	0.50	ug/l	25.0		95	70-130			
4-Chlorotoluene	23.3	0.50	ug/l	25.0		93	70-130			
Dibromochloromethane	23.1	0.50	ug/l	25.0		92	70-130			
1,2-Dibromo-3-chloropropane	31.7	5.0	ug/l	25.0		127	63-146			VI
1,2-Dibromoethane (EDB)	24.3	0.50	ug/l	25.0		97	70-130			
Dibromomethane	23.7	0.50	ug/l	25.0		95	70-130			
1,2-Dichlorobenzene	24.8	0.50	ug/l	25.0		99	70-130			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0		95	70-130			
1,4-Dichlorobenzene	22.9	0.50	ug/l	25.0		92	70-130			
Dichlorodifluoromethane	17.9	0.50	ug/l	25.0		72	46-144			
1,1-Dichloroethane	23.7	0.50	ug/l	25.0		95	70-130			
1,2-Dichloroethane	24.6	0.50	ug/l	25.0		98	66-139			
1,1-Dichloroethene	22.6	0.50	ug/l	25.0		90	63-131			
cis-1,2-Dichloroethene	23.9	0.50	ug/l	25.0		96	70-130			
trans-1,2-Dichloroethene	23.2	0.50	ug/l	25.0		93	69-127			
1,2-Dichloropropane	22.3	0.50	ug/l	25.0		89	70-130			
1,3-Dichloropropane	23.6	0.50	ug/l	25.0		94	70-130			
2,2-Dichloropropane	23.6	1.0	ug/l	25.0		94	69-139			

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Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13

