



**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

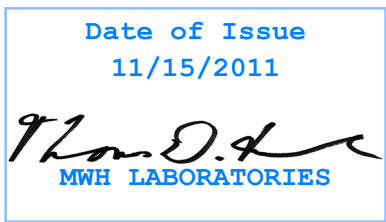
750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

City of Phoenix  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Attention: Jesus Paez



TDF: Thomas.D.French  
Project Manager



Report#: 379346  
Project: SR85  
ADHS License# AZ0455  
Group: SR85-2011-4

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

**MWH****LABORATORIES****STATE CERTIFICATION LIST**

<b>State</b>	<b>Certification Number</b>	<b>State</b>	<b>Certification Number</b>
<b>Alabama</b>	41060	<b>Mississippi</b>	Certified
<b>Alaska</b>	CA00006	<b>Montana</b>	Cert 0035
<b>Arizona</b>	AZ0455	<b>Nevada</b>	CA00006-2010-1
<b>Arkansas</b>	Certified	<b>New Hampshire</b>	2959-11
<b>California – NELAP</b>	01114CA	<b>New Jersey</b>	CA 008
<b>California – ELAP</b>	1422	<b>New Mexico</b>	Certified
<b>Colorado</b>	Certified	<b>New York</b>	11320
<b>Connecticut</b>	PH-0107	<b>North Carolina</b>	06701
<b>Delaware</b>	CA 006	<b>North Dakota</b>	R-009
<b>Florida</b>	E871024	<b>Oregon</b>	CA 200003-009
<b>Georgia</b>	947	<b>Pennsylvania</b>	68-565
<b>Guam</b>	11-004r	<b>Rhode Island</b>	01114CA
<b>Hawaii</b>	Certified	<b>South Carolina</b>	87016001
<b>Idaho</b>	Certified	<b>South Dakota</b>	Certified
<b>Illinois</b>	200033	<b>Tennessee</b>	TN02839
<b>Indiana</b>	C-CA-01	<b>Texas</b>	T104704230-11-2
<b>Kansas</b>	E-10268	<b>Utah</b>	Mont-1
<b>Kentucky</b>	90107	<b>Vermont</b>	VT0114
<b>Louisiana</b>	LA110022	<b>Virginia</b>	00210
<b>Maine</b>	CA0006	<b>Washington</b>	C383
<b>Maryland</b>	224	<b>West Virginia</b>	9943 C
<b>Commonwealth of Northern Marianas Is.</b>	MP0004	<b>Wisconsin</b>	998316660
<b>Massachusetts</b>	M-CA006	<b>Wyoming</b>	8TMS-L
<b>Michigan</b>	9906	<b>EPA Region 5</b>	Certified



**Acknowledgement of Samples Received**

**City of Phoenix**

Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810  
Attn: Jesus Paez  
Phone: (602) 534 6655

Customer Code: PHOENIX-LF

Folder #: 379346

Project: SR85

Sample Group: SR85-2011-4

Project Manager: Thomas.D.French

Phone: (480) 778-1558

The following samples were received from you on **October 20, 2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date																		
<u>201110200137</u>	85A-411 Sample Type: FO Variable ID: MW-1	Oct 20, 2011 10:01																		
	<table border="1"> <tr> <td>@504</td> <td>@VOA</td> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Arsenic Total ICAP/MS</td> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> <td>Chloride</td> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> <td>Fluoride</td> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> <td>Nitrate as N by RFA Low Level</td> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> <td>Total Dissolved Solid (TDS)</td> <td>Zinc Total ICAP/MS</td> </tr> </table>	@504	@VOA	Mercury	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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<u>201110200138</u>	85A-411 MS Sample Type: QC Variable ID: MW-1	Oct 20, 2011 10:01																		
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<u>201110200140</u>	85A-411 DUP Sample Type: QC Variable ID: MW-1	Oct 20, 2011 10:01																		
	Total Dissolved Solid (TDS)																			
<u>201110200141</u>	85ATB-411 Sample Type: TB Variable ID: MW-1	Oct 20, 2011 10:01																		
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<u>201110200142</u>	85B-411 Sample Type: FO Variable ID: MW-2	Oct 20, 2011 11:15																		

### Acknowledgement of Samples Received

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Public Works/Disposal  
 3060 South 27th Avenue  
 Phoenix, AZ 85009-6810  
 Attn: Jesus Paez  
 Phone: (602) 534 6655

Customer Code: PHOENIX-LF  
 Folder #: 379346  
 Project: SR85  
 Sample Group: SR85-2011-4  
 Project Manager: Thomas.D.French  
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201110200144	85D-411 Sample Type: FB Variable ID: MW-3	Oct 20, 2011 12:37																		
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201110200145	85DTB-411 Sample Type: TB Variable ID: MW-3	Oct 20, 2011 12:37																		
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201110200146	85E-411 Sample Type: FO Variable ID: MW-3	Oct 20, 2011 12:37																		
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201110200147	85F-411	Oct 20, 2011 13:19																		
	Sample Type: FO Variable ID: MW-4																			
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**Test Description**

@504 -- EPA Method 504.1

@VOA -- Volatile Organics by GCMS

@504 -- EPA Method 504.1

@VOA -- Volatile Organics by GCMS



# MWH Laboratories

A Division of MWH Americas, Inc.

# CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100  
 Monrovia, California 91016-3629  
 Tel: 626 386 1100  
 Fax: 626 386 1101  
 1 800 566 LABS (1 800 566 5227)

MWH LABS USE ONLY:

LOGIN COMMENTS: \_\_\_\_\_

SAMPLES CHECKED AGAINST COC BY: \_\_\_\_\_

SAMPLES LOGGED IN BY: \_\_\_\_\_

SAMPLES REC'D DAY OF COLLECTION?  (check for yes)

SAMPLE TEMP RECEIVED AT: \_\_\_\_\_ °C (Compliance: 4 ± 2 °C)

Colton / Sacramento / Scottsdale  
 Monrovia 2-2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: FROZEN \_\_\_\_\_ PARTIALLY FROZEN \_\_\_\_\_ THAWED \_\_\_\_\_ WET ICE \_\_\_\_\_ NO ICE \_\_\_\_\_

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

379346

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CITY OF PHOENIX

PROJECT CODE: SR-95 LF

MWH LABS CLIENT CODE: PHOENIX-LF

COC ID: \_\_\_\_\_

SAMPLER PRINTED NAME AND SIGNATURE: JESUS PAEZ

TAT requested: rush by adv notice only

STD: 1 wk 3 day 2 day 1 day

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	Field Data	Field Data
10/20/11	11:55	85A-411	RGW	RGW	QC	WELL ID
"	"	85B-411	"	"	FO	"
"	"	85C-411	"	"	FD	"
"	"	85D-411	"	"	FB	"
"	"	85E-411	"	"	FO	"
"	"	85F-411	"	"	FO	"

COMPLIANCE SAMPLES: \_\_\_\_\_ (check for yes)

NON-COMPLIANCE SAMPLES: \_\_\_\_\_ (check for yes)

REGULATION INVOLVED: \_\_\_\_\_ (eg. SDWA, Phase V, NPDES, FDA, ...)

Type of samples (circle one): ROUTINE \_\_\_\_\_ SPECIAL \_\_\_\_\_ CONFIRMATION \_\_\_\_\_

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes) OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLER COMMENTS:

\* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil  
 RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge  
 O = Other - Please Identify

RELINQUISHED BY: \_\_\_\_\_ SIGNATURE: JESUS PAEZ PRINT NAME: JESUS PAEZ COMPANY/TITLE: COP DATE: 10/20/11 TIME: 1435

RECEIVED BY: \_\_\_\_\_ SIGNATURE: JESUS PAEZ PRINT NAME: JESUS PAEZ COMPANY/TITLE: MWD DATE: 10/21/11 TIME: 1435

RELINQUISHED BY: \_\_\_\_\_ SIGNATURE: STEVE WICHIBANK PRINT NAME: STEVE WICHIBANK COMPANY/TITLE: MWD DATE: 10/24/11 TIME: 1700

RECEIVED BY: \_\_\_\_\_ SIGNATURE: SALVADOR MORA PRINT NAME: SALVADOR MORA COMPANY/TITLE: MWD DATE: 10/24/11 TIME: 1130

PAGE \_\_\_\_\_ OF \_\_\_\_\_



**MWH**

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City of Phoenix  
Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

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**Laboratory Comments**  
**Report: #379346**



# MWH

## LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 379346

**City of Phoenix**  
Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
<b>201110200137      85A-411</b>						
10/25/2011	20:07	Alkalinity in CaCO3 units	150		mg/L	2
10/25/2011	14:37	Arsenic Total ICAP/MS	15	10	ug/L	1
10/25/2011	14:37	Barium Total ICAP/MS	68	2000	ug/L	2
10/27/2011	11:52	Chloride	2100	250	mg/L	100
10/25/2011	14:37	Chromium Total ICAP/MS	6.9	100	ug/L	1
10/27/2011	13:08	Fluoride	0.48	4	mg/L	0.05
10/25/2011	14:37	Nickel Total ICAP/MS	6.9		ug/L	5
10/28/2011	14:05	Nitrate as N by RFA Low Level	23		mg/L	0.75
10/25/2011	14:37	Selenium Total ICAP/MS	9.9	50	ug/L	5
10/25/2011	12:47	Total Dissolved Solids (TDS)	5000	500	mg/L	10
10/25/2011	14:37	Zinc Total ICAP/MS	32	5000	ug/L	20
<b>201110200140      85A-411 DUP</b>						
10/25/2011	13:09	Total Dissolved Solids (TDS)	5000	500	mg/L	10
<b>201110200142      85B-411</b>						
10/25/2011	20:34	Alkalinity in CaCO3 units	95		mg/L	2
10/25/2011	14:49	Arsenic Total ICAP/MS	10	10	ug/L	1
10/25/2011	14:49	Barium Total ICAP/MS	59	2000	ug/L	2
10/25/2011	17:01	Chloride	1400	250	mg/L	50
10/25/2011	14:49	Chromium Total ICAP/MS	6.9	100	ug/L	1
10/27/2011	13:27	Fluoride	2.6	4	mg/L	0.05
10/25/2011	14:49	Nickel Total ICAP/MS	14		ug/L	5
10/28/2011	14:11	Nitrate as N by RFA Low Level	11		mg/L	0.15
10/25/2011	14:49	Selenium Total ICAP/MS	7.6	50	ug/L	5
10/25/2011	12:49	Total Dissolved Solids (TDS)	3600	500	mg/L	10
<b>201110200143      85C-411</b>						
10/25/2011	20:41	Alkalinity in CaCO3 units	95		mg/L	2
10/25/2011	15:05	Arsenic Total ICAP/MS	10	10	ug/L	1
10/25/2011	15:05	Barium Total ICAP/MS	58	2000	ug/L	2
10/25/2011	17:14	Chloride	1400	250	mg/L	50
10/25/2011	15:05	Chromium Total ICAP/MS	6.4	100	ug/L	1
10/27/2011	13:33	Fluoride	2.6	4	mg/L	0.05
10/25/2011	15:05	Nickel Total ICAP/MS	9.4		ug/L	5
10/28/2011	14:13	Nitrate as N by RFA Low Level	11		mg/L	0.15





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10/20/2011

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
10/25/2011	15:05	Selenium Total ICAP/MS	7.2	50	ug/L	5
10/25/2011	12:50	Total Dissolved Solids (TDS)	3600	500	mg/L	10
		<b>201110200146</b>				
		<b><u>85E-411</u></b>				
10/25/2011	20:57	Alkalinity in CaCO3 units	98		mg/L	2
10/25/2011	15:14	Arsenic Total ICAP/MS	10	10	ug/L	1
10/25/2011	15:14	Barium Total ICAP/MS	48	2000	ug/L	2
10/25/2011	17:26	Chloride	790	250	mg/L	25
10/25/2011	15:14	Chromium Total ICAP/MS	9.7	100	ug/L	1
10/27/2011	13:49	Fluoride	4.3	4	mg/L	0.05
10/28/2011	14:22	Nitrate as N by RFA Low Level	2.1		mg/L	0.15
10/25/2011	12:51	Total Dissolved Solids (TDS)	1600	500	mg/L	10
		<b>201110200147</b>				
		<b><u>85F-411</u></b>				
10/25/2011	21:05	Alkalinity in CaCO3 units	110		mg/L	2
10/25/2011	15:18	Arsenic Total ICAP/MS	8.4	10	ug/L	1
10/25/2011	15:18	Barium Total ICAP/MS	59	2000	ug/L	2
10/25/2011	22:18	Chloride	950	250	mg/L	25
10/25/2011	15:18	Chromium Total ICAP/MS	6.6	100	ug/L	1
10/27/2011	13:56	Fluoride	2.6	4	mg/L	0.05
10/25/2011	15:18	Nickel Total ICAP/MS	11		ug/L	5
10/28/2011	14:24	Nitrate as N by RFA Low Level	6.4		mg/L	0.15
10/25/2011	12:52	Total Dissolved Solids (TDS)	2500	500	mg/L	10



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10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>85A-411 (201110200137)</b>						<b>Sampled on 10/20/2011 1001</b>		
Sample Type: FO Variable ID: MW-1								
<b>EPA 200.8 - ICPMS Metals</b>								
10/25/2011	14:37	624318	(EPA 200.8)	Arsenic Total ICAP/MS	15	ug/L	1	1
10/25/2011	14:37	624318	(EPA 200.8)	Barium Total ICAP/MS	68	ug/L	2	1
10/25/2011	14:37	624318	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:37	624318	(EPA 200.8)	Chromium Total ICAP/MS	6.9	ug/L	1	1
10/25/2011	14:37	624318	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
10/25/2011	14:37	624318	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:37	624318	(EPA 200.8)	Nickel Total ICAP/MS	6.9	ug/L	5	1
10/25/2011	14:37	624318	(EPA 200.8)	Selenium Total ICAP/MS	9.9	ug/L	5	1
10/26/2011	19:44	624601	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:37	624318	(EPA 200.8)	Zinc Total ICAP/MS	32	ug/L	20	1
<b>EPA 245.1 - Mercury</b>								
11/2/2011	11/02/2011	20:02	625424 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
<b>EPA 8011 - EPA Method 504.1</b>								
10/31/2011	10/31/2011	23:27	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	10/31/2011	23:27	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>								
10/27/2011	11:52	624641	(EPA 300.0)	Chloride	2100	mg/L	100	100
<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>								
10/28/2011	14:05	623853	(EPA 353.2)	Nitrate as N by RFA Low Level	23	mg/L	0.75	25
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/2/2011	11/02/2011	19:38	626153 (EPA 8260)	2-Hexanone	ND	ug/L	10	1

