



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



RSR: Rita S. Sprinkle
Project Manager



01114CA

Report: 398900
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 #: 398900
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 **June 06, 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
<u>201206070206</u>	ART-1	06/05/2012 1246
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070207</u>	ART-2	06/05/2012 1259
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070208</u>	ART-3	06/05/2012 1253
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070209</u>	ART-4	06/05/2012 1300
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070210</u>	ART-6	06/05/2012 1315
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070211</u>	ART-7	06/05/2012 1308
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070212</u>	ART-8	06/05/2012 1250
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070213</u>	PC-99R2/R3	06/05/2012 1221
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070214</u>	PC-115R	06/05/2012 1202
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070215</u>	PC-116R	06/05/2012 1216
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070216</u>	SF-1	06/05/2012 1151
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070217</u>	PC-117	06/05/2012 1210
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070218</u>	PC-118	06/05/2012 1205
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070219</u>	PC-119	06/05/2012 1159



Addr: **Environ International Corp.**
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Folder #: 398900
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 **June 06, 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
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070220</u>	PC-120	06/05/2012 1227
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070221</u>	PC-121	06/05/2012 1231
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070222</u>	PC-133	06/05/2012 1405
	Perchlorate Total Dissolved Solid (TDS)	
<u>201206070223</u>	ART-9	06/05/2012 1304
	Perchlorate Total Dissolved Solid (TDS)	

Test Description



MONTGOMERY WATSON LABORATORIES CHAIN OF CUSTODY RECORD

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

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AP/la

SAMPLE TEMP, RECEIPT AT LAB: 3.6

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: PROJECT JOB # / P.O.#
Nevada Environmental Response Trust CWA-RCRA
Collection Wells Fields - Weekly - SO #2373
Sampler: Michele Brown Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60606
John Pekala 602-734-7710

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

(check for yes)

SAMPLER COMMENTS

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	Sanitization	TDS
1246p	6/5/12		ART-1	RSW	X		X	X
1259p	6/5/12		ART-2	RSW	X		X	X
1233p	6/5/12		ART-3	RSW	X		X	X
1008p	6/5/12		ART-4	RSW	X		X	X
1159p	6/5/12		ART-6	RSW	X		X	X
1069p	6/5/12		ART-7	RSW	X		X	X
1250p	6/5/12		ART-8	RSW	X		X	X
1221p	6/5/12		PC-99R2/R3	RSW	X		X	X
1202p	6/5/12		PC-115R	RSW	X		X	X
1216p	6/5/12		PC-116R	RSW	X		X	X

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:

SO = Soil
SL = Sludge

RELINQUISHED BY: Michele Brown

SIGNATURE: Michele Brown

PRINT NAME: Michele Brown

COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust

DATE: 6/5/2012

TIME: 1200pm

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY: A. Tomoni

mw

6/6 11:54



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

IMLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AST

SAMPLE TEMP, RECEIPT AT LAB: 5.6

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME Nevada Environmental Response Trust	PROJECT JOB # / P.O.# CWA-RCRA Collection Wells Fields - Monthly - SO # 2373	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES <input checked="" type="checkbox"/> (check for yes)
---	--	--

Sampler Signature: Michele Brown
 John Pekala 602-734-7710
 Nevada Environmental Response Trust
 35 Wacker Suite 1550
 Chicago, IL 60606

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	sterile filtered C104	TDS	SAMPLER COMMENTS
1151A	6/5/12		SF-1	RSW	X		X	X	
1210P	6/5/12		PC-117	RSW	X		X	X	
1205P	6/5/12		PC-118	RSW	X		X	X	
1159A	6/5/12		PC-119	RSW	X		X	X	
1207P	6/5/12		PC-120	RSW	X		X	X	
1231P	6/5/12		PC-121	RSW	X		X	X	
2059P	6/5/12		PC-133	RSW	X		X	X	
104P	6/5/12		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

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

RGW = Raw Ground Water
RSW = Raw Surface Water

RELINQUISHED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME Michele Brown	COMPANY/TITLE Veolia Water for Nevada Environmental Response Trust	DATE 6/5/2012	TIME 12:00 PM
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY: <u>A. Tomar</u>					

Linda Geddes Your MWHL Project Manager

IO #: 9843

Created By: LXG

Order Date: 10/07/2009

Bottle Orders

Client Code TRONOX

Project Code CWA-RCRA Bottle Orders

Group Name Monthly ART and PC Wells

PO#/Job#

Ship Sample Kits to

Veolia Water-Tronox LLC

Gate 1

560 West Lake Mead Pkwy

Henderson, NV 89015

Attn: Wendy Prescott

Phone:

