



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

Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attention: John M. Pekala, P.G.
Fax: 602.734.7701

Date of Issue

04/25/2012

Rinda Seddes
MWH LABORATORIES

RSR: Rita S Sprinkle
Project Manager



01114CA

Report: 393671
Project: CWA-RCRA
Group: Monthly ART and PC
Wells

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

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

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0455	Nevada	CA00006-2010-1
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 200003-009
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: **Environ International Corp.**
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attn: John M. Pekala, P.G.
Phone: 602.734.7710

Client ID: ENVIRON-NVTRUST
Folder #: 393671
Project: CWA-RCRA
Sample Group: Monthly ART and PC Wells
Project Manager: Rita S Sprinkle
Phone: 916-418-8358

The following samples were received from you on **April 11, 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 MWH Laboratories.

Sample #	Sample ID	Sample Date
201204110803	ART-1	04/10/2012 0900
	Perchlorate Total Dissolved Solid (TDS)	
201204110804	ART-2	04/10/2012 0904
	Perchlorate Total Dissolved Solid (TDS)	
201204110805	ART-3	04/10/2012 0908
	Perchlorate Total Dissolved Solid (TDS)	
201204110806	ART-4	04/10/2012 0912
	Perchlorate Total Dissolved Solid (TDS)	
201204110807	ART-6	04/10/2012 0835
	Perchlorate Total Dissolved Solid (TDS)	
201204110808	ART-7	04/10/2012 0921
	Perchlorate Total Dissolved Solid (TDS)	
201204110809	ART-8	04/10/2012 0917
	Perchlorate Total Dissolved Solid (TDS)	
201204110810	PC-99R2/R3	04/10/2012 0708
	Perchlorate Total Dissolved Solid (TDS)	
201204110811	PC-115R	04/10/2012 0714
	Perchlorate Total Dissolved Solid (TDS)	
201204110812	PC-116R	04/10/2012 0718
	Perchlorate Total Dissolved Solid (TDS)	
201204110813	SF-1	04/10/2012 0633
	Perchlorate Total Dissolved Solid (TDS)	
201204110814	PC-117	04/10/2012 0701
	Perchlorate Total Dissolved Solid (TDS)	
201204110815	PC-118	04/10/2012 0704
	Perchlorate Total Dissolved Solid (TDS)	
201204110816	PC-119	04/10/2012 0656

3/14



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Sample #	Sample ID	Sample Date
	Perchlorate Total Dissolved Solid (TDS)	
<u>201204110817</u>	PC-120	04/10/2012 0645
	Perchlorate Total Dissolved Solid (TDS)	
<u>201204110818</u>	PC-121	04/10/2012 0650
	Perchlorate Total Dissolved Solid (TDS)	
<u>201204110819</u>	PC-133	04/10/2012 0725
	Perchlorate Total Dissolved Solid (TDS)	
<u>201204110820</u>	ART-9	04/10/2012 0926
	Perchlorate Total Dissolved Solid (TDS)	

Test Description



393671

750 Royal Oaks Ave, Suite 100, Monrovia, CA 91016
(626) 386-1100 (800) 566-5227

MW LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: MWD

SAMPLE TEMP, RECEIPT AT LAB: 2-6°C

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		SAMPLER COMMENTS	
Nevada Environmental Response Trust Sampler Signature: <u>Eric Crawford</u>		CWA-RCRA Collection Wells Fields - Monthly - SO #12373		Nevada Environmental Response Trust 35 Wacker Suite 1550 Chicago, IL 60606		sterile filtered CLO4			
John Pekala 602-734-7710		IDENTIFIER, STATE ID#		MATRIX *		GRAB		COMP	
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	sterile filtered CLO4	TDS	SAMPLER COMMENTS
633A	4/10/12		SF-1	RSW	X		X	X	
701A	4/10/12		PC-117	RSW	X		X	X	
704A	4/10/12		PC-118	RSW	X		X	X	
657A	4/10/12		PC-119	RSW	X		X	X	
658A	4/10/12		PC-120	RSW	X		X	X	
659A	4/10/12		PC-121	RSW	X		X	X	
725A	4/10/12		PC-133	RSW	X		X	X	
926A	4/10/12		ART-9	RSW	X		X	X	

* MATRIX TYPES:

Reported by Volume:
CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

Reported by Weight:
SO = Soil
SL = Sludge

RGW = Raw Ground Water
RSW = Raw Surface Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE
[Signature]

PRINT NAME
Eric Crawford

COMPANY/TITLE
Veolia Water for Nevada Environmental Response Trust

DATE
4/10/2012

TIME
12:00 PM

RELINQUISHED BY:
RECEIVED BY:
RELINQUISHED BY:
RECEIVED BY:

M. DENVER

4-10-12
[Signature]

April 25, 2012

John M. Pekala, P.G.
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on April 11, 2012 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

Other Observations:

There were no unusual observations on this sample set.