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10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Acetone	ND	ug/L	10	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/2/2011	11/02/2011	19:38	626153	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1

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Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	19:38 626153	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	19:38 626153	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/2/2011	11/02/2011	19:38 626153	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
<b>SM 4500F-C - Fluoride</b>								
	10/27/2011	13:08 624609	(SM 4500F-C)	Fluoride	0.48	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
	10/25/2011	20:07 624481	(SM 2320B)	Alkalinity in CaCO3 units	150	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	10/25/2011	12:47 624321	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5000	mg/L	10	1
<b>85A-411 MS (201110200138)</b>						<b>Sampled on 10/20/2011 1001</b>		
Sample Type: QC Variable ID: MW-1								
<b>EPA 200.8 - ICPMS Metals</b>								
	10/25/2011	14:41 624318	(EPA 200.8)	Arsenic Total ICAP/MS	99	%	1	1
	10/25/2011	14:41 624318	(EPA 200.8)	Barium Total ICAP/MS	96	%	2	1
	10/25/2011	14:41 624318	(EPA 200.8)	Cadmium Total ICAP/MS	92	%	0.5	1
	10/25/2011	14:41 624318	(EPA 200.8)	Chromium Total ICAP/MS	99	%	1	1
	10/25/2011	14:41 624318	(EPA 200.8)	Copper Total ICAP/MS	86	%	2	1
	10/25/2011	14:41 624318	(EPA 200.8)	Lead Total ICAP/MS	85	%	0.5	1
	10/25/2011	14:41 624318	(EPA 200.8)	Nickel Total ICAP/MS	85	%	5	1
	10/25/2011	14:41 624318	(EPA 200.8)	Selenium Total ICAP/MS	99	%	5	1
	10/26/2011	19:45 624601	(EPA 200.8)	Silver Total ICAP/MS	87	%	0.5	1
	10/25/2011	14:41 624318	(EPA 200.8)	Zinc Total ICAP/MS	84	%	20	1
<b>EPA 245.1 - Mercury</b>								
11/2/2011	11/02/2011	20:04 625424	(EPA 245.1)	Mercury	100	%	0.2	1
<b>EPA 8011 - EPA Method 504.1</b>								
10/31/2011	10/31/2011	23:52 625097	(EPA 8011)	Dibromochloropropane (DBCP)	121	%	0.01	1
10/31/2011	10/31/2011	23:52 625097	(EPA 8011)	Ethylene Dibromide (EDB)	110	%	0.01	1
<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>								
	10/27/2011	12:29 624641	(EPA 300.0)	Chloride	112	%	100	100
<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>								
	10/28/2011	14:07 623853	(EPA 353.2)	Nitrate as N by RFA Low Level	105	%	0.75	25
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/2/2011	11/02/2011	16:21 626153	(EPA 8260)	1,1,1,2-Tetrachloroethane	94	%	0.5	1
11/2/2011	11/02/2011	16:21 626153	(EPA 8260)	1,1,1-Trichloroethane	100	%	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	89	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,1,2-Trichloroethane	89	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,1-Dichloroethane	96	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,1-Dichloroethylene	100	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,2,3-Trichloropropane	91	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,2-Dichloroethane	94	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	1,2-Dichloropropane	89	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	2-Butanone (MEK)	90	%	5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	2-Hexanone	94	%	10	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	91	%	5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Acetone	83	%	10	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Acrylonitrile (Screen)	105	%	50	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Benzene	99	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Bromochloromethane	89	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Bromodichloromethane	91	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Bromoform	88	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Bromomethane (Methyl Bromide)	87	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Carbon disulfide	100	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Carbon Tetrachloride	102	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Chlorobenzene	97	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Chlorodibromomethane	92	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Chloroethane	98	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Chloroform (Trichloromethane)	95	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Chloromethane(Methyl Chloride)	88	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	cis-1,2-Dichloroethylene	92	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	cis-1,3-Dichloropropene	96	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Dibromomethane	91	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Dichloromethane	90	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Ethyl benzene	95	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Iodomethane	112	%	0.1	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	m,p-Xylenes	100	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	91	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	95	%	0.5	1
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	o-Xylene	97	%	0.5	1

Rounding on totals after summation.  
(c) - indicates calculated results



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1 800 566 LABS (1 800 566 5227)

Laboratory Data  
Report: 379346

### City of Phoenix

Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	96	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Styrene	72	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Tetrachloroethylene (PCE)	101	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Toluene	98	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Total xylenes	99	%	1	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	trans-1,2-Dichloroethylene	96	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	trans-1,3-Dichloropropene	92	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	trans-1,4-dichloro-2-butene	104	%	10	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Trichloroethylene (TCE)	101	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Trichlorofluoromethane	106	%	0.5	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Vinyl Acetate	76	%	10	1	
11/2/2011	11/02/2011	16:21	626153 (EPA 8260)	Vinyl chloride (VC)	104	%	0.3	1	
<b>SM 4500F-C - Fluoride</b>									
	10/27/2011	13:14	624609 (SM 4500F-C)	Fluoride	84	%	0.05	1	
<b>SM 2320B - Alkalinity in CaCO3 units</b>									
	10/25/2011	20:15	624481 (SM 2320B)	Alkalinity in CaCO3 units	87	%	2	1	
<b>85A-411 MSD (201110200139)</b>									
<b>Sampled on 10/20/2011 1001</b>									
Sample Type: QC									
Variable ID: MW-1									
<b>EPA 200.8 - ICPMS Metals</b>									
	10/25/2011	14:45	624318 (EPA 200.8)	Arsenic Total ICAP/MS	94	%	1	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Barium Total ICAP/MS	86	%	2	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Cadmium Total ICAP/MS	85	%	0.5	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Chromium Total ICAP/MS	95	%	1	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Copper Total ICAP/MS	83	%	2	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Lead Total ICAP/MS	80	%	0.5	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Nickel Total ICAP/MS	82	%	5	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Selenium Total ICAP/MS	96	%	5	1	
	10/26/2011	19:46	624601 (EPA 200.8)	Silver Total ICAP/MS	86	%	0.5	1	
	10/25/2011	14:45	624318 (EPA 200.8)	Zinc Total ICAP/MS	80	%	20	1	
<b>EPA 245.1 - Mercury</b>									
	11/2/2011	11/02/2011	20:07	625424 (EPA 245.1)	Mercury	101	%	0.2	1
<b>EPA 8011 - EPA Method 504.1</b>									
	10/31/2011	11/01/2011	00:16	625097 (EPA 8011)	Dibromochloropropane (DBCP)	117	%	0.01	1
	10/31/2011	11/01/2011	00:16	625097 (EPA 8011)	Ethylene Dibromide (EDB)	105	%	0.01	1

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Laboratory Data  
Report: 379346

### City of Phoenix

Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>								
	10/27/2011	12:41	624641 (EPA 300.0)	Chloride	113	%	100	100
<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>								
	10/28/2011	14:09	623853 (EPA 353.2)	Nitrate as N by RFA Low Level	95	%	0.75	25
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1,1,2-Tetrachloroethane	93	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1,1-Trichloroethane	103	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	90	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1,2-Trichloroethane	88	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1-Dichloroethane	98	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,1-Dichloroethylene	100	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,2,3-Trichloropropane	93	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,2-Dichloroethane	95	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	1,2-Dichloropropane	94	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	2-Butanone (MEK)	87	%	5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	2-Hexanone	92	%	10	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	90	%	5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Acetone	78	%	10	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Acrylonitrile (Screen)	96	%	50	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Benzene	100	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Bromochloromethane	92	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Bromodichloromethane	93	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Bromoform	92	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Bromomethane (Methyl Bromide)	89	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Carbon disulfide	100	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Carbon Tetrachloride	102	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Chlorobenzene	98	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Chlorodibromomethane	95	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Chloroethane	104	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Chloroform (Trichloromethane)	97	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Chloromethane(Methyl Chloride)	88	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	cis-1,2-Dichloroethylene	93	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	cis-1,3-Dichloropropene	95	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Dibromomethane	90	%	0.5	1

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Laboratory Data  
Report: 379346

### City of Phoenix

Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Dichloromethane	91	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Ethyl benzene	95	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Iodomethane	103	%	0.1	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	m,p-Xylenes	101	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	91	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	96	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	o-Xylene	98	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	101	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Styrene	70	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Tetrachloroethylene (PCE)	102	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Toluene	100	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Total xylenes	100	%	1	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	trans-1,2-Dichloroethylene	99	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	trans-1,3-Dichloropropene	94	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	trans-1,4-dichloro-2-butene	97	%	10	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Trichloroethylene (TCE)	102	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Trichlorofluoromethane	108	%	0.5	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Vinyl Acetate	71	%	10	1
11/2/2011	11/02/2011	16:43	626153 (EPA 8260)	Vinyl chloride (VC)	107	%	0.3	1

### SM 4500F-C - Fluoride

10/27/2011	13:20	624609	(SM 4500F-C)	Fluoride	86	%	0.05	1
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### SM 2320B - Alkalinity in CaCO3 units

10/25/2011	20:25	624481	(SM 2320B)	Alkalinity in CaCO3 units	81	%	2	1
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### 85A-411 DUP (201110200140)

Sampled on 10/20/2011 1001

Sample Type: QC  
Variable ID: MW-1

### E160.1/SM2540C - Total Dissolved Solids (TDS)

10/25/2011	10/25/2011	13:09	624321	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5000	mg/L	10	1
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### 85ATB-411 (201110200141)

Sampled on 10/20/2011 1001

Sample Type: TB  
Variable ID: MW-1

### EPA 8011 - EPA Method 504.1

10/31/2011	11/01/2011	00:40	625097	(EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	00:40	625097	(EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

### EPA 8260 - Volatile Organics by GCMS

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Laboratory Data  
Report: 379346

City of Phoenix

Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1

Rounding on totals after summation.  
(c) - indicates calculated results



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**Laboratory Data  
Report: 379346**

**City of Phoenix**  
Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2011	11/03/2011	10:39	625739 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

**85B-411 (201110200142)**

**Sampled on 10/20/2011 1115**

Sample Type: FO  
Variable ID: MW-2

**EPA 200.8 - ICPMS Metals**

10/25/2011	14:49	624318	(EPA 200.8)	Arsenic Total ICAP/MS	10	ug/L	1	1
10/25/2011	14:49	624318	(EPA 200.8)	Barium Total ICAP/MS	59	ug/L	2	1
10/25/2011	14:49	624318	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:49	624318	(EPA 200.8)	Chromium Total ICAP/MS	6.9	ug/L	1	1
10/25/2011	14:49	624318	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
10/25/2011	14:49	624318	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:49	624318	(EPA 200.8)	Nickel Total ICAP/MS	14	ug/L	5	1
10/25/2011	14:49	624318	(EPA 200.8)	Selenium Total ICAP/MS	7.6	ug/L	5	1
10/26/2011	19:46	624601	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	14:49	624318	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1

**EPA 245.1 - Mercury**

10/28/2011	10/29/2011	00:11	624981 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
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**EPA 8011 - EPA Method 504.1**

10/31/2011	11/01/2011	01:05	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	01:05	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

**EPA 300.0 - Chloride, Sulfate by EPA 300.0**

Rounding on totals after summation.  
(c) - indicates calculated results



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Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 379346

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/20/2011

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Chloride, Nitrate as N by RFA Low Level, and EPA 8260 - Volatile Organics by GCMS.

Rounding on totals after summation.
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Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Toluene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/2/2011	11/02/2011	20:00	626153 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
<b>SM 4500F-C - Fluoride</b>								
10/27/2011	13:27	624609	(SM 4500F-C)	Fluoride	2.6	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
10/25/2011	20:34	624481	(SM 2320B)	Alkalinity in CaCO3 units	95	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	10/25/2011	12:49	624321 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3600	mg/L	10	1

### 85C-411 (201110200143)

Sampled on 10/20/2011 1116

Sample Type: FD  
Variable ID: MW-2

#### EPA 200.8 - ICPMS Metals

10/25/2011	15:05	624318	(EPA 200.8)	Arsenic Total ICAP/MS	10	ug/L	1	1
10/25/2011	15:05	624318	(EPA 200.8)	Barium Total ICAP/MS	58	ug/L	2	1
10/25/2011	15:05	624318	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
10/25/2011	15:05	624318	(EPA 200.8)	Chromium Total ICAP/MS	6.4	ug/L	1	1
10/25/2011	15:05	624318	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
10/25/2011	15:05	624318	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1

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Laboratory Data  
Report: 379346

### City of Phoenix

Jesus Paez  
Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	10/25/2011	15:05	624318 (EPA 200.8)	Nickel Total ICAP/MS	9.4	ug/L	5	1
	10/25/2011	15:05	624318 (EPA 200.8)	Selenium Total ICAP/MS	7.2	ug/L	5	1
	10/26/2011	19:47	624601 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:05	624318 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
<b>EPA 245.1 - Mercury</b>								
10/28/2011	10/29/2011	00:08	624981 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
<b>EPA 8011 - EPA Method 504.1</b>								
10/31/2011	11/01/2011	01:29	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	01:29	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>								
	10/25/2011	17:14	624433 (EPA 300.0)	Chloride	1400	mg/L	50	50
<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>								
	10/28/2011	14:13	623853 (EPA 353.2)	Nitrate as N by RFA Low Level	11	mg/L	0.15	5
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Acetone	ND	ug/L	10	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1



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Laboratory Data  
Report: 379346

### City of Phoenix

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Public Works/Disposal  
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Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Toluene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/2/2011	11/02/2011	20:22	626153 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
<b>SM 4500F-C - Fluoride</b>								
10/27/2011	13:33	624609	(SM 4500F-C)	Fluoride	2.6	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
10/25/2011	20:41	624481	(SM 2320B)	Alkalinity in CaCO3 units	95	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	12:50	624321	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	3600	mg/L	10	1

Rounding on totals after summation.  
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Laboratory Data
Report: 379346

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/20/2011

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Includes sections for EPA 200.8 - ICPMS Metals, EPA 245.1 - Mercury, EPA 8011 - EPA Method 504.1, EPA 300.0 - Chloride, Sulfate by EPA 300.0, EPA 353.2 - Nitrate as N by RFA Low Level, and EPA 8260 - Volatile Organics by GCMS.