Fax:

Send Report to

Tronox LLC

PO Box 55

Henderson, NV 89009

Attn: Susan Crowley

Phone: 702-651-2234

Fax: 702-651-2310

Billing Address

Tronox LLC

PO Box 55

Henderson, NV 89009

Attn: Susan Crowley

Phone: 702-651-2234

Fax: 702-651-2310

of Samples Tests

20 Perchlorate

20 Total Dissolved Solid (TDS)

Qtelinet# Bottles - Qty for each sample, type & preservative if any

1 125ml poly CLO4 - no preservative

1 500ml poly TDS - no preservative

UN DOT #

Comments

Monthly ART and PC Wells - Do not prelabel bottles

Group#

Date Sampled

Date Received

Netus

Date Shipped

Via

Tracking #

of Coolers

Prepared By

June 20, 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 June 06, 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 S. Sprinkle
Project Manager



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Laboratory Comments
Report: #398900



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Laboratory Data
Report: 398900

Environ International Corp.

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

Samples Received on:
06/06/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains data for ART-1, ART-2, ART-3, ART-4, ART-6, and ART-7, including EPA 314.0 and E160.1/SM2540C test results.

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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Laboratory Data
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Samples Received on:
06/06/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different samples and analytes, including EPA 314.0 - Perchlorate Sterile Filtered and E160.1/SM2540C - Total Dissolved Solid (TDS).

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:
06/06/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different analytes like Total Dissolved Solid (TDS) and Perchlorate Sterile Filtered, with associated sample IDs and sampling dates.

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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**Laboratory Data
Report: 398900**

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Samples Received on:
06/06/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
	06/14/2012	23:59 658291	(EPA 314.0)	Perchlorate	290000	ug/L	0.25	40000	2500	10000
E160.1/SM2540C - Total Dissolved Solid (TDS)										
6/11/2012	06/11/2012	23:41 657650	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7000	mg/L	4.2	10	4.2	1

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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**Laboratory
QC Summary: 398900**

Environ International Corp.

QC Ref # 657650 - Total Dissolved Solids (TDS)

201206070206	ART-1
201206070207	ART-2
201206070208	ART-3
201206070209	ART-4
201206070210	ART-6
201206070211	ART-7
201206070212	ART-8
201206070213	PC-99R2/R3
201206070214	PC-115R
201206070215	PC-116R
201206070216	SF-1
201206070217	PC-117
201206070218	PC-118
201206070219	PC-119
201206070220	PC-120
201206070221	PC-121
201206070222	PC-133
201206070223	ART-9

Analysis Date: 06/11/2012

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

QC Ref # 658291 - Perchlorate

201206070206	ART-1
201206070207	ART-2
201206070208	ART-3
201206070209	ART-4
201206070210	ART-6
201206070211	ART-7
201206070212	ART-8
201206070213	PC-99R2/R3
201206070214	PC-115R
201206070215	PC-116R
201206070216	SF-1
201206070217	PC-117
201206070218	PC-118
201206070219	PC-119
201206070220	PC-120
201206070221	PC-121
201206070222	PC-133
201206070223	ART-9

Analysis Date: 06/14/2012

Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE
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Laboratory QC
Report: 398900

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Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 657650 - Total Dissolved Solids (TDS) by E160.1/SM2540C					Analysis Date: 06/11/2012				
DUP_201206070284	Total Dissolved Solid (TDS)	730		722	mg/L		(0-20)	20	1.1
DUP_201206070283	Total Dissolved Solid (TDS)	900		910	mg/L		(0-20)	20	1.1
LCS1	Total Dissolved Solid (TDS)		175	160	mg/L	91	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	692	mg/L	99	(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# 658291 - Perchlorate by EPA 314.0					Analysis Date: 06/14/2012				
LCS1	Perchlorate		25	25.3	ug/L	101	(85-115)		
LCS2	Perchlorate		25	26.3	ug/L	105	(85-115)	15	3.9
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.12	ug/L	103	(75-125)		
MS_201206070206	Perchlorate	4900	25	7290	ug/L	93	(80-120)		
MSD_201206070206	Perchlorate	4900	25	7380	ug/L	97	(80-120)	15	1.2

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.
 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.