



MWH

LABORATORIES

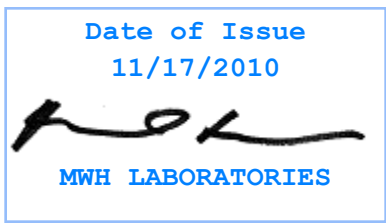
A Division of MWH Americas, Inc.

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

Laboratory Report

for

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



Report#: 347614
Project: SR85
Group: SR85-2010-4

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

Customer Code: PHOENIX-LF
Folder #: 347614
Project: SR85
Sample Group: SR85-2010-4
Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **October 28, 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																		
<u>201010280351</u>	85A-410 Sample Type: FO Well ID: MW-3	Oct 28, 2010 10:43																		
	<table border="1"> <tr> <td>@504</td> <td>@VOA</td> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Arsenic Total ICAP/MS</td> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> <td>Chloride</td> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> <td>Fluoride</td> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> <td>Nitrate as N by RFA Low Level</td> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> <td>Total Dissolved Solid (TDS)</td> <td>Zinc Total ICAP/MS</td> </tr> </table>	@504	@VOA	Mercury	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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<u>201010280352</u>	85A-410 MS Sample Type: QC Well ID: MW-3	Oct 28, 2010 10:43																		
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<u>201010280353</u>	85A-410 MSD Sample Type: QC Well ID: MW-3	Oct 28, 2010 10:43																		
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<u>201010280354</u>	85A-410 DUP Sample Type: QC Well ID: MW-3	Oct 28, 2010 10:43																		
	<table border="1"> <tr> <td colspan="3">Total Dissolved Solid (TDS)</td> </tr> </table>	Total Dissolved Solid (TDS)																		
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<u>201010280355</u>	85ATB-410 Sample Type: TB Well ID: MW-3	Oct 28, 2010 10:43																		
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<u>201010280357</u>	85F-410 Sample Type: FO Well ID: MW-4	Oct 28, 2010 11:44																		



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Attn: Jesus Paez
Phone: (602) 534 6655

Customer Code: PHOENIX-LF

Folder #: 347614

Project: SR85

Sample Group: SR85-2010-4

Project Manager: Thomas.D.French

Phone: (480) 778-1558

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<u>201010280358</u>	85E-410 Sample Type: FD Well ID: MW-4	Oct 28, 2010 11:45																		
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<u>201010280360</u>	85B-410 Sample Type: FB Well ID: MW-1	Oct 28, 2010 12:30																		
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<u>201010280365</u>	85C-410 Sample Type: FO Well ID: MW-1	Oct 28, 2010 12:47																		
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Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS																		
<u>201010280367</u>	85D-410 Sample Type: FO Well ID: MW-2	Oct 28, 2010 13:57																		



Acknowledgement of Samples Received

City of Phoenix

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

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Project: SR85

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Sample #	Sample ID	Sample Date
	@504 @VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride
	Copper Total ICAP/MS	Fluoride
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)
		Barium Total ICAP/MS
		Chromium Total ICAP/MS
		Lead Total ICAP/MS
		Selenium Total ICAP/MS
		Zinc Total ICAP/MS
<u>201010280368</u>	85DTB-410	Oct 28, 2010 13:57
	Sample Type: TB	
	Well ID: MW-2	
	@504 @VOA	

Test Description

@504 -- EPA Method 504.1

@VOA -- Volatile Organics by GCMS

@504 -- EPA Method 504.1

@VOA -- Volatile Organics by GCMS



MWH LABORATORIES

750 Royal Oaks, Suite 100
 Monrovia, California 91016
 Phone: (626) 386-1100
 (800) 566-5227
 Fax: (626) 386-1101

CHAIN OF CUSTODY RECORD

MWH LABS USE ONLY:

LOG IN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: 347614

SAMPLES LOGGED IN BY: w

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

SAMPLE TEMP RECEIVED AT: 4.6 °C (Compliance: 4 +/- 2°C)

RECEIVED FROM CLIENT: REFRIGERATED ON ICE

RECEIVED FROM CLIENT: REFRIGERATED ON ICE

CONDITION OF ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:		COMPANY, UTILITY or PROJECT:		SYSTEM #:	COMPLIANCE SAMPLES	NON-COMPLIANCE SAMPLES	REGULATION INVOLVED:		SAMPLER COMMENTS	
SAMPLE DATE	SAMPLE TIME	SITE NAME OR SAMPLE I.D.	STATION # or LOCATION	MATRIX *	GRAB	COMP	SEE ATTACHED BOTTLE ORDER FOR ANALYSES	ROUTINE	SPECIAL	CONFIRMATION
10/28/10	1533	85A-410	SR-95 LF		+		WELL ID	MW-3		QC
"	1144	85F-410	"		x		"	MW-4		FD
"	1145	85E-410	"		+		"	MW-4		FD
"	1230	85B-410	"		x		"	MW-1		FB
"	1247	85C-410	"		x		"	MW-1		FO
"	1354	85D-410	"		x		"	MW-2		FO

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	<i>Rich Wilson</i>	JESUS RAEZ	CITY OF PHOENIX	10/28/10	1454
RELINQUISHED BY:	<i>Rich Wilson</i>	Rich Wilson	c/c	10/28/10	1454
RECEIVED BY:	<i>Steve Wankel</i>	Steve Wankel	c/c	10/28/10	1530
RELINQUISHED BY:	<i>Steve Wankel</i>	Steve Wankel	MWH	10-28-10	1530
RECEIVED BY:	<i>Jesus RAEZ</i>	Jesus RAEZ	MWH	10/29/10	1125

* MATRIX TYPES: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlor(am)inated Finished Water, FW = Other Finished Water, CWW = Chlorinated Waste Water, WW = Other Waste Water, BW = Bottled Water, SW = Storm Water, SO = Soil, SL = Sludge



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Laboratory Comments
Report: #347614



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Laboratory
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Samples Received on:
10/28/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201010280351	<u>85A-410</u>			
11/01/2010	19:49	Alkalinity in CaCO3 units	97		mg/L	2
11/03/2010	21:04	Arsenic Total ICAP/MS	5.6	10	ug/L	5
11/02/2010	01:22	Barium Total ICAP/MS	48	2000	ug/L	2
10/29/2010	16:21	Chloride	800	250	mg/L	25
11/03/2010	21:04	Chromium Total ICAP/MS	4.7	100	ug/L	1
11/01/2010	12:41	Fluoride	4.6	2	mg/L	0.25
11/02/2010	01:22	Nickel Total ICAP/MS	56		ug/L	5
11/03/2010	13:31	Nitrate as N by RFA Low Level	2.5		mg/L	0.03
11/02/2010	18:08	Total Dissolved Solids (TDS)	1700	500	mg/L	10
11/02/2010	01:22	Zinc Total ICAP/MS	74	5000	ug/L	20
		201010280354	<u>85A-410 DUP</u>			
11/02/2010	18:30	Total Dissolved Solids (TDS)	1700	500	mg/L	10
		201010280357	<u>85F-410</u>			
11/01/2010	22:01	Alkalinity in CaCO3 units	120		mg/L	2
11/03/2010	21:09	Arsenic Total ICAP/MS	3.5	10	ug/L	1
11/02/2010	01:38	Barium Total ICAP/MS	95	2000	ug/L	2
10/29/2010	16:59	Chloride	1100	250	mg/L	25
11/02/2010	01:38	Chromium Total ICAP/MS	6.8	100	ug/L	1
11/01/2010	12:36	Fluoride	2.2	2	mg/L	0.05
11/02/2010	01:38	Nickel Total ICAP/MS	8.7		ug/L	5
11/03/2010	14:24	Nitrate as N by RFA Low Level	13		mg/L	0.15
11/02/2010	01:38	Selenium Total ICAP/MS	7.1	50	ug/L	5
11/02/2010	18:10	Total Dissolved Solids (TDS)	3200	500	mg/L	10
		201010280358	<u>85E-410</u>			
11/01/2010	22:08	Alkalinity in CaCO3 units	120		mg/L	2
11/03/2010	21:14	Arsenic Total ICAP/MS	4.5	10	ug/L	1
11/02/2010	01:42	Barium Total ICAP/MS	93	2000	ug/L	2
10/29/2010	19:18	Chloride	1100	250	mg/L	25
11/02/2010	01:42	Chromium Total ICAP/MS	6.3	100	ug/L	1
11/01/2010	12:37	Fluoride	2.2	2	mg/L	0.05
11/02/2010	01:42	Nickel Total ICAP/MS	8.5		ug/L	5
11/03/2010	14:25	Nitrate as N by RFA Low Level	13		mg/L	0.15
11/02/2010	01:42	Selenium Total ICAP/MS	6.9	50	ug/L	5
11/02/2010	18:11	Total Dissolved Solids (TDS)	3200	500	mg/L	10



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10/28/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201010280365	<u>85C-410</u>			
11/01/2010	22:20	Alkalinity in CaCO3 units	150		mg/L	2
11/03/2010	21:19	Arsenic Total ICAP/MS	6.8	10	ug/L	5
11/02/2010	01:59	Barium Total ICAP/MS	73	2000	ug/L	2
11/02/2010	14:12	Chloride	2200	250	mg/L	50
11/02/2010	01:59	Chromium Total ICAP/MS	7.4	100	ug/L	1
11/02/2010	01:59	Copper Total ICAP/MS	2.9	1300	ug/L	2
11/01/2010	12:39	Fluoride	0.45	2	mg/L	0.05
11/02/2010	01:59	Nickel Total ICAP/MS	7.0		ug/L	5
11/03/2010	14:46	Nitrate as N by RFA Low Level	24		mg/L	0.75
11/02/2010	01:59	Selenium Total ICAP/MS	9.6	50	ug/L	5
11/02/2010	18:13	Total Dissolved Solids (TDS)	5000	500	mg/L	10
11/02/2010	01:59	Zinc Total ICAP/MS	120	5000	ug/L	20
		201010280367	<u>85D-410</u>			
11/01/2010	22:28	Alkalinity in CaCO3 units	94		mg/L	2
11/02/2010	23:43	Arsenic Total ICAP/MS	5.6	10	ug/L	1
11/02/2010	23:43	Barium Total ICAP/MS	57	2000	ug/L	2
11/02/2010	13:59	Chloride	1400	250	mg/L	50
11/02/2010	23:43	Chromium Total ICAP/MS	4.2	100	ug/L	1
11/02/2010	23:43	Copper Total ICAP/MS	2.5	1300	ug/L	2
11/01/2010	12:40	Fluoride	2.8	2	mg/L	0.05
11/02/2010	23:43	Nickel Total ICAP/MS	8.4		ug/L	5
11/03/2010	14:27	Nitrate as N by RFA Low Level	13		mg/L	0.15
11/02/2010	23:43	Selenium Total ICAP/MS	6.8	50	ug/L	5
11/02/2010	23:43	Silver Total ICAP/MS	0.66	100	ug/L	0.5
11/02/2010	18:14	Total Dissolved Solids (TDS)	3400	500	mg/L	10



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Includes sections for EPA 353.2, EPA 200.8, EPA 245.1, EPA 8011, EPA 300.0, and EPA 8260.