Rounding on totals after summation.
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City of Phoenix

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Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Acetone	ND	ug/L	10	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/2/2011	11/02/2011	20:44	626153	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1

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### City of Phoenix

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Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	20:44	626153 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	20:44	626153 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/2/2011	11/02/2011	20:44	626153 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
<b>SM 4500F-C - Fluoride</b>								
	10/27/2011	13:40	624609 (SM 4500F-C)	Fluoride	ND	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
	10/25/2011	20:49	624481 (SM 2320B)	Alkalinity in CaCO3 units	ND	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	10/25/2011	13:05	624321 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
<b>85DTB-411 (201110200145)</b>								
Sample Type: TB								
Variable ID: MW-3								
<b>EPA 8011 - EPA Method 504.1</b>								
10/31/2011	11/01/2011	02:18	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	02:18	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2011	11/03/2011	11:01	625739 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

Sampled on 10/20/2011 1237

Rounding on totals after summation.  
(c) - indicates calculated results



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 379346

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/20/2011

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains 30 rows of analytical data for various compounds like Carbon disulfide, Carbon Tetrachloride, Chlorobenzene, etc.

85E-411 (201110200146)

Sampled on 10/20/2011 1237

Sample Type: FO
Variable ID: MW-3

EPA 200.8 - ICPMS Metals

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Row 1: 10/25/2011 15:14 624318 (EPA 200.8) Arsenic Total ICAP/MS 10 ug/L 1 1

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Report: 379346

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Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	10/25/2011	15:14	624318 (EPA 200.8)	Barium Total ICAP/MS	48	ug/L	2	1
	10/25/2011	15:14	624318 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:14	624318 (EPA 200.8)	Chromium Total ICAP/MS	9.7	ug/L	1	1
	10/25/2011	15:14	624318 (EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
	10/25/2011	15:14	624318 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:14	624318 (EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
	10/25/2011	15:14	624318 (EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
	10/26/2011	19:48	624601 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:14	624318 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
	<b>EPA 245.1 - Mercury</b>							
11/2/2011	11/02/2011	20:15	625424 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
	<b>EPA 8011 - EPA Method 504.1</b>							
10/31/2011	11/01/2011	02:42	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	02:42	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
	<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>							
	10/25/2011	17:26	624433 (EPA 300.0)	Chloride	790	mg/L	25	25
	<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>							
	10/28/2011	14:22	623853 (EPA 353.2)	Nitrate as N by RFA Low Level	2.1	mg/L	0.15	5
	<b>EPA 8260 - Volatile Organics by GCMS</b>							
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	Acetone	ND	ug/L	10	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/2/2011	11/02/2011	21:06	626153 (EPA 8260)	Benzene	ND	ug/L	0.5	1

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Report: 379346

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Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Bromoform	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Chloroethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Dibromomethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Dichloromethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Iodomethane	ND	ug/L	0.1 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	o-Xylene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Styrene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Toluene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Total xylenes	ND	ug/L	1 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Vinyl Acetate	ND	ug/L	10 1
11/2/2011	11/02/2011	21:06	626153	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3 1

### SM 4500F-C - Fluoride

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Laboratory Data  
Report: 379346

### City of Phoenix

Jesus Paez  
Public Works/Disposal  
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Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	10/27/2011	13:49	624609 (SM 4500F-C)	Fluoride	4.3	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
	10/25/2011	20:57	624481 (SM 2320B)	Alkalinity in CaCO3 units	98	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	10/25/2011	12:51	624321 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1600	mg/L	10	1
<b>85F-411 (201110200147)</b>						<b>Sampled on 10/20/2011 1319</b>		
Sample Type: FO Variable ID: MW-4								
<b>EPA 200.8 - ICPMS Metals</b>								
	10/25/2011	15:18	624318 (EPA 200.8)	Arsenic Total ICAP/MS	8.4	ug/L	1	1
	10/25/2011	15:18	624318 (EPA 200.8)	Barium Total ICAP/MS	59	ug/L	2	1
	10/25/2011	15:18	624318 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:18	624318 (EPA 200.8)	Chromium Total ICAP/MS	6.6	ug/L	1	1
	10/25/2011	15:18	624318 (EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
	10/25/2011	15:18	624318 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:18	624318 (EPA 200.8)	Nickel Total ICAP/MS	11	ug/L	5	1
	10/25/2011	15:18	624318 (EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
	10/26/2011	19:49	624601 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	10/25/2011	15:18	624318 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
<b>EPA 245.1 - Mercury</b>								
10/28/2011	10/29/2011	00:09	624981 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
<b>EPA 8011 - EPA Method 504.1</b>								
10/31/2011	11/01/2011	03:06	625097 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/31/2011	11/01/2011	03:06	625097 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
<b>EPA 300.0 - Chloride, Sulfate by EPA 300.0</b>								
	10/25/2011	22:18	624435 (EPA 300.0)	Chloride	950	mg/L	25	25
<b>EPA 353.2 - Nitrate as N by RFA Low Level</b>								
	10/28/2011	14:24	623853 (EPA 353.2)	Nitrate as N by RFA Low Level	6.4	mg/L	0.15	5
<b>EPA 8260 - Volatile Organics by GCMS</b>								
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1

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Report: 379346

City of Phoenix  
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Public Works/Disposal  
3060 South 27th Avenue  
Phoenix, AZ 85009-6810

Samples Received on:  
10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Acetone	ND	ug/L	10	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Toluene	ND	ug/L	0.5	1

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10/20/2011

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/2/2011	11/02/2011	21:27	626153 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
<b>SM 4500F-C - Fluoride</b>								
	10/27/2011	13:56	624609 (SM 4500F-C)	Fluoride	2.6	mg/L	0.05	1
<b>SM 2320B - Alkalinity in CaCO3 units</b>								
	10/25/2011	21:05	624481 (SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
<b>E160.1/SM2540C - Total Dissolved Solids (TDS)</b>								
10/25/2011	10/25/2011	12:52	624321 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2500	mg/L	10	1



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City of Phoenix

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**QC Ref # 623853 - Nitrate as N by RFA Low Level**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/28/2011**

Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS

**QC Ref # 624318 - ICPMS Metals**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/25/2011**

Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH  
Analyzed by: DYH

**QC Ref # 624321 - Total Dissolved Solids (TDS)**

201110200137	85A-411
201110200140	85A-411 DUP
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/25/2011**

Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF

**QC Ref # 624433 - Chloride, Sulfate by EPA 300.0**

201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411

**Analysis Date: 10/25/2011**

Analyzed by: SXX  
Analyzed by: SXX  
Analyzed by: SXX  
Analyzed by: SXX

**QC Ref # 624435 - Chloride, Sulfate by EPA 300.0**

201110200147	85F-411
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**Analysis Date: 10/25/2011**

Analyzed by: SXX

**QC Ref # 624481 - Alkalinity in CaCO3 units**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/25/2011**

Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP  
Analyzed by: CYP





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City of Phoenix

(continued)

**QC Ref # 624601 - ICPMS Metals**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/26/2011**

Analyzed by: VXT  
Analyzed by: VXT  
Analyzed by: VXT  
Analyzed by: VXT  
Analyzed by: VXT  
Analyzed by: VXT  
Analyzed by: VXT

**QC Ref # 624609 - Fluoride**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/27/2011**

Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS  
Analyzed by: KXS

**QC Ref # 624641 - Chloride, Sulfate by EPA 300.0**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD

**Analysis Date: 10/27/2011**

Analyzed by: SXX  
Analyzed by: SXX  
Analyzed by: SXX

**QC Ref # 624981 - Mercury**

201110200142	85B-411
201110200143	85C-411
201110200147	85F-411

**Analysis Date: 10/29/2011**

Analyzed by: MXT  
Analyzed by: MXT  
Analyzed by: MXT

**QC Ref # 625097 - EPA Method 504.1**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200141	85ATB-411
201110200142	85B-411
201110200143	85C-411
201110200144	85D-411
201110200145	85DTB-411
201110200146	85E-411
201110200147	85F-411

**Analysis Date: 10/31/2011**

Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL  
Analyzed by: HETAL

**QC Ref # 625424 - Mercury**

201110200137	85A-411
201110200138	85A-411 MS
201110200139	85A-411 MSD
201110200144	85D-411

**Analysis Date: 11/02/2011**

Analyzed by: MXT  
Analyzed by: MXT  
Analyzed by: MXT  
Analyzed by: MXT



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City of Phoenix  
(continued)

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201110200146	85E-411	Analyzed by: MXT
<b>QC Ref # 625739 - Volatile Organics by GCMS</b>		<b>Analysis Date: 11/03/2011</b>
201110200141	85ATB-411	Analyzed by: KCP
201110200145	85DTB-411	Analyzed by: KCP
<b>QC Ref # 626153 - Volatile Organics by GCMS</b>		<b>Analysis Date: 11/02/2011</b>
201110200137	85A-411	Analyzed by: MCB
201110200138	85A-411 MS	Analyzed by: MCB
201110200139	85A-411 MSD	Analyzed by: MCB
201110200142	85B-411	Analyzed by: MCB
201110200143	85C-411	Analyzed by: MCB
201110200144	85D-411	Analyzed by: MCB
201110200146	85E-411	Analyzed by: MCB
201110200147	85F-411	Analyzed by: MCB



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City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 623853 - Nitrate as N by RFA Low Level by EPA 353.2</b>					<b>Analysis Date: 10/28/2011</b>				
LCS1	Nitrate as N by RFA Low Level		1.0	0.959	mg/L	96	(90-110)		
LCS2	Nitrate as N by RFA Low Level		1.0	1.03	mg/L	103	(90-110)	20	7.1
MBLK	Nitrate as N by RFA Low Level			<0.03	mg/L				
MRL_CHK	Nitrate as N by RFA Low Level		0.03	0.0190	mg/L	63	(50-150)		
MS_201110200137	Nitrate as N by RFA Low Level	23	1.0	49.6	mg/L	105	(90-110)		
MSD_201110200137	Nitrate as N by RFA Low Level	23	1.0	46.9	mg/L	95	(90-110)	20	5.6
<b>QC Ref# 624318 - ICPMS Metals by EPA 200.8</b>					<b>Analysis Date: 10/25/2011</b>				
LCS1	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.3	ug/L	96	(85-115)	20	2.6
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201110200137	Arsenic Total ICAP/MS	15	20	34.8	ug/L	99	(70-130)		
MS2_201110210037	Arsenic Total ICAP/MS	ND	20	19.1	ug/L	94	(70-130)		
MSD_201110200137	Arsenic Total ICAP/MS	15	20	33.7	ug/L	94	(70-130)	20	3.2
MSD2_201110210037	Arsenic Total ICAP/MS	ND	20	19.5	ug/L	96	(70-130)	20	2.1
LCS1	Barium Total ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.5	ug/L	98	(85-115)	20	3.7
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.15	ug/L	107	(50-150)		
MS_201110200137	Barium Total ICAP/MS	68	100	164	ug/L	96	(70-130)		
MS2_201110210037	Barium Total ICAP/MS	4.6	100	99.2	ug/L	95	(70-130)		
MSD_201110200137	Barium Total ICAP/MS	68	100	154	ug/L	86	(70-130)	20	6.3
MSD2_201110210037	Barium Total ICAP/MS	4.6	100	103	ug/L	98	(70-130)	20	3.8
LCS1	Cadmium Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	2.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.528	ug/L	106	(50-150)		
MS_201110200137	Cadmium Total ICAP/MS	ND	20	18.3	ug/L	92	(70-130)		
MS2_201110210037	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MSD_201110200137	Cadmium Total ICAP/MS	ND	20	17.1	ug/L	85	(70-130)	20	6.8
MSD2_201110210037	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	4.0
LCS1	Chromium Total ICAP/MS		100	99.9	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chromium Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201110200137	Chromium Total ICAP/MS	6.9	100	106	ug/L	99	(70-130)		
MS2_201110210037	Chromium Total ICAP/MS	3.4	100	98.9	ug/L	96	(70-130)		
MSD_201110200137	Chromium Total ICAP/MS	6.9	100	102	ug/L	95	(70-130)	20	3.9
MSD2_201110210037	Chromium Total ICAP/MS	3.4	100	101	ug/L	98	(70-130)	20	2.1
LCS1	Copper Total ICAP/MS		100	95.6	ug/L	96	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.1	ug/L	98	(85-115)	20	2.6
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.15	ug/L	107	(50-150)		
MS_201110200137	Copper Total ICAP/MS	ND	100	86.9	ug/L	86	(70-130)		
MS2_201110210037	Copper Total ICAP/MS	ND	100	90.7	ug/L	90	(70-130)		
MSD_201110200137	Copper Total ICAP/MS	ND	100	83.7	ug/L	83	(70-130)	20	3.8
MSD2_201110210037	Copper Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	1.8
LCS1	Lead Total ICAP/MS		20	18.5	ug/L	93	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.1	ug/L	96	(85-115)	20	3.2
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.514	ug/L	103	(50-150)		
MS_201110200137	Lead Total ICAP/MS	ND	20	17.4	ug/L	85	(70-130)		
MS2_201110210037	Lead Total ICAP/MS	ND	20	17.9	ug/L	89	(70-130)		
MSD_201110200137	Lead Total ICAP/MS	ND	20	16.4	ug/L	80	(70-130)	20	5.9
MSD2_201110210037	Lead Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	3.8
LCS1	Nickel Total ICAP/MS		50	46.6	ug/L	93	(85-115)		
LCS2	Nickel Total ICAP/MS		50	47.6	ug/L	95	(85-115)	20	2.1
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.28	ug/L	106	(50-150)		
MS_201110200137	Nickel Total ICAP/MS	6.9	50	49.5	ug/L	85	(70-130)		
MS2_201110210037	Nickel Total ICAP/MS	ND	50	43.5	ug/L	87	(70-130)		
MSD_201110200137	Nickel Total ICAP/MS	6.9	50	47.8	ug/L	82	(70-130)	20	3.5
MSD2_201110210037	Nickel Total ICAP/MS	ND	50	44.0	ug/L	88	(70-130)	20	1.1
LCS1	Selenium Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.45	ug/L	109	(50-150)		
MS_201110200137	Selenium Total ICAP/MS	9.9	20	29.6	ug/L	99	(70-130)		
MS2_201110210037	Selenium Total ICAP/MS	ND	20	20.1	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Phoenix  
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%	
MSD_201110200137	Selenium Total ICAP/MS	9.9	20	29.0	ug/L	96	(70-130)	20	2.0	
MSD2_201110210037	Selenium Total ICAP/MS	ND	20	20.9	ug/L	102	(70-130)	20	3.9	
MBLK	Silver Total ICAP/MS			<0.5	ug/L					
MRL_CHK	Silver Total ICAP/MS		0.5	0.500	ug/L	100	(50-150)			
MS_201110200137	Silver Total ICAP/MS		50	42.7	ug/L	85	(70-130)			
MSD_201110200137	Silver Total ICAP/MS		50	40.0	ug/L	80	(70-130)	20	6.5	
LCS1	Zinc Total ICAP/MS		100	92.5	ug/L	93	(85-115)			
LCS2	Zinc Total ICAP/MS		100	94.3	ug/L	94	(85-115)	20	1.9	
MBLK	Zinc Total ICAP/MS			<20	ug/L					
MRL_CHK	Zinc Total ICAP/MS		20	21.4	ug/L	107	(50-150)			
MS_201110200137	Zinc Total ICAP/MS	32	100	115	ug/L	84	(70-130)			
MS2_201110210037	Zinc Total ICAP/MS	ND	100	98.3	ug/L	92	(70-130)			
MSD_201110200137	Zinc Total ICAP/MS	32	100	111	ug/L	80	(70-130)	20	3.5	
MSD2_201110210037	Zinc Total ICAP/MS	ND	100	99.8	ug/L	94	(70-130)	20	1.5	
<b>QC Ref# 624321 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 10/25/2011</b>					
DUP_201110200140	Total Dissolved Solid (TDS)	5000		4990	mg/L		(0-20)			
DUP_201110200377	Total Dissolved Solid (TDS)	610		612	mg/L		(0-20)	20	0.33	
LCS1	Total Dissolved Solid (TDS)		175	170	mg/L	97	(80-114)			
LCS2	Total Dissolved Solid (TDS)		700	706	mg/L	101	(80-114)			
MBLK	Total Dissolved Solid (TDS)			<10	mg/L					
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)			
<b>QC Ref# 624433 - Chloride, Sulfate by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 10/25/2011</b>					
LCS1	Chloride		25	25.9	mg/L	104	(90-110)			
LCS2	Chloride		25	25.3	mg/L	101	(90-110)	20	2.3	
MBLK	Chloride			<0.5	mg/L					
MRL_CHK	Chloride		0.5	0.419	mg/L	84	(50-150)			
MS_201110250249	Chloride	84	13	110	mg/L	101	(80-120)			
MS_201110250250	Chloride	73	13	99.0	mg/L	105	(80-120)			
MSD_201110250249	Chloride	84	13	109	mg/L	97	(80-120)	20	0.91	
MSD_201110250250	Chloride	73	13	101	mg/L	111	(80-120)	20	2.0	
<b>QC Ref# 624435 - Chloride, Sulfate by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 10/25/2011</b>					
LCS1	Chloride		25	25.4	mg/L	102	(90-110)			
LCS2	Chloride		25	25.4	mg/L	102	(90-110)	20	0.0	
MBLK	Chloride			<0.5	mg/L					

