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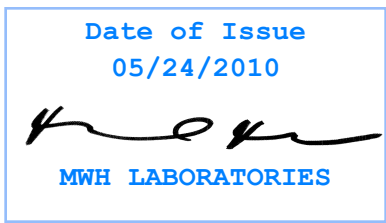
A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100
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1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

City of Phoenix
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810
Attention: Cristina Wilfong
Fax: 602-534-8599



Report#: 333070
Project: SR85
Group: SR85-2010-2

TDF: Thomas.D.French
Project Manager

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.

Acknowledgement of Samples Received
City of Phoenix

 Public Works Department
 3060 South 27th Avenue
 Phoenix, AZ 85009-6810
 Attn: Cristina Wilfong
 Phone: 602-534-8512

 Customer Code: PHOENIX-LF
 Group #: 333070
 Project #: SR85
 Sample Group: SR85-2010-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **May 10, 2010**. 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
201005100087	85A-210	10-May-2010 1036
	Sample Type: FO Well Id: MW-3	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
201005100088	85A-210 MS	10-May-2010 1036
	Sample Type: QC Well Id: MW-3	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Zinc Total ICAP/MS	
201005100089	85A-210 MSD	10-May-2010 1036
	Sample Type: QC Well Id: MW-3	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Zinc Total ICAP/MS	
201005100090	85A-210 DUP	10-May-2010 1036
	Sample Type: QC Well Id: MW-3	
	Total Dissolved Solid (TDS)	
201005100091	85ATB-210	10-May-2010 1036
	Sample Type: TB Well Id: MW-3	
	@504 @VOA	

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 Attn: Cristina Wilfong
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 Customer Code: PHOENIX-LF
 Group #: 333070
 Project #: SR85
 Sample Group: SR85-2010-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **May 10, 2010**. 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
201005100092	85F-210	10-May-2010 1146
	Sample Type: FO Well Id: MW-4	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
201005100093	85E-210	10-May-2010 1147
	Sample Type: FD Well Id: MW-4	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
201005100094	85D-210	10-May-2010 1246
	Sample Type: FO Well Id: MW-1	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units @ANIONS48 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 Selenium Total ICAP/MS	
	Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
201005100095	85DTB-210	10-May-2010 1246
	Sample Type: TB Well Id: MW-1	
	@504 @VOA	
201005100096	85B-210	10-May-2010 1036
	Sample Type: FO Well Id: MW-2	

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 Customer Code: PHOENIX-LF
 Group #: 333070
 Project #: SR85
 Sample Group: SR85-2010-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

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Sample #	Sample Id	Sample Date
	@504	@VOA
	Alkalinity in CaCO3 units	@ANIONS48
	Barium Total ICAP/MS	Cadmium Total ICAP/MS
	Chromium Total ICAP/MS	Copper Total ICAP/MS
	Lead Total ICAP/MS	Nickel Total ICAP/MS
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)
		Mercury
		Arsenic Total ICAP/MS
		Chloride
		Fluoride
		Selenium Total ICAP/MS
		Zinc Total ICAP/MS

Test Description

- @504 -- EPA Method 504.1
- @VOA -- Volatile Organics by GCMS
- @504 -- EPA Method 504.1
- @VOA -- Volatile Organics by GCMS
- @ANIONS48 -- Nitrate, Nitrite by EPA 300.0



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Laboratory Comments
Report: #333070



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Laboratory
Hits Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201005100087	<u>85A-210</u>			
05/20/2010	19:30	Alkalinity in CaCO3 units	99		mg/L	2
05/18/2010	18:30	Arsenic Total ICAP/MS	11	10	ug/L	5
05/12/2010	16:37	Barium Total ICAP/MS	47	2000	ug/L	2
05/14/2010	11:15	Chloride	810	250	mg/L	25
05/18/2010	18:30	Chromium Total ICAP/MS	12	100	ug/L	5
05/13/2010	15:13	Fluoride	4.5	4	mg/L	0.1
05/11/2010	16:36	Nitrate as Nitrogen by IC	2.1	10	mg/L	1
05/11/2010	16:36	Nitrate as NO3 (calc)	9.3	45	mg/L	4.4
05/13/2010	14:35	Total Dissolved Solids (TDS)	1700	500	mg/L	10
05/11/2010	16:36	Total Nitrate, Nitrite-N, CALC	2.1		mg/L	0.1
		201005100090	<u>85A-210 DUP</u>			
05/13/2010	14:57	Total Dissolved Solids (TDS)	1700	500	mg/L	10
		201005100092	<u>85F-210</u>			
05/20/2010	19:55	Alkalinity in CaCO3 units	110		mg/L	2
05/18/2010	18:35	Arsenic Total ICAP/MS	8.2	10	ug/L	5
05/12/2010	16:51	Barium Total ICAP/MS	94	2000	ug/L	2
05/11/2010	17:15	Chloride	1000	250	mg/L	50
05/18/2010	18:35	Chromium Total ICAP/MS	13	100	ug/L	5
05/13/2010	12:38	Fluoride	2.3	4	mg/L	0.05
05/12/2010	16:51	Nickel Total ICAP/MS	14		ug/L	5
05/11/2010	17:15	Nitrate as Nitrogen by IC	9.9	10	mg/L	5
05/11/2010	17:15	Nitrate as NO3 (calc)	44	45	mg/L	22
05/12/2010	16:51	Selenium Total ICAP/MS	7.3	50	ug/L	5
05/13/2010	14:39	Total Dissolved Solids (TDS)	2800	500	mg/L	10
05/11/2010	17:15	Total Nitrate, Nitrite-N, CALC	9.9		mg/L	0.1
		201005100093	<u>85E-210</u>			
05/20/2010	20:18	Alkalinity in CaCO3 units	110		mg/L	2
05/18/2010	18:40	Arsenic Total ICAP/MS	9.0	10	ug/L	5
05/12/2010	16:56	Barium Total ICAP/MS	91	2000	ug/L	2
05/11/2010	17:28	Chloride	1000	250	mg/L	50
05/18/2010	18:40	Chromium Total ICAP/MS	14	100	ug/L	5
05/13/2010	12:39	Fluoride	2.3	4	mg/L	0.05
05/12/2010	16:56	Nickel Total ICAP/MS	7.6		ug/L	5
05/11/2010	17:28	Nitrate as Nitrogen by IC	9.7	10	mg/L	5



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Samples Received on:
05/10/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
05/11/2010	17:28	Nitrate as NO3 (calc)	43	45	mg/L	22
05/12/2010	16:56	Selenium Total ICAP/MS	7.2	50	ug/L	5
05/13/2010	14:40	Total Dissolved Solids (TDS)	2800	500	mg/L	10
05/11/2010	17:28	Total Nitrate, Nitrite-N, CALC	9.7		mg/L	0.1
		201005100094				
		85D-210				
05/20/2010	20:27	Alkalinity in CaCO3 units	150		mg/L	2
05/18/2010	18:55	Arsenic Total ICAP/MS	14	10	ug/L	5
05/12/2010	17:11	Barium Total ICAP/MS	73	2000	ug/L	2
05/11/2010	17:41	Chloride	2100	250	mg/L	50
05/18/2010	18:55	Chromium Total ICAP/MS	22	100	ug/L	5
05/12/2010	17:11	Copper Total ICAP/MS	4.9	1300	ug/L	2
05/13/2010	12:40	Fluoride	0.40	4	mg/L	0.05
05/12/2010	17:11	Nickel Total ICAP/MS	7.5		ug/L	5
05/11/2010	17:41	Nitrate as Nitrogen by IC	25	10	mg/L	5
05/11/2010	17:41	Nitrate as NO3 (calc)	110	45	mg/L	22
05/12/2010	17:11	Selenium Total ICAP/MS	12	50	ug/L	5
05/13/2010	14:41	Total Dissolved Solids (TDS)	5300	500	mg/L	10
05/11/2010	17:41	Total Nitrate, Nitrite-N, CALC	25		mg/L	0.1
		201005100096				
		85B-210				
05/20/2010	20:34	Alkalinity in CaCO3 units	91		mg/L	2
05/18/2010	19:00	Arsenic Total ICAP/MS	8.9	10	ug/L	5
05/12/2010	17:16	Barium Total ICAP/MS	53	2000	ug/L	2
05/11/2010	17:55	Chloride	1300	250	mg/L	50
05/18/2010	19:00	Chromium Total ICAP/MS	14	100	ug/L	5
05/12/2010	17:16	Copper Total ICAP/MS	3.2	1300	ug/L	2
05/13/2010	12:41	Fluoride	2.5	4	mg/L	0.05
05/12/2010	17:16	Nickel Total ICAP/MS	8.2		ug/L	5
05/11/2010	17:55	Nitrate as Nitrogen by IC	12	10	mg/L	5
05/11/2010	17:55	Nitrate as NO3 (calc)	54	45	mg/L	22
05/12/2010	17:16	Selenium Total ICAP/MS	8.5	50	ug/L	5
05/13/2010	14:42	Total Dissolved Solids (TDS)	3400	500	mg/L	10
05/11/2010	17:55	Total Nitrate, Nitrite-N, CALC	12		mg/L	0.1



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
85A-210 (201005100087)						Sampled on 05/10/2010 1036		
Sample Type: FO Well Id: MW-3								
EPA 200.8 - ICPMS Metals								
05/18/2010	18:30	554336	(EPA 200.8)	Arsenic Total ICAP/MS	11	ug/L	5	5
05/12/2010	16:37	553525	(EPA 200.8)	Barium Total ICAP/MS	47	ug/L	2	1
05/12/2010	16:37	553525	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
05/18/2010	18:30	554336	(EPA 200.8)	Chromium Total ICAP/MS	12	ug/L	5	5
05/12/2010	16:37	553525	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
05/12/2010	16:37	553525	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	16:37	553525	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
05/12/2010	16:37	553525	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
05/12/2010	16:37	553525	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	16:37	553525	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
5/13/2010	05/14/2010	11:31	554133	(EPA 245.1)	Mercury	ND	ug/L	0.2 1
EPA 8011 - EPA Method 504.1								
5/12/2010	05/12/2010	21:35	553849	(EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01 1
5/12/2010	05/12/2010	21:35	553849	(EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01 1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
05/11/2010	16:36	553449	(EPA 300.0)	Nitrate as Nitrogen by IC	2.1	mg/L	1	10
05/11/2010	16:36	553449	(EPA 300.0)	Nitrate as NO3 (calc)	9.3	mg/L	4.4	10
05/11/2010	16:36	553449	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.13	10
05/11/2010	16:36	553449	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	2.1	mg/L	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
05/14/2010	11:15	553896	(EPA 300.0)	Chloride	810	mg/L	25	25
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5 1