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



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Samples Received on:
10/28/2010

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows list various chemical analytes such as Acetone, Benzene, and Chlorobenzene with their respective results and MRL values.

Rounding on totals after summation.
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Samples Received on:
10/28/2010

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Vinyl chloride (VC), Fluoride, Alkalinity in CaCO3 units, and Total Dissolved Solids (TDS).

85A-410 MS (201010280352)

Sampled on 10/28/2010 1043

Sample Type: QC
Well Id: MW-3

EPA 353.2 - Nitrate as N by RFA Low Level

Table row for EPA 353.2: 11/03/2010 13:33 575297 (EPA 353.2) Nitrate as N by RFA Low Level 94 % 0.03 1

EPA 200.8 - ICPMS Metals

Table rows for EPA 200.8: Arsenic Total ICAP/MS, Barium Total ICAP/MS, Cadmium Total ICAP/MS, Chromium Total ICAP/MS, Copper Total ICAP/MS, Lead Total ICAP/MS, Nickel Total ICAP/MS, Selenium Total ICAP/MS, Silver Total ICAP/MS, Zinc Total ICAP/MS.

EPA 245.1 - Mercury

Table row for EPA 245.1: 11/4/2010 11/05/2010 15:01 575592 (EPA 245.1) Mercury 103 % 0.2 1

EPA 8011 - EPA Method 504.1

Table rows for EPA 8011: Dibromochloropropane (DBCP), Ethylene Dibromide (EDB).

EPA 300.0 - Chloride, Sulfate by EPA 300.0

Table row for EPA 300.0: 10/29/2010 16:33 574751 (EPA 300.0) Chloride 101 % 25 25

EPA 8260 - Volatile Organics by GCMS

Table rows for EPA 8260: 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane.

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(c) - indicates calculated results



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	1,1-Dichloroethylene	104	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	1,2,3-Trichloropropane	114	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	1,2-Dichloroethane	91	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	1,2-Dichloropropane	92	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	2-Butanone (MEK)	98	%	5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	2-Hexanone	104	%	10	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	102	%	5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Acetone	99	%	10	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Acrylonitrile (Screen)	111	%	50	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Benzene	97	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Bromochloromethane	92	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Bromodichloromethane	93	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Bromoform	96	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	84	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Carbon disulfide	96	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Carbon Tetrachloride	104	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Chlorobenzene	93	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Chlorodibromomethane	91	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Chloroethane	89	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Chloroform (Trichloromethane)	90	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	91	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	cis-1,2-Dichloroethylene	93	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	cis-1,3-Dichloropropene	99	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Dibromomethane	94	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Dichloromethane	87	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Ethyl benzene	103	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Iodomethane	102	%	0.1	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	m,p-Xylenes	104	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	94	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	90	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	o-Xylene	100	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	90	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Styrene	84	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Tetrachloroethylene (PCE)	104	%	0.5	1
11/3/2010	11/03/2010	15:24	575509	(EPA 8260)	Toluene	94	%	0.5	1

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	Total xylenes	102	%	1	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	trans-1,2-Dichloroethylene	95	%	0.5	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	trans-1,3-Dichloropropene	104	%	0.5	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	164	%	10	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	Trichloroethylene (TCE)	97	%	0.5	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	Trichlorofluoromethane	92	%	0.5	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	Vinyl Acetate	88	%	10	1	
11/3/2010	11/03/2010	15:24	575509 (EPA 8260)	Vinyl chloride (VC)	93	%	0.3	1	
SM 4500F-C - Fluoride									
	11/01/2010	12:42	574882 (SM 4500F-C)	Fluoride	100	%	0.25	5	
SM 2320B - Alkalinity in CaCO3 units									
	11/01/2010	19:57	574983 (SM 2320B)	Alkalinity in CaCO3 units	98	%	2	1	
85A-410 MSD (201010280353)					Sampled on 10/28/2010 1043				
Sample Type: QC Well Id: MW-3									
EPA 353.2 - Nitrate as N by RFA Low Level									
	11/03/2010	13:35	575297 (EPA 353.2)	Nitrate as N by RFA Low Level	98	%	0.03	1	
EPA 200.8 - ICPMS Metals									
	11/02/2010	01:32	574945 (EPA 200.8)	Arsenic Total ICAP/MS	110	%	1	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Barium Total ICAP/MS	90	%	2	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Cadmium Total ICAP/MS	84	%	0.5	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Chromium Total ICAP/MS	90	%	1	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Copper Total ICAP/MS	83	%	2	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Lead Total ICAP/MS	87	%	0.5	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Nickel Total ICAP/MS	81	%	5	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Selenium Total ICAP/MS	91	%	5	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Silver Total ICAP/MS	81	%	0.5	1	
	11/02/2010	01:32	574945 (EPA 200.8)	Zinc Total ICAP/MS	86	%	20	1	
EPA 245.1 - Mercury									
	11/4/2010	11/05/2010	15:04	575592 (EPA 245.1)	Mercury	104	%	0.2	1
EPA 8011 - EPA Method 504.1									
	11/5/2010	11/04/2010	05:10	575467 (EPA 8011)	Dibromochloropropane (DBCP)	101	%	0.01	1
	11/5/2010	11/04/2010	05:10	575467 (EPA 8011)	Ethylene Dibromide (EDB)	105	%	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	10/29/2010	16:46	574751 (EPA 300.0)	Chloride	101	%	25	25	
EPA 8260 - Volatile Organics by GCMS									

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1,1,2-Tetrachloroethane	103	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1,1-Trichloroethane	114	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1,2,2-Tetrachloroethane	98	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1,2-Trichloroethane	99	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1-Dichloroethane	108	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,1-Dichloroethylene	128	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,2,3-Trichloropropane	119	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,2-Dichloroethane	104	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	1,2-Dichloropropane	105	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	2-Butanone (MEK)	101	%	5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	2-Hexanone	107	%	10	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	107	%	5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Acetone	99	%	10	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Acrylonitrile (Screen)	107	%	50	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Benzene	113	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Bromochloromethane	101	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Bromodichloromethane	106	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Bromoform	106	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	94	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Carbon disulfide	114	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Carbon Tetrachloride	120	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Chlorobenzene	110	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Chlorodibromomethane	102	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Chloroethane	105	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Chloroform (Trichloromethane)	103	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	100	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	cis-1,2-Dichloroethylene	107	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	cis-1,3-Dichloropropene	117	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Dibromomethane	105	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Dichloromethane	99	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Ethyl benzene	121	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Iodomethane	100	%	0.1	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	m,p-Xylenes	118	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	105	%	0.5	1
11/3/2010	11/03/2010	16:01	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	103	%	0.5	1

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	o-Xylene	117	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	103	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Styrene	101	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Tetrachloroethylene (PCE)	121	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Toluene	111	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Total xylenes	118	%	1	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	trans-1,2-Dichloroethylene	115	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	trans-1,3-Dichloropropene	115	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	153	%	10	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Trichloroethylene (TCE)	116	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Trichlorofluoromethane	109	%	0.5	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Vinyl Acetate	101	%	10	1
11/3/2010	11/03/2010	16:01	575509 (EPA 8260)	Vinyl chloride (VC)	111	%	0.3	1
SM 4500F-C - Fluoride								
	11/01/2010	12:43	574882 (SM 4500F-C)	Fluoride	100	%	0.25	5
SM 2320B - Alkalinity in CaCO3 units								
	11/01/2010	20:05	574983 (SM 2320B)	Alkalinity in CaCO3 units	99	%	2	1

85A-410 DUP (201010280354)

Sampled on 10/28/2010 1043

Sample Type: QC
Well Id: MW-3

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

11/2/2010	11/02/2010	18:30	575134 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1700	mg/L	10	1
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85ATB-410 (201010280355)

Sampled on 10/28/2010 1043

Sample Type: TB
Well Id: MW-3

EPA 8011 - EPA Method 504.1

11/5/2010	11/04/2010	05:44	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	05:44	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

EPA 8260 - Volatile Organics by GCMS

11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	17:07	575509	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	17:07	575509 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

85F-410 (201010280357)

Sampled on 10/28/2010 1144

Sample Type: FO
Well Id: MW-4

EPA 353.2 - Nitrate as N by RFA Low Level

11/03/2010	14:24	575297	(EPA 353.2)	Nitrate as N by RFA Low Level	13	mg/L	0.15	5
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EPA 200.8 - ICPMS Metals

11/03/2010	21:09	575847	(EPA 200.8)	Arsenic Total ICAP/MS	3.5	ug/L	1	5
11/02/2010	01:38	574945	(EPA 200.8)	Barium Total ICAP/MS	95	ug/L	2	1
11/02/2010	01:38	574945	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:38	574945	(EPA 200.8)	Chromium Total ICAP/MS	6.8	ug/L	1	1
11/02/2010	01:38	574945	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
11/02/2010	01:38	574945	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:38	574945	(EPA 200.8)	Nickel Total ICAP/MS	8.7	ug/L	5	1
11/02/2010	01:38	574945	(EPA 200.8)	Selenium Total ICAP/MS	7.1	ug/L	5	1
11/02/2010	01:38	574945	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:38	574945	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1

EPA 245.1 - Mercury

11/4/2010	11/05/2010	14:57	575592 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
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EPA 8011 - EPA Method 504.1

11/5/2010	11/04/2010	06:18	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	06:18	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

EPA 300.0 - Chloride, Sulfate by EPA 300.0

10/29/2010	16:59	574751	(EPA 300.0)	Chloride	1100	mg/L	25	25
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EPA 8260 - Volatile Organics by GCMS

11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1

17/53

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509	(EPA 8260)	Total xylenes	ND	ug/L	1	1

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	17:36	575509 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	11/01/2010	12:36	574882 (SM 4500F-C)	Fluoride	2.2	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	11/01/2010	22:01	574983 (SM 2320B)	Alkalinity in CaCO3 units	120	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
11/2/2010	11/02/2010	18:10	575134 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3200	mg/L	10	1
85E-410 (201010280358)						Sampled on 10/28/2010 1145		
Sample Type: FD								
Well Id: MW-4								
EPA 353.2 - Nitrate as N by RFA Low Level								
11/03/2010	14:25	575297	(EPA 353.2)	Nitrate as N by RFA Low Level	13	mg/L	0.15	5
EPA 200.8 - ICPMS Metals								
11/03/2010	21:14	575847	(EPA 200.8)	Arsenic Total ICAP/MS	4.5	ug/L	1	5
11/02/2010	01:42	574945	(EPA 200.8)	Barium Total ICAP/MS	93	ug/L	2	1
11/02/2010	01:42	574945	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:42	574945	(EPA 200.8)	Chromium Total ICAP/MS	6.3	ug/L	1	1
11/02/2010	01:42	574945	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
11/02/2010	01:42	574945	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:42	574945	(EPA 200.8)	Nickel Total ICAP/MS	8.5	ug/L	5	1
11/02/2010	01:42	574945	(EPA 200.8)	Selenium Total ICAP/MS	6.9	ug/L	5	1
11/02/2010	01:42	574945	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:42	574945	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
11/4/2010	11/05/2010	15:05	575592 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
11/5/2010	11/04/2010	06:52	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	06:52	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
10/29/2010	19:18	574874	(EPA 300.0)	Chloride	1100	mg/L	25	25