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloride		0.5	0.453	mg/L	91	(50-150)		
MS_201110200137	Chloride		13	2760	mg/L	100	(80-120)		
MSD_201110200137	Chloride		13	2750	mg/L	98	(80-120)	20	0.36
<b>QC Ref# 624481 - Alkalinity in CaCO3 units by SM 2320B</b>					<b>Analysis Date: 10/25/2011</b>				
LCS1	Alkalinity in CaCO3 units		100	95.0	mg/L	95	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	95.6	mg/L	96	(90-110)	20	0.63
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.79	mg/L	90	(50-150)		
MS_201110200137	Alkalinity in CaCO3 units	150	100	240	mg/L	87	(80-120)		
MS_201110200374	Alkalinity in CaCO3 units	240	100	335	mg/L	95	(80-120)		
MSD_201110200137	Alkalinity in CaCO3 units	150	100	235	mg/L	82	(80-120)	20	2.1
MSD_201110200374	Alkalinity in CaCO3 units	240	100	334	mg/L	94	(80-120)	20	0.30
<b>QC Ref# 624601 - ICPMS Metals by EPA 200.8</b>					<b>Analysis Date: 10/26/2011</b>				
LCS1	Silver Total ICAP/MS		50	49.4	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.7	ug/L	100	(85-115)	20	0.61
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201110210084	Silver Total ICAP/MS	ND	50	45.2	ug/L	90	(70-130)		
MS2_201110200137	Silver Total ICAP/MS	ND	50	43.5	ug/L	87	(70-130)		
MSD_201110210084	Silver Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)	20	0.66
MSD2_201110200137	Silver Total ICAP/MS	ND	50	43.4	ug/L	87	(70-130)	20	0.23
<b>QC Ref# 624609 - Fluoride by SM 4500F-C</b>					<b>Analysis Date: 10/27/2011</b>				
LCS1	Fluoride		1.0	0.997	mg/L	100	(81-116)		
LCS2	Fluoride		1.0	1.01	mg/L	101	(81-116)	20	1.3
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0615	mg/L	123	(50-150)		
MS_201110200137	Fluoride	0.48	1.0	1.32	mg/L	84	(73-124)		
MS2_201110260131	Fluoride	0.52	1.0	1.47	mg/L	95	(73-124)		
MSD_201110200137	Fluoride	0.48	1.0	1.33	mg/L	86	(73-124)	20	0.76
<b>QC Ref# 624641 - Chloride, Sulfate by EPA 300.0 by EPA 300.0</b>					<b>Analysis Date: 10/27/2011</b>				
LCS1	Chloride		25	25.8	mg/L	103	(90-110)		
LCS2	Chloride		25	25.6	mg/L	102	(90-110)	20	0.78
MBLK	Chloride			<0.5	mg/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloride		0.5	0.425	mg/L	85	(50-150)		
MS_201110200137	Chloride	2100	13	3480	mg/L	113	(80-120)		
MS_201110240076	Chloride	1.1	13	14.7	mg/L	109	(80-120)		
MSD_201110200137	Chloride	2100	13	3480	mg/L	113	(80-120)	20	0.0
MSD_201110240076	Chloride	1.1	13	14.7	mg/L	109	(80-120)	20	0.0
<b>QC Ref# 624981 - Mercury by EPA 245.1</b>					<b>Analysis Date: 10/28/2011</b>				
LCS1	Mercury		1.5	1.47	ug/L	98	(85-115)		
LCS2	Mercury		1.5	1.49	ug/L	99	(85-115)	20	1.4
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.203	ug/L	101	(50-150)		
MS_201110200120	Mercury	ND	1.5	1.58	ug/L	104	(70-130)		
MS_201110280032	Mercury	ND	1.5	1.73	ug/L	106	(70-130)		
MSD_201110200120	Mercury	ND	1.5	1.54	ug/L	101	(70-130)	20	2.6
MSD_201110280032	Mercury	ND	1.5	1.72	ug/L	105	(70-130)	20	0.58
<b>QC Ref# 625097 - EPA Method 504.1 by EPA 8011</b>					<b>Analysis Date: 10/31/2011</b>				
CCCM	1,2-Dibromo-3-chloropropane		0.25	0.233	ug/L	93	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0126	ug/L	126	(60-140)		
MS_201110190395	1,2-Dibromo-3-chloropropane	ND	0.25	0.328	ug/L	131	(65-135)		
MS_201110200137	1,2-Dibromo-3-chloropropane	ND	0.25	0.302	ug/L	121	(65-135)		
MS_201110250259	1,2-Dibromo-3-chloropropane	ND	0.25	0.283	ug/L	113	(65-135)		
MSD_201110190395	1,2-Dibromo-3-chloropropane	ND	0.25	0.306	ug/L	122	(65-135)	20	6.9
MSD_201110200137	1,2-Dibromo-3-chloropropane	ND	0.25	0.293	ug/L	117	(65-135)	20	3.0
MSD_201110250259	1,2-Dibromo-3-chloropropane	ND	0.25	0.281	ug/L	112	(65-135)	20	0.71
CCCM	1,2-Dibromoethane		0.25	0.247	ug/L	99	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00700	ug/L	70	(60-140)		
MS_201110190395	1,2-Dibromoethane	ND	0.25	0.262	ug/L	105	(65-135)		
MS_201110200137	1,2-Dibromoethane	ND	0.25	0.276	ug/L	110	(65-135)		
MS_201110250259	1,2-Dibromoethane	ND	0.25	0.294	ug/L	118	(65-135)		
MSD_201110190395	1,2-Dibromoethane	ND	0.25	0.284	ug/L	114	(65-135)	20	8.1
MSD_201110200137	1,2-Dibromoethane	ND	0.25	0.262	ug/L	105	(65-135)	20	5.2
MSD_201110250259	1,2-Dibromoethane	ND	0.25	0.294	ug/L	118	(65-135)	20	0.0
CCCM	1,2-Dibromopropane (S)			90.5	%	91	(60-140)		

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2-Dibromopropane (S)			106	%	106	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			96.2	%	96	(60-140)		
MS_201110190395	1,2-Dibromopropane (S)			114	%	114	(60-140)		
MS_201110200137	1,2-Dibromopropane (S)			105	%	105	(60-140)		
MS_201110250259	1,2-Dibromopropane (S)			111	%	111	(60-140)		
MSD_201110190395	1,2-Dibromopropane (S)			109	%	109	(60-140)		
MSD_201110200137	1,2-Dibromopropane (S)			104	%	104	(60-140)		
MSD_201110250259	1,2-Dibromopropane (S)			116	%	116	(60-140)		
<b>QC Ref# 625424 - Mercury by EPA 245.1</b>					<b>Analysis Date: 11/02/2011</b>				
LCS1	Mercury		1.5	1.5	ug/L	100	(85-115)		
LCS2	Mercury		1.5	1.54	ug/L	103	(85-115)	20	2.6
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.226	ug/L	113	(50-150)		
MS_201111020005	Mercury	0.429	1.5	2.02	ug/L	106	(70-130)		
MSD_201111020005	Mercury	0.429	1.5	2.04	ug/L	107	(70-130)	20	0.99
<b>QC Ref# 625739 - Volatile Organics by GCMS by EPA 8260</b>					<b>Analysis Date: 11/03/2011</b>				
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.5	ug/L	90	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.49	ug/L	90	(70-130)	20	0.22
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201110250259	1,1,1,2-Tetrachloroethane	ND	10	9.15	ug/L	92	(70-130)		
MS_201110310135	1,1,1,2-Tetrachloroethane	ND	10	9.06	ug/L	91	(70-130)		
MSD_201110250259	1,1,1,2-Tetrachloroethane	ND	10	9.09	ug/L	91	(70-130)	20	0.66
MSD_201110310135	1,1,1,2-Tetrachloroethane	ND	10	9.43	ug/L	94	(70-130)	20	4.0
LCS1	1,1,1-Trichloroethane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.61	ug/L	92	(70-130)	20	0.44
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	1,1,1-Trichloroethane	ND	10	9.83	ug/L	98	(70-130)		
MS_201110310135	1,1,1-Trichloroethane	ND	10	9.71	ug/L	97	(70-130)		
MSD_201110250259	1,1,1-Trichloroethane	ND	10	9.96	ug/L	100	(70-130)	20	1.3
MSD_201110310135	1,1,1-Trichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	5.9
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.36	ug/L	87	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.22	ug/L	84	(70-130)	20	3.3

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)