9/49

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



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Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1

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Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2010	05/18/2010	18:18	554530 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	18:18	554530 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	18:18	554530 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	05/13/2010	15:13	553755 (SM 4500F-C)	Fluoride	4.5	mg/L	0.1	2
SM 2320B - Alkalinity in CaCO3 units								
	05/20/2010	19:30	554840 (SM 2320B)	Alkalinity in CaCO3 units	99	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
5/13/2010	05/13/2010	14:35	553722 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1700	mg/L	10	1
85A-210 MS (201005100088)						Sampled on 05/10/2010 1036		
Sample Type: QC								
Well Id: MW-3								
EPA 200.8 - ICPMS Metals								
	05/12/2010	16:42	553525 (EPA 200.8)	Arsenic Total ICAP/MS	92	%	1	1
	05/12/2010	16:42	553525 (EPA 200.8)	Barium Total ICAP/MS	90	%	2	1
	05/12/2010	16:42	553525 (EPA 200.8)	Cadmium Total ICAP/MS	85	%	0.5	1
	05/12/2010	16:42	553525 (EPA 200.8)	Chromium Total ICAP/MS	87	%	1	1
	05/12/2010	16:42	553525 (EPA 200.8)	Copper Total ICAP/MS	85	%	2	1
	05/12/2010	16:42	553525 (EPA 200.8)	Lead Total ICAP/MS	90	%	0.5	1
	05/12/2010	16:42	553525 (EPA 200.8)	Nickel Total ICAP/MS	84	%	5	1
	05/12/2010	16:42	553525 (EPA 200.8)	Selenium Total ICAP/MS	91	%	5	1
	05/12/2010	16:42	553525 (EPA 200.8)	Silver Total ICAP/MS	82	%	0.5	1
	05/12/2010	16:42	553525 (EPA 200.8)	Zinc Total ICAP/MS	84	%	20	1
EPA 245.1 - Mercury								
5/13/2010	05/14/2010	11:33	554133 (EPA 245.1)	Mercury	101	%	0.2	1
EPA 8011 - EPA Method 504.1								
5/12/2010	05/12/2010	22:11	553849 (EPA 8011)	Dibromochloropropane (DBCP)	81	%	0.01	1
5/12/2010	05/12/2010	22:11	553849 (EPA 8011)	Ethylene Dibromide (EDB)	86	%	0.01	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	05/11/2010	16:49	553449 (EPA 300.0)	Nitrate as Nitrogen by IC	102	%	1	10
	05/11/2010	16:49	553449 (EPA 300.0)	Nitrate as NO3 (calc)	102	%	4.4	10
	05/11/2010	16:49	553449 (EPA 300.0)	Nitrite Nitrogen by IC	64	%	0.5	10
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	05/14/2010	11:28	553896 (EPA 300.0)	Chloride	111	%	25	25

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



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1,1,2-Tetrachloroethane	95	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1,1-Trichloroethane	103	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1,2,2-Tetrachloroethane	95	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1,2-Trichloroethane	94	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1-Dichloroethane	94	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,1-Dichloroethylene	103	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,2,3-Trichloropropane	119	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,2-Dichloroethane	96	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	1,2-Dichloropropane	91	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	2-Butanone (MEK)	95	%	5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	2-Hexanone	105	%	10	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	106	%	5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Acetone	92	%	10	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Acrylonitrile (Screen)	111	%	50	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Benzene	102	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Bromochloromethane	94	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Bromodichloromethane	93	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Bromoform	93	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	104	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Carbon disulfide	106	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Carbon Tetrachloride	100	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Chlorobenzene	99	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Chlorodibromomethane	94	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Chloroethane	98	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Chloroform (Trichloromethane)	97	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	98	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	cis-1,2-Dichloroethylene	98	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	cis-1,3-Dichloropropene	97	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Dibromomethane	100	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Dichloromethane	95	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Ethyl benzene	105	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Iodomethane	100	%	0.1	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	m,p-Xylenes	108	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	98	%	0.5	1
5/18/2010	05/18/2010	18:40	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	97	%	0.5	1

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



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	o-Xylene	107	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	100	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Styrene	97	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Tetrachloroethylene (PCE)	97	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Toluene	100	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Total xylenes	108	%	1	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	trans-1,2-Dichloroethylene	101	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	trans-1,3-Dichloropropene	95	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	trans-1,4-dichloro-2-butene	101	%	10	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Trichloroethylene (TCE)	97	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Trichlorofluoromethane	100	%	0.5	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Vinyl Acetate	91	%	10	1	
5/18/2010	05/18/2010	18:40	554530 (EPA 8260)	Vinyl chloride (VC)	104	%	0.3	1	
SM 4500F-C - Fluoride									
	05/13/2010	15:14	553755 (SM 4500F-C)	Fluoride	165	%	0.05	1	
SM 2320B - Alkalinity in CaCO3 units									
	05/20/2010	19:39	554840 (SM 2320B)	Alkalinity in CaCO3 units	94	%	2	1	
85A-210 MSD (201005100089)									
Sample Type: QC									
Well Id: MW-3									
EPA 200.8 - ICPMS Metals									
	05/12/2010	16:46	553525 (EPA 200.8)	Arsenic Total ICAP/MS	91	%	1	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Barium Total ICAP/MS	92	%	2	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Cadmium Total ICAP/MS	87	%	0.5	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Chromium Total ICAP/MS	87	%	1	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Copper Total ICAP/MS	85	%	2	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Lead Total ICAP/MS	91	%	0.5	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Nickel Total ICAP/MS	84	%	5	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Selenium Total ICAP/MS	93	%	5	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Silver Total ICAP/MS	83	%	0.5	1	
	05/12/2010	16:46	553525 (EPA 200.8)	Zinc Total ICAP/MS	84	%	20	1	
EPA 245.1 - Mercury									
	5/13/2010	05/14/2010	11:36	554133 (EPA 245.1)	Mercury	101	%	0.2	1
EPA 8011 - EPA Method 504.1									
	5/12/2010	05/12/2010	22:47	553849 (EPA 8011)	Dibromochloropropane (DBCP)	93	%	0.01	1

Sampled on 05/10/2010 1036



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/12/2010	05/12/2010	22:47	553849 (EPA 8011)	Ethylene Dibromide (EDB)	97	%	0.01	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	05/11/2010	17:02	553449 (EPA 300.0)	Nitrate as Nitrogen by IC	103	%	1	10
	05/11/2010	17:02	553449 (EPA 300.0)	Nitrate as NO3 (calc)	103	%	4.4	10
	05/11/2010	17:02	553449 (EPA 300.0)	Nitrite Nitrogen by IC	64	%	0.5	10
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	05/14/2010	11:41	553896 (EPA 300.0)	Chloride	110	%	25	25
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1,1,2-Tetrachloroethane	101	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1,1-Trichloroethane	107	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1,2,2-Tetrachloroethane	98	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1,2-Trichloroethane	97	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1-Dichloroethane	100	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,1-Dichloroethylene	107	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,2,3-Trichloropropane	123	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,2-Dichloroethane	98	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	1,2-Dichloropropane	96	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	2-Butanone (MEK)	98	%	5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	2-Hexanone	113	%	10	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	111	%	5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Acetone	93	%	10	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Acrylonitrile (Screen)	119	%	50	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Benzene	107	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Bromochloromethane	95	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Bromodichloromethane	99	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Bromoform	93	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Bromomethane (Methyl Bromide)	111	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Carbon disulfide	110	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Carbon Tetrachloride	106	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Chlorobenzene	104	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Chlorodibromomethane	96	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Chloroethane	106	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Chloroform (Trichloromethane)	100	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	Chloromethane(Methyl Chloride)	108	%	0.5	1
5/18/2010	05/18/2010	19:03	554530 (EPA 8260)	cis-1,2-Dichloroethylene	103	%	0.5	1

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



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include various chemical analyses like cis-1,3-Dichloropropene, Dibromomethane, etc.

SM 4500F-C - Fluoride

Table row for SM 4500F-C - Fluoride analysis showing result 77.

SM 2320B - Alkalinity in CaCO3 units

Table row for SM 2320B - Alkalinity in CaCO3 units showing result 96.

85A-210 DUP (201005100090)

Sampled on 05/10/2010 1036

Sample Type: QC
Well Id: MW-3

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

Table row for E160.1/SM2540C - Total Dissolved Solids (TDS) showing result 1700 mg/L.

85ATB-210 (201005100091)

Sampled on 05/10/2010 1036

Sample Type: TB
Well Id: MW-3

EPA 8011 - EPA Method 504.1

Table rows for EPA 8011 - EPA Method 504.1 showing results for Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB).

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(c) - indicates calculated results



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Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	19:48	554530 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530 (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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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	19:48	554530	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

85F-210 (201005100092)

Sampled on 05/10/2010 1146

Sample Type: FO
Well Id: MW-4

EPA 200.8 - ICPMS Metals

05/18/2010	18:35	554336	(EPA 200.8)	Arsenic Total ICAP/MS	8.2	ug/L	5	5
05/12/2010	16:51	553525	(EPA 200.8)	Barium Total ICAP/MS	94	ug/L	2	1
05/12/2010	16:51	553525	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
05/18/2010	18:35	554336	(EPA 200.8)	Chromium Total ICAP/MS	13	ug/L	5	5
05/12/2010	16:51	553525	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
05/12/2010	16:51	553525	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	16:51	553525	(EPA 200.8)	Nickel Total ICAP/MS	14	ug/L	5	1
05/12/2010	16:51	553525	(EPA 200.8)	Selenium Total ICAP/MS	7.3	ug/L	5	1
05/12/2010	16:51	553525	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	16:51	553525	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1

EPA 245.1 - Mercury

5/13/2010	05/14/2010	11:37	554133	(EPA 245.1)	Mercury	ND	ug/L	0.2	1
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EPA 8011 - EPA Method 504.1

5/12/2010	05/13/2010	00:00	553849	(EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/12/2010	05/13/2010	00:00	553849	(EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

EPA 300.0 - Nitrate, Nitrite by EPA 300.0

05/11/2010	17:15	553449	(EPA 300.0)	Nitrate as Nitrogen by IC	9.9	mg/L	5	50
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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
	05/11/2010	17:15	553449	(EPA 300.0)	Nitrate as NO3 (calc)	44	mg/L	22	50
	05/11/2010	17:15	553449	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.65	50
	05/11/2010	17:15	553449	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	9.9	mg/L	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	05/11/2010	17:15	553398	(EPA 300.0)	Chloride	1000	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS									
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1