Received: 03/23/13

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
LCS Analyzed: 03/31/2013 (13C1253-BS1)										
1,1-Dichloropropene	21.2	0.50	ug/l	25.0		85	70-130			
cis-1,3-Dichloropropene	24.3	0.50	ug/l	25.0		97	70-130			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		90	70-130			
Ethylbenzene	23.7	0.50	ug/l	25.0		95	70-130			
Hexachlorobutadiene	25.2	1.0	ug/l	25.0		101	76-145			
2-Hexanone	26.2	5.0	ug/l	25.0		105	55-150			
Iodomethane	21.7	2.5	ug/l	25.0		87	70-130			
Isopropylbenzene	25.6	0.50	ug/l	25.0		103	88-141			
p-Isopropyltoluene	22.4	0.50	ug/l	25.0		90	70-130			
Methylene Chloride	21.5	1.0	ug/l	25.0		86	63-128			
4-Methyl-2-pentanone (MIBK)	25.3	2.5	ug/l	25.0		101	64-142			
Methyl-tert-butyl Ether (MTBE)	24.0	0.50	ug/l	25.0		96	70-130			
Naphthalene	24.0	2.5	ug/l	25.0		96	78-143			
n-Propylbenzene	24.2	0.50	ug/l	25.0		97	70-130			
Styrene	20.2	0.50	ug/l	25.0		81	70-130			
1,1,1,2-Tetrachloroethane	22.9	0.50	ug/l	25.0		92	70-130			
1,1,2,2-Tetrachloroethane	25.7	0.50	ug/l	25.0		103	70-130			
Tetrachloroethene	21.3	0.50	ug/l	25.0		85	70-130			
Toluene	23.5	0.50	ug/l	25.0		94	70-130			
1,2,3-Trichlorobenzene	23.2	1.0	ug/l	25.0		93	79-139			
1,2,4-Trichlorobenzene	21.5	1.0	ug/l	25.0		86	80-137			
1,1,1-Trichloroethane	23.2	0.50	ug/l	25.0		93	71-131			
1,1,2-Trichloroethane	24.6	0.50	ug/l	25.0		98	70-130			
Trichloroethene	22.7	0.50	ug/l	25.0		91	70-130			
Trichlorofluoromethane	24.1	0.50	ug/l	25.0		96	69-150			
1,2,3-Trichloropropane	29.2	2.0	ug/l	25.0		117	70-130			
1,2,4-Trimethylbenzene	24.4	0.50	ug/l	25.0		97	70-130			
1,3,5-Trimethylbenzene	23.9	0.50	ug/l	25.0		95	70-130			
Vinyl Acetate	42.8	2.0	ug/l	25.0		171	67-148			L3, N1a
Vinyl chloride	22.9	0.50	ug/l	25.0		91	65-137			
Xylenes, Total	47.1	1.5	ug/l	50.0		94	70-130			
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	25.1		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	70-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
LCS Dup Analyzed: 03/31/2013 (13C1253-BSD1)										
Acetone	29.4	10	ug/l	25.0		118	38-150	22	35	
Benzene	23.8	0.50	ug/l	25.0		95	70-130	5	20	
Bromobenzene	22.7	0.50	ug/l	25.0		91	70-130	4	20	
Bromochloromethane	25.6	0.50	ug/l	25.0		102	70-130	5	20	
Bromodichloromethane	23.7	0.50	ug/l	25.0		95	70-130	5	20	
Bromoform	24.1	1.0	ug/l	25.0		96	69-129	1	20	
Bromomethane	21.9	1.0	ug/l	25.0		88	57-138	0.09	20	
2-Butanone (MEK)	29.3	5.0	ug/l	25.0		117	53-150	28	35	
n-Butylbenzene	23.4	0.50	ug/l	25.0		94	70-130	0.4	20	
sec-Butylbenzene	23.5	0.50	ug/l	25.0		94	70-130	0.8	20	
tert-Butylbenzene	23.5	0.50	ug/l	25.0		94	70-130	2	20	
Carbon disulfide	20.4	1.0	ug/l	25.0		82	64-145	0.6	33	
Carbon tetrachloride	23.0	0.50	ug/l	25.0		92	70-143	3	20	
Chlorobenzene	23.1	0.50	ug/l	25.0		92	70-130	3	20	
Chloroethane	23.3	1.0	ug/l	25.0		93	66-131	3	20	
Chloroform	24.3	0.50	ug/l	25.0		97	70-130	2	20	
Chloromethane	22.1	1.0	ug/l	25.0		89	56-129	0.5	20	
2-Chlorotoluene	23.0	0.50	ug/l	25.0		92	70-130	4	20	
4-Chlorotoluene	22.4	0.50	ug/l	25.0		90	70-130	4	20	
Dibromochloromethane	24.3	0.50	ug/l	25.0		97	70-130	5	20	
1,2-Dibromo-3-chloropropane	34.2	5.0	ug/l	25.0		137	63-146	7	22	VI
1,2-Dibromoethane (EDB)	24.9	0.50	ug/l	25.0		100	70-130	2	20	
Dibromomethane	25.4	0.50	ug/l	25.0		101	70-130	7	20	
1,2-Dichlorobenzene	23.9	0.50	ug/l	25.0		96	70-130	4	20	