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



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 8260 - Volatile Organics by GCMS								
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (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: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	18:00	575509 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	11/01/2010	12:37	574882 (SM 4500F-C)	Fluoride	2.2	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	11/01/2010	22:08	574983 (SM 2320B)	Alkalinity in CaCO3 units	120	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
11/2/2010	11/02/2010	18:11	575134 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3200	mg/L	10	1
85B-410 (201010280360)						Sampled on 10/28/2010 1230		
Sample Type: FB								
Well Id: MW-1								
EPA 353.2 - Nitrate as N by RFA Low Level								
11/03/2010	13:46	575297	(EPA 353.2)	Nitrate as N by RFA Low Level	ND	mg/L	0.03	1
EPA 200.8 - ICPMS Metals								
11/02/2010	01:46	574945	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
11/02/2010	01:46	574945	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
11/02/2010	01:46	574945	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:46	574945	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
11/02/2010	01:46	574945	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
11/02/2010	01:46	574945	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	01:46	574945	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
11/02/2010	01:46	574945	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
11/02/2010	01:46	574945	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	11/02/2010	01:46	574945 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
11/4/2010	11/05/2010	15:11	575592 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
11/5/2010	11/04/2010	07:26	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	07:26	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	10/29/2010	19:43	574874 (EPA 300.0)	Chloride	ND	mg/L	1	1
EPA 8260 - Volatile Organics by GCMS								
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	18:23	575509 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
11/01/2010	12:38	574882	(SM 4500F-C)	Fluoride	ND	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
11/01/2010	22:13	574983	(SM 2320B)	Alkalinity in CaCO3 units	ND	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
11/2/2010	11/02/2010	18:12	575134 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1

85C-410 (201010280365)

Sampled on 10/28/2010 1247

Sample Type: FO
Well Id: MW-1

EPA 353.2 - Nitrate as N by RFA Low Level

11/03/2010	14:46	575297	(EPA 353.2)	Nitrate as N by RFA Low Level	24	mg/L	0.75	25
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EPA 200.8 - ICPMS Metals

11/03/2010	21:19	575847	(EPA 200.8)	Arsenic Total ICAP/MS	6.8	ug/L	5	5
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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	11/02/2010	01:59	574945 (EPA 200.8)	Barium Total ICAP/MS	73	ug/L	2	1
	11/02/2010	01:59	574945 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	11/02/2010	01:59	574945 (EPA 200.8)	Chromium Total ICAP/MS	7.4	ug/L	1	1
	11/02/2010	01:59	574945 (EPA 200.8)	Copper Total ICAP/MS	2.9	ug/L	2	1
	11/02/2010	01:59	574945 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	11/02/2010	01:59	574945 (EPA 200.8)	Nickel Total ICAP/MS	7.0	ug/L	5	1
	11/02/2010	01:59	574945 (EPA 200.8)	Selenium Total ICAP/MS	9.6	ug/L	5	1
	11/02/2010	01:59	574945 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	11/02/2010	01:59	574945 (EPA 200.8)	Zinc Total ICAP/MS	120	ug/L	20	1
EPA 245.1 - Mercury								
11/4/2010	11/05/2010	15:13	575592 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
11/5/2010	11/04/2010	08:00	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	08:00	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	11/02/2010	14:12	575024 (EPA 300.0)	Chloride	2200	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509 (EPA 8260)	Bromoform	ND	ug/L	0.5	1

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



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Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	18:46	575509	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride									
11/01/2010	12:39	574882	(SM 4500F-C)	Fluoride	0.45	mg/L	0.05	1	
SM 2320B - Alkalinity in CaCO3 units									
11/01/2010	22:20	574983	(SM 2320B)	Alkalinity in CaCO3 units	150	mg/L	2	1	
E160.1/SM2540C - Total Dissolved Solids (TDS)									

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



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
11/2/2010	11/02/2010	18:13	575134 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	5000	mg/L	10	1
85D-410 (201010280367)						Sampled on 10/28/2010 1357		
Sample Type: FO Well Id: MW-2								
EPA 353.2 - Nitrate as N by RFA Low Level								
11/03/2010	14:27	575297	(EPA 353.2)	Nitrate as N by RFA Low Level	13	mg/L	0.15	5
EPA 200.8 - ICPMS Metals								
11/02/2010	23:43	575130	(EPA 200.8)	Arsenic Total ICAP/MS	5.6	ug/L	1	1
11/02/2010	23:43	575130	(EPA 200.8)	Barium Total ICAP/MS	57	ug/L	2	1
11/02/2010	23:43	575130	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	23:43	575130	(EPA 200.8)	Chromium Total ICAP/MS	4.2	ug/L	1	1
11/02/2010	23:43	575130	(EPA 200.8)	Copper Total ICAP/MS	2.5	ug/L	2	1
11/02/2010	23:43	575130	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/02/2010	23:43	575130	(EPA 200.8)	Nickel Total ICAP/MS	8.4	ug/L	5	1
11/02/2010	23:43	575130	(EPA 200.8)	Selenium Total ICAP/MS	6.8	ug/L	5	1
11/02/2010	23:43	575130	(EPA 200.8)	Silver Total ICAP/MS	0.66	ug/L	0.5	1
11/02/2010	23:43	575130	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
11/4/2010	11/05/2010	15:14	575592 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
11/5/2010	11/04/2010	08:34	575467 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
11/5/2010	11/04/2010	08:34	575467 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
11/02/2010	13:59	575024	(EPA 300.0)	Chloride	1400	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
11/3/2010	11/03/2010	19:09	575509 (EPA 8260)	2-Hexanone	ND	ug/L	10	1

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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Acetone	ND	ug/L	10	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:09	575509	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1

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(c) - indicates calculated results



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Laboratory Data
Report: 347614

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

Samples Received on:
10/28/2010

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Vinyl Acetate, Vinyl chloride (VC), Fluoride, Alkalinity in CaCO3 units, and Total Dissolved Solids (TDS).

85DTB-410 (201010280368)

Sampled on 10/28/2010 1357

Sample Type: TB
Well Id: MW-2

EPA 8011 - EPA Method 504.1

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB).

EPA 8260 - Volatile Organics by GCMS

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include various volatile organics such as 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, etc.



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Samples Received on:
10/28/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Styrene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Toluene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Total xylenes	ND	ug/L	1	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
11/3/2010	11/03/2010	19:31	575509	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1



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QC Ref # 574751 - Chloride, Sulfate by EPA 300.0

201010280351 85A-410
201010280352 85A-410 MS
201010280353 85A-410 MSD
201010280357 85F-410

Analysis Date: 10/29/2010

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

QC Ref # 574874 - Chloride, Sulfate by EPA 300.0

201010280358 85E-410
201010280360 85B-410

Analysis Date: 10/29/2010

Analyzed by: SXX
Analyzed by: SXX

QC Ref # 574882 - Fluoride

201010280351 85A-410
201010280352 85A-410 MS
201010280353 85A-410 MSD
201010280357 85F-410
201010280358 85E-410
201010280360 85B-410
201010280365 85C-410
201010280367 85D-410

Analysis Date: 11/01/2010

Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP

QC Ref # 574945 - ICPMS Metals

201010280351 85A-410
201010280352 85A-410 MS
201010280353 85A-410 MSD
201010280357 85F-410
201010280357 85F-410
201010280358 85E-410
201010280360 85B-410
201010280365 85C-410

Analysis Date: 11/02/2010

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

QC Ref # 574983 - Alkalinity in CaCO3 units

201010280351 85A-410
201010280352 85A-410 MS
201010280353 85A-410 MSD
201010280357 85F-410
201010280358 85E-410
201010280360 85B-410
201010280365 85C-410
201010280367 85D-410

Analysis Date: 11/01/2010

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 575024 - Chloride, Sulfate by EPA 300.0

201010280365 85C-410
201010280367 85D-410

Analysis Date: 11/02/2010

Analyzed by: SXX
Analyzed by: SXX

QC Ref # 575130 - ICPMS Metals

201010280367 85D-410

Analysis Date: 11/02/2010

Analyzed by: DYH

QC Ref # 575134 - Total Dissolved Solids (TDS)

201010280351 85A-410
201010280354 85A-410 DUP

Analysis Date: 11/02/2010

Analyzed by: JRF
Analyzed by: JRF



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Table with 3 columns: Sample ID, Sample Name, and Analyst. Rows include 201010280357 (85F-410, JRF), 201010280358 (85E-410, JRF), 201010280360 (85B-410, JRF), 201010280365 (85C-410, JRF), and 201010280367 (85D-410, JRF).

QC Ref # 575297 - Nitrate as N by RFA Low Level

Analysis Date: 11/03/2010

Table with 3 columns: Sample ID, Sample Name, and Analyst. Rows include 201010280351 (85A-410, YXP), 201010280352 (85A-410 MS, YXP), 201010280353 (85A-410 MSD, YXP), 201010280357 (85F-410, YXP), 201010280358 (85E-410, YXP), 201010280360 (85B-410, YXP), 201010280365 (85C-410, YXP), and 201010280367 (85D-410, YXP).

QC Ref # 575467 - EPA Method 504.1

Analysis Date: 11/04/2010

Table with 3 columns: Sample ID, Sample Name, and Analyst. Rows include 201010280351 (85A-410, MDM), 201010280352 (85A-410 MS, MDM), 201010280353 (85A-410 MSD, MDM), 201010280355 (85ATB-410, MDM), 201010280357 (85F-410, MDM), 201010280358 (85E-410, MDM), 201010280360 (85B-410, MDM), 201010280365 (85C-410, MDM), 201010280367 (85D-410, MDM), and 201010280368 (85DTB-410, MDM).

QC Ref # 575509 - Volatile Organics by GCMS

Analysis Date: 11/03/2010

Table with 3 columns: Sample ID, Sample Name, and Analyst. Rows include 201010280351 (85A-410, MCB), 201010280352 (85A-410 MS, MCB), 201010280353 (85A-410 MSD, MCB), 201010280355 (85ATB-410, MCB), 201010280357 (85F-410, MCB), 201010280358 (85E-410, MCB), 201010280360 (85B-410, MCB), 201010280365 (85C-410, MCB), 201010280367 (85D-410, MCB), and 201010280368 (85DTB-410, MCB).

QC Ref # 575592 - Mercury

Analysis Date: 11/05/2010

Table with 3 columns: Sample ID, Sample Name, and Analyst. Rows include 201010280351 (85A-410, AAO), 201010280352 (85A-410 MS, AAO), 201010280353 (85A-410 MSD, AAO), 201010280357 (85F-410, AAO), 201010280358 (85E-410, AAO), 201010280360 (85B-410, AAO), and 201010280365 (85C-410, AAO).