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



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	20:11	554530 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	05/13/2010	12:38	553719 (SM 4500F-C)	Fluoride	2.3	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	05/20/2010	19:55	554840 (SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
5/13/2010	05/13/2010	14:39	553722 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2800	mg/L	10	1
85E-210 (201005100093)								
Sample Type: FD								
Well Id: MW-4								
EPA 200.8 - ICPMS Metals								
05/18/2010	18:40	554336	(EPA 200.8)	Arsenic Total ICAP/MS	9.0	ug/L	5	5
05/12/2010	16:56	553525	(EPA 200.8)	Barium Total ICAP/MS	91	ug/L	2	1
05/12/2010	16:56	553525	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
05/18/2010	18:40	554336	(EPA 200.8)	Chromium Total ICAP/MS	14	ug/L	5	5
05/12/2010	16:56	553525	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
05/12/2010	16:56	553525	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1

Sampled on 05/10/2010 1147



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	05/12/2010	16:56	553525 (EPA 200.8)	Nickel Total ICAP/MS	7.6	ug/L	5	1
	05/12/2010	16:56	553525 (EPA 200.8)	Selenium Total ICAP/MS	7.2	ug/L	5	1
	05/12/2010	16:56	553525 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	05/12/2010	16:56	553525 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
5/13/2010	05/14/2010	11:43	554133 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
5/12/2010	05/13/2010	00:36	553849 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/12/2010	05/13/2010	00:36	553849 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	05/11/2010	17:28	553449 (EPA 300.0)	Nitrate as Nitrogen by IC	9.7	mg/L	5	50
	05/11/2010	17:28	553449 (EPA 300.0)	Nitrate as NO3 (calc)	43	mg/L	22	50
	05/11/2010	17:28	553449 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.65	50
	05/11/2010	17:28	553449 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	9.7	mg/L	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	05/11/2010	17:28	553398 (EPA 300.0)	Chloride	1000	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530 (EPA 8260)	Bromoform	ND	ug/L	0.5	1



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Laboratory Data
Report: 333070

City of Phoenix
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Public Works Department
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Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	20:33	554530	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

SM 4500F-C - Fluoride

05/13/2010	12:39	553719	(SM 4500F-C)	Fluoride	2.3	mg/L	0.05	1
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SM 2320B - Alkalinity in CaCO3 units

05/20/2010	20:18	554840	(SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
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E160.1/SM2540C - Total Dissolved Solids (TDS)

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



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/13/2010	05/13/2010	14:40	553722	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2800	mg/L	10 1
85D-210 (201005100094)						Sampled on 05/10/2010 1246		
Sample Type: FO Well Id: MW-1								
EPA 200.8 - ICPMS Metals								
05/18/2010	18:55	554336	(EPA 200.8)	Arsenic Total ICAP/MS	14	ug/L	5	5
05/12/2010	17:11	553525	(EPA 200.8)	Barium Total ICAP/MS	73	ug/L	2	1
05/12/2010	17:11	553525	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
05/18/2010	18:55	554336	(EPA 200.8)	Chromium Total ICAP/MS	22	ug/L	5	5
05/12/2010	17:11	553525	(EPA 200.8)	Copper Total ICAP/MS	4.9	ug/L	2	1
05/12/2010	17:11	553525	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	17:11	553525	(EPA 200.8)	Nickel Total ICAP/MS	7.5	ug/L	5	1
05/12/2010	17:11	553525	(EPA 200.8)	Selenium Total ICAP/MS	12	ug/L	5	1
05/12/2010	17:11	553525	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
05/12/2010	17:11	553525	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
5/13/2010	05/14/2010	11:44	554133	(EPA 245.1)	Mercury	ND	ug/L	0.2 1
EPA 8011 - EPA Method 504.1								
5/12/2010	05/13/2010	01:12	553849	(EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01 1
5/12/2010	05/13/2010	01:12	553849	(EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01 1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
05/11/2010	17:41	553449	(EPA 300.0)	Nitrate as Nitrogen by IC	25	mg/L	5	50
05/11/2010	17:41	553449	(EPA 300.0)	Nitrate as NO3 (calc)	110	mg/L	22	50
05/11/2010	17:41	553449	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.65	50
05/11/2010	17:41	553449	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	25	mg/L	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
05/11/2010	17:41	553398	(EPA 300.0)	Chloride	2100	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5 1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5 1

22/49

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



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Laboratory Data
Report: 333070

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

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2010	05/18/2010	20:55	554530 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
5/18/2010	05/18/2010	20:55	554530 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	20:55	554530 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	20:55	554530 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	05/13/2010	12:40	553719 (SM 4500F-C)	Fluoride	0.40	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	05/20/2010	20:27	554840 (SM 2320B)	Alkalinity in CaCO3 units	150	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
5/13/2010	05/13/2010	14:41	553722 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5300	mg/L	10	1
85DTB-210 (201005100095)						Sampled on 05/10/2010 1246		
Sample Type: TB								
Well Id: MW-1								
EPA 8011 - EPA Method 504.1								
5/12/2010	05/13/2010	01:48	553849 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/12/2010	05/13/2010	01:48	553849 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	Acetone	ND	ug/L	10	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	Benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1



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Laboratory Data
Report: 333070

City of Phoenix
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Public Works Department
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Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Styrene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Toluene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Total xylenes	ND	ug/L	1	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
5/18/2010	05/18/2010	21:18	554530	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

85B-210 (201005100096)

Sampled on 05/10/2010 1036

Sample Type: FO
Well Id: MW-2

EPA 200.8 - ICPMS Metals

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



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Laboratory Data
Report: 333070

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

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	05/18/2010	19:00	554336 (EPA 200.8)	Arsenic Total ICAP/MS	8.9	ug/L	5	5
	05/12/2010	17:16	553525 (EPA 200.8)	Barium Total ICAP/MS	53	ug/L	2	1
	05/12/2010	17:16	553525 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	05/18/2010	19:00	554336 (EPA 200.8)	Chromium Total ICAP/MS	14	ug/L	5	5
	05/12/2010	17:16	553525 (EPA 200.8)	Copper Total ICAP/MS	3.2	ug/L	2	1
	05/12/2010	17:16	553525 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	05/12/2010	17:16	553525 (EPA 200.8)	Nickel Total ICAP/MS	8.2	ug/L	5	1
	05/12/2010	17:16	553525 (EPA 200.8)	Selenium Total ICAP/MS	8.5	ug/L	5	1
	05/12/2010	17:16	553525 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	05/12/2010	17:16	553525 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
5/13/2010	05/14/2010	11:46	554133 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
5/12/2010	05/13/2010	02:24	553849 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/12/2010	05/13/2010	02:24	553849 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	05/11/2010	17:55	553449 (EPA 300.0)	Nitrate as Nitrogen by IC	12	mg/L	5	50
	05/11/2010	17:55	553449 (EPA 300.0)	Nitrate as NO3 (calc)	54	mg/L	22	50
	05/11/2010	17:55	553449 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.65	50
	05/11/2010	17:55	553449 (EPA 300.0)	Total Nitrate, Nitrite-N, CALC	12	mg/L	0.1	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	05/11/2010	17:55	553398 (EPA 300.0)	Chloride	1300	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
5/18/2010	05/18/2010	21:40	554530 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1

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



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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Acetone	ND	10	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Acrylonitrile (Screen)	ND	50	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Benzene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Bromochloromethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Bromodichloromethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Bromoform	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Carbon disulfide	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Carbon Tetrachloride	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Chlorobenzene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Chlorodibromomethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Chloroethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Chloroform (Trichloromethane)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	cis-1,2-Dichloroethylene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	cis-1,3-Dichloropropene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Dibromomethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Dichloromethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Ethyl benzene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Iodomethane	ND	0.1	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	m,p-Xylenes	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	o-Xylene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Styrene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Tetrachloroethylene (PCE)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Toluene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Total xylenes	ND	1	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	trans-1,2-Dichloroethylene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	trans-1,3-Dichloropropene	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	10	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Trichloroethylene (TCE)	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Trichlorofluoromethane	ND	0.5	1
5/18/2010	05/18/2010	21:40	554530	(EPA 8260)	Vinyl Acetate	ND	10	1

Rounding on totals after summation.
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Laboratory Data
Report: 333070

City of Phoenix
Cristina Wilfong
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/10/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2010	05/18/2010	21:40 554530	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
				SM 4500F-C - Fluoride				
	05/13/2010	12:41 553719	(SM 4500F-C)	Fluoride	2.5	mg/L	0.05	1
				SM 2320B - Alkalinity in CaCO3 units				
	05/20/2010	20:34 554840	(SM 2320B)	Alkalinity in CaCO3 units	91	mg/L	2	1
				E160.1/SM2540C - Total Dissolved Solids (TDS)				
5/13/2010	05/13/2010	14:42 553722	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	3400	mg/L	10	1



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QC Ref # 553398 - Chloride, Sulfate by EPA 300.0

201005100092 85F-210
201005100093 85E-210
201005100094 85D-210
201005100096 85B-210

Analysis Date: 05/11/2010

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

QC Ref # 553449 - Nitrate, Nitrite by EPA 300.0

201005100087 85A-210
201005100088 85A-210 MS
201005100089 85A-210 MSD
201005100092 85F-210
201005100093 85E-210
201005100094 85D-210
201005100096 85B-210

Analysis Date: 05/11/2010

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

QC Ref # 553525 - ICPMS Metals

201005100087 85A-210
201005100088 85A-210 MS
201005100089 85A-210 MSD
201005100092 85F-210
201005100093 85E-210
201005100094 85D-210
201005100096 85B-210

Analysis Date: 05/12/2010

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

QC Ref # 553719 - Fluoride

201005100092 85F-210
201005100093 85E-210
201005100094 85D-210
201005100096 85B-210

Analysis Date: 05/13/2010

Analyzed by: AAO
Analyzed by: AAO
Analyzed by: AAO
Analyzed by: AAO

QC Ref # 553722 - Total Dissolved Solids (TDS)

201005100087 85A-210
201005100090 85A-210 DUP
201005100092 85F-210
201005100093 85E-210
201005100094 85D-210
201005100096 85B-210

Analysis Date: 05/13/2010

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

QC Ref # 553755 - Fluoride

201005100087 85A-210
201005100088 85A-210 MS
201005100089 85A-210 MSD

Analysis Date: 05/13/2010

Analyzed by: AAO
Analyzed by: AAO
Analyzed by: AAO

QC Ref # 553849 - EPA Method 504.1

201005100087 85A-210
201005100088 85A-210 MS
201005100089 85A-210 MSD
201005100091 85ATB-210
201005100092 85F-210

Analysis Date: 05/12/2010

Analyzed by: RXZ
Analyzed by: RXZ
Analyzed by: RXZ
Analyzed by: RXZ
Analyzed by: RXZ