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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201110250259	1,1,2,2-Tetrachloroethane	ND	10	8.72	ug/L	87	(70-130)		
MS_201110310135	1,1,2,2-Tetrachloroethane	ND	10	8.58	ug/L	86	(70-130)		
MSD_201110250259	1,1,2,2-Tetrachloroethane	ND	10	8.85	ug/L	89	(70-130)	20	1.5
MSD_201110310135	1,1,2,2-Tetrachloroethane	ND	10	8.94	ug/L	89	(70-130)	20	4.1
LCS1	1,1,2-Trichloroethane		5.0	4.17	ug/L	83	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.27	ug/L	85	(70-130)	20	2.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201110250259	1,1,2-Trichloroethane	ND	10	8.97	ug/L	90	(70-130)		
MS_201110310135	1,1,2-Trichloroethane	ND	10	8.79	ug/L	88	(70-130)		
MSD_201110250259	1,1,2-Trichloroethane	ND	10	8.57	ug/L	86	(70-130)	20	4.6
MSD_201110310135	1,1,2-Trichloroethane	ND	10	9.08	ug/L	91	(70-130)	20	3.3
LCS1	1,1-Dichloroethane		5.0	4.33	ug/L	87	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.53	ug/L	91	(70-130)	20	4.5
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201110250259	1,1-Dichloroethane	ND	10	9.48	ug/L	95	(70-130)		
MS_201110310135	1,1-Dichloroethane	ND	10	9.26	ug/L	93	(70-130)		
MSD_201110250259	1,1-Dichloroethane	ND	10	9.46	ug/L	95	(70-130)	20	0.21
MSD_201110310135	1,1-Dichloroethane	ND	10	9.7	ug/L	97	(70-130)	20	4.6
LCS1	1,1-Dichloroethylene		5.0	4.52	ug/L	90	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.47	ug/L	89	(70-130)	20	1.1
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
MS_201110250259	1,1-Dichloroethylene	ND	10	9.94	ug/L	99	(70-130)		
MS_201110310135	1,1-Dichloroethylene	ND	10	9.96	ug/L	100	(70-130)		
MSD_201110250259	1,1-Dichloroethylene	ND	10	9.83	ug/L	98	(70-130)	20	1.1
MSD_201110310135	1,1-Dichloroethylene	ND	10	10.1	ug/L	101	(70-130)	20	1.4
LCS1	1,2,3-Trichloropropane		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.89	ug/L	98	(70-130)	20	2.6
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.440	ug/L	88	(50-150)		
MS_201110250259	1,2,3-Trichloropropane	ND	10	10.0	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110310135	1,2,3-Trichloropropane	ND	10	9.87	ug/L	99	(70-130)		
MSD_201110250259	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	1
MSD_201110310135	1,2,3-Trichloropropane	ND	10	10.0	ug/L	100	(70-130)	20	1.3
LCS1	1,2-Dichloroethane		5.0	4.38	ug/L	88	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.48	ug/L	90	(70-130)	20	2.3
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201110250259	1,2-Dichloroethane	ND	10	9.28	ug/L	93	(70-130)		
MS_201110310135	1,2-Dichloroethane	ND	10	9.03	ug/L	90	(70-130)		
MSD_201110250259	1,2-Dichloroethane	ND	10	9.16	ug/L	92	(70-130)	20	1.3
MSD_201110310135	1,2-Dichloroethane	ND	10	9.29	ug/L	93	(70-130)	20	2.8
LCS1	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			96.8	%	97	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
MS_201110250259	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MS_201110310135	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
MSD_201110250259	1,2-Dichloroethane-d4 (S)			94.6	%	95	(70-130)		
MSD_201110310135	1,2-Dichloroethane-d4 (S)			98.2	%	98	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.25	ug/L	85	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.25	ug/L	85	(70-130)	20	0.0
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
MS_201110250259	1,2-Dichloropropane	ND	10	9.17	ug/L	92	(70-130)		
MS_201110310135	1,2-Dichloropropane	ND	10	8.92	ug/L	89	(70-130)		
MSD_201110250259	1,2-Dichloropropane	ND	10	8.93	ug/L	89	(70-130)	20	2.6
MSD_201110310135	1,2-Dichloropropane	ND	10	9.29	ug/L	93	(70-130)	20	4.1
LCS1	2-Butanone (MEK)		50	40.5	ug/L	81	(70-130)		
LCS2	2-Butanone (MEK)		50	42.5	ug/L	85	(70-130)	20	4.8
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.92	ug/L	98	(50-150)		
MS_201110250259	2-Butanone (MEK)	ND	100	81.0	ug/L	81	(70-130)		
MS_201110310135	2-Butanone (MEK)	ND	100	80.7	ug/L	81	(70-130)		
MSD_201110250259	2-Butanone (MEK)	ND	100	81.4	ug/L	81	(70-130)	20	0.49
MSD_201110310135	2-Butanone (MEK)	ND	100	83.0	ug/L	83	(70-130)	20	2.8

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(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	2-Hexanone		50	44.1	ug/L	88	(70-130)		
LCS2	2-Hexanone		50	45.1	ug/L	90	(70-130)	20	2.5
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5.0	5.01	ug/L	100	(50-150)		
MS_201110250259	2-Hexanone	ND	100	83.7	ug/L	84	(70-130)		
MS_201110310135	2-Hexanone	ND	100	83.9	ug/L	84	(70-130)		
MSD_201110250259	2-Hexanone	ND	100	84.2	ug/L	84	(70-130)	20	0.60
MSD_201110310135	2-Hexanone	ND	100	85.3	ug/L	85	(70-130)	20	1.6
LCS1	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MS_201110250259	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
MS_201110310135	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MSD_201110250259	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201110310135	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	43.5	ug/L	87	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	45.2	ug/L	90	(70-130)	20	3.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.3	ug/L	106	(50-150)		
MS_201110250259	4-Methyl-2-Pentanone (MIBK)	ND	100	82.7	ug/L	83	(70-130)		
MS_201110310135	4-Methyl-2-Pentanone (MIBK)	ND	100	82.4	ug/L	82	(70-130)		
MSD_201110250259	4-Methyl-2-Pentanone (MIBK)	ND	100	83.7	ug/L	84	(70-130)	20	1.2
MSD_201110310135	4-Methyl-2-Pentanone (MIBK)	ND	100	85.4	ug/L	85	(70-130)	20	3.6
LCS1	Acetone		50	38.1	ug/L	76	(70-130)		
LCS2	Acetone		50	40.6	ug/L	81	(70-130)	20	6.3
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	4.94	ug/L	99	(50-150)		
MS_201110250259	Acetone	ND	100	77.7	ug/L	78	(70-130)		
MS_201110310135	Acetone	ND	100	74.3	ug/L	74	(70-130)		
MSD_201110250259	Acetone	ND	100	76.3	ug/L	76	(70-130)	20	1.8
MSD_201110310135	Acetone	ND	100	76.2	ug/L	76	(70-130)	20	2.5
LCS1	Acrylonitrile (Screen)		5.0	4.36	ug/L	87	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	4.26	ug/L	85	(70-130)	20	2.3
MBLK	Acrylonitrile (Screen)			<50	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110250259	Acrylonitrile (Screen)	ND	10	8.76	ug/L	88	(70-130)		
MS_201110310135	Acrylonitrile (Screen)	ND	10	8.35	ug/L	84	(70-130)		
MSD_201110250259	Acrylonitrile (Screen)	ND	10	8.58	ug/L	86	(70-130)	20	2.1
MSD_201110310135	Acrylonitrile (Screen)	ND	10	9.11	ug/L	91	(70-130)	20	8.7
LCS1	Benzene		5.0	4.53	ug/L	91	(70-130)		
LCS2	Benzene		5.0	4.64	ug/L	93	(70-130)	20	2.4
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201110250259	Benzene	ND	10	9.8	ug/L	98	(70-130)		
MS_201110310135	Benzene	ND	10	9.72	ug/L	97	(70-130)		
MSD_201110250259	Benzene	ND	10	9.61	ug/L	96	(70-130)	20	2.0
MSD_201110310135	Benzene	ND	10	9.87	ug/L	99	(70-130)	20	1.5
LCS1	Bromochloromethane		5.0	4.07	ug/L	81	(70-130)		
LCS2	Bromochloromethane		5.0	4.29	ug/L	86	(70-130)	20	5.3
MBLK	Bromochloromethane			<0.25	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	Bromochloromethane	ND	10	8.96	ug/L	90	(70-130)		
MS_201110310135	Bromochloromethane	ND	10	8.69	ug/L	87	(70-130)		
MSD_201110250259	Bromochloromethane	ND	10	8.74	ug/L	87	(70-130)	20	2.5
MSD_201110310135	Bromochloromethane	ND	10	9.06	ug/L	91	(70-130)	20	4.2
LCS1	Bromodichloromethane		5.0	4.26	ug/L	85	(70-130)		
LCS2	Bromodichloromethane		5.0	4.29	ug/L	86	(70-130)	20	0.70
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201110250259	Bromodichloromethane	ND	10	8.73	ug/L	87	(70-130)		
MS_201110310135	Bromodichloromethane	ND	10	8.7	ug/L	87	(70-130)		
MSD_201110250259	Bromodichloromethane	ND	10	8.86	ug/L	89	(70-130)	20	1.5
MSD_201110310135	Bromodichloromethane	ND	10	9.38	ug/L	94	(70-130)	20	7.5
LCS1	Bromoform		5.0	4.16	ug/L	83	(70-130)		
LCS2	Bromoform		5.0	3.93	ug/L	79	(70-130)	20	5.7
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.430	ug/L	86	(50-150)		
MS_201110250259	Bromoform	ND	10	8.64	ug/L	86	(70-130)		
MS_201110310135	Bromoform	ND	10	8.52	ug/L	84	(70-130)		
MSD_201110250259	Bromoform	ND	10	8.67	ug/L	87	(70-130)	20	0.35

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201110310135	Bromoform	ND	10	9.22	ug/L	91	(70-130)	20	7.9
LCS1	Bromomethane (Methyl Bromide)		5.0	4.69	ug/L	94	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.32	ug/L	86	(70-130)	20	8.2
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.640	ug/L	128	(50-150)		
MS_201110250259	Bromomethane (Methyl Bromide)	ND	10	9.59	ug/L	95	(70-130)		
MS_201110310135	Bromomethane (Methyl Bromide)	ND	10	9.45	ug/L	95	(70-130)		
MSD_201110250259	Bromomethane (Methyl Bromide)	ND	10	9.39	ug/L	93	(70-130)	20	2.1
MSD_201110310135	Bromomethane (Methyl Bromide)	ND	10	8.93	ug/L	89	(70-130)	20	5.7
LCS1	Carbon disulfide		5.0	4.38	ug/L	88	(70-130)		
LCS2	Carbon disulfide		5.0	4.42	ug/L	88	(70-130)	20	0.91
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.540	ug/L	108	(50-150)		
MS_201110250259	Carbon disulfide	ND	10	9.56	ug/L	96	(70-130)		
MS_201110310135	Carbon disulfide	ND	10	9.59	ug/L	96	(70-130)		
MSD_201110250259	Carbon disulfide	ND	10	9.73	ug/L	97	(70-130)	20	1.8
MSD_201110310135	Carbon disulfide	ND	10	9.97	ug/L	100	(70-130)	20	3.9
LCS1	Carbon Tetrachloride		5.0	4.39	ug/L	88	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.54	ug/L	91	(70-130)	20	3.4
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.500	ug/L	100	(50-150)		
MS_201110250259	Carbon Tetrachloride	ND	10	9.63	ug/L	96	(70-130)		
MS_201110310135	Carbon Tetrachloride	ND	10	9.8	ug/L	98	(70-130)		
MSD_201110250259	Carbon Tetrachloride	ND	10	9.92	ug/L	99	(70-130)	20	3.0
MSD_201110310135	Carbon Tetrachloride	ND	10	10.1	ug/L	101	(70-130)	20	3.0
LCS1	Chlorobenzene		5.0	4.55	ug/L	91	(70-130)		
LCS2	Chlorobenzene		5.0	4.57	ug/L	91	(70-130)	20	0.44
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	Chlorobenzene	ND	10	9.47	ug/L	95	(70-130)		
MS_201110310135	Chlorobenzene	ND	10	9.51	ug/L	95	(70-130)		
MSD_201110250259	Chlorobenzene	ND	10	9.55	ug/L	96	(70-130)	20	0.84
MSD_201110310135	Chlorobenzene	ND	10	9.71	ug/L	97	(70-130)	20	2.1
LCS1	Chlorodibromomethane		5.0	4.25	ug/L	85	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.22	ug/L	84	(70-130)	20	0.71