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Laboratory
QC Summary: 347614

City of Phoenix

(continued)

201010280367 85D-410

Analyzed by: AAO

QC Ref # 575847 - ICPMS Metals

Analysis Date: 11/03/2010

201010280351 85A-410

Analyzed by: DYH

201010280357 85F-410

Analyzed by: DYH

201010280358 85E-410

Analyzed by: DYH

201010280365 85C-410

Analyzed by: DYH



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Laboratory
QC Report: 347614

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 574751 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 10/29/2010				
LCS1	Chloride		25	25.0	mg/L	100	(90-110)		
LCS2	Chloride		25	25.0	mg/L	100	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.462	mg/L	92	(50-150)		
MS_201010280087	Chloride	1.4	13	14.7	mg/L	107	(80-120)		
MS_201010290049	Chloride		13	70.0	mg/L	92	(80-120)		
MSD_201010280087	Chloride	1.4	13	14.7	mg/L	106	(80-120)	20	0.94
MSD_201010290049	Chloride		13	70.0	mg/L	92	(80-120)	20	0.11
LCS1	Sulfate		50	49.6	mg/L	99	(90-110)		
LCS2	Sulfate		50	49.7	mg/L	99	(90-110)	20	0.20
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.994	mg/L	99	(50-150)		
MRL_LW	Sulfate		0.25	0.393	mg/L	<u>157</u>	(50-150)		
MS_201010280087	Sulfate		25	28.5	mg/L	107	(80-120)		
MS_201010290049	Sulfate		25	29.9	mg/L	107	(80-120)		
MSD_201010280087	Sulfate		25	28.4	mg/L	107	(80-120)	20	0.0
MSD_201010290049	Sulfate		25	30.0	mg/L	108	(80-120)	20	0.93
QC Ref# 574874 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 10/29/2010				
LCS1	Chloride		25	25.2	mg/L	101	(90-110)		
LCS2	Chloride		25	25.2	mg/L	101	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.469	mg/L	94	(50-150)		
MS_201011010063	Chloride	35	13	62.7	mg/L	113	(80-120)		
MSD_201011010063	Chloride	35	13	63.2	mg/L	115	(80-120)	20	1.8
LCS1	Sulfate		50	50.0	mg/L	100	(90-110)		
LCS2	Sulfate		50	50.1	mg/L	100	(90-110)	20	0.20
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	1.01	mg/L	101	(50-150)		
MRL_LW	Sulfate		0.25	0.296	mg/L	118	(50-150)		
MS_201011010063	Sulfate	56	25	110	mg/L	108	(80-120)		
MSD_201011010063	Sulfate	56	25	111	mg/L	110	(80-120)	20	1.8
QC Ref# 574882 - Fluoride by SM 4500F-C					Analysis Date: 11/01/2010				
LCS1	Fluoride		1.0	1.06	mg/L	106	(81-116)		
LCS2	Fluoride		1.0	1.1	mg/L	110	(81-116)	20	3.7
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0510	mg/L	102	(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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

33/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201010280078	Fluoride	0.59	1.0	1.53	mg/L	94	(73-124)		
MS_201010280351	Fluoride	4.6	1.0	9.54	mg/L	100	(73-124)		
MSD_201010280351	Fluoride	4.6	1.0	9.57	mg/L	100	(73-124)	20	0.30

QC Ref# 574945 - ICPMS Metals by EPA 200.8

Analysis Date: 11/01/2010

LCS1	Aluminum Total ICAP/MS		200	203	ug/L	101	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	204	ug/L	102	(85-115)	20	0.49
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	22.6	ug/L	113	(50-150)		
MS_201010270646	Aluminum Total ICAP/MS	26	200	199	ug/L	86	(70-130)		
MS2_201010280351	Aluminum Total ICAP/MS		200	183	ug/L	91	(70-130)		
MSD_201010270646	Aluminum Total ICAP/MS	26	200	198	ug/L	86	(70-130)	20	0.58
MSD2_201010280351	Aluminum Total ICAP/MS		200	184	ug/L	92	(70-130)	20	0.55
LCS1	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	2.2
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201010270646	Antimony Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MS2_201010280351	Antimony Total ICAP/MS		50	43.8	ug/L	88	(70-130)		
MSD_201010270646	Antimony Total ICAP/MS	ND	50	47.0	ug/L	94	(70-130)	20	0.97
MSD2_201010280351	Antimony Total ICAP/MS		50	44.6	ug/L	89	(70-130)	20	1.7
LCS1	Arsenic Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.1	ug/L	100	(85-115)	20	2.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.979	ug/L	98	(50-150)		
MS_201010270646	Arsenic Total ICAP/MS	ND	20	19.3	ug/L	95	(70-130)		
MS2_201010280351	Arsenic Total ICAP/MS		20	27.6	ug/L	91	(70-130)		
MSD_201010270646	Arsenic Total ICAP/MS	ND	20	19.3	ug/L	95	(70-130)	20	0.42
MSD2_201010280351	Arsenic Total ICAP/MS		20	27.6	ug/L	91	(70-130)	20	0.33
LCS1	Barium Total ICAP/MS		100	97.5	ug/L	98	(85-115)		
LCS2	Barium Total ICAP/MS		100	99.7	ug/L	100	(85-115)	20	2.2
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.34	ug/L	117	(50-150)		
MS_201010270646	Barium Total ICAP/MS	47	100	140	ug/L	93	(70-130)		
MS2_201010280351	Barium Total ICAP/MS	48	100	138	ug/L	90	(70-130)		
MSD_201010270646	Barium Total ICAP/MS	47	100	140	ug/L	94	(70-130)	20	0.75
MSD2_201010280351	Barium Total ICAP/MS	48	100	138	ug/L	90	(70-130)	20	0.45
LCS1	Beryllium Total ICAP/MS		5.0	4.73	ug/L	95	(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 or CCC. 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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Beryllium Total ICAP/MS		5.0	4.86	ug/L	97	(85-115)	20	2.7
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.967	ug/L	97	(50-150)		
MS_201010270646	Beryllium Total ICAP/MS	ND	5.0	4.79	ug/L	96	(70-130)		
MSD_201010270646	Beryllium Total ICAP/MS	ND	5.0	4.8	ug/L	96	(70-130)	20	0.31
LCS1	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.488	ug/L	98	(50-150)		
MS_201010270646	Cadmium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MS2_201010280351	Cadmium Total ICAP/MS	ND	20	16.7	ug/L	83	(70-130)		
MSD_201010270646	Cadmium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	0.22
MSD2_201010280351	Cadmium Total ICAP/MS	ND	20	16.7	ug/L	84	(70-130)	20	0.36
LCS1	Chromium Total ICAP/MS		100	95.7	ug/L	96	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.7	ug/L	98	(85-115)	20	2.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.985	ug/L	99	(50-150)		
MS_201010270646	Chromium Total ICAP/MS	3.0	100	90.5	ug/L	88	(70-130)		
MS2_201010280351	Chromium Total ICAP/MS		100	94.2	ug/L	86	(70-130)		
MSD_201010270646	Chromium Total ICAP/MS	3.0	100	90.7	ug/L	88	(70-130)	20	0.23
MSD2_201010280351	Chromium Total ICAP/MS		100	94.3	ug/L	86	(70-130)	20	0.12
LCS1	Copper Total ICAP/MS		100	99.3	ug/L	99	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1.7
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.01	ug/L	100	(50-150)		
MS_201010270646	Copper Total ICAP/MS	ND	100	87.6	ug/L	87	(70-130)		
MS2_201010280351	Copper Total ICAP/MS	ND	100	82.8	ug/L	82	(70-130)		
MSD_201010270646	Copper Total ICAP/MS	ND	100	88.1	ug/L	88	(70-130)	20	0.57
MSD2_201010280351	Copper Total ICAP/MS	ND	100	83.9	ug/L	83	(70-130)	20	1.3
LCS1	Lead Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	2.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.532	ug/L	106	(50-150)		
MS_201010270646	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MS2_201010280351	Lead Total ICAP/MS	ND	20	18.0	ug/L	88	(70-130)		
MSD_201010270646	Lead Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	0.98
MSD2_201010280351	Lead Total ICAP/MS	ND	20	17.9	ug/L	87	(70-130)	20	0.11
LCS1	Manganese Total ICAP/MS		50	50.1	ug/L	100	(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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

35/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Manganese Total ICAP/MS		50	51.2	ug/L	102	(85-115)	20	2.2
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.05	ug/L	103	(50-150)		
MS_201010270646	Manganese Total ICAP/MS	ND	50	46.0	ug/L	91	(70-130)		
MS2_201010280351	Manganese Total ICAP/MS		50	45.5	ug/L	89	(70-130)		
MSD_201010270646	Manganese Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)	20	0.44
MSD2_201010280351	Manganese Total ICAP/MS		50	46.1	ug/L	91	(70-130)	20	1.3
LCS1	Molybdenum Total ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.5
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.97	ug/L	99	(50-150)		
MS_201010270646	Molybdenum Total ICAP/MS	ND	100	89.7	ug/L	89	(70-130)		
MS2_201010280351	Molybdenum Total ICAP/MS		100	122	ug/L	89	(70-130)		
MSD_201010270646	Molybdenum Total ICAP/MS	ND	100	90.4	ug/L	90	(70-130)	20	0.90
MSD2_201010280351	Molybdenum Total ICAP/MS		100	122	ug/L	90	(70-130)	20	1.0
LCS1	Nickel Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.2	ug/L	98	(85-115)	20	1.6
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.9	ug/L	98	(50-150)		
MS_201010270646	Nickel Total ICAP/MS	ND	50	43.3	ug/L	86	(70-130)		
MS2_201010280351	Nickel Total ICAP/MS	56	50	95.5	ug/L	80	(70-130)		
MSD_201010270646	Nickel Total ICAP/MS	ND	50	43.6	ug/L	87	(70-130)	20	0.58
MSD2_201010280351	Nickel Total ICAP/MS	56	50	96.2	ug/L	81	(70-130)	20	1.5
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.3	ug/L	101	(85-115)	20	2.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.88	ug/L	98	(50-150)		
MS_201010270646	Selenium Total ICAP/MS	ND	20	19.6	ug/L	97	(70-130)		
MS2_201010280351	Selenium Total ICAP/MS	ND	20	19.6	ug/L	89	(70-130)		
MSD_201010270646	Selenium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)	20	1.8
MSD2_201010280351	Selenium Total ICAP/MS	ND	20	20.0	ug/L	91	(70-130)	20	2.1
LCS1	Silver Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	0.20
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.580	ug/L	116	(50-150)		
MS_201010270646	Silver Total ICAP/MS	ND	50	47.8	ug/L	96	(70-130)		
MS2_201010280351	Silver Total ICAP/MS	ND	50	40.7	ug/L	81	(70-130)		
MSD_201010270646	Silver Total ICAP/MS	ND	50	43.5	ug/L	87	(70-130)	20	9.4