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201005100093	85E-210	Analyzed by: RXZ
201005100094	85D-210	Analyzed by: RXZ
201005100095	85DTB-210	Analyzed by: RXZ
201005100096	85B-210	Analyzed by: RXZ

QC Ref # 553896 - Chloride, Sulfate by EPA 300.0

Analysis Date: 05/14/2010

201005100087	85A-210	Analyzed by: SXK
201005100088	85A-210 MS	Analyzed by: SXK
201005100089	85A-210 MSD	Analyzed by: SXK

QC Ref # 554133 - Mercury

Analysis Date: 05/14/2010

201005100087	85A-210	Analyzed by: CSK
201005100088	85A-210 MS	Analyzed by: CSK
201005100089	85A-210 MSD	Analyzed by: CSK
201005100092	85F-210	Analyzed by: CSK
201005100093	85E-210	Analyzed by: CSK
201005100094	85D-210	Analyzed by: CSK
201005100096	85B-210	Analyzed by: CSK

QC Ref # 554336 - ICPMS Metals

Analysis Date: 05/18/2010

201005100087	85A-210	Analyzed by: DYH
201005100092	85F-210	Analyzed by: DYH
201005100093	85E-210	Analyzed by: DYH
201005100094	85D-210	Analyzed by: DYH
201005100096	85B-210	Analyzed by: DYH

QC Ref # 554530 - Volatile Organics by GCMS

Analysis Date: 05/18/2010

201005100087	85A-210	Analyzed by: MCB
201005100088	85A-210 MS	Analyzed by: MCB
201005100089	85A-210 MSD	Analyzed by: MCB
201005100091	85ATB-210	Analyzed by: MCB
201005100092	85F-210	Analyzed by: MCB
201005100093	85E-210	Analyzed by: MCB
201005100094	85D-210	Analyzed by: MCB
201005100095	85DTB-210	Analyzed by: MCB
201005100096	85B-210	Analyzed by: MCB

QC Ref # 554840 - Alkalinity in CaCO3 units

Analysis Date: 05/20/2010

201005100087	85A-210	Analyzed by: CYP
201005100088	85A-210 MS	Analyzed by: CYP
201005100089	85A-210 MSD	Analyzed by: CYP
201005100092	85F-210	Analyzed by: CYP
201005100093	85E-210	Analyzed by: CYP
201005100094	85D-210	Analyzed by: CYP
201005100096	85B-210	Analyzed by: CYP



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Laboratory
QC Report: 333070

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 553398 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 05/11/2010				
LCS1	Chloride		25	24.8	mg/L	99	(90-110)		
LCS2	Chloride		25	24.7	mg/L	99	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.465	mg/L	93	(50-150)		
MS_201005120092	Chloride	5.5	13	19.2	mg/L	109	(80-120)		
MSD_201005120092	Chloride	5.5	13	19.4	mg/L	111	(80-120)	20	1.8
LCS1	Sulfate		50	49.6	mg/L	99	(90-110)		
LCS2	Sulfate		50	49.5	mg/L	99	(90-110)	20	0.20
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.982	mg/L	98	(50-150)		
MRLW	Sulfate		0.25	0.268	mg/L	107	(50-150)		
MS_201005120092	Sulfate	24	25	51.3	mg/L	108	(80-120)		
MSD_201005120092	Sulfate	24	25	51.7	mg/L	110	(80-120)	20	1.8
QC Ref# 553449 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0					Analysis Date: 05/11/2010				
LCS1	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.4	mg/L	96	(90-110)	20	0.42
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0511	mg/L	102	(50-150)		
MS_201005110009	Nitrate as Nitrogen by IC	1.1	1.3	2.37	mg/L	104	(80-120)		
MS_201005110012	Nitrate as Nitrogen by IC	1.0	1.3	2.28	mg/L	103	(80-120)		
MSD_201005110009	Nitrate as Nitrogen by IC	1.1	1.3	2.39	mg/L	106	(80-120)	20	1.9
MSD_201005110012	Nitrate as Nitrogen by IC	1.0	1.3	2.3	mg/L	104	(80-120)	20	0.97
QC Ref# 553525 - ICPMS Metals by EPA 200.8					Analysis Date: 05/12/2010				
LCS1	Aluminum dissolved ICAP/MS		200	193	ug/L	97	(85-115)		
LCS2	Aluminum dissolved ICAP/MS		200	200	ug/L	100	(85-115)	20	3.6
MBLK	Aluminum dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum dissolved ICAP/MS		20	20.5	ug/L	103	(50-150)		
MS_201005100087	Aluminum dissolved ICAP/MS		200	180	ug/L	90	(70-130)		
MS2_201005100023	Aluminum dissolved ICAP/MS	NA	200	181	ug/L	90	(70-130)		
MSD_201005100087	Aluminum dissolved ICAP/MS		200	181	ug/L	90	(70-130)	20	0.56
MSD2_201005100023	Aluminum dissolved ICAP/MS	NA	200	182	ug/L	91	(70-130)	20	0.66
LCS1	Aluminum Total ICAP/MS		200	193	ug/L	97	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	200	ug/L	100	(85-115)	20	3.6
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	20.5	ug/L	103	(50-150)		
MS_201005100087	Aluminum Total ICAP/MS		200	181	ug/L	90	(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.

31/49

(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201005100023	Aluminum Total ICAP/MS	ND	200	181	ug/L	90	(70-130)		
MSD_201005100087	Aluminum Total ICAP/MS		200	182	ug/L	90	(70-130)	20	0.56
MSD2_201005100023	Aluminum Total ICAP/MS	ND	200	182	ug/L	91	(70-130)	20	0.66
LCS1	Antimony Total ICAP/MS		50	49.2	ug/L	98	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.6	ug/L	101	(85-115)	20	2.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.961	ug/L	96	(50-150)		
MS_201005100087	Antimony Total ICAP/MS		50	45.0	ug/L	90	(70-130)		
MS2_201005100023	Antimony Total ICAP/MS	ND	50	44.7	ug/L	89	(70-130)		
MSD_201005100087	Antimony Total ICAP/MS		50	46.0	ug/L	92	(70-130)	20	2.2
MSD2_201005100023	Antimony Total ICAP/MS	ND	50	45.2	ug/L	91	(70-130)	20	1.2
LCS1	Arsenic Total ICAP/MS		20	19.3	ug/L	96	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	2.6
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.932	ug/L	93	(50-150)		
MS_201005100087	Arsenic Total ICAP/MS		20	29.3	ug/L	94	(70-130)		
MS2_201005100023	Arsenic Total ICAP/MS	ND	20	18.2	ug/L	90	(70-130)		
MSD_201005100087	Arsenic Total ICAP/MS		20	29.1	ug/L	92	(70-130)	20	1.4
MSD2_201005100023	Arsenic Total ICAP/MS	ND	20	18.2	ug/L	90	(70-130)	20	0.11
LCS1	Barium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Barium Total ICAP/MS		100	99.2	ug/L	99	(85-115)	20	1.3
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.38	ug/L	119	(50-150)		
MS_201005100087	Barium Total ICAP/MS	47	100	137	ug/L	90	(70-130)		
MS2_201005100023	Barium Total ICAP/MS	2.7	100	94.0	ug/L	91	(70-130)		
MSD_201005100087	Barium Total ICAP/MS	47	100	139	ug/L	92	(70-130)	20	2.4
MSD2_201005100023	Barium Total ICAP/MS	2.7	100	95.2	ug/L	93	(70-130)	20	1.4
LCS1	Beryllium Total ICAP/MS		5.0	4.87	ug/L	97	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)	20	2.6
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS2_201005100023	Beryllium Total ICAP/MS	ND	5.0	5.08	ug/L	102	(70-130)		
MSD2_201005100023	Beryllium Total ICAP/MS	ND	5.0	5.1	ug/L	102	(70-130)	20	0.0
LCS1	Cadmium dissolved ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	19.9	ug/L	100	(85-115)	20	2.0
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.467	ug/L	93	(50-150)		
MS_201005100087	Cadmium dissolved ICAP/MS		20	17.1	ug/L	85	(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.

32/49

(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201005100023	Cadmium dissolved ICAP/MS	NA	20	18.2	ug/L	91	(70-130)		
MSD_201005100087	Cadmium dissolved ICAP/MS		20	17.4	ug/L	87	(70-130)	20	2.0
MSD2_201005100023	Cadmium dissolved ICAP/MS	NA	20	18.3	ug/L	92	(70-130)	20	0.88
LCS1	Cadmium Total ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.9	ug/L	100	(85-115)	20	2.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.467	ug/L	93	(50-150)		
MS_201005100087	Cadmium Total ICAP/MS	ND	20	17.1	ug/L	85	(70-130)		
MS2_201005100023	Cadmium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MSD_201005100087	Cadmium Total ICAP/MS	ND	20	17.4	ug/L	87	(70-130)	20	2.0
MSD2_201005100023	Cadmium Total ICAP/MS	ND	20	18.3	ug/L	92	(70-130)	20	0.88
LCS1	Chromium Total ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Chromium Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.5
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.980	ug/L	98	(50-150)		
MS_201005100087	Chromium Total ICAP/MS		100	98.8	ug/L	89	(70-130)		
MS2_201005100023	Chromium Total ICAP/MS	ND	100	90.5	ug/L	90	(70-130)		
MSD_201005100087	Chromium Total ICAP/MS		100	99.0	ug/L	89	(70-130)	20	0.23
MSD2_201005100023	Chromium Total ICAP/MS	ND	100	90.7	ug/L	90	(70-130)	20	0.22
LCS1	Copper dissolved ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	2.6
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.15	ug/L	108	(50-150)		
MS_201005100087	Copper dissolved ICAP/MS		100	84.9	ug/L	85	(70-130)		
MS2_201005100023	Copper dissolved ICAP/MS	NA	100	91.4	ug/L	91	(70-130)		
MSD_201005100087	Copper dissolved ICAP/MS		100	84.6	ug/L	85	(70-130)	20	0.59
MSD2_201005100023	Copper dissolved ICAP/MS	NA	100	91.3	ug/L	91	(70-130)	20	0.11
LCS1	Copper Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Copper Total ICAP/MS		100	102	ug/L	102	(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	108	(50-150)		
MS_201005100087	Copper Total ICAP/MS	ND	100	86.0	ug/L	85	(70-130)		
MS2_201005100023	Copper Total ICAP/MS	ND	100	92.1	ug/L	91	(70-130)		
MSD_201005100087	Copper Total ICAP/MS	ND	100	85.7	ug/L	85	(70-130)	20	0.35
MSD2_201005100023	Copper Total ICAP/MS	ND	100	92.0	ug/L	91	(70-130)	20	0.11
LCS1	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.1	ug/L	106	(85-115)	20	3.4
MBLK	Lead Total ICAP/MS			<0.5	ug/L				

Spike recovery is already corrected for native results.