1,3-Dichlorobenzene	23.3	0.50	ug/l	25.0		93	70-130	2	20	
1,4-Dichlorobenzene	22.3	0.50	ug/l	25.0		89	70-130	3	20	
Dichlorodifluoromethane	18.2	0.50	ug/l	25.0		73	46-144	1	23	
1,1-Dichloroethane	24.1	0.50	ug/l	25.0		96	70-130	2	20	
1,2-Dichloroethane	25.8	0.50	ug/l	25.0		103	66-139	5	20	
1,1-Dichloroethene	22.6	0.50	ug/l	25.0		90	63-131	0.04	22	
cis-1,2-Dichloroethene	24.6	0.50	ug/l	25.0		98	70-130	3	20	
trans-1,2-Dichloroethene	24.1	0.50	ug/l	25.0		96	69-127	4	20	
1,2-Dichloropropane	24.3	0.50	ug/l	25.0		97	70-130	8	20	
1,3-Dichloropropane	24.7	0.50	ug/l	25.0		99	70-130	5	20	
2,2-Dichloropropane	23.0	1.0	ug/l	25.0		92	69-139	2	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
LCS Dup Analyzed: 03/31/2013 (13C1253-BSD1)										
1,1-Dichloropropene	22.4	0.50	ug/l	25.0		90	70-130	6	20	
cis-1,3-Dichloropropene	26.0	0.50	ug/l	25.0		104	70-130	7	20	
trans-1,3-Dichloropropene	23.3	0.50	ug/l	25.0		93	70-130	4	20	
Ethylbenzene	24.0	0.50	ug/l	25.0		96	70-130	1	20	
Hexachlorobutadiene	26.7	1.0	ug/l	25.0		107	76-145	6	20	
2-Hexanone	32.9	5.0	ug/l	25.0		132	55-150	23	35	
Iodomethane	21.8	2.5	ug/l	25.0		87	70-130	0.7	20	
Isopropylbenzene	24.7	0.50	ug/l	25.0		99	88-141	4	20	
p-Isopropyltoluene	22.6	0.50	ug/l	25.0		91	70-130	0.8	20	
Methylene Chloride	22.1	1.0	ug/l	25.0		89	63-128	3	21	
4-Methyl-2-pentanone (MIBK)	29.3	2.5	ug/l	25.0		117	64-142	15	25	
Methyl-tert-butyl Ether (MTBE)	25.2	0.50	ug/l	25.0		101	70-130	5	20	
Naphthalene	24.9	2.5	ug/l	25.0		100	78-143	4	20	
n-Propylbenzene	23.7	0.50	ug/l	25.0		95	70-130	2	20	
Styrene	20.6	0.50	ug/l	25.0		83	70-130	2	20	
1,1,1,2-Tetrachloroethane	23.3	0.50	ug/l	25.0		93	70-130	2	20	
1,1,2,2-Tetrachloroethane	24.5	0.50	ug/l	25.0		98	70-130	5	20	
Tetrachloroethene	21.5	0.50	ug/l	25.0		86	70-130	1	20	
Toluene	24.5	0.50	ug/l	25.0		98	70-130	4	20	
1,2,3-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	79-139	4	20	
1,2,4-Trichlorobenzene	21.8	1.0	ug/l	25.0		87	80-137	1	20	
1,1,1-Trichloroethane	23.2	0.50	ug/l	25.0		93	71-131	0.09	20	
1,1,2-Trichloroethane	24.6	0.50	ug/l	25.0		99	70-130	0.04	20	
Trichloroethene	23.5	0.50	ug/l	25.0		94	70-130	4	20	
Trichlorofluoromethane	24.4	0.50	ug/l	25.0		98	69-150	1	22	
1,2,3-Trichloropropane	26.1	2.0	ug/l	25.0		104	70-130	11	20	
1,2,4-Trimethylbenzene	22.9	0.50	ug/l	25.0		92	70-130	6	20	
1,3,5-Trimethylbenzene	23.5	0.50	ug/l	25.0		94	70-130	2	20	
Vinyl Acetate	41.2	2.0	ug/l	25.0		165	67-148	4	22	L3, N1a
Vinyl chloride	23.6	0.50	ug/l	25.0		94	65-137	3	20	
Xylenes, Total	48.4	1.5	ug/l	50.0		97	70-130	3	20	
Surrogate: Dibromofluoromethane	26.2		ug/l	25.0		105	70-130			
Surrogate: Toluene-d8	25.9		ug/l	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		ug/l	25.0		102	70-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Matrix Spike Analyzed: 03/31/2013 (13C1253-MS1)					Source: PWC1916-02					
Acetone	16.3	10	ug/l	25.0	ND	65	29-139			
Benzene	24.5	0.50	ug/l	25.0	ND	98	68-131			
Bromobenzene	22.8	0.50	ug/l	25.0	ND	91	70-130			
Bromochloromethane	25.1	0.50	ug/l	25.0	ND	100	64-132			
Bromodichloromethane	23.6	0.50	ug/l	25.0	ND	94	63-138			
Bromoform	22.4	1.0	ug/l	25.0	ND	90	60-128			
Bromomethane	21.2	1.0	ug/l	25.0	ND	85	47-144			
2-Butanone (MEK)	17.8	5.0	ug/l	25.0	ND	71	31-143			
n-Butylbenzene	25.5	0.50	ug/l	25.0	ND	102	69-140			
sec-Butylbenzene	25.7	0.50	ug/l	25.0	ND	103	72-136			
tert-Butylbenzene	25.5	0.50	ug/l	25.0	ND	102	74-135			