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

36/53

(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%
MSD2_201010280351	Silver Total ICAP/MS	ND	50	40.8	ug/L	81	(70-130)	20	0.25
LCS1	Thallium Total ICAP/MS		20	20.5	ug/L	103	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.9	ug/L	104	(85-115)	20	1.9
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201010270646	Thallium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)		
MS2_201010280351	Thallium Total ICAP/MS		20	17.8	ug/L	89	(70-130)		
MSD_201010270646	Thallium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)	20	1.1
MSD2_201010280351	Thallium Total ICAP/MS		20	17.9	ug/L	89	(70-130)	20	0.45
LCS1	Uranium ICAP/MS		20	22.4	ug/L	112	(85-115)		
LCS2	Uranium ICAP/MS		20	21.9	ug/L	109	(85-115)	20	2.3
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.15	ug/L	115	(50-150)		
MS_201010270646	Uranium ICAP/MS	ND	20	21.7	ug/L	108	(70-130)		
MS2_201010280351	Uranium ICAP/MS		20	37.0	ug/L	95	(70-130)		
MSD_201010270646	Uranium ICAP/MS	ND	20	21.1	ug/L	105	(70-130)	20	2.8
MSD2_201010280351	Uranium ICAP/MS		20	36.1	ug/L	90	(70-130)	20	5.3
LCS1	Vanadium Total ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.6
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201010270646	Vanadium Total ICAP/MS	5.2	100	97.0	ug/L	92	(70-130)		
MS2_201010280351	Vanadium Total ICAP/MS		100	97.9	ug/L	93	(70-130)		
MSD_201010270646	Vanadium Total ICAP/MS	5.2	100	97.7	ug/L	93	(70-130)	20	0.76
MSD2_201010280351	Vanadium Total ICAP/MS		100	98.2	ug/L	94	(70-130)	20	0.32
LCS1	Zinc Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.3
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201010270646	Zinc Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)		
MS2_201010280351	Zinc Total ICAP/MS	74	100	159	ug/L	85	(70-130)		
MSD_201010270646	Zinc Total ICAP/MS	ND	100	94.0	ug/L	93	(70-130)	20	0.43
MSD2_201010280351	Zinc Total ICAP/MS	74	100	160	ug/L	86	(70-130)	20	1.9

QC Ref# 574983 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 11/01/2010

LCS1	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.9	mg/L	100	(90-110)	20	0.40
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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

37/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.52	mg/L	76	(50-150)		
MS_201010280351	Alkalinity in CaCO3 units	97	100	195	mg/L	98	(80-120)		
MS2_201010290186	Alkalinity in CaCO3 units	68	100	165	mg/L	97	(80-120)		
MSD_201010280351	Alkalinity in CaCO3 units	97	100	196	mg/L	99	(80-120)	20	0.81
MSD2_201010290186	Alkalinity in CaCO3 units	68	100	165	mg/L	97	(80-120)	20	0.62

QC Ref# 575024 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 11/02/2010

LCS1	Chloride		25	25.8	mg/L	103	(90-110)		
LCS2	Chloride		25	25.9	mg/L	103	(90-110)	20	0.39
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.454	mg/L	91	(50-150)		
MS_201010290148	Chloride	190	13	252	mg/L	100	(80-120)		
MSD_201010290148	Chloride	190	13	252	mg/L	100	(80-120)	20	0.20
LCS1	Sulfate		50	51.2	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.3	mg/L	103	(90-110)	20	0.20
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	1.01	mg/L	101	(50-150)		
MRLW	Sulfate		0.25	0.289	mg/L	115	(50-150)		
MS_201010290148	Sulfate	46.3794	25	183	mg/L	109	(80-120)		
MSD_201010290148	Sulfate	46.3794	25	182	mg/L	109	(80-120)	20	0.0

QC Ref# 575130 - ICPMS Metals by EPA 200.8

Analysis Date: 11/02/2010

LCS1	Aluminum Total ICAP/MS		200	214	ug/L	107	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	207	ug/L	103	(85-115)	20	3.3
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	21.6	ug/L	108	(50-150)		
MS_201010260170	Aluminum Total ICAP/MS		200	188	ug/L	94	(70-130)		
MS2_201010270647	Aluminum Total ICAP/MS	ND	200	203	ug/L	98	(70-130)		
MSD_201010260170	Aluminum Total ICAP/MS		200	188	ug/L	94	(70-130)	20	0.0
MSD2_201010270647	Aluminum Total ICAP/MS	ND	200	201	ug/L	97	(70-130)	20	1.0
LCS1	Antimony Total ICAP/MS		50	52.9	ug/L	106	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.7	ug/L	103	(85-115)	20	2.3
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.13	ug/L	113	(50-150)		
MS_201010260170	Antimony Total ICAP/MS		50	46.7	ug/L	93	(70-130)		
MS2_201010270647	Antimony Total ICAP/MS	ND	50	50.9	ug/L	102	(70-130)		
MSD_201010260170	Antimony Total ICAP/MS		50	47.0	ug/L	94	(70-130)	20	0.64
MSD2_201010270647	Antimony Total ICAP/MS	ND	50	50.5	ug/L	101	(70-130)	20	0.99

Spike recovery is already corrected for native results.

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

(S) Indicates surrogate compound.

38/53

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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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Arsenic Total ICAP/MS		20	20.9	ug/L	105	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.3	ug/L	102	(85-115)	20	2.9
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.00	ug/L	100	(50-150)		
MS_201010260170	Arsenic Total ICAP/MS	8.2	20	27.5	ug/L	96	(70-130)		
MS2_201010270647	Arsenic Total ICAP/MS	ND	20	20.1	ug/L	99	(70-130)		
MSD_201010260170	Arsenic Total ICAP/MS	8.2	20	27.2	ug/L	95	(70-130)	20	1.6
MSD2_201010270647	Arsenic Total ICAP/MS	ND	20	19.9	ug/L	98	(70-130)	20	0.81
LCS1	Barium Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	1.9
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.25	ug/L	112	(50-150)		
MS_201010260170	Barium Total ICAP/MS	44	100	136	ug/L	92	(70-130)		
MS2_201010270647	Barium Total ICAP/MS	71	100	172	ug/L	101	(70-130)		
MSD_201010260170	Barium Total ICAP/MS	44	100	136	ug/L	92	(70-130)	20	0.54
MSD2_201010270647	Barium Total ICAP/MS	71	100	171	ug/L	100	(70-130)	20	1.5
LCS1	Beryllium Total ICAP/MS		5.0	5.18	ug/L	104	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.02	ug/L	100	(85-115)	20	3.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.994	ug/L	99	(50-150)		
MS2_201010270647	Beryllium Total ICAP/MS	ND	5.0	4.94	ug/L	99	(70-130)		
MSD2_201010270647	Beryllium Total ICAP/MS	ND	5.0	4.88	ug/L	98	(70-130)	20	1.0
LCS1	Cadmium Total ICAP/MS		20	20.9	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	2.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.515	ug/L	103	(50-150)		
MS_201010260170	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MS2_201010270647	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MSD_201010260170	Cadmium Total ICAP/MS	ND	20	17.9	ug/L	89	(70-130)	20	0.56
MSD2_201010270647	Cadmium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	1.8
LCS1	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.9
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.994	ug/L	99	(50-150)		
MS_201010260170	Chromium Total ICAP/MS	ND	100	91.6	ug/L	91	(70-130)		
MS2_201010270647	Chromium Total ICAP/MS	2.7	100	98.0	ug/L	95	(70-130)		
MSD_201010260170	Chromium Total ICAP/MS	ND	100	91.5	ug/L	91	(70-130)	20	0.22
MSD2_201010270647	Chromium Total ICAP/MS	2.7	100	96.7	ug/L	94	(70-130)	20	1.4

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

39/53

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

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



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QC Report: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Copper Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Copper Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201010260170	Copper Total ICAP/MS		100	90.4	ug/L	87	(70-130)		
MS2_201010270647	Copper Total ICAP/MS	14	100	106	ug/L	92	(70-130)		
MSD_201010260170	Copper Total ICAP/MS		100	89.8	ug/L	86	(70-130)	20	0.69
MSD2_201010270647	Copper Total ICAP/MS	14	100	105	ug/L	91	(70-130)	20	1.6
LCS1	Lead Total ICAP/MS		20	21.5	ug/L	108	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.9	ug/L	105	(85-115)	20	2.8
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.540	ug/L	108	(50-150)		
MS_201010260170	Lead Total ICAP/MS	1.9	20	20.1	ug/L	91	(70-130)		
MS2_201010270647	Lead Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)		
MSD_201010260170	Lead Total ICAP/MS	1.9	20	20.1	ug/L	91	(70-130)	20	0.33
MSD2_201010270647	Lead Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)	20	1.3
LCS1	Manganese Total ICAP/MS		50	54.4	ug/L	109	(85-115)		
LCS2	Manganese Total ICAP/MS		50	52.8	ug/L	106	(85-115)	20	3.0
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.05	ug/L	102	(50-150)		
MS_201010260170	Manganese Total ICAP/MS		50	62.1	ug/L	93	(70-130)		
MS2_201010270647	Manganese Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)		
MSD_201010260170	Manganese Total ICAP/MS		50	62.2	ug/L	93	(70-130)	20	0.32
MSD2_201010270647	Manganese Total ICAP/MS	ND	50	49.3	ug/L	99	(70-130)	20	0.31
LCS1	Molybdenum Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201010260170	Molybdenum Total ICAP/MS		100	88.0	ug/L	87	(70-130)		
MS2_201010270647	Molybdenum Total ICAP/MS	ND	100	95.3	ug/L	94	(70-130)		
MSD_201010260170	Molybdenum Total ICAP/MS		100	88.7	ug/L	87	(70-130)	20	0.80
MSD2_201010270647	Molybdenum Total ICAP/MS	ND	100	95.4	ug/L	94	(70-130)	20	0.21
LCS1	Nickel Total ICAP/MS		50	51.6	ug/L	103	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	3.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.88	ug/L	98	(50-150)		
MS_201010260170	Nickel Total ICAP/MS		50	44.4	ug/L	85	(70-130)		
MS2_201010270647	Nickel Total ICAP/MS	ND	50	45.0	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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

40/53

(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%
MSD_201010260170	Nickel Total ICAP/MS		50	44.1	ug/L	84	(70-130)	20	0.83
MSD2_201010270647	Nickel Total ICAP/MS	ND	50	44.8	ug/L	89	(70-130)	20	0.45
LCS1	Selenium Total ICAP/MS		20	21.2	ug/L	106	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	104	(85-115)	20	2.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.98	ug/L	100	(50-150)		
MS_201010260170	Selenium Total ICAP/MS	ND	20	19.8	ug/L	98	(70-130)		
MS2_201010270647	Selenium Total ICAP/MS	ND	20	21.0	ug/L	104	(70-130)		
MSD_201010260170	Selenium Total ICAP/MS	ND	20	19.4	ug/L	96	(70-130)	20	1.6
MSD2_201010270647	Selenium Total ICAP/MS	ND	20	21.1	ug/L	104	(70-130)	20	0.0
LCS1	Silver Total ICAP/MS		50	53.0	ug/L	106	(85-115)		
LCS2	Silver Total ICAP/MS		50	51.8	ug/L	104	(85-115)	20	2.3
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.541	ug/L	108	(50-150)		
MS2_201010270647	Silver Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD2_201010270647	Silver Total ICAP/MS	ND	50	46.1	ug/L	92	(70-130)	20	0.97
LCS1	Thallium Total ICAP/MS		20	22.1	ug/L	110	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.4	ug/L	107	(85-115)	20	2.8
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201010260170	Thallium Total ICAP/MS		20	18.5	ug/L	92	(70-130)		
MS2_201010270647	Thallium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201010260170	Thallium Total ICAP/MS		20	18.5	ug/L	92	(70-130)	20	0.22
MSD2_201010270647	Thallium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	1.0
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.22	ug/L	122	(50-150)		
MS_201010260170	Uranium ICAP/MS		20	20.9	ug/L	102	(70-130)		
MS2_201010270647	Uranium ICAP/MS		20	21.9	ug/L	105	(70-130)		
MSD_201010260170	Uranium ICAP/MS		20	20.9	ug/L	103	(70-130)	20	0.98
MSD2_201010270647	Uranium ICAP/MS		20	22.0	ug/L	105	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)	20	2.8
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.1	ug/L	100	(50-150)		
MS_201010260170	Zinc Total ICAP/MS		100	127	ug/L	90	(70-130)		
MS2_201010270647	Zinc Total ICAP/MS	ND	100	97.7	ug/L	96	(70-130)		
MSD_201010260170	Zinc Total ICAP/MS		100	127	ug/L	91	(70-130)	20	0.55
MSD2_201010270647	Zinc Total ICAP/MS	ND	100	97.1	ug/L	96	(70-130)	20	0.62