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33/49

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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: 333070

City of Phoenix (continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Lead Total ICAP/MS		0.5	0.479	ug/L	96	(50-150)		
MS_201005100087	Lead Total ICAP/MS	ND	20	18.2	ug/L	90	(70-130)		
MS2_201005100023	Lead Total ICAP/MS	ND	20	18.7	ug/L	93	(70-130)		
MSD_201005100087	Lead Total ICAP/MS	ND	20	18.5	ug/L	91	(70-130)	20	1.3
MSD2_201005100023	Lead Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	1.6
LCS1	Manganese dissolved ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Manganese dissolved ICAP/MS		50	51.3	ug/L	103	(85-115)	20	2.8
MBLK	Manganese dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Manganese dissolved ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201005100087	Manganese dissolved ICAP/MS		50	45.0	ug/L	90	(70-130)		
MS2_201005100023	Manganese dissolved ICAP/MS	NA	50	46.2	ug/L	93	(70-130)		
MSD_201005100087	Manganese dissolved ICAP/MS		50	45.3	ug/L	91	(70-130)	20	0.78
MSD2_201005100023	Manganese dissolved ICAP/MS	NA	50	46.4	ug/L	93	(70-130)	20	0.43
LCS1	Manganese Total ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Manganese Total ICAP/MS		50	51.3	ug/L	103	(85-115)	20	2.8
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201005100087	Manganese Total ICAP/MS		50	45.4	ug/L	90	(70-130)		
MS2_201005100023	Manganese Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)		
MSD_201005100087	Manganese Total ICAP/MS		50	45.8	ug/L	91	(70-130)	20	0.78
MSD2_201005100023	Manganese Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)	20	0.43
LCS1	Molybdenum Total ICAP/MS		100	97.8	ug/L	98	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)	20	3.2
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.9	ug/L	95	(50-150)		
MS_201005100087	Molybdenum Total ICAP/MS		100	123	ug/L	91	(70-130)		
MS2_201005100023	Molybdenum Total ICAP/MS	ND	100	92.0	ug/L	92	(70-130)		
MSD_201005100087	Molybdenum Total ICAP/MS		100	124	ug/L	92	(70-130)	20	1.4
MSD2_201005100023	Molybdenum Total ICAP/MS	ND	100	93.2	ug/L	93	(70-130)	20	1.4
LCS1	Nickel dissolved ICAP/MS		50	48.7	ug/L	97	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)	20	3.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.91	ug/L	98	(50-150)		
MS_201005100087	Nickel dissolved ICAP/MS		50	41.8	ug/L	84	(70-130)		
MS2_201005100023	Nickel dissolved ICAP/MS	NA	50	44.4	ug/L	89	(70-130)		
MSD_201005100087	Nickel dissolved ICAP/MS		50	42.0	ug/L	84	(70-130)	20	0.48
MSD2_201005100023	Nickel dissolved ICAP/MS	NA	50	44.4	ug/L	89	(70-130)	20	0.11
LCS1	Nickel Total ICAP/MS		50	48.7	ug/L	97	(85-115)		

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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are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

34/49

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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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)	20	3.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.91	ug/L	98	(50-150)		
MS_201005100087	Nickel Total ICAP/MS	ND	50	45.1	ug/L	84	(70-130)		
MS2_201005100023	Nickel Total ICAP/MS	ND	50	44.8	ug/L	89	(70-130)		
MSD_201005100087	Nickel Total ICAP/MS	ND	50	45.3	ug/L	84	(70-130)	20	0.48
MSD2_201005100023	Nickel Total ICAP/MS	ND	50	44.8	ug/L	89	(70-130)	20	0.11
LCS1	Selenium Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	3.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.73	ug/L	95	(50-150)		
MS_201005100087	Selenium Total ICAP/MS	ND	20	20.6	ug/L	91	(70-130)		
MS2_201005100023	Selenium Total ICAP/MS	ND	20	18.7	ug/L	91	(70-130)		
MSD_201005100087	Selenium Total ICAP/MS	ND	20	21.0	ug/L	94	(70-130)	20	2.5
MSD2_201005100023	Selenium Total ICAP/MS	ND	20	18.7	ug/L	92	(70-130)	20	0.33
LCS1	Silver Total ICAP/MS		50	48.0	ug/L	96	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.3	ug/L	99	(85-115)	20	2.7
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.470	ug/L	94	(50-150)		
MS_201005100087	Silver Total ICAP/MS	ND	50	40.9	ug/L	82	(70-130)		
MS2_201005100023	Silver Total ICAP/MS	ND	50	41.7	ug/L	83	(70-130)		
MSD_201005100087	Silver Total ICAP/MS	ND	50	41.5	ug/L	83	(70-130)	20	1.5
MSD2_201005100023	Silver Total ICAP/MS	ND	50	42.4	ug/L	85	(70-130)	20	1.7
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.3	ug/L	107	(85-115)	20	2.4
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.986	ug/L	99	(50-150)		
MS_201005100087	Thallium Total ICAP/MS		20	18.2	ug/L	91	(70-130)		
MS2_201005100023	Thallium Total ICAP/MS	ND	20	18.9	ug/L	95	(70-130)		
MSD_201005100087	Thallium Total ICAP/MS		20	18.5	ug/L	92	(70-130)	20	1.5
MSD2_201005100023	Thallium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	1.7
LCS1	Uranium ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Uranium ICAP/MS		20	20.7	ug/L	103	(85-115)	20	2.9
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	0.804	ug/L	80	(50-150)		
MS_201005100087	Uranium ICAP/MS		20	35.0	ug/L	107	(70-130)		
MS2_201005100023	Uranium ICAP/MS	ND	20	17.7	ug/L	89	(70-130)		
MSD_201005100087	Uranium ICAP/MS		20	35.4	ug/L	109	(70-130)	20	1.9

Spike recovery is already corrected for native results.

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35/49

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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%
MSD2_201005100023	Uranium ICAP/MS	ND	20	17.9	ug/L	90	(70-130)	20	1.1
LCS1	Zinc dissolved ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	98.8	ug/L	99	(85-115)	20	2.4
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	19.9	ug/L	100	(50-150)		
MS_201005100087	Zinc dissolved ICAP/MS		100	84.3	ug/L	84	(70-130)		
MS2_201005100023	Zinc dissolved ICAP/MS	NA	100	91.3	ug/L	91	(70-130)		
MSD_201005100087	Zinc dissolved ICAP/MS		100	84.1	ug/L	84	(70-130)	20	0.24
MSD2_201005100023	Zinc dissolved ICAP/MS	NA	100	92.1	ug/L	92	(70-130)	20	0.87
LCS1	Zinc Total ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	2.4
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	19.9	ug/L	100	(50-150)		
MS_201005100087	Zinc Total ICAP/MS	ND	100	88.7	ug/L	84	(70-130)		
MS2_201005100023	Zinc Total ICAP/MS	ND	100	97.4	ug/L	91	(70-130)		
MSD_201005100087	Zinc Total ICAP/MS	ND	100	88.6	ug/L	84	(70-130)	20	0.24
MSD2_201005100023	Zinc Total ICAP/MS	ND	100	98.2	ug/L	92	(70-130)	20	0.87

QC Ref# 553719 - Fluoride by SM 4500F-C

Analysis Date: 05/13/2010

LCS1	Fluoride		1.0	0.935	mg/L	94	(81-116)		
LCS2	Fluoride		1.0	0.906	mg/L	91	(81-116)	20	3.1
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0520	mg/L	104	(50-150)		
MS_201005110027	Fluoride	ND	1.0	0.931	mg/L	92	(73-124)		
MS2_201005110567	Fluoride	0.069	1.0	0.963	mg/L	89	(73-124)		
MSD_201005110027	Fluoride	ND	1.0	0.933	mg/L	92	(73-124)	20	0.22

QC Ref# 553722 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 05/13/2010

DUP_201005100087	Total Dissolved Solid (TDS)	1700		1690	mg/L		(0-10)	10	0.24
DUP_201005120578	Total Dissolved Solid (TDS)	410		420	mg/L		(0-10)	10	1.4
LCS1	Total Dissolved Solid (TDS)		175	174	mg/L	99	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	714	mg/L	102	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		

QC Ref# 553755 - Fluoride by SM 4500F-C

Analysis Date: 05/13/2010

LCS1	Fluoride		1.0	0.974	mg/L	97	(81-116)		
LCS2	Fluoride		1.0	0.954	mg/L	95	(81-116)	20	2.1
MBLK	Fluoride			<0.05	mg/L				

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are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

36/49

(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%
MRL_CHK	Fluoride		0.05	0.0510	mg/L	102	(50-150)		
MS_201005100087	Fluoride	4.5	1.0	6.16	mg/L	83	(73-124)		
MS2_201005110603	Fluoride	0.45	1.0	1.32	mg/L	87	(73-124)		
MSD_201005100087	Fluoride	4.5	1.0	6.05	mg/L	77	(73-124)	20	6.5

QC Ref# 553849 - EPA Method 504.1 by EPA 8011

Analysis Date: 05/12/2010

LCS2	1,2-Dibromo-3-chloropropane		0.25	0.242	ug/L	97	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.00760	ug/L	76	(60-140)		
MRLLW	1,2-Dibromo-3-chloropropane		0.008	0.00480	ug/L	60	(60-140)		
MS_201005100087	1,2-Dibromo-3-chloropropane	ND	0.25	0.203	ug/L	81	(65-135)		
MSD_201005100087	1,2-Dibromo-3-chloropropane	ND	0.25	0.233	ug/L	93	(65-135)	20	14
LCS2	1,2-Dibromoethane		0.25	0.251	ug/L	100	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.0105	ug/L	105	(60-140)		
MRLLW	1,2-Dibromoethane		0.008	0.00990	ug/L	124	(60-140)		
MS_201005100087	1,2-Dibromoethane	ND	0.25	0.216	ug/L	86	(65-135)		
MSD_201005100087	1,2-Dibromoethane	ND	0.25	0.243	ug/L	97	(65-135)	20	12
LCS2	1,2-Dibromopropane (S)			91.5	%	92	(60-140)		
MBLK	1,2-Dibromopropane (S)			117	%	117	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			113	%	113	(60-140)		
MRLLW	1,2-Dibromopropane (S)			98.8	%	99	(60-140)		
MS_201005100087	1,2-Dibromopropane (S)			80.3	%	80	(60-140)		
MSD_201005100087	1,2-Dibromopropane (S)			88.8	%	89	(60-140)		

