



**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: 396604  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

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**

<b>State</b>	<b>Certification Number</b>	<b>State</b>	<b>Certification Number</b>
<b>Alabama</b>	41060	<b>Mississippi</b>	Certified
<b>Alaska</b>	CA00006	<b>Montana</b>	Cert 0035
<b>Arizona</b>	AZ0455	<b>Nevada</b>	CA00006-2010-1
<b>Arkansas</b>	Certified	<b>New Hampshire</b>	2959-11
<b>California – NELAP</b>	01114CA	<b>New Jersey</b>	CA 008
<b>California – ELAP</b>	1422	<b>New Mexico</b>	Certified
<b>Colorado</b>	Certified	<b>New York</b>	11320
<b>Connecticut</b>	PH-0107	<b>North Carolina</b>	06701
<b>Delaware</b>	CA 006	<b>North Dakota</b>	R-009
<b>Florida</b>	E871024	<b>Oregon</b>	CA 200003-009
<b>Georgia</b>	947	<b>Pennsylvania</b>	68-565
<b>Guam</b>	11-004r	<b>Rhode Island</b>	01114CA
<b>Hawaii</b>	Certified	<b>South Carolina</b>	87016001
<b>Idaho</b>	Certified	<b>South Dakota</b>	Certified
<b>Illinois</b>	200033	<b>Tennessee</b>	TN02839
<b>Indiana</b>	C-CA-01	<b>Texas</b>	T104704230-11-2
<b>Kansas</b>	E-10268	<b>Utah</b>	Mont-1
<b>Kentucky</b>	90107	<b>Vermont</b>	VT0114
<b>Louisiana</b>	LA110022	<b>Virginia</b>	00210
<b>Maine</b>	CA0006	<b>Washington</b>	C383
<b>Maryland</b>	224	<b>West Virginia</b>	9943 C
<b>Commonwealth of Northern Marianas Is.</b>	MP0004	<b>Wisconsin</b>	998316660
<b>Massachusetts</b>	M-CA006	<b>Wyoming</b>	8TMS-L
<b>Michigan</b>	9906	<b>EPA Region 5</b>	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 #: 396604  
Project: CWA-RCRA  
Sample Group: Quarterly CR6010 Testing  
Project Manager: Rita S. Sprinkle  
Phone: 916-418-8358

The following samples were received from you on **May 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
<u>201205120161</u>	I-H	05/10/2012 1012
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120162</u>	I-U	05/10/2012 1018
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120163</u>	I-T	05/10/2012 1022
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120164</u>	I-G	05/10/2012 1025
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120165</u>	I-Q	05/10/2012 1029
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120166</u>	I-F	05/10/2012 1032
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120167</u>	I-E	05/10/2012 1039
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120168</u>	I-M	05/10/2012 1042
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120169</u>	I-D	05/10/2012 1050
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120170</u>	I-C	05/10/2012 1054
	Chromium Total ICAP RCRA	Perchlorate PH (H3=past HT not compliant)
	Total Dissolved Solid (TDS)	
<u>201205120171</u>	I-S	05/10/2012 1058



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Sample #	Sample ID	Sample Date
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120172</u>	I-L	05/10/2012 1101
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120173</u>	I-R	05/10/2012 1108
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120174</u>	I-B	05/10/2012 1111
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120175</u>	I-AR	05/10/2012 1117
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120176</u>	PC-31	05/10/2012 0550
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120177</u>	MC-65	05/10/2012 0616
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120178</u>	MC-50	05/10/2012 0706
	Perchlorate Total Dissolved Solid (TDS)	PH (H3=past HT not compliant) Total Dissolved Solid (TDS)
<u>201205120179</u>	MC-51	05/10/2012 0905
	Perchlorate Total Dissolved Solid (TDS)	PH (H3=past HT not compliant) Total Dissolved Solid (TDS)
<u>201205120180</u>	MC-69	05/10/2012 0640
	Perchlorate Total Dissolved Solid (TDS)	PH (H3=past HT not compliant) Total Dissolved Solid (TDS)
<u>201205120181</u>	MC-53	05/10/2012 0737
	Chromium Total ICAP RCRA Total Dissolved Solid (TDS)	Perchlorate PH (H3=past HT not compliant)
<u>201205120182</u>	MC-93	05/10/2012 0805



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Client ID: ENVIRON-NVTRUST  
Folder #: 396604  
Project: CWA-RCRA  
Sample Group: Quarterly CR6010 Testing  
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Phone: 916-418-8358

The following samples were received from you on **May 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
	Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120183</u>	MC-97	05/10/2012 0824
	Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120184</u>	M-65	05/10/2012 1229
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120185</u>	M-66	05/10/2012 1245
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120186</u>	M-79	05/10/2012 1317
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120187</u>	M-69	05/10/2012 1302
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120188</u>	M-57A	05/10/2012 1338
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120189</u>	M-131	05/10/2012 1401
	Chromium Total ICAP RCRA Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	
<u>201205120190</u>	EB-2	05/10/2012 1345
	Chromium Total ICAP RCRA CRVI7196 Perchlorate PH (H3=past HT not compliant) Total Dissolved Solid (TDS)	

