

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

Laboratory Report

for

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

Date of Issue

12/24/2012



**Eurofins Eaton
Analytical**

TDF: Thomas.D.French
Project Manager



01114CA

Report: 418818
Project: SR85
ADHS License #: AZ0778
Group: SR85-2012-4

Laboratory certifies that the test results meet all **TNI NELAP** 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.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nevada	CA00006-2012-1
Arkansas	Certified	New Hampshire	2959-11
California – NELAP	01114CA	New Jersey	CA 008
California – ELAP	1422	New Mexico	Certified
Colorado	Certified	New York	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida	E871024	Oregon	CA 200003-010
Georgia	947	Pennsylvania	68-565
Guam	11-004r	Rhode Island	01114CA
Hawaii	Certified	South Carolina	87016001
Idaho	Certified	South Dakota	Certified
Illinois	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas	T104704230-11-2
Kansas	E-10268	Utah	Mont-1
Kentucky	90107	Vermont	VT0114
Louisiana	LA110022	Virginia	00210
Maine	CA0006	Washington	C383
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified

Acknowledgement of Samples Received

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

Attn: Jesus Paez
Phone: (602) 534 6655

Client ID: PHOENIX-LF
Folder #: 418818
Project: SR85
Sample Group: SR85-2012-4

Project Manager: Thomas.D.French
Phone: (480) 778-1558
PO #: RESAMPLE

The following samples were received from you on **December 17, 2012**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201212170221</u>	85E-412	12/17/2012 1000
	Sample Type: FB Well ID: MW-3	
	Nitrate as N by RFA Low Level	
<u>201212170222</u>	85D-412	12/17/2012 1035
	Sample Type: FO Well ID: MW-3	
	Nitrate as N by RFA Low Level	
<u>201212170223</u>	85F-412	12/17/2012 1120
	Sample Type: FO Well ID: MW-4	
	Nitrate as N by RFA Low Level	
<u>201212170224</u>	85A-412	12/17/2012 1219
	Sample Type: FO Well ID: MW-1	
	Nitrate as N by RFA Low Level	
<u>201212170225</u>	85A-412 MS	12/17/2012 1219
	Sample Type: QC Well ID: MW-1	
	Nitrate as N by RFA Low Level	
<u>201212170226</u>	85A-412 MSD	12/17/2012 1219
	Sample Type: QC Well ID: MW-1	
	Nitrate as N by RFA Low Level	
<u>201212170228</u>	85B-412	12/17/2012 1338
	Sample Type: FO Well ID: MW-2	
	Nitrate as N by RFA Low Level	
<u>201212170229</u>	85C-412	12/17/2012 1339
	Sample Type: FD Well ID: MW-2	
	Nitrate as N by RFA Low Level	

Test Description

Acknowledgement of Samples Received

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MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
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CHAIN OF CUSTODY RECORD

MWH LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT: _____
 Colton / Sacramento / Scottsdale 3.8 °C (Compliance: 4 ± 2 °C)
 Monrovia 3.1 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: FROZEN PARTIALLY FROZEN _____ THAWED _____ WET ICE _____ NO ICE _____
METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CITY OF PHOENIX		PROJECT CODE: SR-85 LF	COMPLIANCE SAMPLES - Requires state forms Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION	NON-COMPLIANCE SAMPLES REGULATION INVOLVED: (eg. SDWA, Phase V, NPDES, FDA, ...)			
MWH LABS CLIENT CODE: PHOENIX-LF		COC ID: _____	SEE ATTACHED BOTTLE ORDER FOR ANALYSES list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)				
TAT requested: rush by adv notice only		STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___					
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	Field Data	Field Data	SAMPLER COMMENTS
12/17/12	1000	85E-412		FW			FW-LL ID MLW-3
"	1035	85D-412		FW			" " MLW-3
"	1120	85F-412		"			" " MLW-4
"	1219	85A-412		"			" " MLW-1
"	1338	85B-412		"			" " MLW-2
"	1339	85C-412		"			" " MLW-2

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

SAMPLED BY:	RELINQUISHED BY:	RECEIVED BY:	RECEIVED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
					JESUS PAEZ	COP	12/17/12	1515
					JERRY HAYDEN	CZC	12-17	01515
					JERRY HAYDEN	CZC	12-17	355
					Star Wachob	EEA	12-17-12	1555
					Star Wachob	EEA	12-17-12	1700