QC Ref# 553896 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 05/14/2010

LCS1	Chloride		25	26.5	mg/L	106	(90-110)		
LCS2	Chloride		25	26.5	mg/L	106	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.472	mg/L	94	(50-150)		
MS_201005120160	Chloride	100	13	173	mg/L	116	(80-120)		
MS_201005170024	Chloride	5.3	13	20.2	mg/L	118	(80-120)		
MSD_201005120160	Chloride	100	13	173	mg/L	116	(80-120)	20	0.0
MSD_201005170024	Chloride	5.3	13	20.0	mg/L	117	(80-120)	20	0.85
LCS1	Sulfate		50	52.5	mg/L	105	(90-110)		
LCS2	Sulfate		50	52.5	mg/L	105	(90-110)	20	0.0
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	1.05	mg/L	105	(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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLW	Sulfate		0.25	0.288	mg/L	115	(50-150)		
MS_201005120160	Sulfate	230	25	373	mg/L	114	(80-120)		
MS_201005170024	Sulfate	26	25	54.2	mg/L	115	(80-120)		
MSD_201005120160	Sulfate	230	25	374	mg/L	114	(80-120)	20	0.0
MSD_201005170024	Sulfate	26	25	53.8	mg/L	113	(80-120)	20	1.8

QC Ref# 554133 - Mercury by EPA 245.1

Analysis Date: 05/14/2010

LCS1	Mercury		1.5	1.47	ug/L	98	(85-115)		
LCS2	Mercury		1.5	1.48	ug/L	99	(85-115)	20	0.68
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.196	ug/L	98	(50-150)		
MS_201005120575	Mercury	ND	1.5	1.52	ug/L	102	(70-130)		
MS2_201005100087	Mercury	ND	1.5	1.51	ug/L	101	(70-130)		
MSD_201005120575	Mercury	ND	1.5	1.51	ug/L	101	(70-130)	20	0.99
MSD2_201005100087	Mercury	ND	1.5	1.51	ug/L	101	(70-130)	20	0.0

QC Ref# 554336 - ICPMS Metals by EPA 200.8

Analysis Date: 05/18/2010

LCS1	Aluminum Total ICAP/MS		200	214	ug/L	107	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	210	ug/L	105	(85-115)	20	1.9
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	22.0	ug/L	110	(50-150)		
MS_201005110500	Aluminum Total ICAP/MS	ND	200	215	ug/L	107	(70-130)		
MS2_201005120093	Aluminum Total ICAP/MS	ND	200	213	ug/L	106	(70-130)		
MSD_201005110500	Aluminum Total ICAP/MS	ND	200	215	ug/L	107	(70-130)	20	0.0
MSD2_201005120093	Aluminum Total ICAP/MS	ND	200	215	ug/L	108	(70-130)	20	1.9
LCS1	Antimony Total ICAP/MS		50	54.3	ug/L	109	(85-115)		
LCS2	Antimony Total ICAP/MS		50	53.6	ug/L	107	(85-115)	20	1.3
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201005110500	Antimony Total ICAP/MS	ND	50	53.3	ug/L	106	(70-130)		
MS2_201005120093	Antimony Total ICAP/MS	ND	50	52.4	ug/L	105	(70-130)		
MSD_201005110500	Antimony Total ICAP/MS	ND	50	53.5	ug/L	106	(70-130)	20	0.0
MSD2_201005120093	Antimony Total ICAP/MS	ND	50	54.3	ug/L	109	(70-130)	20	3.7
LCS1	Arsenic Total ICAP/MS		20	21.5	ug/L	108	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.2	ug/L	106	(85-115)	20	1.4
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201005110500	Arsenic Total ICAP/MS	ND	20	22.5	ug/L	110	(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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201005120093	Arsenic Total ICAP/MS	ND	20	21.5	ug/L	107	(70-130)		
MSD_201005110500	Arsenic Total ICAP/MS	ND	20	22.4	ug/L	110	(70-130)	20	0.0
MSD2_201005120093	Arsenic Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	1.9
LCS1	Barium Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Barium Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.16	ug/L	108	(50-150)		
MS_201005110500	Barium Total ICAP/MS	27	100	135	ug/L	108	(70-130)		
MS2_201005120093	Barium Total ICAP/MS	ND	100	108	ug/L	107	(70-130)		
MSD_201005110500	Barium Total ICAP/MS	27	100	134	ug/L	107	(70-130)	20	0.93
MSD2_201005120093	Barium Total ICAP/MS	ND	100	110	ug/L	109	(70-130)	20	1.9
LCS1	Beryllium Total ICAP/MS		5.0	5.61	ug/L	112	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.47	ug/L	109	(85-115)	20	2.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201005110500	Beryllium Total ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MS2_201005120093	Beryllium Total ICAP/MS	ND	5.0	5.57	ug/L	111	(70-130)		
MSD_201005110500	Beryllium Total ICAP/MS	ND	5.0	5.76	ug/L	115	(70-130)	20	0.87
MSD2_201005120093	Beryllium Total ICAP/MS	ND	5.0	5.75	ug/L	115	(70-130)	20	3.5
LCS1	Cadmium Total ICAP/MS		20	22.0	ug/L	110	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.7	ug/L	108	(85-115)	20	1.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.553	ug/L	111	(50-150)		
MS_201005110500	Cadmium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)		
MS2_201005120093	Cadmium Total ICAP/MS	ND	20	22.3	ug/L	112	(70-130)		
MSD_201005110500	Cadmium Total ICAP/MS	ND	20	21.5	ug/L	107	(70-130)	20	1.9
MSD2_201005120093	Cadmium Total ICAP/MS	ND	20	22.6	ug/L	113	(70-130)	20	0.89
LCS1	Chromium Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Chromium Total ICAP/MS		100	106	ug/L	106	(85-115)	20	2.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201005110500	Chromium Total ICAP/MS	ND	100	107	ug/L	107	(70-130)		
MS2_201005120093	Chromium Total ICAP/MS	ND	100	107	ug/L	107	(70-130)		
MSD_201005110500	Chromium Total ICAP/MS	ND	100	107	ug/L	106	(70-130)	20	0.94
MSD2_201005120093	Chromium Total ICAP/MS	ND	100	109	ug/L	108	(70-130)	20	0.93
LCS1	Cobalt Total ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	109	ug/L	109	(85-115)	20	0.91
MBLK	Cobalt Total ICAP/MS			<2	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.

39/49

(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.3	ug/L	115	(50-150)		
MS_201005110500	Cobalt Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201005120093	Cobalt Total ICAP/MS	ND	100	109	ug/L	109	(70-130)		
MSD_201005110500	Cobalt Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.0
MSD2_201005120093	Cobalt Total ICAP/MS	ND	100	111	ug/L	111	(70-130)	20	1.8
LCS1	Copper Total ICAP/MS		100	111	ug/L	111	(85-115)		
LCS2	Copper Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.8
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.17	ug/L	109	(50-150)		
MS_201005110500	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201005120093	Copper Total ICAP/MS	ND	100	109	ug/L	108	(70-130)		
MSD_201005110500	Copper Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.99
MSD2_201005120093	Copper Total ICAP/MS	ND	100	111	ug/L	111	(70-130)	20	2.7
LCS1	Lead Total ICAP/MS		20	22.2	ug/L	111	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.6	ug/L	108	(85-115)	20	2.7
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.547	ug/L	109	(50-150)		
MS_201005110500	Lead Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201005120093	Lead Total ICAP/MS	ND	20	21.7	ug/L	108	(70-130)		
MSD_201005110500	Lead Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)	20	0.95
MSD2_201005120093	Lead Total ICAP/MS	ND	20	22.2	ug/L	111	(70-130)	20	2.7
LCS1	Manganese Total ICAP/MS		50	55.7	ug/L	111	(85-115)		
LCS2	Manganese Total ICAP/MS		50	55.0	ug/L	110	(85-115)	20	1.3
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.15	ug/L	107	(50-150)		
MS_201005110500	Manganese Total ICAP/MS	ND	50	54.2	ug/L	108	(70-130)		
MS2_201005120093	Manganese Total ICAP/MS	ND	50	55.5	ug/L	111	(70-130)		
MSD_201005110500	Manganese Total ICAP/MS	ND	50	54.3	ug/L	109	(70-130)	20	0.92
MSD2_201005120093	Manganese Total ICAP/MS	ND	50	56.1	ug/L	112	(70-130)	20	0.90
LCS1	Nickel Total ICAP/MS		50	53.8	ug/L	108	(85-115)		
LCS2	Nickel Total ICAP/MS		50	53.1	ug/L	106	(85-115)	20	1.3
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.37	ug/L	107	(50-150)		
MS_201005110500	Nickel Total ICAP/MS	ND	50	51.3	ug/L	101	(70-130)		
MS2_201005120093	Nickel Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)		
MSD_201005110500	Nickel Total ICAP/MS	ND	50	51.1	ug/L	101	(70-130)	20	0.0
MSD2_201005120093	Nickel Total ICAP/MS	ND	50	53.7	ug/L	107	(70-130)	20	0.94
LCS1	Selenium Total ICAP/MS		20	21.7	ug/L	109	(85-115)		

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.