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.470	ug/L	94	(50-150)		
MS_201110250259	Chlorodibromomethane	ND	10	8.75	ug/L	88	(70-130)		
MS_201110310135	Chlorodibromomethane	ND	10	8.71	ug/L	87	(70-130)		
MSD_201110250259	Chlorodibromomethane	ND	10	8.83	ug/L	88	(70-130)	20	0.91
MSD_201110310135	Chlorodibromomethane	ND	10	9.15	ug/L	92	(70-130)	20	4.9
LCS1	Chloroethane		5.0	4.43	ug/L	89	(70-130)		
LCS2	Chloroethane		5.0	4.49	ug/L	90	(70-130)	20	1.4
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.730	ug/L	146	(50-150)		
MS_201110250259	Chloroethane	ND	10	9.74	ug/L	97	(70-130)		
MS_201110310135	Chloroethane	ND	10	9.74	ug/L	97	(70-130)		
MSD_201110250259	Chloroethane	ND	10	9.69	ug/L	97	(70-130)	20	0.52
MSD_201110310135	Chloroethane	ND	10	9.88	ug/L	99	(70-130)	20	1.4
LCS1	Chloroform (Trichloromethane)		5.0	4.43	ug/L	89	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.56	ug/L	91	(70-130)	20	2.9
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	Chloroform (Trichloromethane)	ND	10	9.35	ug/L	94	(70-130)		
MS_201110310135	Chloroform (Trichloromethane)	ND	10	9.28	ug/L	93	(70-130)		
MSD_201110250259	Chloroform (Trichloromethane)	ND	10	9.25	ug/L	93	(70-130)	20	1.1
MSD_201110310135	Chloroform (Trichloromethane)	ND	10	9.63	ug/L	96	(70-130)	20	3.7
LCS1	Chloromethane(Methyl Chloride)		5.0	4.15	ug/L	83	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	3.97	ug/L	79	(70-130)	20	4.4
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.430	ug/L	86	(50-150)		
MS_201110250259	Chloromethane(Methyl Chloride)	ND	10	9.00	ug/L	89	(70-130)		
MS_201110310135	Chloromethane(Methyl Chloride)	ND	10	8.7	ug/L	85	(70-130)		
MSD_201110250259	Chloromethane(Methyl Chloride)	ND	10	8.5	ug/L	84	(70-130)	20	5.7
MSD_201110310135	Chloromethane(Methyl Chloride)	ND	10	9.03	ug/L	88	(70-130)	20	3.7
LCS1	cis-1,2-Dichloroethylene		5.0	4.27	ug/L	85	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.41	ug/L	88	(70-130)	20	3.2
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201110250259	cis-1,2-Dichloroethylene	ND	10	9.19	ug/L	92	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110310135	cis-1,2-Dichloroethylene	ND	10	8.95	ug/L	90	(70-130)		
MSD_201110250259	cis-1,2-Dichloroethylene	ND	10	9.01	ug/L	90	(70-130)	20	2.0
MSD_201110310135	cis-1,2-Dichloroethylene	ND	10	9.34	ug/L	93	(70-130)	20	4.3
LCS1	cis-1,3-Dichloropropene		5.0	4.45	ug/L	89	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.39	ug/L	88	(70-130)	20	1.4
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.480	ug/L	96	(50-150)		
MS_201110250259	cis-1,3-Dichloropropene	ND	10	9.17	ug/L	92	(70-130)		
MS_201110310135	cis-1,3-Dichloropropene	ND	10	9.06	ug/L	91	(70-130)		
MSD_201110250259	cis-1,3-Dichloropropene	ND	10	9.37	ug/L	94	(70-130)	20	2.2
MSD_201110310135	cis-1,3-Dichloropropene	ND	10	9.08	ug/L	91	(70-130)	20	0.22
LCS1	Dibromomethane		5.0	4.19	ug/L	84	(70-130)		
LCS2	Dibromomethane		5.0	4.5	ug/L	90	(70-130)	20	7.1
MBLK	Dibromomethane			<0.25	ug/L				
MRL_CHK	Dibromomethane		0.5	0.470	ug/L	94	(50-150)		
MS_201110250259	Dibromomethane	ND	10	9.05	ug/L	91	(70-130)		
MS_201110310135	Dibromomethane	ND	10	8.69	ug/L	87	(70-130)		
MSD_201110250259	Dibromomethane	ND	10	8.68	ug/L	87	(70-130)	20	4.2
MSD_201110310135	Dibromomethane	ND	10	9.04	ug/L	90	(70-130)	20	4.0
LCS1	Dichloromethane		5.0	4.16	ug/L	83	(70-130)		
LCS2	Dichloromethane		5.0	4.31	ug/L	86	(70-130)	20	3.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201110250259	Dichloromethane	ND	10	8.94	ug/L	89	(70-130)		
MS_201110310135	Dichloromethane	ND	10	8.73	ug/L	87	(70-130)		
MSD_201110250259	Dichloromethane	ND	10	8.75	ug/L	88	(70-130)	20	2.1
MSD_201110310135	Dichloromethane	ND	10	9.03	ug/L	90	(70-130)	20	3.4
LCS1	Ethyl benzene		5.0	4.33	ug/L	87	(70-130)		
LCS2	Ethyl benzene		5.0	4.3	ug/L	86	(70-130)	20	0.70
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.520	ug/L	104	(50-150)		
MS_201110250259	Ethyl benzene	ND	10	9.21	ug/L	92	(70-130)		
MS_201110310135	Ethyl benzene	ND	10	9.2	ug/L	92	(70-130)		
MSD_201110250259	Ethyl benzene	ND	10	9.02	ug/L	90	(70-130)	20	2.1
MSD_201110310135	Ethyl benzene	ND	10	9.44	ug/L	94	(70-130)	20	2.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Iodomethane		5.0	4.16	ug/L	83	(70-130)		
LCS2	Iodomethane		5.0	4.36	ug/L	87	(70-130)	20	4.7
MBLK	Iodomethane			<0.1	ug/L				
MS_201110250259	Iodomethane	ND	10	9.73	ug/L	97	(70-130)		
MS_201110310135	Iodomethane	ND	10	9.8	ug/L	98	(70-130)		
MSD_201110250259	Iodomethane	ND	10	9.32	ug/L	93	(70-130)	20	4.3
MSD_201110310135	Iodomethane	ND	10	10.0	ug/L	100	(70-130)	20	2.0
LCS1	m,p-Xylenes		10	9.51	ug/L	95	(70-130)		
LCS2	m,p-Xylenes		10	9.55	ug/L	96	(70-130)	20	0.42
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.11	ug/L	111	(50-150)		
MS_201110250259	m,p-Xylenes	ND	20	19.8	ug/L	99	(70-130)		
MS_201110310135	m,p-Xylenes	ND	20	19.5	ug/L	98	(70-130)		
MSD_201110250259	m,p-Xylenes	ND	20	19.9	ug/L	100	(70-130)	20	0.50
MSD_201110310135	m,p-Xylenes	ND	20	20.2	ug/L	101	(70-130)	20	3.5
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.38	ug/L	88	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.54	ug/L	91	(70-130)	20	3.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.490	ug/L	98	(50-150)		
MS_201110250259	Methyl Tert-butyl ether (MTBE)	ND	10	8.91	ug/L	89	(70-130)		
MS_201110310135	Methyl Tert-butyl ether (MTBE)	ND	10	8.54	ug/L	85	(70-130)		
MSD_201110250259	Methyl Tert-butyl ether (MTBE)	ND	10	8.81	ug/L	88	(70-130)	20	1.1
MSD_201110310135	Methyl Tert-butyl ether (MTBE)	ND	10	9.16	ug/L	92	(70-130)	20	7.0
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	4.45	ug/L	89	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	4.55	ug/L	91	(70-130)	20	2.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	o-Dichlorobenzene (1,2-DCB)	ND	10	9.2	ug/L	92	(70-130)		
MS_201110310135	o-Dichlorobenzene (1,2-DCB)	ND	10	9.22	ug/L	92	(70-130)		
MSD_201110250259	o-Dichlorobenzene (1,2-DCB)	ND	10	9.28	ug/L	93	(70-130)	20	0.87
MSD_201110310135	o-Dichlorobenzene (1,2-DCB)	ND	10	9.65	ug/L	97	(70-130)	20	4.6
LCS1	o-Xylene		5.0	4.47	ug/L	89	(70-130)		
LCS2	o-Xylene		5.0	4.63	ug/L	93	(70-130)	20	3.5
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.530	ug/L	106	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)





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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110250259	o-Xylene	ND	10	9.43	ug/L	94	(70-130)		
MS_201110310135	o-Xylene	ND	10	9.32	ug/L	93	(70-130)		
MSD_201110250259	o-Xylene	ND	10	9.47	ug/L	95	(70-130)	20	0.42
MSD_201110310135	o-Xylene	ND	10	9.78	ug/L	98	(70-130)	20	4.8
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	4.83	ug/L	97	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.62	ug/L	92	(70-130)	20	4.4
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.560	ug/L	112	(50-150)		
MS_201110250259	p-Dichlorobenzene (1,4-DCB)	ND	10	9.92	ug/L	99	(70-130)		
MS_201110310135	p-Dichlorobenzene (1,4-DCB)	ND	10	9.91	ug/L	99	(70-130)		
MSD_201110250259	p-Dichlorobenzene (1,4-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	1.8
MSD_201110310135	p-Dichlorobenzene (1,4-DCB)	ND	10	9.81	ug/L	98	(70-130)	20	1.0
LCS1	Styrene		5.0	4.59	ug/L	92	(70-130)		
LCS2	Styrene		5.0	4.64	ug/L	93	(70-130)	20	1.1
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.520	ug/L	104	(50-150)		
MS_201110250259	Styrene	ND	10	8.98	ug/L	90	(70-130)		
MS_201110310135	Styrene	ND	10	8.47	ug/L	85	(70-130)		
MSD_201110250259	Styrene	ND	10	8.92	ug/L	89	(70-130)	20	0.67
MSD_201110310135	Styrene	ND	10	9.35	ug/L	94	(70-130)	20	9.9
LCS1	Tetrachloroethylene (PCE)		5.0	4.48	ug/L	90	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.47	ug/L	89	(70-130)	20	0.22
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	Tetrachloroethylene (PCE)	ND	10	10.0	ug/L	100	(70-130)		
MS_201110310135	Tetrachloroethylene (PCE)	ND	10	9.88	ug/L	99	(70-130)		
MSD_201110250259	Tetrachloroethylene (PCE)	ND	10	10.1	ug/L	101	(70-130)	20	1
MSD_201110310135	Tetrachloroethylene (PCE)	ND	10	10.3	ug/L	103	(70-130)	20	4.2
LCS1	Toluene		5.0	4.44	ug/L	89	(70-130)		
LCS2	Toluene		5.0	4.42	ug/L	88	(70-130)	20	0.45
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.560	ug/L	112	(50-150)		
MS_201110250259	Toluene	ND	10	9.58	ug/L	96	(70-130)		
MS_201110310135	Toluene	ND	10	9.65	ug/L	97	(70-130)		
MSD_201110250259	Toluene	ND	10	9.56	ug/L	96	(70-130)	20	0.21

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201110310135	Toluene	ND	10	10.1	ug/L	101	(70-130)	20	4.6
LCS1	Toluene-d8 (S)			98.4	%	98	(70-130)		
LCS2	Toluene-d8 (S)			97.2	%	97	(70-130)		
MBLK	Toluene-d8 (S)			101	%	101	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.6	%	100	(70-130)		
MS_201110250259	Toluene-d8 (S)			98.0	%	98	(70-130)		
MS_201110310135	Toluene-d8 (S)			97.6	%	98	(70-130)		
MSD_201110250259	Toluene-d8 (S)			99.8	%	100	(70-130)		
MSD_201110310135	Toluene-d8 (S)			98.8	%	99	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.44	ug/L	89	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.44	ug/L	89	(70-130)	20	0.0
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201110250259	trans-1,2-Dichloroethylene	ND	10	9.55	ug/L	96	(70-130)		
MS_201110310135	trans-1,2-Dichloroethylene	ND	10	9.33	ug/L	93	(70-130)		
MSD_201110250259	trans-1,2-Dichloroethylene	ND	10	9.54	ug/L	95	(70-130)	20	0.11
MSD_201110310135	trans-1,2-Dichloroethylene	ND	10	10.0	ug/L	100	(70-130)	20	6.9
LCS1	trans-1,3-Dichloropropene		5.0	4.33	ug/L	87	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.32	ug/L	86	(70-130)	20	0.23
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
MS_201110250259	trans-1,3-Dichloropropene	ND	10	9.06	ug/L	91	(70-130)		
MS_201110310135	trans-1,3-Dichloropropene	ND	10	8.89	ug/L	89	(70-130)		
MSD_201110250259	trans-1,3-Dichloropropene	ND	10	8.84	ug/L	88	(70-130)	20	2.5
MSD_201110310135	trans-1,3-Dichloropropene	ND	10	9.2	ug/L	92	(70-130)	20	3.4
LCS1	trans-1,4-dichloro-2-butene		5.0	4.09	ug/L	82	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	3.73	ug/L	75	(70-130)	20	9.2
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201110250259	trans-1,4-dichloro-2-butene	ND	10	8.26	ug/L	83	(70-130)		
MS_201110310135	trans-1,4-dichloro-2-butene	ND	10	7.89	ug/L	79	(70-130)		
MSD_201110250259	trans-1,4-dichloro-2-butene	ND	10	8.34	ug/L	83	(70-130)	20	0.96
MSD_201110310135	trans-1,4-dichloro-2-butene	ND	10	8.49	ug/L	85	(70-130)	20	7.3
LCS1	Trichloroethylene (TCE)		5.0	4.58	ug/L	92	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.55	ug/L	91	(70-130)	20	0.66
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Trichloroethylene (TCE)		0.5	0.550	ug/L	110	(50-150)		
MS_201110250259	Trichloroethylene (TCE)	ND	10	10.1	ug/L	101	(70-130)		
MS_201110310135	Trichloroethylene (TCE)	ND	10	9.91	ug/L	99	(70-130)		
MSD_201110250259	Trichloroethylene (TCE)	ND	10	10.1	ug/L	101	(70-130)	20	0.0
MSD_201110310135	Trichloroethylene (TCE)	ND	10	10.3	ug/L	103	(70-130)	20	3.9
LCS1	Trichlorofluoromethane		5.0	4.42	ug/L	88	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.39	ug/L	88	(70-130)	20	0.68
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.570	ug/L	114	(50-150)		
MS_201110250259	Trichlorofluoromethane	ND	10	10.3	ug/L	103	(70-130)		
MS_201110310135	Trichlorofluoromethane	ND	10	10.4	ug/L	105	(70-130)		
MSD_201110250259	Trichlorofluoromethane	ND	10	10.7	ug/L	107	(70-130)	20	2.8
MSD_201110310135	Trichlorofluoromethane	ND	10	10.7	ug/L	107	(70-130)	20	1.9
LCS1	Vinyl Acetate		25	23.5	ug/L	94	(70-130)		
LCS2	Vinyl Acetate		25	25.0	ug/L	100	(70-130)	20	6.2
MBLK	Vinyl Acetate			<5.0	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.97	ug/L	119	(50-150)		
MS_201110250259	Vinyl Acetate	ND	50	50.5	ug/L	101	(70-130)		
MS_201110310135	Vinyl Acetate	ND	50	48.5	ug/L	97	(70-130)		
MSD_201110250259	Vinyl Acetate	ND	50	49.0	ug/L	98	(70-130)	20	3.0
MSD_201110310135	Vinyl Acetate	ND	50	50.1	ug/L	100	(70-130)	20	3.3
LCS1	Vinyl chloride (VC)		5.0	4.59	ug/L	92	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.51	ug/L	90	(70-130)	20	1.8
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.600	ug/L	120	(50-150)		
MS_201110250259	Vinyl chloride (VC)	ND	10	10.4	ug/L	104	(70-130)		
MS_201110310135	Vinyl chloride (VC)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201110250259	Vinyl chloride (VC)	ND	10	10.5	ug/L	105	(70-130)	20	0.96
MSD_201110310135	Vinyl chloride (VC)	ND	10	10.6	ug/L	106	(70-130)	20	1.9