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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

41/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 575134 - Total Dissolved Solids (TDS) by E160.1/SM2540C					Analysis Date: 11/02/2010				
DUP_201010280354	Total Dissolved Solid (TDS)	1700		1660	mg/L		(0-10)		
DUP_201010280441	Total Dissolved Solid (TDS)	710		746	mg/L		(0-10)	10	4.7
LCS1	Total Dissolved Solid (TDS)		175	162	mg/L	93	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	690	mg/L	99	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	5.00	mg/L	50	(50-150)		
QC Ref# 575297 - Nitrate as N by RFA Low Level by EPA 353.2					Analysis Date: 11/03/2010				
LCS1	Nitrate as N by RFA Low Level		1.0	1.05	mg/L	105	(90-110)		
LCS2	Nitrate as N by RFA Low Level		1.0	1.1	mg/L	110	(90-110)	20	4.7
MBLK	Nitrate as N by RFA Low Level			<0.03	mg/L				
MRL_CHK	Nitrate as N by RFA Low Level		0.03	0.0271	mg/L	90	(50-150)		
MS_201010280351	Nitrate as N by RFA Low Level	2.5	1.0	3.42	mg/L	94	(90-110)		
MSD_201010280351	Nitrate as N by RFA Low Level	2.5	1.0	3.46	mg/L	98	(90-110)	10	3.6
QC Ref# 575467 - EPA Method 504.1 by EPA 8011					Analysis Date: 11/04/2010				
CCCM	1,2-Dibromo-3-chloropropane		0.25	0.273	ug/L	109	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.00790	ug/L	79	(60-140)		
MS_201010280351	1,2-Dibromo-3-chloropropane	ND	0.25	0.239	ug/L	96	(65-135)		
MSD_201010280351	1,2-Dibromo-3-chloropropane	ND	0.25	0.252	ug/L	101	(65-135)	20	5.5
CCCM	1,2-Dibromoethane		0.25	0.272	ug/L	109	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00730	ug/L	73	(60-140)		
MS_201010280351	1,2-Dibromoethane	ND	0.25	0.248	ug/L	99	(65-135)		
MSD_201010280351	1,2-Dibromoethane	ND	0.25	0.262	ug/L	105	(65-135)	20	5.9
CCCM	1,2-Dibromopropane (S)			104	%	104	(60-140)		
MBLK	1,2-Dibromopropane (S)			95.8	%	96	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			92.8	%	93	(60-140)		
MS_201010280351	1,2-Dibromopropane (S)			92.0	%	92	(60-140)		
MSD_201010280351	1,2-Dibromopropane (S)			91.9	%	92	(60-140)		
QC Ref# 575509 - Volatile Organics by GCMS by EPA 8260					Analysis Date: 11/03/2010				
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.47	ug/L	109	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)	20	6.2
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MS_201010280351	1,1,1,2-Tetrachloroethane	ND	10	9.19	ug/L	92	(70-130)		

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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

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



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QC Report: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201010280351	1,1,1,2-Tetrachloroethane	ND	10	10.3	ug/L	103	(70-130)	20	11
LCS1	1,1,1-Trichloroethane		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.61	ug/L	92	(70-130)	20	6.9
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MS_201010280351	1,1,1-Trichloroethane	ND	10	9.69	ug/L	97	(70-130)		
MSD_201010280351	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)	20	16
LCS1	1,1,2,2-Tetrachloroethane		5.0	6.1	ug/L	122	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.96	ug/L	119	(70-130)	20	2.3
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MS_201010280351	1,1,2,2-Tetrachloroethane	ND	10	8.9	ug/L	89	(70-130)		
MSD_201010280351	1,1,2,2-Tetrachloroethane	ND	10	9.75	ug/L	98	(70-130)	20	9.1
LCS1	1,1,2-Trichloroethane		5.0	5.16	ug/L	103	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.24	ug/L	105	(70-130)	20	1.5
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MS_201010280351	1,1,2-Trichloroethane	ND	10	8.97	ug/L	90	(70-130)		
MSD_201010280351	1,1,2-Trichloroethane	ND	10	9.87	ug/L	99	(70-130)	20	9.6
LCS1	1,1-Dichloroethane		5.0	5.00	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.74	ug/L	95	(70-130)	20	5.3
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MS_201010280351	1,1-Dichloroethane	ND	10	9.25	ug/L	93	(70-130)		
MSD_201010280351	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	16
LCS1	1,1-Dichloroethylene		5.0	5.31	ug/L	106	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.08	ug/L	102	(70-130)	20	4.4
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MS_201010280351	1,1-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201010280351	1,1-Dichloroethylene	ND	10	12.8	ug/L	128	(70-130)	20	<u>21</u>
LCS1	1,2,3-Trichloropropane		5.0	5.99	ug/L	120	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.88	ug/L	118	(70-130)	20	1.9
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MS_201010280351	1,2,3-Trichloropropane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201010280351	1,2,3-Trichloropropane	ND	10	11.9	ug/L	119	(70-130)	20	4.3
LCS1	1,2-Dichloroethane		5.0	5.11	ug/L	102	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.97	ug/L	99	(70-130)	20	2.8
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MS_201010280351	1,2-Dichloroethane	ND	10	9.1	ug/L	91	(70-130)		
MSD_201010280351	1,2-Dichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	13
LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.2	%	97	(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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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

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



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Laboratory
QC Report: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
MS_201010280351	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201010280351	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.00	ug/L	100	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.84	ug/L	97	(70-130)	20	3.3
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MS_201010280351	1,2-Dichloropropane	ND	10	9.15	ug/L	92	(70-130)		
MSD_201010280351	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)	20	14
LCS1	2-Butanone (MEK)		50	53.2	ug/L	106	(70-130)		
LCS2	2-Butanone (MEK)		50	52.8	ug/L	106	(70-130)	20	0.38
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MS_201010280351	2-Butanone (MEK)	ND	100	97.8	ug/L	98	(70-130)		
MSD_201010280351	2-Butanone (MEK)	ND	100	101	ug/L	101	(70-130)	20	3.2
LCS1	2-Hexanone		50	65.9	ug/L	<u>132</u>	(70-130)		
LCS2	2-Hexanone		50	64.9	ug/L	130	(70-130)	20	1.5
MBLK	2-Hexanone			<5.0	ug/L				
MS_201010280351	2-Hexanone	ND	100	104	ug/L	104	(70-130)		
MSD_201010280351	2-Hexanone	ND	100	107	ug/L	107	(70-130)	20	2.8
LCS1	4-Bromofluorobenzene (S)			99.0	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
MS_201010280351	4-Bromofluorobenzene (S)			98.8	%	99	(70-130)		
MSD_201010280351	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	63.8	ug/L	128	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	62.4	ug/L	125	(70-130)	20	2.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MS_201010280351	4-Methyl-2-Pentanone (MIBK)	ND	100	102	ug/L	102	(70-130)		
MSD_201010280351	4-Methyl-2-Pentanone (MIBK)	ND	100	107	ug/L	107	(70-130)	20	4.8
LCS1	Acetone		50	49.4	ug/L	99	(70-130)		
LCS2	Acetone		50	48.6	ug/L	97	(70-130)	20	1.6
MBLK	Acetone			<5	ug/L				
MS_201010280351	Acetone	ND	100	99.1	ug/L	99	(70-130)		
MSD_201010280351	Acetone	ND	100	99.1	ug/L	99	(70-130)	20	0.0
LCS1	Acrylonitrile (Screen)		5.0	4.75	ug/L	95	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	4.45	ug/L	89	(70-130)	20	6.5
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MS_201010280351	Acrylonitrile (Screen)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201010280351	Acrylonitrile (Screen)	ND	10	10.7	ug/L	107	(70-130)	20	3.7

Spike recovery is already corrected for native results.

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

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(S) Indicates surrogate compound.

44/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Benzene		5.0	5.17	ug/L	103	(70-130)		
LCS2	Benzene		5.0	4.99	ug/L	100	(70-130)	20	3.5
MBLK	Benzene			<0.25	ug/L				
MS_201010280351	Benzene	ND	10	9.65	ug/L	97	(70-130)		
MSD_201010280351	Benzene	ND	10	11.3	ug/L	113	(70-130)	20	16
LCS1	Bromochloromethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	Bromochloromethane		5.0	4.88	ug/L	98	(70-130)	20	2.8
MBLK	Bromochloromethane			<0.25	ug/L				
MS_201010280351	Bromochloromethane	ND	10	9.19	ug/L	92	(70-130)		
MSD_201010280351	Bromochloromethane	ND	10	10.1	ug/L	101	(70-130)	20	9.4
LCS1	Bromodichloromethane		5.0	5.19	ug/L	104	(70-130)		
LCS2	Bromodichloromethane		5.0	4.99	ug/L	100	(70-130)	20	3.9
MBLK	Bromodichloromethane			<0.25	ug/L				
MS_201010280351	Bromodichloromethane	ND	10	9.3	ug/L	93	(70-130)		
MSD_201010280351	Bromodichloromethane	ND	10	10.6	ug/L	106	(70-130)	20	13
LCS1	Bromoform		5.0	6.28	ug/L	126	(70-130)		
LCS2	Bromoform		5.0	6.06	ug/L	121	(70-130)	20	3.6
MBLK	Bromoform			<0.25	ug/L				
MS_201010280351	Bromoform	ND	10	9.62	ug/L	96	(70-130)		
MSD_201010280351	Bromoform	ND	10	10.6	ug/L	106	(70-130)	20	9.7
LCS1	Bromomethane (Methyl Bromide)		5.0	5.99	ug/L	120	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.75	ug/L	115	(70-130)	20	4.1
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MS_201010280351	Bromomethane (Methyl Bromide)	ND	10	8.4	ug/L	84	(70-130)		
MSD_201010280351	Bromomethane (Methyl Bromide)	ND	10	9.4	ug/L	94	(70-130)	20	11
LCS1	Carbon disulfide		5.0	4.93	ug/L	99	(70-130)		
LCS2	Carbon disulfide		5.0	4.63	ug/L	93	(70-130)	20	6.3
MBLK	Carbon disulfide			<0.25	ug/L				
MS_201010280351	Carbon disulfide	ND	10	9.64	ug/L	96	(70-130)		
MSD_201010280351	Carbon disulfide	ND	10	11.4	ug/L	114	(70-130)	20	17
LCS1	Carbon Tetrachloride		5.0	5.04	ug/L	101	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.86	ug/L	97	(70-130)	20	3.6
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MS_201010280351	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)		
MSD_201010280351	Carbon Tetrachloride	ND	10	12.0	ug/L	120	(70-130)	20	14
LCS1	Chlorobenzene		5.0	5.19	ug/L	104	(70-130)		
LCS2	Chlorobenzene		5.0	5.05	ug/L	101	(70-130)	20	2.7
MBLK	Chlorobenzene			<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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