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(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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QC Report: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Selenium Total ICAP/MS		20	21.3	ug/L	106	(85-115)	20	1.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.31	ug/L	106	(50-150)		
MS_201005110500	Selenium Total ICAP/MS	ND	20	23.3	ug/L	116	(70-130)		
MS2_201005120093	Selenium Total ICAP/MS	ND	20	22.5	ug/L	113	(70-130)		
MSD_201005110500	Selenium Total ICAP/MS	ND	20	23.0	ug/L	114	(70-130)	20	1.7
MSD2_201005120093	Selenium Total ICAP/MS	ND	20	23.3	ug/L	116	(70-130)	20	2.6
LCS1	Silver Total ICAP/MS		50	54.5	ug/L	109	(85-115)		
LCS2	Silver Total ICAP/MS		50	53.5	ug/L	107	(85-115)	20	1.9
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.608	ug/L	122	(50-150)		
MS_201005110500	Silver Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		
MS2_201005120093	Silver Total ICAP/MS	ND	50	52.8	ug/L	106	(70-130)		
MSD_201005110500	Silver Total ICAP/MS	ND	50	51.3	ug/L	103	(70-130)	20	0.0
MSD2_201005120093	Silver Total ICAP/MS	ND	50	53.8	ug/L	108	(70-130)	20	1.9
LCS1	Thallium Total ICAP/MS		20	22.5	ug/L	112	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.2
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.1	ug/L	110	(50-150)		
MS_201005110500	Thallium Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)		
MS2_201005120093	Thallium Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)		
MSD_201005110500	Thallium Total ICAP/MS	ND	20	21.7	ug/L	108	(70-130)	20	0.92
MSD2_201005120093	Thallium Total ICAP/MS	ND	20	22.4	ug/L	112	(70-130)	20	2.7
LCS1	Uranium ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Uranium ICAP/MS		20	18.7	ug/L	94	(85-115)	20	2.6
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	0.959	ug/L	96	(50-150)		
MS_201005110500	Uranium ICAP/MS	ND	20	18.8	ug/L	93	(70-130)		
MS2_201005120093	Uranium ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201005110500	Uranium ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	0.64
MSD2_201005120093	Uranium ICAP/MS	ND	20	18.1	ug/L	90	(70-130)	20	0.56
LCS1	Vanadium Total ICAP/MS		100	111	ug/L	111	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	110	ug/L	110	(85-115)	20	0.91
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.29	ug/L	110	(50-150)		
MS_201005110500	Vanadium Total ICAP/MS	ND	100	112	ug/L	111	(70-130)		
MS2_201005120093	Vanadium Total ICAP/MS	ND	100	110	ug/L	110	(70-130)		
MSD_201005110500	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)	20	0.91

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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QC Report: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201005120093	Vanadium Total ICAP/MS	ND	100	111	ug/L	111	(70-130)	20	0.91
LCS1	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Zinc Total ICAP/MS		100	105	ug/L	105	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.7	ug/L	108	(50-150)		
MS_201005110500	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201005120093	Zinc Total ICAP/MS	ND	100	111	ug/L	111	(70-130)		
MSD_201005110500	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.0
MSD2_201005120093	Zinc Total ICAP/MS	ND	100	113	ug/L	113	(70-130)	20	1.8

QC Ref# 554530 - Volatile Organics by GCMS by EPA 8260

Analysis Date: 05/18/2010

LCS1	1,1,1,2-Tetrachloroethane		5.0	4.88	ug/L	98	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.74	ug/L	95	(70-130)	20	2.9
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MS_201005100087	1,1,1,2-Tetrachloroethane	ND	10	9.46	ug/L	95	(70-130)		
MSD_201005100087	1,1,1,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)	20	6.5
LCS1	1,1,1-Trichloroethane		5.0	5.06	ug/L	101	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.76	ug/L	95	(70-130)	20	6.1
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MS_201005100087	1,1,1-Trichloroethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201005100087	1,1,1-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)	20	3.8
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.76	ug/L	95	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.83	ug/L	97	(70-130)	20	1.5
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MS_201005100087	1,1,2,2-Tetrachloroethane	ND	10	9.49	ug/L	95	(70-130)		
MSD_201005100087	1,1,2,2-Tetrachloroethane	ND	10	9.83	ug/L	98	(70-130)	20	3.5
LCS1	1,1,2-Trichloroethane		5.0	4.88	ug/L	98	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.76	ug/L	95	(70-130)	20	2.5
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MS_201005100087	1,1,2-Trichloroethane	ND	10	9.38	ug/L	94	(70-130)		
MSD_201005100087	1,1,2-Trichloroethane	ND	10	9.71	ug/L	97	(70-130)	20	3.5
LCS1	1,1-Dichloroethane		5.0	4.8	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.59	ug/L	92	(70-130)	20	4.5
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MS_201005100087	1,1-Dichloroethane	ND	10	9.43	ug/L	94	(70-130)		
MSD_201005100087	1,1-Dichloroethane	ND	10	9.99	ug/L	100	(70-130)	20	5.8
LCS1	1,1-Dichloroethylene		5.0	4.48	ug/L	90	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.22	ug/L	84	(70-130)	20	6.0

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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MS_201005100087	1,1-Dichloroethylene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201005100087	1,1-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	3.8
LCS1	1,2,3-Trichloropropane		5.0	4.27	ug/L	85	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.21	ug/L	84	(70-130)	20	1.4
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MS_201005100087	1,2,3-Trichloropropane	ND	10	11.9	ug/L	119	(70-130)		
MSD_201005100087	1,2,3-Trichloropropane	ND	10	12.3	ug/L	123	(70-130)	20	3.3
LCS1	1,2-Dichloroethane		5.0	4.97	ug/L	99	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.83	ug/L	97	(70-130)	20	2.9
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MS_201005100087	1,2-Dichloroethane	ND	10	9.64	ug/L	96	(70-130)		
MSD_201005100087	1,2-Dichloroethane	ND	10	9.75	ug/L	98	(70-130)	20	1.1
LCS1	1,2-Dichloroethane-d4 (S)			98.4	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
MS_201005100087	1,2-Dichloroethane-d4 (S)			96.6	%	97	(70-130)		
MSD_201005100087	1,2-Dichloroethane-d4 (S)			95.8	%	96	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.4	ug/L	88	(70-130)	20	4.2
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MS_201005100087	1,2-Dichloropropane	ND	10	9.11	ug/L	91	(70-130)		
MSD_201005100087	1,2-Dichloropropane	ND	10	9.59	ug/L	96	(70-130)	20	5.1
LCS1	2-Butanone (MEK)		50	47.9	ug/L	96	(70-130)		
LCS2	2-Butanone (MEK)		50	48.4	ug/L	97	(70-130)	20	0.83
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MS_201005100087	2-Butanone (MEK)	ND	100	94.9	ug/L	95	(70-130)		
MSD_201005100087	2-Butanone (MEK)	ND	100	98.2	ug/L	98	(70-130)	20	3.4
LCS1	2-Hexanone		50	50.9	ug/L	102	(70-130)		
LCS2	2-Hexanone		50	52.3	ug/L	105	(70-130)	20	2.7
MBLK	2-Hexanone			<5.0	ug/L				
MS_201005100087	2-Hexanone	ND	100	105	ug/L	105	(70-130)		
MSD_201005100087	2-Hexanone	ND	100	114	ug/L	113	(70-130)	20	7.3
LCS1	4-Bromofluorobenzene (S)			94.4	%	94	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201005100087	4-Bromofluorobenzene (S)			97.8	%	98	(70-130)		
MSD_201005100087	4-Bromofluorobenzene (S)			101	%	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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	4-Methyl-2-Pentanone (MIBK)		50	53.4	ug/L	107	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.5	ug/L	105	(70-130)	20	1.7
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MS_201005100087	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)		
MSD_201005100087	4-Methyl-2-Pentanone (MIBK)	ND	100	112	ug/L	111	(70-130)	20	4.6
LCS1	Acetone		50	46.9	ug/L	94	(70-130)		
LCS2	Acetone		50	46.2	ug/L	93	(70-130)	20	1.5
MBLK	Acetone			<5	ug/L				
MS_201005100087	Acetone	ND	100	92.3	ug/L	92	(70-130)		
MSD_201005100087	Acetone	ND	100	93.3	ug/L	93	(70-130)	20	1.1
LCS1	Acrylonitrile (Screen)		5.0	5.2	ug/L	104	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	4.63	ug/L	93	(70-130)	20	12
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MS_201005100087	Acrylonitrile (Screen)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201005100087	Acrylonitrile (Screen)	ND	10	11.9	ug/L	119	(70-130)	20	7.0
LCS1	Benzene		5.0	5.09	ug/L	102	(70-130)		
LCS2	Benzene		5.0	4.95	ug/L	99	(70-130)	20	2.8
MBLK	Benzene			<0.25	ug/L				
MS_201005100087	Benzene	ND	10	10.2	ug/L	102	(70-130)		
MSD_201005100087	Benzene	ND	10	10.7	ug/L	107	(70-130)	20	4.8
LCS1	Bromochloromethane		5.0	4.69	ug/L	94	(70-130)		
LCS2	Bromochloromethane		5.0	4.79	ug/L	96	(70-130)	20	2.1
MBLK	Bromochloromethane			<0.25	ug/L				
MS_201005100087	Bromochloromethane	ND	10	9.44	ug/L	94	(70-130)		
MSD_201005100087	Bromochloromethane	ND	10	9.52	ug/L	95	(70-130)	20	0.84
LCS1	Bromodichloromethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	Bromodichloromethane		5.0	4.61	ug/L	92	(70-130)	20	3.4
MBLK	Bromodichloromethane			<0.25	ug/L				
MS_201005100087	Bromodichloromethane	ND	10	9.25	ug/L	93	(70-130)		
MSD_201005100087	Bromodichloromethane	ND	10	9.86	ug/L	99	(70-130)	20	6.4
LCS1	Bromoform		5.0	4.53	ug/L	91	(70-130)		
LCS2	Bromoform		5.0	4.47	ug/L	89	(70-130)	20	1.3
MBLK	Bromoform			<0.25	ug/L				
MS_201005100087	Bromoform	ND	10	9.31	ug/L	93	(70-130)		
MSD_201005100087	Bromoform	ND	10	9.28	ug/L	93	(70-130)	20	0.32
LCS1	Bromomethane (Methyl Bromide)		5.0	4.23	ug/L	85	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.19	ug/L	84	(70-130)	20	0.95
MBLK	Bromomethane (Methyl Bromide)			<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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201005100087	Bromomethane (Methyl Bromide)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201005100087	Bromomethane (Methyl Bromide)	ND	10	11.1	ug/L	111	(70-130)	20	6.5
LCS1	Carbon disulfide		5.0	4.62	ug/L	92	(70-130)		
LCS2	Carbon disulfide		5.0	4.34	ug/L	87	(70-130)	20	6.3
MBLK	Carbon disulfide			<0.25	ug/L				
MS_201005100087	Carbon disulfide	ND	10	10.6	ug/L	106	(70-130)		
MSD_201005100087	Carbon disulfide	ND	10	11.0	ug/L	110	(70-130)	20	3.7
LCS1	Carbon Tetrachloride		5.0	4.59	ug/L	92	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.65	ug/L	93	(70-130)	20	1.3
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MS_201005100087	Carbon Tetrachloride	ND	10	10.0	ug/L	100	(70-130)		
MSD_201005100087	Carbon Tetrachloride	ND	10	10.7	ug/L	107	(70-130)	20	6.8
LCS1	Chlorobenzene		5.0	5.04	ug/L	101	(70-130)		
LCS2	Chlorobenzene		5.0	4.82	ug/L	96	(70-130)	20	4.5
MBLK	Chlorobenzene			<0.25	ug/L				
MS_201005100087	Chlorobenzene	ND	10	9.93	ug/L	99	(70-130)		
MSD_201005100087	Chlorobenzene	ND	10	10.4	ug/L	104	(70-130)	20	4.6
LCS1	Chlorodibromomethane		5.0	4.85	ug/L	97	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.91	ug/L	98	(70-130)	20	1.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MS_201005100087	Chlorodibromomethane	ND	10	9.38	ug/L	94	(70-130)		
MSD_201005100087	Chlorodibromomethane	ND	10	9.57	ug/L	96	(70-130)	20	2.0
LCS1	Chloroethane		5.0	4.1	ug/L	82	(70-130)		
LCS2	Chloroethane		5.0	4.15	ug/L	83	(70-130)	20	1.2
MBLK	Chloroethane			<0.25	ug/L				
MS_201005100087	Chloroethane	ND	10	9.76	ug/L	98	(70-130)		
MSD_201005100087	Chloroethane	ND	10	10.6	ug/L	106	(70-130)	20	8.3
LCS1	Chloroform (Trichloromethane)		5.0	4.95	ug/L	99	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.69	ug/L	94	(70-130)	20	5.4
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MS_201005100087	Chloroform (Trichloromethane)	ND	10	9.65	ug/L	97	(70-130)		
MSD_201005100087	Chloroform (Trichloromethane)	ND	10	9.99	ug/L	100	(70-130)	20	3.5
LCS1	Chloromethane(Methyl Chloride)		5.0	3.67	ug/L	73	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	3.5	ug/L	70	(70-130)	20	4.7
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MS_201005100087	Chloromethane(Methyl Chloride)	ND	10	9.91	ug/L	98	(70-130)		
MSD_201005100087	Chloromethane(Methyl Chloride)	ND	10	10.9	ug/L	108	(70-130)	20	9.5
LCS1	cis-1,2-Dichloroethylene		5.0	4.44	ug/L	89	(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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	cis-1,2-Dichloroethylene		5.0	4.28	ug/L	86	(70-130)	20	3.7
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MS_201005100087	cis-1,2-Dichloroethylene	ND	10	9.82	ug/L	98	(70-130)		
MSD_201005100087	cis-1,2-Dichloroethylene	ND	10	10.3	ug/L	103	(70-130)	20	4.8
LCS1	cis-1,3-Dichloropropene		5.0	4.7	ug/L	94	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.58	ug/L	92	(70-130)	20	2.6
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MS_201005100087	cis-1,3-Dichloropropene	ND	10	9.68	ug/L	97	(70-130)		
MSD_201005100087	cis-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	7.2
LCS1	Dibromomethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	Dibromomethane		5.0	5.01	ug/L	100	(70-130)	20	1.0
MBLK	Dibromomethane			<0.25	ug/L				
MS_201005100087	Dibromomethane	ND	10	9.95	ug/L	100	(70-130)		
MSD_201005100087	Dibromomethane	ND	10	10.0	ug/L	100	(70-130)	20	0.50
LCS1	Dichloromethane		5.0	4.94	ug/L	99	(70-130)		
LCS2	Dichloromethane		5.0	4.95	ug/L	99	(70-130)	20	0.20
MBLK	Dichloromethane			<0.25	ug/L				
MS_201005100087	Dichloromethane	ND	10	9.53	ug/L	95	(70-130)		
MSD_201005100087	Dichloromethane	ND	10	9.93	ug/L	99	(70-130)	20	4.1
LCS1	Ethyl benzene		5.0	5.27	ug/L	105	(70-130)		
LCS2	Ethyl benzene		5.0	4.99	ug/L	100	(70-130)	20	5.5
MBLK	Ethyl benzene			<0.25	ug/L				
MS_201005100087	Ethyl benzene	ND	10	10.6	ug/L	105	(70-130)		
MSD_201005100087	Ethyl benzene	ND	10	11.3	ug/L	112	(70-130)	20	6.5
LCS1	Iodomethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Iodomethane		5.0	5.03	ug/L	101	(70-130)	20	5.6
MBLK	Iodomethane			<0.1	ug/L				
MS_201005100087	Iodomethane	ND	10	9.98	ug/L	100	(70-130)		
MSD_201005100087	Iodomethane	ND	10	10.3	ug/L	103	(70-130)	20	3.2
LCS1	m,p-Xylenes		10	10.9	ug/L	109	(70-130)		
LCS2	m,p-Xylenes		10	10.5	ug/L	105	(70-130)	20	3.7
MBLK	m,p-Xylenes			<0.25	ug/L				
MS_201005100087	m,p-Xylenes	ND	20	21.7	ug/L	108	(70-130)		
MSD_201005100087	m,p-Xylenes	ND	20	23.1	ug/L	115	(70-130)	20	6.3
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.67	ug/L	93	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.76	ug/L	95	(70-130)	20	1.9
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MS_201005100087	Methyl Tert-butyl ether (MTBE)	ND	10	9.8	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.