Carbon disulfide	20.7	1.0	ug/l	25.0	ND	83	45-150			
Carbon tetrachloride	24.4	0.50	ug/l	25.0	ND	98	65-147			
Chlorobenzene	24.0	0.50	ug/l	25.0	ND	96	70-130			
Chloroethane	23.0	1.0	ug/l	25.0	ND	92	57-139			
Chloroform	24.8	0.50	ug/l	25.0	0.170	99	63-131			
Chloromethane	20.1	1.0	ug/l	25.0	ND	81	47-134			
2-Chlorotoluene	24.0	0.50	ug/l	25.0	ND	96	71-131			
4-Chlorotoluene	23.0	0.50	ug/l	25.0	ND	92	70-130			
Dibromochloromethane	24.1	0.50	ug/l	25.0	ND	96	65-134			
1,2-Dibromo-3-chloropropane	28.9	5.0	ug/l	25.0	ND	116	53-145			VI
1,2-Dibromoethane (EDB)	24.0	0.50	ug/l	25.0	ND	96	70-130			
Dibromomethane	24.1	0.50	ug/l	25.0	ND	96	66-136			
1,2-Dichlorobenzene	24.4	0.50	ug/l	25.0	ND	97	70-130			
1,3-Dichlorobenzene	23.8	0.50	ug/l	25.0	ND	95	70-130			
1,4-Dichlorobenzene	23.2	0.50	ug/l	25.0	ND	93	70-130			
Dichlorodifluoromethane	17.0	0.50	ug/l	25.0	ND	68	40-148			
1,1-Dichloroethane	24.1	0.50	ug/l	25.0	ND	96	62-130			
1,2-Dichloroethane	25.5	0.50	ug/l	25.0	ND	102	54-147			
1,1-Dichloroethene	23.2	0.50	ug/l	25.0	ND	93	57-137			
cis-1,2-Dichloroethene	24.3	0.50	ug/l	25.0	ND	97	65-127			
trans-1,2-Dichloroethene	24.0	0.50	ug/l	25.0	ND	96	62-131			
1,2-Dichloropropane	23.7	0.50	ug/l	25.0	ND	95	68-126			
1,3-Dichloropropane	25.4	0.50	ug/l	25.0	ND	102	68-129			
2,2-Dichloropropane	23.4	1.0	ug/l	25.0	ND	94	60-146			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Matrix Spike Analyzed: 03/31/2013 (13C1253-MS1)					Source: PWC1916-02					
1,1-Dichloropropene	22.8	0.50	ug/l	25.0	ND	91	64-134			
cis-1,3-Dichloropropene	24.8	0.50	ug/l	25.0	ND	99	63-135			
trans-1,3-Dichloropropene	21.9	0.50	ug/l	25.0	ND	88	58-136			
Ethylbenzene	25.4	0.50	ug/l	25.0	ND	102	74-134			
Hexachlorobutadiene	29.2	1.0	ug/l	25.0	ND	117	69-150			
2-Hexanone	22.9	5.0	ug/l	25.0	ND	91	40-142			
Iodomethane	21.7	2.5	ug/l	25.0	ND	87	53-150			
Isopropylbenzene	26.7	0.50	ug/l	25.0	ND	107	80-146			
p-Isopropyltoluene	24.2	0.50	ug/l	25.0	ND	97	70-133			
Methylene Chloride	21.6	1.0	ug/l	25.0	ND	86	55-133			
4-Methyl-2-pentanone (MIBK)	24.0	2.5	ug/l	25.0	ND	96	52-143			
Methyl-tert-butyl Ether (MTBE)	23.4	0.50	ug/l	25.0	ND	94	67-138			
Naphthalene	22.6	2.5	ug/l	25.0	ND	91	67-146			
n-Propylbenzene	24.8	0.50	ug/l	25.0	ND	99	74-140			
Styrene	20.9	0.50	ug/l	25.0	ND	84	43-144			
1,1,1,2-Tetrachloroethane	24.4	0.50	ug/l	25.0	ND	97	70-130			
1,1,2,2-Tetrachloroethane	23.7	0.50	ug/l	25.0	ND	95	63-137			
Tetrachloroethene	23.3	0.50	ug/l	25.0	ND	93	67-131			
Toluene	25.4	0.50	ug/l	25.0	0.300	101	65-138			
1,2,3-Trichlorobenzene	23.9	1.0	ug/l	25.0	ND	96	74-139			
1,2,4-Trichlorobenzene	21.9	1.0	ug/l	25.0	ND	88	74-138			
1,1,1-Trichloroethane	24.2	0.50	ug/l	25.0	ND	97	64-138			
1,1,2-Trichloroethane	24.8	0.50	ug/l	25.0	ND	99	63-132			
Trichloroethene	25.5	0.50	ug/l	25.0	1.08	98	66-132			
Trichlorofluoromethane	25.2	0.50	ug/l	25.0	ND	101	62-150			
1,2,3-Trichloropropane	24.3	2.0	ug/l	25.0	ND	97	68-130			
1,2,4-Trimethylbenzene	24.5	0.50	ug/l	25.0	ND	98	63-135			
1,3,5-Trimethylbenzene	24.6	0.50	ug/l	25.0	ND	98	66-137			
Vinyl Acetate	39.5	2.0	ug/l	25.0	ND	158	47-150			NI, NIa
Vinyl chloride	22.2	0.50	ug/l	25.0	ND	89	55-146			
Xylenes, Total	52.7	1.5	ug/l	50.0	ND	105	68-131			
Surrogate: Dibromofluoromethane	25.6		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		ug/l	25.0		106	70-130			