**QC Ref# 626153 - Volatile Organics by GCMS by EPA 8260**

**Analysis Date: 11/02/2011**

LCS1	1,1,1,2-Tetrachloroethane		5.0	5.36	ug/L	107	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.06	ug/L	101	(70-130)	20	5.8
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201110190395	1,1,1,2-Tetrachloroethane	ND	10	10.4	ug/L	105	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110200137	1,1,1,2-Tetrachloroethane	ND	10	9.35	ug/L	94	(70-130)		
MSD_201110190395	1,1,1,2-Tetrachloroethane	ND	10	9.77	ug/L	98	(70-130)	20	7.2
MSD_201110200137	1,1,1,2-Tetrachloroethane	ND	10	9.29	ug/L	93	(70-130)	20	0.64
LCS1	1,1,1-Trichloroethane		5.0	5.56	ug/L	111	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.13	ug/L	103	(70-130)	20	8.0
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201110190395	1,1,1-Trichloroethane	ND	10	10.9	ug/L	110	(70-130)		
MS_201110200137	1,1,1-Trichloroethane	ND	10	9.97	ug/L	100	(70-130)		
MSD_201110190395	1,1,1-Trichloroethane	ND	10	10.5	ug/L	105	(70-130)	20	4.7
MSD_201110200137	1,1,1-Trichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	3.3
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.2	ug/L	104	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.16	ug/L	103	(70-130)	20	0.77
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.600	ug/L	120	(50-150)		
MS_201110190395	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)		
MS_201110200137	1,1,2,2-Tetrachloroethane	ND	10	8.87	ug/L	89	(70-130)		
MSD_201110190395	1,1,2,2-Tetrachloroethane	ND	10	9.77	ug/L	98	(70-130)	20	3.3
MSD_201110200137	1,1,2,2-Tetrachloroethane	ND	10	8.99	ug/L	90	(70-130)	20	1.3
LCS1	1,1,2-Trichloroethane		5.0	5.05	ug/L	101	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.98	ug/L	100	(70-130)	20	1.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201110190395	1,1,2-Trichloroethane	ND	10	9.83	ug/L	98	(70-130)		
MS_201110200137	1,1,2-Trichloroethane	ND	10	8.92	ug/L	89	(70-130)		
MSD_201110190395	1,1,2-Trichloroethane	ND	10	9.42	ug/L	94	(70-130)	20	4.3
MSD_201110200137	1,1,2-Trichloroethane	ND	10	8.84	ug/L	88	(70-130)	20	0.90
LCS1	1,1-Dichloroethane		5.0	5.28	ug/L	106	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.09	ug/L	102	(70-130)	20	3.7
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201110190395	1,1-Dichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201110200137	1,1-Dichloroethane	ND	10	9.56	ug/L	96	(70-130)		
MSD_201110190395	1,1-Dichloroethane	ND	10	9.92	ug/L	99	(70-130)	20	7.6
MSD_201110200137	1,1-Dichloroethane	ND	10	9.78	ug/L	98	(70-130)	20	2.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1-Dichloroethylene		5.0	5.25	ug/L	105	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.89	ug/L	98	(70-130)	20	7.1
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.580	ug/L	116	(50-150)		
MS_201110190395	1,1-Dichloroethylene	ND	10	11.3	ug/L	113	(70-130)		
MS_201110200137	1,1-Dichloroethylene	ND	10	10.0	ug/L	100	(70-130)		
MSD_201110190395	1,1-Dichloroethylene	ND	10	10.3	ug/L	103	(70-130)	20	9.3
MSD_201110200137	1,1-Dichloroethylene	ND	10	9.96	ug/L	100	(70-130)	20	0.40
LCS1	1,2,3-Trichloropropane		5.0	5.15	ug/L	103	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.12	ug/L	102	(70-130)	20	0.58
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.520	ug/L	104	(50-150)		
MS_201110190395	1,2,3-Trichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MS_201110200137	1,2,3-Trichloropropane	ND	10	9.05	ug/L	91	(70-130)		
MSD_201110190395	1,2,3-Trichloropropane	ND	10	9.9	ug/L	99	(70-130)	20	3.0
MSD_201110200137	1,2,3-Trichloropropane	ND	10	9.29	ug/L	93	(70-130)	20	2.6
LCS1	1,2-Dichloroethane		5.0	5.29	ug/L	106	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.15	ug/L	103	(70-130)	20	2.7
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201110190395	1,2-Dichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201110200137	1,2-Dichloroethane	ND	10	9.37	ug/L	94	(70-130)		
MSD_201110190395	1,2-Dichloroethane	ND	10	9.84	ug/L	98	(70-130)	20	5.5
MSD_201110200137	1,2-Dichloroethane	ND	10	9.47	ug/L	95	(70-130)	20	1.1
LCS1	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.2	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			99.6	%	100	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			99.6	%	100	(70-130)		
MS_201110190395	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MS_201110200137	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MSD_201110190395	1,2-Dichloroethane-d4 (S)			98.4	%	98	(70-130)		
MSD_201110200137	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.25	ug/L	105	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.92	ug/L	98	(70-130)	20	6.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201110190395	1,2-Dichloropropane	ND	10	9.9	ug/L	99	(70-130)		
MS_201110200137	1,2-Dichloropropane	ND	10	8.88	ug/L	89	(70-130)		
MSD_201110190395	1,2-Dichloropropane	ND	10	9.4	ug/L	94	(70-130)	20	5.2
MSD_201110200137	1,2-Dichloropropane	ND	10	9.35	ug/L	94	(70-130)	20	5.2
LCS1	2-Butanone (MEK)		50	51.4	ug/L	103	(70-130)		
LCS2	2-Butanone (MEK)		50	50.4	ug/L	101	(70-130)	20	2.0
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.01	ug/L	100	(50-150)		
MS_201110190395	2-Butanone (MEK)	ND	100	95.5	ug/L	95	(70-130)		
MS_201110200137	2-Butanone (MEK)	ND	100	89.9	ug/L	90	(70-130)		
MSD_201110190395	2-Butanone (MEK)	ND	100	96.5	ug/L	96	(70-130)	20	1.0
MSD_201110200137	2-Butanone (MEK)	ND	100	86.9	ug/L	87	(70-130)	20	3.4
LCS1	2-Hexanone		50	55.7	ug/L	111	(70-130)		
LCS2	2-Hexanone		50	53.3	ug/L	107	(70-130)	20	4.4
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5.0	5.52	ug/L	110	(50-150)		
MS_201110190395	2-Hexanone	ND	100	100	ug/L	100	(70-130)		
MS_201110200137	2-Hexanone	ND	100	94.1	ug/L	94	(70-130)		
MSD_201110190395	2-Hexanone	ND	100	99.1	ug/L	99	(70-130)	20	0.90
MSD_201110200137	2-Hexanone	ND	100	91.9	ug/L	92	(70-130)	20	2.4
LCS1	4-Bromofluorobenzene (S)			98.8	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.6	%	99	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MS_201110190395	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MS_201110200137	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MSD_201110190395	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201110200137	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	54.3	ug/L	109	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.6	ug/L	105	(70-130)	20	3.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.49	ug/L	110	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110190395	4-Methyl-2-Pentanone (MIBK)	ND	100	98.5	ug/L	99	(70-130)		
MS_201110200137	4-Methyl-2-Pentanone (MIBK)	ND	100	91.2	ug/L	91	(70-130)		
MSD_201110190395	4-Methyl-2-Pentanone (MIBK)	ND	100	98.7	ug/L	99	(70-130)	20	0.20
MSD_201110200137	4-Methyl-2-Pentanone (MIBK)	ND	100	89.9	ug/L	90	(70-130)	20	1.4
LCS1	Acetone		50	46.1	ug/L	92	(70-130)		
LCS2	Acetone		50	46.4	ug/L	93	(70-130)	20	0.65
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.45	ug/L	109	(50-150)		
MS_201110190395	Acetone	ND	100	89.1	ug/L	88	(70-130)		
MS_201110200137	Acetone	ND	100	82.7	ug/L	83	(70-130)		
MSD_201110190395	Acetone	ND	100	91.5	ug/L	90	(70-130)	20	2.7
MSD_201110200137	Acetone	ND	100	78.3	ug/L	78	(70-130)	20	5.5
LCS1	Acrylonitrile (Screen)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	5.2	ug/L	104	(70-130)	20	2.7
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MS_201110190395	Acrylonitrile (Screen)	ND	10	10.0	ug/L	100	(70-130)		
MS_201110200137	Acrylonitrile (Screen)	ND	10	10.5	ug/L	105	(70-130)		
MSD_201110190395	Acrylonitrile (Screen)	ND	10	11.1	ug/L	111	(70-130)	20	10
MSD_201110200137	Acrylonitrile (Screen)	ND	10	9.57	ug/L	96	(70-130)	20	9.3
LCS1	Benzene		5.0	5.5	ug/L	110	(70-130)		
LCS2	Benzene		5.0	5.37	ug/L	107	(70-130)	20	2.4
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.570	ug/L	114	(50-150)		
MS_201110190395	Benzene	ND	10	10.8	ug/L	109	(70-130)		
MS_201110200137	Benzene	ND	10	9.86	ug/L	99	(70-130)		
MSD_201110190395	Benzene	ND	10	10.2	ug/L	102	(70-130)	20	6.6
MSD_201110200137	Benzene	ND	10	10.0	ug/L	100	(70-130)	20	1.4
LCS1	Bromochloromethane		5.0	5.04	ug/L	101	(70-130)		
LCS2	Bromochloromethane		5.0	4.94	ug/L	99	(70-130)	20	2.0
MBLK	Bromochloromethane			<0.25	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.600	ug/L	120	(50-150)		
MS_201110190395	Bromochloromethane	ND	10	9.82	ug/L	98	(70-130)		
MS_201110200137	Bromochloromethane	ND	10	8.88	ug/L	89	(70-130)		
MSD_201110190395	Bromochloromethane	ND	10	9.51	ug/L	95	(70-130)	20	3.2
MSD_201110200137	Bromochloromethane	ND	10	9.22	ug/L	92	(70-130)	20	3.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

55/63

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromodichloromethane		5.0	5.06	ug/L	101	(70-130)		
LCS2	Bromodichloromethane		5.0	5.00	ug/L	100	(70-130)	20	1.2
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201110190395	Bromodichloromethane	ND	10	10.1	ug/L	101	(70-130)		
MS_201110200137	Bromodichloromethane	ND	10	9.09	ug/L	91	(70-130)		
MSD_201110190395	Bromodichloromethane	ND	10	9.61	ug/L	96	(70-130)	20	5.0
MSD_201110200137	Bromodichloromethane	ND	10	9.34	ug/L	93	(70-130)	20	2.7
LCS1	Bromoform		5.0	4.88	ug/L	98	(70-130)		
LCS2	Bromoform		5.0	4.83	ug/L	97	(70-130)	20	1.0
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.440	ug/L	88	(50-150)		
MS_201110190395	Bromoform	ND	10	10.4	ug/L	104	(70-130)		
MS_201110200137	Bromoform	ND	10	8.79	ug/L	88	(70-130)		
MSD_201110190395	Bromoform	ND	10	9.71	ug/L	97	(70-130)	20	6.9
MSD_201110200137	Bromoform	ND	10	9.21	ug/L	92	(70-130)	20	4.7
LCS1	Bromomethane (Methyl Bromide)		5.0	5.84	ug/L	117	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.17	ug/L	103	(70-130)	20	12
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.390	ug/L	78	(50-150)		
MS_201110190395	Bromomethane (Methyl Bromide)	ND	10	9.85	ug/L	99	(70-130)		
MS_201110200137	Bromomethane (Methyl Bromide)	ND	10	8.73	ug/L	87	(70-130)		
MSD_201110190395	Bromomethane (Methyl Bromide)	ND	10	10.2	ug/L	102	(70-130)	20	3.5
MSD_201110200137	Bromomethane (Methyl Bromide)	ND	10	8.94	ug/L	89	(70-130)	20	2.4
LCS1	Carbon disulfide		5.0	5.33	ug/L	107	(70-130)		
LCS2	Carbon disulfide		5.0	4.92	ug/L	98	(70-130)	20	8.0
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.540	ug/L	108	(50-150)		
MS_201110190395	Carbon disulfide	ND	10	11.1	ug/L	111	(70-130)		
MS_201110200137	Carbon disulfide	ND	10	9.99	ug/L	100	(70-130)		
MSD_201110190395	Carbon disulfide	ND	10	10.1	ug/L	101	(70-130)	20	9.4
MSD_201110200137	Carbon disulfide	ND	10	9.99	ug/L	100	(70-130)	20	0.0
LCS1	Carbon Tetrachloride		5.0	5.5	ug/L	110	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.18	ug/L	104	(70-130)	20	6.0
MBLK	Carbon Tetrachloride			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

56/63

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)





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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Carbon Tetrachloride		0.5	0.520	ug/L	104	(50-150)		
MS_201110190395	Carbon Tetrachloride	ND	10	11.4	ug/L	114	(70-130)		
MS_201110200137	Carbon Tetrachloride	ND	10	10.2	ug/L	102	(70-130)		
MSD_201110190395	Carbon Tetrachloride	ND	10	10.5	ug/L	105	(70-130)	20	8.2
MSD_201110200137	Carbon Tetrachloride	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	Chlorobenzene		5.0	5.45	ug/L	109	(70-130)		
LCS2	Chlorobenzene		5.0	5.27	ug/L	105	(70-130)	20	3.4
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.570	ug/L	114	(50-150)		
MS_201110190395	Chlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201110200137	Chlorobenzene	ND	10	9.71	ug/L	97	(70-130)		
MSD_201110190395	Chlorobenzene	ND	10	9.84	ug/L	98	(70-130)	20	8.4
MSD_201110200137	Chlorobenzene	ND	10	9.8	ug/L	98	(70-130)	20	0.92
LCS1	Chlorodibromomethane		5.0	5.06	ug/L	101	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.9	ug/L	98	(70-130)	20	3.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.460	ug/L	92	(50-150)		
MS_201110190395	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)		
MS_201110200137	Chlorodibromomethane	ND	10	9.22	ug/L	92	(70-130)		
MSD_201110190395	Chlorodibromomethane	ND	10	9.59	ug/L	96	(70-130)	20	6.2
MSD_201110200137	Chlorodibromomethane	ND	10	9.45	ug/L	95	(70-130)	20	2.5
LCS1	Chloroethane		5.0	5.78	ug/L	116	(70-130)		
LCS2	Chloroethane		5.0	5.45	ug/L	109	(70-130)	20	5.9
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.440	ug/L	88	(50-150)		
MS_201110190395	Chloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201110200137	Chloroethane	ND	10	9.77	ug/L	98	(70-130)		
MSD_201110190395	Chloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201110200137	Chloroethane	ND	10	10.4	ug/L	104	(70-130)	20	6.3
LCS1	Chloroform (Trichloromethane)		5.0	5.36	ug/L	107	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.15	ug/L	103	(70-130)	20	4.0
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.530	ug/L	106	(50-150)		
MS_201110190395	Chloroform (Trichloromethane)	ND	10	10.5	ug/L	105	(70-130)		
MS_201110200137	Chloroform (Trichloromethane)	ND	10	9.5	ug/L	95	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