46/49

(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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QC Report: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201005100087	Methyl Tert-butyl ether (MTBE)	ND	10	10.3	ug/L	103	(70-130)	20	5.0
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	4.94	ug/L	99	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.19	ug/L	104	(70-130)	20	4.9
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MS_201005100087	o-Dichlorobenzene (1,2-DCB)	ND	10	9.76	ug/L	97	(70-130)		
MSD_201005100087	o-Dichlorobenzene (1,2-DCB)	ND	10	10.3	ug/L	102	(70-130)	20	5.2
LCS1	o-Xylene		5.0	5.2	ug/L	104	(70-130)		
LCS2	o-Xylene		5.0	4.83	ug/L	97	(70-130)	20	7.4
MBLK	o-Xylene			<0.25	ug/L				
MS_201005100087	o-Xylene	ND	10	10.8	ug/L	107	(70-130)		
MSD_201005100087	o-Xylene	ND	10	11.1	ug/L	111	(70-130)	20	3.7
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.1	ug/L	102	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.07	ug/L	101	(70-130)	20	0.59
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MS_201005100087	p-Dichlorobenzene (1,4-DCB)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201005100087	p-Dichlorobenzene (1,4-DCB)	ND	10	10.5	ug/L	104	(70-130)	20	2.9
LCS1	Styrene		5.0	5.01	ug/L	100	(70-130)		
LCS2	Styrene		5.0	4.92	ug/L	98	(70-130)	20	1.8
MBLK	Styrene			<0.25	ug/L				
MS_201005100087	Styrene	ND	10	9.7	ug/L	97	(70-130)		
MSD_201005100087	Styrene	ND	10	10.0	ug/L	100	(70-130)	20	3.0
LCS1	Tetrachloroethylene (PCE)		5.0	4.67	ug/L	93	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.43	ug/L	89	(70-130)	20	5.3
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MS_201005100087	Tetrachloroethylene (PCE)	ND	10	9.7	ug/L	97	(70-130)		
MSD_201005100087	Tetrachloroethylene (PCE)	ND	10	9.99	ug/L	100	(70-130)	20	3.0
LCS1	Toluene		5.0	4.91	ug/L	98	(70-130)		
LCS2	Toluene		5.0	4.74	ug/L	95	(70-130)	20	3.5
MBLK	Toluene			<0.25	ug/L				
MS_201005100087	Toluene	ND	10	10.0	ug/L	100	(70-130)		
MSD_201005100087	Toluene	ND	10	10.6	ug/L	105	(70-130)	20	5.4
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			97.8	%	98	(70-130)		
MBLK	Toluene-d8 (S)			92.6	%	93	(70-130)		
MS_201005100087	Toluene-d8 (S)			98.6	%	99	(70-130)		
MSD_201005100087	Toluene-d8 (S)			102	%	102	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.41	ug/L	108	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.08	ug/L	102	(70-130)	20	6.3

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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MS_201005100087	trans-1,2-Dichloroethylene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201005100087	trans-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	5.8
LCS1	trans-1,3-Dichloropropene		5.0	4.74	ug/L	95	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.54	ug/L	91	(70-130)	20	4.3
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MS_201005100087	trans-1,3-Dichloropropene	ND	10	9.51	ug/L	95	(70-130)		
MSD_201005100087	trans-1,3-Dichloropropene	ND	10	9.94	ug/L	99	(70-130)	20	4.4
LCS1	trans-1,4-dichloro-2-butene		5.0	5.03	ug/L	101	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	4.28	ug/L	86	(70-130)	20	16
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201005100087	trans-1,4-dichloro-2-butene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201005100087	trans-1,4-dichloro-2-butene	ND	10	10.4	ug/L	104	(70-130)	20	2.9
LCS1	Trichloroethylene (TCE)		5.0	4.56	ug/L	91	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.48	ug/L	90	(70-130)	20	1.8
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MS_201005100087	Trichloroethylene (TCE)	ND	10	9.68	ug/L	97	(70-130)		
MSD_201005100087	Trichloroethylene (TCE)	ND	10	9.89	ug/L	99	(70-130)	20	2.1
LCS1	Trichlorofluoromethane		5.0	4.2	ug/L	84	(70-130)		
LCS2	Trichlorofluoromethane		5.0	3.98	ug/L	80	(70-130)	20	5.4
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MS_201005100087	Trichlorofluoromethane	ND	10	9.96	ug/L	100	(70-130)		
MSD_201005100087	Trichlorofluoromethane	ND	10	10.8	ug/L	108	(70-130)	20	8.1
LCS1	Vinyl Acetate		25	24.5	ug/L	98	(70-130)		
LCS2	Vinyl Acetate		25	24.1	ug/L	96	(70-130)	20	3.7
MBLK	Vinyl Acetate			<5.0	ug/L				
MS_201005100087	Vinyl Acetate	ND	50	45.6	ug/L	91	(70-130)		
MSD_201005100087	Vinyl Acetate	ND	50	45.1	ug/L	90	(70-130)	20	1.1
LCS1	Vinyl chloride (VC)		5.0	3.6	ug/L	72	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	3.49	ug/L	70	(70-130)	20	3.1
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MS_201005100087	Vinyl chloride (VC)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201005100087	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	7.4

QC Ref# 554840 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 05/20/2010

LCS1	Alkalinity in CaCO3 units		100	99.4	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)	20	0.10
MBLK	Alkalinity in CaCO3 units			<2	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.

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(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: 333070

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.97	mg/L	99	(50-150)		
MS_201005100087	Alkalinity in CaCO3 units	99	100	193	mg/L	94	(80-120)		
MS2_201005100092	Alkalinity in CaCO3 units	110	100	173	mg/L	<u>59</u>	(80-120)		
MSD_201005100087	Alkalinity in CaCO3 units	99	100	195	mg/L	97	(80-120)	20	2.7
MSD2_201005100092	Alkalinity in CaCO3 units	110	100	173	mg/L	<u>59</u>	(80-120)	20	0.0

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.

49/49

(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)