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Matrix Spike Dup Analyzed: 03/31/2013 (13C1253-MSD1)					Source: PWC1916-02					
Acetone	16.0	10	ug/l	25.0	ND	64	29-139	2	35	
Benzene	22.2	0.50	ug/l	25.0	ND	89	68-131	10	32	
Bromobenzene	22.1	0.50	ug/l	25.0	ND	88	70-130	3	28	
Bromochloromethane	23.9	0.50	ug/l	25.0	ND	96	64-132	5	35	
Bromodichloromethane	22.7	0.50	ug/l	25.0	ND	91	63-138	4	31	
Bromoform	23.5	1.0	ug/l	25.0	ND	94	60-128	5	31	
Bromomethane	19.7	1.0	ug/l	25.0	ND	79	47-144	7	35	
2-Butanone (MEK)	16.7	5.0	ug/l	25.0	ND	67	31-143	6	35	
n-Butylbenzene	23.7	0.50	ug/l	25.0	ND	95	69-140	7	32	
sec-Butylbenzene	24.1	0.50	ug/l	25.0	ND	96	72-136	6	33	
tert-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	74-135	8	32	
Carbon disulfide	18.8	1.0	ug/l	25.0	ND	75	45-150	10	35	
Carbon tetrachloride	22.3	0.50	ug/l	25.0	ND	89	65-147	9	35	
Chlorobenzene	22.4	0.50	ug/l	25.0	ND	90	70-130	7	30	
Chloroethane	21.4	1.0	ug/l	25.0	ND	86	57-139	7	35	
Chloroform	23.7	0.50	ug/l	25.0	0.170	94	63-131	5	33	
Chloromethane	19.0	1.0	ug/l	25.0	ND	76	47-134	6	35	
2-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	71-131	5	29	
4-Chlorotoluene	22.2	0.50	ug/l	25.0	ND	89	70-130	3	28	
Dibromochloromethane	23.6	0.50	ug/l	25.0	ND	94	65-134	2	33	
1,2-Dibromo-3-chloropropane	30.0	5.0	ug/l	25.0	ND	120	53-145	4	35	VI
1,2-Dibromoethane (EDB)	24.0	0.50	ug/l	25.0	ND	96	70-130	0.3	33	
Dibromomethane	23.4	0.50	ug/l	25.0	ND	93	66-136	3	35	
1,2-Dichlorobenzene	23.4	0.50	ug/l	25.0	ND	93	70-130	4	27	
1,3-Dichlorobenzene	22.5	0.50	ug/l	25.0	ND	90	70-130	6	28	
1,4-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-130	2	26	
Dichlorodifluoromethane	15.9	0.50	ug/l	25.0	ND	63	40-148	7	35	
1,1-Dichloroethane	23.3	0.50	ug/l	25.0	ND	93	62-130	3	34	
1,2-Dichloroethane	24.4	0.50	ug/l	25.0	ND	98	54-147	4	35	
1,1-Dichloroethene	21.3	0.50	ug/l	25.0	ND	85	57-137	9	35	
cis-1,2-Dichloroethene	23.2	0.50	ug/l	25.0	ND	93	65-127	5	34	
trans-1,2-Dichloroethene	22.3	0.50	ug/l	25.0	ND	89	62-131	7	35	
1,2-Dichloropropane	22.7	0.50	ug/l	25.0	ND	91	68-126	5	32	
1,3-Dichloropropane	22.8	0.50	ug/l	25.0	ND	91	68-129	11	33	
2,2-Dichloropropane	21.5	1.0	ug/l	25.0	ND	86	60-146	8	35	