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

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



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Laboratory
QC Report: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201010280351	Chlorobenzene	ND	10	9.33	ug/L	93	(70-130)		
MSD_201010280351	Chlorobenzene	ND	10	11.0	ug/L	110	(70-130)	20	16
LCS1	Chlorodibromomethane		5.0	5.58	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.34	ug/L	107	(70-130)	20	4.4
MBLK	Chlorodibromomethane			<0.25	ug/L				
MS_201010280351	Chlorodibromomethane	ND	10	9.1	ug/L	91	(70-130)		
MSD_201010280351	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)	20	11
LCS1	Chloroethane		5.0	6.1	ug/L	122	(70-130)		
LCS2	Chloroethane		5.0	5.58	ug/L	112	(70-130)	20	8.9
MBLK	Chloroethane			<0.25	ug/L				
MS_201010280351	Chloroethane	ND	10	8.94	ug/L	89	(70-130)		
MSD_201010280351	Chloroethane	ND	10	10.5	ug/L	105	(70-130)	20	16
LCS1	Chloroform (Trichloromethane)		5.0	4.94	ug/L	99	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.85	ug/L	97	(70-130)	20	1.8
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MS_201010280351	Chloroform (Trichloromethane)	ND	10	9.04	ug/L	90	(70-130)		
MSD_201010280351	Chloroform (Trichloromethane)	ND	10	10.3	ug/L	103	(70-130)	20	13
LCS1	Chloromethane(Methyl Chloride)		5.0	5.04	ug/L	101	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.00	ug/L	100	(70-130)	20	0.80
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MS_201010280351	Chloromethane(Methyl Chloride)	ND	10	9.12	ug/L	91	(70-130)		
MSD_201010280351	Chloromethane(Methyl Chloride)	ND	10	9.99	ug/L	100	(70-130)	20	9.1
LCS1	cis-1,2-Dichloroethylene		5.0	5.1	ug/L	102	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.91	ug/L	98	(70-130)	20	3.8
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MS_201010280351	cis-1,2-Dichloroethylene	ND	10	9.29	ug/L	93	(70-130)		
MSD_201010280351	cis-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	14
LCS1	cis-1,3-Dichloropropene		5.0	5.48	ug/L	110	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.28	ug/L	106	(70-130)	20	3.7
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MS_201010280351	cis-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(70-130)		
MSD_201010280351	cis-1,3-Dichloropropene	ND	10	11.7	ug/L	117	(70-130)	20	17
LCS1	Dibromomethane		5.0	5.17	ug/L	103	(70-130)		
LCS2	Dibromomethane		5.0	5.23	ug/L	105	(70-130)	20	1.1
MBLK	Dibromomethane			<0.25	ug/L				
MS_201010280351	Dibromomethane	ND	10	9.44	ug/L	94	(70-130)		
MSD_201010280351	Dibromomethane	ND	10	10.5	ug/L	105	(70-130)	20	11
LCS1	Dichloromethane		5.0	4.9	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.

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(S) Indicates surrogate compound.

46/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dichloromethane		5.0	4.71	ug/L	94	(70-130)	20	4.0
MBLK	Dichloromethane			<0.25	ug/L				
MS_201010280351	Dichloromethane	ND	10	8.71	ug/L	87	(70-130)		
MSD_201010280351	Dichloromethane	ND	10	9.87	ug/L	99	(70-130)	20	13
LCS1	Ethyl benzene		5.0	5.47	ug/L	109	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	3.9
MBLK	Ethyl benzene			<0.25	ug/L				
MS_201010280351	Ethyl benzene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201010280351	Ethyl benzene	ND	10	12.1	ug/L	121	(70-130)	20	16
LCS1	Iodomethane		5.0	5.41	ug/L	108	(70-130)		
LCS2	Iodomethane		5.0	5.09	ug/L	102	(70-130)	20	6.1
MBLK	Iodomethane			<0.1	ug/L				
MS_201010280351	Iodomethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201010280351	Iodomethane	ND	10	9.99	ug/L	100	(70-130)	20	2.1
LCS1	m,p-Xylenes		10	11.1	ug/L	111	(70-130)		
LCS2	m,p-Xylenes		10	10.8	ug/L	108	(70-130)	20	2.7
MBLK	m,p-Xylenes			<0.25	ug/L				
MS_201010280351	m,p-Xylenes	ND	20	20.7	ug/L	104	(70-130)		
MSD_201010280351	m,p-Xylenes	ND	20	23.6	ug/L	118	(70-130)	20	13
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.04	ug/L	101	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.95	ug/L	99	(70-130)	20	1.8
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MS_201010280351	Methyl Tert-butyl ether (MTBE)	ND	10	9.39	ug/L	94	(70-130)		
MSD_201010280351	Methyl Tert-butyl ether (MTBE)	ND	10	10.5	ug/L	105	(70-130)	20	11
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.83	ug/L	117	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.72	ug/L	114	(70-130)	20	1.9
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MS_201010280351	o-Dichlorobenzene (1,2-DCB)	ND	10	8.95	ug/L	90	(70-130)		
MSD_201010280351	o-Dichlorobenzene (1,2-DCB)	ND	10	10.3	ug/L	103	(70-130)	20	14
LCS1	o-Xylene		5.0	5.51	ug/L	110	(70-130)		
LCS2	o-Xylene		5.0	5.28	ug/L	106	(70-130)	20	4.3
MBLK	o-Xylene			<0.25	ug/L				
MS_201010280351	o-Xylene	ND	10	10.0	ug/L	100	(70-130)		
MSD_201010280351	o-Xylene	ND	10	11.7	ug/L	117	(70-130)	20	16
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.33	ug/L	107	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.3	ug/L	106	(70-130)	20	0.56
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MS_201010280351	p-Dichlorobenzene (1,4-DCB)	ND	10	8.97	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.

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(S) Indicates surrogate compound.

47/53

(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%
MSD_201010280351	p-Dichlorobenzene (1,4-DCB)	ND	10	10.3	ug/L	103	(70-130)	20	14
LCS1	Styrene		5.0	5.66	ug/L	113	(70-130)		
LCS2	Styrene		5.0	5.49	ug/L	110	(70-130)	20	3.0
MBLK	Styrene			<0.25	ug/L				
MS_201010280351	Styrene	ND	10	8.42	ug/L	84	(70-130)		
MSD_201010280351	Styrene	ND	10	10.1	ug/L	101	(70-130)	20	18
LCS1	Tetrachloroethylene (PCE)		5.0	5.14	ug/L	103	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.82	ug/L	96	(70-130)	20	6.4
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MS_201010280351	Tetrachloroethylene (PCE)	ND	10	10.3	ug/L	104	(70-130)		
MSD_201010280351	Tetrachloroethylene (PCE)	ND	10	12.1	ug/L	121	(70-130)	20	15
LCS1	Toluene		5.0	5.07	ug/L	101	(70-130)		
LCS2	Toluene		5.0	4.78	ug/L	96	(70-130)	20	5.9
MBLK	Toluene			<0.25	ug/L				
MS_201010280351	Toluene	ND	10	9.44	ug/L	94	(70-130)		
MSD_201010280351	Toluene	ND	10	11.1	ug/L	111	(70-130)	20	16
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			98.0	%	98	(70-130)		
MS_201010280351	Toluene-d8 (S)			102	%	102	(70-130)		
MSD_201010280351	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.96	ug/L	99	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.8	ug/L	96	(70-130)	20	3.3
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MS_201010280351	trans-1,2-Dichloroethylene	ND	10	9.5	ug/L	95	(70-130)		
MSD_201010280351	trans-1,2-Dichloroethylene	ND	10	11.5	ug/L	115	(70-130)	20	19
LCS1	trans-1,3-Dichloropropene		5.0	5.74	ug/L	115	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.59	ug/L	112	(70-130)	20	2.6
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MS_201010280351	trans-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201010280351	trans-1,3-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)	20	10
LCS1	trans-1,4-dichloro-2-butene		5.0	7.6	ug/L	152	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	5.98	ug/L	120	(70-130)	20	24
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_201010280351	trans-1,4-dichloro-2-butene	ND	10	16.4	ug/L	164	(70-130)		
MSD_201010280351	trans-1,4-dichloro-2-butene	ND	10	15.3	ug/L	153	(70-130)	20	6.9
LCS1	Trichloroethylene (TCE)		5.0	5.21	ug/L	104	(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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

48/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Trichloroethylene (TCE)		5.0	5.01	ug/L	100	(70-130)	20	3.9
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MS_201010280351	Trichloroethylene (TCE)	ND	10	9.72	ug/L	97	(70-130)		
MSD_201010280351	Trichloroethylene (TCE)	ND	10	11.6	ug/L	116	(70-130)	20	18
LCS1	Trichlorofluoromethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.06	ug/L	101	(70-130)	20	3.5
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MS_201010280351	Trichlorofluoromethane	ND	10	9.2	ug/L	92	(70-130)		
MSD_201010280351	Trichlorofluoromethane	ND	10	10.9	ug/L	109	(70-130)	20	17
LCS1	Vinyl Acetate		25	27.9	ug/L	112	(70-130)		
LCS2	Vinyl Acetate		25	27.4	ug/L	110	(70-130)	20	2.2
MBLK	Vinyl Acetate			<5.0	ug/L				
MS_201010280351	Vinyl Acetate	ND	50	44.1	ug/L	88	(70-130)		
MSD_201010280351	Vinyl Acetate	ND	50	50.6	ug/L	101	(70-130)	20	13
LCS1	Vinyl chloride (VC)		5.0	5.3	ug/L	106	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.89	ug/L	98	(70-130)	20	8.1
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MS_201010280351	Vinyl chloride (VC)	ND	10	9.33	ug/L	93	(70-130)		
MSD_201010280351	Vinyl chloride (VC)	ND	10	11.1	ug/L	111	(70-130)	20	17