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12-18-12
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**Laboratory Hits
Report: 418818**

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Samples Received on:
12/17/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
12/18/2012 14:37	201212170222 Nitrate as N by RFA Low Level	<u>85D-412</u>	2.3		mg/L	0.15
12/18/2012 14:38	201212170223 Nitrate as N by RFA Low Level	<u>85F-412</u>	3.1		mg/L	0.15
12/18/2012 14:32	201212170224 Nitrate as N by RFA Low Level	<u>85A-412</u>	25		mg/L	0.6
12/18/2012 14:42	201212170228 Nitrate as N by RFA Low Level	<u>85B-412</u>	10		mg/L	0.15
12/18/2012 14:43	201212170229 Nitrate as N by RFA Low Level	<u>85C-412</u>	9.9		mg/L	0.15

SUMMARY OF POSITIVE DATA ONLY



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Samples Received on:
12/17/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
85E-412 (201212170221)						Sampled on 12/17/2012 1000		
Sample Type: FB Well Id: MW-3 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:36	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	ND	mg/L	0.03	1
85D-412 (201212170222)						Sampled on 12/17/2012 1035		
Sample Type: FO Well Id: MW-3 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:37	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	2.3	mg/L	0.15	5
85F-412 (201212170223)						Sampled on 12/17/2012 1120		
Sample Type: FO Well Id: MW-4 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:38	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	3.1	mg/L	0.15	5
85A-412 (201212170224)						Sampled on 12/17/2012 1219		
Sample Type: FO Well Id: MW-1 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:32	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	25	mg/L	0.6	20
85A-412 MS (201212170225)						Sampled on 12/17/2012 1219		
Sample Type: QC Well Id: MW-1 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:33	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	102	%	0.6	20
85A-412 MSD (201212170226)						Sampled on 12/17/2012 1219		
Sample Type: QC Well Id: MW-1 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:35	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	100	%	0.6	20
85B-412 (201212170228)						Sampled on 12/17/2012 1338		
Sample Type: FO Well Id: MW-2 EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:42	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	10	mg/L	0.15	5
85C-412 (201212170229)						Sampled on 12/17/2012 1339		
Sample Type: FD Well Id: MW-2								

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



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Samples Received on:
12/17/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 353.2 - Nitrate as N by RFA Low Level								
12/18/2012	14:43	685354	(EPA 353.2)	Nitrate as N by RFA Low Level	9.9	mg/L	0.15	5

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

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QC Ref # 685354 - Nitrate as N by RFA Low Level**Analysis Date: 12/18/2012**

201212170221	85E-412	Analyzed by: NJR
201212170222	85D-412	Analyzed by: NJR
201212170223	85F-412	Analyzed by: NJR
201212170224	85A-412	Analyzed by: NJR
201212170225	85A-412 MS	Analyzed by: NJR
201212170226	85A-412 MSD	Analyzed by: NJR
201212170228	85B-412	Analyzed by: NJR
201212170229	85C-412	Analyzed by: NJR

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 685354 - Nitrate as N by RFA Low Level by EPA 353.2						Analysis Date: 12/13/2012			
LCS1	Nitrate as N by RFA Low Level		1.0	1.03	mg/L	103	(90-110)		
LCS2	Nitrate as N by RFA Low Level		1.0	1.04	mg/L	104	(90-110)	20	0.97
MBLK	Nitrate as N by RFA Low Level			<0.03	mg/L				
MRL_CHK	Nitrate as N by RFA Low Level		0.03	0.0184	mg/L	61	(50-150)		
MS_201212120128	Nitrate as N by RFA Low Level	25	1.0	45.2	mg/L	100	(90-110)		
MS_201212170224	Nitrate as N by RFA Low Level	25	1.0	45.2	mg/L	102	(90-110)		
MSD_201212120128	Nitrate as N by RFA Low Level	25	1.0	44.8	mg/L	98	(90-110)	20	0.89
MSD_201212170224	Nitrate as N by RFA Low Level	25	1.0	44.8	mg/L	100	(90-110)	20	0.89

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.

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).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.