TestAmerica Phoenix

Linda Eshelman
Project Manager

Hydro Geo Chem-Tucson
51 W. Wetmore Rd., Suite 101
Tucson, AZ 85706
Attention: Abra Bentley

Project ID: 7th & Arizona

Report Number: PWC1584

Sampled: 03/22/13

Received: 03/23/13

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 13C1253 Extracted: 03/31/13										
Matrix Spike Dup Analyzed: 03/31/2013 (13C1253-MSD1)					Source: PWC1916-02					
1,1-Dichloropropene	20.8	0.50	ug/l	25.0	ND	83	64-134	9	34	
cis-1,3-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	63-135	4	35	
trans-1,3-Dichloropropene	21.6	0.50	ug/l	25.0	ND	87	58-136	1	35	
Ethylbenzene	23.1	0.50	ug/l	25.0	ND	92	74-134	10	32	
Hexachlorobutadiene	25.4	1.0	ug/l	25.0	ND	102	69-150	14	32	
2-Hexanone	22.9	5.0	ug/l	25.0	ND	92	40-142	0.3	35	
Iodomethane	20.3	2.5	ug/l	25.0	ND	81	53-150	7	35	
Isopropylbenzene	24.9	0.50	ug/l	25.0	ND	100	80-146	7	32	
p-Isopropyltoluene	22.1	0.50	ug/l	25.0	ND	89	70-133	9	32	
Methylene Chloride	20.4	1.0	ug/l	25.0	ND	82	55-133	5	35	
4-Methyl-2-pentanone (MIBK)	26.2	2.5	ug/l	25.0	ND	105	52-143	9	35	
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	ug/l	25.0	ND	97	67-138	4	21	
Naphthalene	21.7	2.5	ug/l	25.0	ND	87	67-146	4	29	
n-Propylbenzene	23.8	0.50	ug/l	25.0	ND	95	74-140	4	32	
Styrene	19.6	0.50	ug/l	25.0	ND	78	43-144	6	35	
1,1,1,2-Tetrachloroethane	23.2	0.50	ug/l	25.0	ND	93	70-130	5	30	
1,1,2,2-Tetrachloroethane	24.2	0.50	ug/l	25.0	ND	97	63-137	2	32	
Tetrachloroethene	21.2	0.50	ug/l	25.0	ND	85	67-131	9	31	
Toluene	23.3	0.50	ug/l	25.0	0.300	92	65-138	9	33	
1,2,3-Trichlorobenzene	21.8	1.0	ug/l	25.0	ND	87	74-139	9	26	
1,2,4-Trichlorobenzene	20.4	1.0	ug/l	25.0	ND	81	74-138	7	26	
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	64-138	7	35	
1,1,2-Trichloroethane	24.4	0.50	ug/l	25.0	ND	98	63-132	2	35	
Trichloroethene	23.5	0.50	ug/l	25.0	1.08	90	66-132	8	29	
Trichlorofluoromethane	22.8	0.50	ug/l	25.0	ND	91	62-150	10	35	
1,2,3-Trichloropropane	25.5	2.0	ug/l	25.0	ND	102	68-130	5	32	
1,2,4-Trimethylbenzene	23.7	0.50	ug/l	25.0	ND	95	63-135	3	31	
1,3,5-Trimethylbenzene	23.8	0.50	ug/l	25.0	ND	95	66-137	3	30	
Vinyl Acetate	39.2	2.0	ug/l	25.0	ND	157	47-150	0.6	35	NI, NIa
Vinyl chloride	20.4	0.50	ug/l	25.0	ND	81	55-146	9	35	
Xylenes, Total	46.6	1.5	ug/l	50.0	ND	93	68-131	12	31	
Surrogate: Dibromofluoromethane	25.4		ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	24.9		ug/l	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		ug/l	25.0		103	70-130			

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DATA QUALIFIERS AND DEFINITIONS

- L3** The associated blank spike recovery was above method acceptance limits.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- N1** See case narrative.
- V1** CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

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Project Manager

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