Sincerely,



Rita Reeves
Project Manager



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Laboratory Comments
Report: #393671



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Phoenix, AZ 85016

Samples Received on:
04/11/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution	
<u>ART-1 (201204110803)</u>							Sampled on 04/10/2012 0900				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	01:34	648838	(EPA 314.0)	Perchlorate	4300	ug/L	0.25	400	25	100
E160.1/SM2540C - Total Dissolved Solid (TDS)											
4/16/2012	04/17/2012	15:37	648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	6200	mg/L	4.2	10	4.2	1
<u>ART-2 (201204110804)</u>							Sampled on 04/10/2012 0904				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	04:56	648935	(EPA 314.0)	Perchlorate	54000	ug/L	0.25	4000	250	1000
E160.1/SM2540C - Total Dissolved Solid (TDS)											
4/16/2012	04/17/2012	15:38	648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	9400	mg/L	4.2	10	4.2	1
<u>ART-3 (201204110805)</u>							Sampled on 04/10/2012 0908				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	06:03	648935	(EPA 314.0)	Perchlorate	300000	ug/L	0.25	40000	2500	10000
E160.1/SM2540C - Total Dissolved Solid (TDS)											
4/16/2012	04/17/2012	15:39	648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	8600	mg/L	4.2	10	4.2	1
<u>ART-4 (201204110806)</u>							Sampled on 04/10/2012 0912				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	06:25	648935	(EPA 314.0)	Perchlorate	400000	ug/L	0.25	40000	2500	10000
E160.1/SM2540C - Total Dissolved Solid (TDS)											
4/16/2012	04/17/2012	15:40	648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	4.2	10	4.2	1
<u>ART-6 (201204110807)</u>							Sampled on 04/10/2012 0835				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	06:48	648935	(EPA 314.0)	Perchlorate	76000	ug/L	0.25	40000	2500	10000
E160.1/SM2540C - Total Dissolved Solid (TDS)											
4/16/2012	04/17/2012	15:41	648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	6800	mg/L	4.2	10	4.2	1
<u>ART-7 (201204110808)</u>							Sampled on 04/10/2012 0921				
EPA 314.0 - Perchlorate Sterile Filtered											
	04/18/2012	07:10	648935	(EPA 314.0)	Perchlorate	150000	ug/L	0.25	20000	1200	5000
E160.1/SM2540C - Total Dissolved Solid (TDS) 9/14											

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

Rounding on totals after summation.

(c) - Indicates calculated results.

J - The analyte was either detected at or greater than the SQL and less than the MRL, or did not meet any one of the required QC criteria.



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Samples Received on:
04/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different samples and methods, including EPA 314.0 and E160.1/SM2540C.

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

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Samples Received on:
04/11/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:50 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	3500	mg/L	4.2	10	4.2	1
PC-118 (201204110815)							Sampled on 04/10/2012 0704			
EPA 314.0 - Perchlorate Sterile Filtered										
	04/18/2012	10:09 648935	(EPA 314.0)	Perchlorate	2200	ug/L	0.25	400	25	100
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:35 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2600	mg/L	4.2	10	4.2	1
PC-119 (201204110816)							Sampled on 04/10/2012 0656			
EPA 314.0 - Perchlorate Sterile Filtered										
	04/18/2012	10:32 648935	(EPA 314.0)	Perchlorate	310	ug/L	0.25	200	12	50
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:46 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2100	mg/L	4.2	10	4.2	1
PC-120 (201204110817)							Sampled on 04/10/2012 0645			
EPA 314.0 - Perchlorate Sterile Filtered										
	04/18/2012	10:54 648935	(EPA 314.0)	Perchlorate	110	ug/L	0.25	80	5.0	20
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:51 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2100	mg/L	4.2	10	4.2	1
PC-121 (201204110818)							Sampled on 04/10/2012 0650			
EPA 314.0 - Perchlorate Sterile Filtered										
	04/18/2012	11:17 648935	(EPA 314.0)	Perchlorate	250	ug/L	0.25	80	5.0	20
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:52 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2100	mg/L	4.2	10	4.2	1
PC-133 (201204110819)							Sampled on 04/10/2012 0725			
EPA 314.0 - Perchlorate Sterile Filtered										
	04/18/2012	11:39 648935	(EPA 314.0)	Perchlorate	650	ug/L	0.25	400	25	100
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:53 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2400	mg/L	4.2	10	4.2	1
ART-9 (201204110820)							Sampled on 04/10/2012 0926			
EPA 314.0 - Perchlorate Sterile Filtered										

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

Rounding on totals after summation.

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04/11/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
	04/18/2012	12:01 648935	(EPA 314.0)	Perchlorate	250000	ug/L	0.25	40000	2500	10000
E160.1/SM2540C - Total Dissolved Solid (TDS)										
4/16/2012	04/17/2012	15:54 648919	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7000	mg/L	4.2	10	4.2	1

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 648838 - Perchlorate by EPA 314.0		Analysis Date: 04/17/2012							
LCS1	Perchlorate		25	25.5	ug/L	102	(85-115)		
LCS2	Perchlorate		25	25.9	ug/L	104	(85-115)	15	1.6
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.45	ug/L	111	(75-125)		
MS_201204070098	Perchlorate	ND	25	28.8	ug/L	115	(80-120)		
MSD_201204070098	Perchlorate	ND	25	27.0	ug/L	108	(80-120)	15	6.5
QC Ref# 648919 - Total Dissolved Solids (TDS) by E160.1/SM2540C		Analysis Date: 04/17/2012							
DUP_201204110816	Total Dissolved Solid (TDS)	2100		2110	mg/L		(0-20)	20	0.28
DUP_201204110815	Total Dissolved Solid (TDS)	2600		2580	mg/L		(0-20)	20	0.23
LCS1	Total Dissolved Solid (TDS)		175	176	mg/L	101	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	714	mg/L	102	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 648935 - Perchlorate by EPA 314.0		Analysis Date: 04/18/2012							
LCS1	Perchlorate		25	23.9	ug/L	96	(85-115)		
LCS2	Perchlorate		25	26.1	ug/L	104	(85-115)	15	8.8
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.96	ug/L	99	(75-125)		
MS_201204110804	Perchlorate	54000	25	80400	ug/L	108	(80-120)		
MSD_201204110804	Perchlorate	54000	25	77900	ug/L	98	(80-120)	15	3.2

Spike recovery is already corrected for native results.

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

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

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

14/14

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)