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LABORATORIES

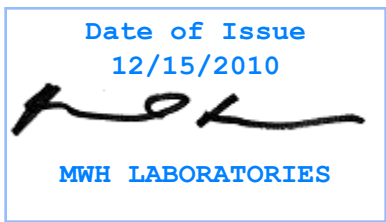
A Division of MWH Americas, Inc.

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)
<http://www.mwhlabs.com/>

Laboratory Report

for

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



TDF: Thomas.D.French
Project Manager



01114CA

Report#: 350540
Project: SR85
ADHS License# AZ0455
Group: SR85 Confirmation

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 #: 350540

Project: SR85

Sample Group: SR85 Confirmation

Project Manager: Thomas.D.French

Phone: (480) 778-1558

The following samples were received from you on **December 08, 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>201012080208</u>	85A-410 Sample Type: FO Well ID: MW-3 Nickel Total ICAP/MS	Dec 07, 2010 08:54
<u>201012080209</u>	85E-410 Sample Type: FO Well ID: MW-4 Barium Total ICAP/MS Selenium Total ICAP/MS	Dec 07, 2010 10:54

Test Description



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**Laboratory Comments
Report: #350540**



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Laboratory
Hits Report: 350540

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

Samples Received on:
12/08/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201012080209	<u>85E-410</u>				
12/14/2010	03:03 Barium Total ICAP/MS		98	2000	ug/L	2
12/14/2010	03:03 Selenium Total ICAP/MS		8.3	50	ug/L	5



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**Laboratory Data
Report: 350540**

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

Samples Received on:
12/08/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
85A-410 (201012080208)						Sampled on 12/07/2010 0854		
Sample Type: FO Well Id: MW-3								
EPA 200.8 - ICPMS Metals								
12/14/2010	02:59	579717	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
85E-410 (201012080209)						Sampled on 12/07/2010 1054		
Sample Type: FO Well Id: MW-4								
EPA 200.8 - ICPMS Metals								
12/14/2010	03:03	579717	(EPA 200.8)	Barium Total ICAP/MS	98	ug/L	2	1
12/14/2010	03:03	579717	(EPA 200.8)	Selenium Total ICAP/MS	8.3	ug/L	5	1



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Laboratory
QC Summary: 350540

City of Phoenix

QC Ref # 579717 - ICPMS Metals

201012080208	85A-410
201012080209	85E-410

Analysis Date: 12/14/2010

Analyzed by: DYH
Analyzed by: DYH



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Laboratory
QC Report: 350540

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 579717 - ICPMS Metals by EPA 200.8					Analysis Date: 12/14/2010				
LCS1	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.1	ug/L	97	(85-115)	20	3.9
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.97	ug/L	99	(50-150)		
MS_201012080187	Barium Total ICAP/MS	ND	100	95.4	ug/L	95	(70-130)		
MS2_201012080446	Barium Total ICAP/MS	57	100	161	ug/L	104	(70-130)		
MSD_201012080187	Barium Total ICAP/MS	ND	100	103	ug/L	103	(70-130)	20	7.7
MSD2_201012080446	Barium Total ICAP/MS	57	100	165	ug/L	108	(70-130)	20	3.8
LCS1	Nickel Total ICAP/MS		50	49.8	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.9	ug/L	98	(85-115)	20	1.8
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.1	ug/L	102	(50-150)		
MS_201012080187	Nickel Total ICAP/MS	ND	50	48.9	ug/L	98	(70-130)		
MS2_201012080446	Nickel Total ICAP/MS	ND	50	46.8	ug/L	90	(70-130)		
MSD_201012080187	Nickel Total ICAP/MS	ND	50	50.8	ug/L	102	(70-130)	20	4.2
MSD2_201012080446	Nickel Total ICAP/MS	ND	50	47.5	ug/L	91	(70-130)	20	1.5
LCS1	Selenium Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	2.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.05	ug/L	101	(50-150)		
MS_201012080187	Selenium Total ICAP/MS	ND	20	21.5	ug/L	107	(70-130)		
MS2_201012080446	Selenium Total ICAP/MS	ND	20	22.5	ug/L	106	(70-130)		
MSD_201012080187	Selenium Total ICAP/MS	ND	20	22.7	ug/L	113	(70-130)	20	5.5
MSD2_201012080446	Selenium Total ICAP/MS	ND	20	23.3	ug/L	110	(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.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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