57/63

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201110190395	Chloroform (Trichloromethane)	ND	10	9.8	ug/L	98	(70-130)	20	6.9
MSD_201110200137	Chloroform (Trichloromethane)	ND	10	9.73	ug/L	97	(70-130)	20	2.4
LCS1	Chloromethane(Methyl Chloride)		5.0	4.71	ug/L	94	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.82	ug/L	96	(70-130)	20	2.3
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.550	ug/L	110	(50-150)		
MS_201110190395	Chloromethane(Methyl Chloride)	ND	10	9.76	ug/L	98	(70-130)		
MS_201110200137	Chloromethane(Methyl Chloride)	ND	10	8.84	ug/L	88	(70-130)		
MSD_201110190395	Chloromethane(Methyl Chloride)	ND	10	9.62	ug/L	96	(70-130)	20	1.4
MSD_201110200137	Chloromethane(Methyl Chloride)	ND	10	8.83	ug/L	88	(70-130)	20	0.11
LCS1	cis-1,2-Dichloroethylene		5.0	5.31	ug/L	106	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.93	ug/L	99	(70-130)	20	7.4
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.500	ug/L	100	(50-150)		
MS_201110190395	cis-1,2-Dichloroethylene	ND	10	10.3	ug/L	103	(70-130)		
MS_201110200137	cis-1,2-Dichloroethylene	ND	10	9.15	ug/L	92	(70-130)		
MSD_201110190395	cis-1,2-Dichloroethylene	ND	10	9.49	ug/L	95	(70-130)	20	8.2
MSD_201110200137	cis-1,2-Dichloroethylene	ND	10	9.29	ug/L	93	(70-130)	20	1.5
LCS1	cis-1,3-Dichloropropene		5.0	5.22	ug/L	104	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.14	ug/L	103	(70-130)	20	1.5
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.490	ug/L	98	(50-150)		
MS_201110190395	cis-1,3-Dichloropropene	ND	10	10.5	ug/L	105	(70-130)		
MS_201110200137	cis-1,3-Dichloropropene	ND	10	9.57	ug/L	96	(70-130)		
MSD_201110190395	cis-1,3-Dichloropropene	ND	10	9.9	ug/L	99	(70-130)	20	5.9
MSD_201110200137	cis-1,3-Dichloropropene	ND	10	9.49	ug/L	95	(70-130)	20	0.84
LCS1	Dibromomethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	Dibromomethane		5.0	5.03	ug/L	101	(70-130)	20	0.0
MBLK	Dibromomethane			<0.25	ug/L				
MRL_CHK	Dibromomethane		0.5	0.540	ug/L	108	(50-150)		
MS_201110190395	Dibromomethane	ND	10	9.9	ug/L	99	(70-130)		
MS_201110200137	Dibromomethane	ND	10	9.13	ug/L	91	(70-130)		
MSD_201110190395	Dibromomethane	ND	10	9.72	ug/L	97	(70-130)	20	1.8
MSD_201110200137	Dibromomethane	ND	10	8.97	ug/L	90	(70-130)	20	1.8
LCS1	Dichloromethane		5.0	5.04	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# MWH

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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dichloromethane		5.0	4.73	ug/L	95	(70-130)	20	6.3
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201110190395	Dichloromethane	ND	10	9.76	ug/L	98	(70-130)		
MS_201110200137	Dichloromethane	ND	10	8.97	ug/L	90	(70-130)		
MSD_201110190395	Dichloromethane	ND	10	9.28	ug/L	93	(70-130)	20	5.0
MSD_201110200137	Dichloromethane	ND	10	9.09	ug/L	91	(70-130)	20	1.3
LCS1	Ethyl benzene		5.0	5.08	ug/L	102	(70-130)		
LCS2	Ethyl benzene		5.0	5.14	ug/L	103	(70-130)	20	1.2
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.510	ug/L	102	(50-150)		
MS_201110190395	Ethyl benzene	ND	10	10.2	ug/L	102	(70-130)		
MS_201110200137	Ethyl benzene	ND	10	9.46	ug/L	95	(70-130)		
MSD_201110190395	Ethyl benzene	ND	10	9.62	ug/L	96	(70-130)	20	5.8
MSD_201110200137	Ethyl benzene	ND	10	9.45	ug/L	95	(70-130)	20	0.11
LCS1	Iodomethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	Iodomethane		5.0	4.95	ug/L	99	(70-130)	20	5.7
MBLK	Iodomethane			<0.1	ug/L				
MS_201110190395	Iodomethane	ND	10	11.1	ug/L	111	(70-130)		
MS_201110200137	Iodomethane	ND	10	11.2	ug/L	112	(70-130)		
MSD_201110190395	Iodomethane	ND	10	11.3	ug/L	113	(70-130)	20	1.8
MSD_201110200137	Iodomethane	ND	10	10.3	ug/L	102	(70-130)	20	8.4
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		
LCS2	m,p-Xylenes		10	11.0	ug/L	110	(70-130)	20	3.6
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.09	ug/L	109	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.690	ug/L	138	(50-150)		
MS_201110190395	m,p-Xylenes	ND	20	22.3	ug/L	112	(70-130)		
MS_201110200137	m,p-Xylenes	ND	20	20.0	ug/L	100	(70-130)		
MSD_201110190395	m,p-Xylenes	ND	20	20.5	ug/L	103	(70-130)	20	8.4
MSD_201110200137	m,p-Xylenes	ND	20	20.2	ug/L	101	(70-130)	20	1
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.05	ug/L	101	(70-130)	20	5.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.500	ug/L	100	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110190395	Methyl Tert-butyl ether (MTBE)	ND	10	9.87	ug/L	99	(70-130)		
MS_201110200137	Methyl Tert-butyl ether (MTBE)	ND	10	9.1	ug/L	91	(70-130)		
MSD_201110190395	Methyl Tert-butyl ether (MTBE)	ND	10	9.65	ug/L	97	(70-130)	20	2.3
MSD_201110200137	Methyl Tert-butyl ether (MTBE)	ND	10	9.05	ug/L	91	(70-130)	20	0.55
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.52	ug/L	110	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.29	ug/L	106	(70-130)	20	4.3
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.580	ug/L	116	(50-150)		
MS_201110190395	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MS_201110200137	o-Dichlorobenzene (1,2-DCB)	ND	10	9.46	ug/L	95	(70-130)		
MSD_201110190395	o-Dichlorobenzene (1,2-DCB)	ND	10	9.78	ug/L	98	(70-130)	20	8.1
MSD_201110200137	o-Dichlorobenzene (1,2-DCB)	ND	10	9.64	ug/L	96	(70-130)	20	1.9
LCS1	o-Xylene		5.0	5.36	ug/L	107	(70-130)		
LCS2	o-Xylene		5.0	5.32	ug/L	106	(70-130)	20	0.75
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.510	ug/L	102	(50-150)		
MS_201110190395	o-Xylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201110200137	o-Xylene	ND	10	9.73	ug/L	97	(70-130)		
MSD_201110190395	o-Xylene	ND	10	10.0	ug/L	100	(70-130)	20	7.7
MSD_201110200137	o-Xylene	ND	10	9.78	ug/L	98	(70-130)	20	0.51
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.48	ug/L	110	(70-130)	20	2.7
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.580	ug/L	116	(50-150)		
MS_201110190395	p-Dichlorobenzene (1,4-DCB)	ND	10	11.3	ug/L	113	(70-130)		
MS_201110200137	p-Dichlorobenzene (1,4-DCB)	ND	10	9.6	ug/L	96	(70-130)		
MSD_201110190395	p-Dichlorobenzene (1,4-DCB)	ND	10	10.6	ug/L	106	(70-130)	20	6.4
MSD_201110200137	p-Dichlorobenzene (1,4-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	5.1
LCS1	Styrene		5.0	5.62	ug/L	112	(70-130)		
LCS2	Styrene		5.0	5.5	ug/L	110	(70-130)	20	2.2
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.530	ug/L	106	(50-150)		
MS_201110190395	Styrene	ND	10	11.0	ug/L	110	(70-130)		
MS_201110200137	Styrene	ND	10	7.23	ug/L	72	(70-130)		
MSD_201110190395	Styrene	ND	10	10.2	ug/L	102	(70-130)	20	7.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201110200137	Styrene	ND	10	6.97	ug/L	70	(70-130)	20	3.7
LCS1	Tetrachloroethylene (PCE)		5.0	5.33	ug/L	107	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.28	ug/L	106	(70-130)	20	0.94
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.550	ug/L	110	(50-150)		
MS_201110190395	Tetrachloroethylene (PCE)	ND	10	11.5	ug/L	115	(70-130)		
MS_201110200137	Tetrachloroethylene (PCE)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201110190395	Tetrachloroethylene (PCE)	ND	10	10.6	ug/L	106	(70-130)	20	8.1
MSD_201110200137	Tetrachloroethylene (PCE)	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	Toluene		5.0	5.47	ug/L	109	(70-130)		
LCS2	Toluene		5.0	5.33	ug/L	107	(70-130)	20	2.6
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.540	ug/L	108	(50-150)		
MS_201110190395	Toluene	ND	10	10.8	ug/L	108	(70-130)		
MS_201110200137	Toluene	ND	10	9.76	ug/L	98	(70-130)		
MSD_201110190395	Toluene	ND	10	10.1	ug/L	101	(70-130)	20	6.7
MSD_201110200137	Toluene	ND	10	9.97	ug/L	100	(70-130)	20	2.1
LCS1	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS2	Toluene-d8 (S)			98.4	%	98	(70-130)		
MBLK	Toluene-d8 (S)			101	%	101	(70-130)		
MRL_CHK	Toluene-d8 (S)			101	%	101	(70-130)		
MRLW	Toluene-d8 (S)			100	%	100	(70-130)		
MS_201110190395	Toluene-d8 (S)			102	%	102	(70-130)		
MS_201110200137	Toluene-d8 (S)			97.8	%	98	(70-130)		
MSD_201110190395	Toluene-d8 (S)			99.8	%	100	(70-130)		
MSD_201110200137	Toluene-d8 (S)			97.2	%	97	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.32	ug/L	106	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.04	ug/L	101	(70-130)	20	5.4
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201110190395	trans-1,2-Dichloroethylene	ND	10	10.9	ug/L	109	(70-130)		
MS_201110200137	trans-1,2-Dichloroethylene	ND	10	9.61	ug/L	96	(70-130)		
MSD_201110190395	trans-1,2-Dichloroethylene	ND	10	10.0	ug/L	100	(70-130)	20	8.6
MSD_201110200137	trans-1,2-Dichloroethylene	ND	10	9.85	ug/L	99	(70-130)	20	2.5
LCS1	trans-1,3-Dichloropropene		5.0	5.08	ug/L	102	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	trans-1,3-Dichloropropene		5.0	5.12	ug/L	102	(70-130)	20	0.78
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.490	ug/L	98	(50-150)		
MS_201110190395	trans-1,3-Dichloropropene	ND	10	10.2	ug/L	102	(70-130)		
MS_201110200137	trans-1,3-Dichloropropene	ND	10	9.22	ug/L	92	(70-130)		
MSD_201110190395	trans-1,3-Dichloropropene	ND	10	9.76	ug/L	98	(70-130)	20	4.4
MSD_201110200137	trans-1,3-Dichloropropene	ND	10	9.4	ug/L	94	(70-130)	20	1.9
LCS1	trans-1,4-dichloro-2-butene		5.0	5.04	ug/L	101	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	4.86	ug/L	97	(70-130)	20	3.6
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201110190395	trans-1,4-dichloro-2-butene	ND	10	10.1	ug/L	101	(70-130)		
MS_201110200137	trans-1,4-dichloro-2-butene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201110190395	trans-1,4-dichloro-2-butene	ND	10	10.7	ug/L	107	(70-130)	20	5.8
MSD_201110200137	trans-1,4-dichloro-2-butene	ND	10	9.75	ug/L	97	(70-130)	20	6.5
LCS1	Trichloroethylene (TCE)		5.0	5.54	ug/L	111	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.33	ug/L	107	(70-130)	20	3.9
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.560	ug/L	112	(50-150)		
MS_201110190395	Trichloroethylene (TCE)	ND	10	11.2	ug/L	112	(70-130)		
MS_201110200137	Trichloroethylene (TCE)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201110190395	Trichloroethylene (TCE)	ND	10	10.7	ug/L	107	(70-130)	20	4.6
MSD_201110200137	Trichloroethylene (TCE)	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	Trichlorofluoromethane		5.0	5.81	ug/L	116	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.31	ug/L	106	(70-130)	20	9.0
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.530	ug/L	106	(50-150)		
MS_201110190395	Trichlorofluoromethane	ND	10	12.1	ug/L	121	(70-130)		
MS_201110200137	Trichlorofluoromethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201110190395	Trichlorofluoromethane	ND	10	11.2	ug/L	112	(70-130)	20	7.7
MSD_201110200137	Trichlorofluoromethane	ND	10	10.8	ug/L	108	(70-130)	20	1.9
LCS1	Vinyl Acetate		25	29.8	ug/L	119	(70-130)		
LCS2	Vinyl Acetate		25	29.5	ug/L	118	(70-130)	20	1.0
MBLK	Vinyl Acetate			<5.0	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.89	ug/L	116	(50-150)		
MS_201110190395	Vinyl Acetate	ND	50	56.9	ug/L	114	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory  
QC Report: 379346

City of Phoenix  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201110200137	Vinyl Acetate	ND	50	38.0	ug/L	76	(70-130)		
MSD_201110190395	Vinyl Acetate	ND	50	55.6	ug/L	111	(70-130)	20	2.3
MSD_201110200137	Vinyl Acetate	ND	50	35.5	ug/L	71	(70-130)	20	6.8
LCS1	Vinyl chloride (VC)		5.0	5.71	ug/L	114	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.31	ug/L	106	(70-130)	20	7.3
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.590	ug/L	118	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.360	ug/L	144	(50-150)		
MS_201110190395	Vinyl chloride (VC)	ND	10	12.0	ug/L	120	(70-130)		
MS_201110200137	Vinyl chloride (VC)	ND	10	10.4	ug/L	105	(70-130)		
MSD_201110190395	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	6.9
MSD_201110200137	Vinyl chloride (VC)	ND	10	10.7	ug/L	107	(70-130)	20	1.9

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)