QC Ref# 575592 - Mercury by EPA 245.1

Analysis Date: 11/05/2010

LCS1	Mercury		1.5	1.41	ug/L	94	(85-115)		
LCS2	Mercury		1.5	1.33	ug/L	89	(85-115)	20	5.8
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.202	ug/L	101	(50-150)		
MS_201011040190	Mercury	ND	1.5	1.55	ug/L	99	(70-130)		
MS2_201010280351	Mercury	ND	1.5	1.55	ug/L	103	(70-130)		
MSD_201011040190	Mercury	ND	1.5	1.55	ug/L	99	(70-130)	20	0.20
MSD2_201010280351	Mercury	ND	1.5	1.58	ug/L	104	(70-130)	20	0.97

QC Ref# 575847 - ICPMS Metals by EPA 200.8

Analysis Date: 11/03/2010

LCS1	Aluminum Total ICAP/MS		200	200	ug/L	100	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	192	ug/L	96	(85-115)	20	4.1
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201010290027	Aluminum Total ICAP/MS	ND	200	178	ug/L	86	(70-130)		
MS2_201011010043	Aluminum Total ICAP/MS	ND	200	177	ug/L	88	(70-130)		
MSD_201010290027	Aluminum Total ICAP/MS	ND	200	178	ug/L	86	(70-130)	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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

49/53

(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%
MSD2_201011010043	Aluminum Total ICAP/MS	ND	200	175	ug/L	87	(70-130)	20	1.0
LCS1	Antimony Total ICAP/MS		50	46.9	ug/L	94	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.0	ug/L	94	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.995	ug/L	100	(50-150)		
MS_201010290027	Antimony Total ICAP/MS	ND	50	43.1	ug/L	86	(70-130)		
MS2_201011010043	Antimony Total ICAP/MS	ND	50	42.4	ug/L	85	(70-130)		
MSD_201010290027	Antimony Total ICAP/MS	ND	50	43.4	ug/L	87	(70-130)	20	0.70
MSD2_201011010043	Antimony Total ICAP/MS	ND	50	42.4	ug/L	85	(70-130)	20	0.12
LCS1	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	18.7	ug/L	94	(85-115)	20	0.53
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.934	ug/L	93	(50-150)		
MS_201010290027	Arsenic Total ICAP/MS	ND	20	19.3	ug/L	92	(70-130)		
MS2_201011010043	Arsenic Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201010290027	Arsenic Total ICAP/MS	ND	20	19.4	ug/L	93	(70-130)	20	0.33
MSD2_201011010043	Arsenic Total ICAP/MS	ND	20	17.6	ug/L	88	(70-130)	20	1.7
LCS1	Barium Total ICAP/MS		100	95.6	ug/L	96	(85-115)		
LCS2	Barium Total ICAP/MS		100	94.7	ug/L	95	(85-115)	20	0.95
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.12	ug/L	106	(50-150)		
MS_201010290027	Barium Total ICAP/MS	77	100	168	ug/L	91	(70-130)		
MS2_201011010043	Barium Total ICAP/MS	ND	100	87.7	ug/L	88	(70-130)		
MSD_201010290027	Barium Total ICAP/MS	77	100	168	ug/L	91	(70-130)	20	0.33
MSD2_201011010043	Barium Total ICAP/MS	ND	100	87.3	ug/L	87	(70-130)	20	0.34
LCS1	Beryllium Total ICAP/MS		5.0	4.51	ug/L	90	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.49	ug/L	90	(85-115)	20	0.44
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.893	ug/L	89	(50-150)		
MS_201010290027	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)		
MS2_201011010043	Beryllium Total ICAP/MS	ND	5.0	4.2	ug/L	84	(70-130)		
MSD_201010290027	Beryllium Total ICAP/MS	ND	5.0	4.69	ug/L	94	(70-130)	20	1.7
MSD2_201011010043	Beryllium Total ICAP/MS	ND	5.0	4.16	ug/L	83	(70-130)	20	1.2
LCS1	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	18.9	ug/L	95	(85-115)	20	2.6
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.467	ug/L	94	(50-150)		
MS_201010290027	Cadmium Total ICAP/MS	ND	20	17.2	ug/L	86	(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 or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

50/53

(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: 347614

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201011010043	Cadmium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MSD_201010290027	Cadmium Total ICAP/MS	ND	20	17.2	ug/L	86	(70-130)	20	0.12
MSD2_201011010043	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	1.1
LCS1	Chromium Total ICAP/MS		100	96.2	ug/L	96	(85-115)		
LCS2	Chromium Total ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201010290027	Chromium Total ICAP/MS	1.4	100	89.2	ug/L	88	(70-130)		
MS2_201011010043	Chromium Total ICAP/MS	ND	100	87.9	ug/L	88	(70-130)		
MSD_201010290027	Chromium Total ICAP/MS	1.4	100	89.0	ug/L	88	(70-130)	20	0.23
MSD2_201011010043	Chromium Total ICAP/MS	ND	100	87.8	ug/L	88	(70-130)	20	0.11
LCS1	Copper Total ICAP/MS		100	94.9	ug/L	95	(85-115)		
LCS2	Copper Total ICAP/MS		100	94.1	ug/L	94	(85-115)	20	0.85
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.9	ug/L	95	(50-150)		
MS_201010290027	Copper Total ICAP/MS	6.7	100	87.5	ug/L	81	(70-130)		
MS2_201011010043	Copper Total ICAP/MS	ND	100	87.6	ug/L	88	(70-130)		
MSD_201010290027	Copper Total ICAP/MS	6.7	100	87.1	ug/L	80	(70-130)	20	0.62
MSD2_201011010043	Copper Total ICAP/MS	ND	100	87.0	ug/L	87	(70-130)	20	0.69
LCS1	Lead Total ICAP/MS		20	19.3	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	1.6
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	100	(50-150)		
MS_201010290027	Lead Total ICAP/MS	2.7	20	19.7	ug/L	85	(70-130)		
MS2_201011010043	Lead Total ICAP/MS	ND	20	17.6	ug/L	88	(70-130)		
MSD_201010290027	Lead Total ICAP/MS	2.7	20	19.7	ug/L	85	(70-130)	20	0.12
MSD2_201011010043	Lead Total ICAP/MS	ND	20	17.3	ug/L	87	(70-130)	20	1.6
LCS1	Manganese Total ICAP/MS		50	49.5	ug/L	99	(85-115)		
LCS2	Manganese Total ICAP/MS		50	49.2	ug/L	98	(85-115)	20	0.61
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201010290027	Manganese Total ICAP/MS	ND	50	45.0	ug/L	90	(70-130)		
MS2_201011010043	Manganese Total ICAP/MS	ND	50	45.4	ug/L	91	(70-130)		
MSD_201010290027	Manganese Total ICAP/MS	ND	50	44.7	ug/L	89	(70-130)	20	0.78
MSD2_201011010043	Manganese Total ICAP/MS	ND	50	45.0	ug/L	90	(70-130)	20	0.77
LCS1	Nickel Total ICAP/MS		50	47.0	ug/L	94	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.7	ug/L	93	(85-115)	20	0.64
MBLK	Nickel Total ICAP/MS			<5	ug/L				

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

51/53

(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	Nickel Total ICAP/MS		5.0	4.72	ug/L	94	(50-150)		
MS_201010290027	Nickel Total ICAP/MS	ND	50	41.4	ug/L	81	(70-130)		
MS2_201011010043	Nickel Total ICAP/MS	ND	50	43.3	ug/L	87	(70-130)		
MSD_201010290027	Nickel Total ICAP/MS	ND	50	41.4	ug/L	81	(70-130)	20	0.0
MSD2_201011010043	Nickel Total ICAP/MS	ND	50	43.0	ug/L	86	(70-130)	20	0.70
LCS1	Selenium Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.3	ug/L	96	(85-115)	20	1.5
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.57	ug/L	92	(50-150)		
MS_201010290027	Selenium Total ICAP/MS	ND	20	21.1	ug/L	99	(70-130)		
MS2_201011010043	Selenium Total ICAP/MS	ND	20	19.9	ug/L	100	(70-130)		
MSD_201010290027	Selenium Total ICAP/MS	ND	20	21.1	ug/L	98	(70-130)	20	0.30
MSD2_201011010043	Selenium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	1.5
LCS1	Silver Total ICAP/MS		50	47.4	ug/L	95	(85-115)		
LCS2	Silver Total ICAP/MS		50	47.6	ug/L	95	(85-115)	20	0.42
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.517	ug/L	103	(50-150)		
MS_201010290027	Silver Total ICAP/MS	ND	50	38.3	ug/L	77	(70-130)		
MS2_201011010043	Silver Total ICAP/MS	ND	50	44.9	ug/L	90	(70-130)		
MSD_201010290027	Silver Total ICAP/MS	ND	50	37.9	ug/L	76	(70-130)	20	1.2
MSD2_201011010043	Silver Total ICAP/MS	ND	50	44.4	ug/L	89	(70-130)	20	1.2
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	1.6
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.960	ug/L	96	(50-150)		
MS_201010290027	Thallium Total ICAP/MS	ND	20	17.4	ug/L	87	(70-130)		
MS2_201011010043	Thallium Total ICAP/MS	ND	20	17.9	ug/L	89	(70-130)		
MSD_201010290027	Thallium Total ICAP/MS	ND	20	17.4	ug/L	87	(70-130)	20	0.46
MSD2_201011010043	Thallium Total ICAP/MS	ND	20	17.6	ug/L	88	(70-130)	20	1.2
LCS1	Uranium ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Uranium ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.99
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201010290027	Uranium ICAP/MS	26	20	43.1	ug/L	85	(70-130)		
MSD_201010290027	Uranium ICAP/MS	26	20	41.5	ug/L	77	(70-130)	20	10
LCS1	Vanadium Total ICAP/MS		100	97.4	ug/L	97	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	96.6	ug/L	97	(85-115)	20	0.83
MBLK	Vanadium Total ICAP/MS			<3	ug/L				

Spike recovery is already corrected for native results.

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(S) Indicates surrogate compound.

52/53

(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	Vanadium Total ICAP/MS		3.0	2.87	ug/L	96	(50-150)		
MS_201010290027	Vanadium Total ICAP/MS	4.0	100	94.5	ug/L	91	(70-130)		
MS2_201011010043	Vanadium Total ICAP/MS	ND	100	88.9	ug/L	89	(70-130)		
MSD_201010290027	Vanadium Total ICAP/MS	4.0	100	94.5	ug/L	90	(70-130)	20	0.11
MSD2_201011010043	Vanadium Total ICAP/MS	ND	100	87.9	ug/L	88	(70-130)	20	1.1
LCS1	Zinc Total ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	96.2	ug/L	96	(85-115)	20	0.62
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	19.1	ug/L	96	(50-150)		
MS_201010290027	Zinc Total ICAP/MS	ND	100	88.0	ug/L	85	(70-130)		
MS2_201011010043	Zinc Total ICAP/MS	ND	100	92.9	ug/L	93	(70-130)		
MSD_201010290027	Zinc Total ICAP/MS	ND	100	87.9	ug/L	85	(70-130)	20	0.12
MSD2_201011010043	Zinc Total ICAP/MS	ND	100	91.5	ug/L	92	(70-130)	20	1.5

Spike recovery is already corrected for native results.

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

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

(S) Indicates surrogate compound.

53/53

(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)