**Test Description**



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

396604

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: WWD/JS

SAMPLE TEMP, RECEIPT AT LAB: 2-8°C

BLUE ICE: FROZEN  PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Quaterly Groundwater Sampling

Nevada Environmental Response Trust

Schedule B CWA-RCRA

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

(check for yes)

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	PH	TS	CR	CL04	Sterile CL04	CRVI	CL03	NO3	SAMPLER Comments
1072A	5-10-12		I-H	RGW	X		X	X	X	X	X				5 Bottles
1018A	5-10-12		I-U	RGW	X		X	X	X	X	X				5 Bottles
1022A	5-10-12		I-T	RGW	X		X	X	X	X	X				5 Bottles
1025A	5-10-12		I-G	RGW	X		X	X	X	X	X				5 Bottles
1029A	5-10-12		I-Q	RGW	X		X	X	X	X	X				5 Bottles
1033A	5-10-12		I-P	RGW	X		X	X	X	X	X				5 Bottles
1037A	5-10-12		I-E	RGW	X		X	X	X	X	X				5 Bottles
1042A	5-10-12		I-M	RGW	X		X	X	X	X	X				5 Bottles
1050A	5-10-12		I-D	RGW	X		X	X	X	X	X				5 Bottles
1054A	5-10-12		I-C	RGW	X		X	X	X	X	X				5 Bottles
1058A	5-10-12		I-S	RGW	X		X	X	X	X	X				5 Bottles
1101A	5-10-12		I-L	RGW	X		X	X	X	X	X				5 Bottles

\* 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

SIGNATURE

PRINT NAME

COMPANY/TITLE

TIME

RELINQUISHED BY: Michele Brown

RECEIVED BY: M. Anderson

Veolia Water for Nevada Environmental Response Trust

DATE

TIME

12:00PM

5-10-12

5-11-12

13:41

RELINQUISHED BY:

RECEIVED BY:



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

M/LABS USE ONLY:

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

SAMPLES CHECKED/LOGGED IN BY: JK

SAMPLE TEMP, RECEIPT AT LAB:

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#  
Quarterly Groundwater Sampling

Schedule B CWA/RCRA

Sampler Michele Brown

Nevada Environmental Response Trust  
35 East Wacker Suite 1550  
Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

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

SAMPLER  
Comments

TIME DATE LOCATION IDENTIFIER, STATE ID# MATRIX\* GRAB COMP

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	PH	TDS	CR	CL04	Sterile CL04	CRM	CL03	NO3	SAMPLER Comments
1108A	5-10-12		I-B	RGW	X		X	X	X	X	X				5 Bottles
1111A	5-10-12		I-B	RGW	X		X	X	X	X	X				5 Bottles
1117A	5-10-12		I-AR	RGW	X		X	X	X	X	X				5 Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles
				RGW	X		X	X	X	X	X				Bottles

\* 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

Reported by Weight:

RELINQUISHED BY:

RECEIVED BY: Michele Brown

SIGNATURE:

PRINT NAME: Michele Brown

COMPANY/TITLE: Well

Veolia Water for Nevada Environmental Response Trust

TIME

DATE

COMPANY/TITLE

PRINT NAME

COMPANY/TITLE

SIGNATURE:

RELINQUISHED BY:

RECEIVED BY: Michele Brown

PRINT NAME: Michele Brown

COMPANY/TITLE: Well

Veolia Water for Nevada Environmental Response Trust

12:00PM

5-10-12

COMPANY/TITLE

PRINT NAME

COMPANY/TITLE

SIGNATURE:

RECEIVED BY:



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

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

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: WJ

SAMPLE TEMP, RECEIPT AT LAB: 3.2°C

BLUE ICE: FROZEN  PARTIALLY FROZEN  THAWED

WJ

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Nevada Environmental Response Trust  
 PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling  
 Schedule B CWA-RCRA  
 Sampler: Michele Brown  
 Nevada Environmental Response Trust  
 35 East Wacker Suite 1550  
 Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES  (check for yes)

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

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	PH	TDS	CR	CL04	Sterile CL04	CRVI	CL03	NO3	SAMPLER Comments
550A	5-10-12		PC-31	RGW	X		X	X	X	X	X				Bottles
606A	5-10-12		MC-105	RGW	X		X	X	X	X	X				Bottles
700A	5-10-12		MC-50	RGW	X		X	X	X	X	X				Bottles
905A	5-10-12		MC-51	RGW	X		X	X	X	X	X				Bottles
640A	5-10-12		MC-69	RGW	X		X	X	X	X	X				Bottles
737A	5-10-12		MC-53	RGW	X		X	X	X	X	X				Bottles
805A	5-10-12		MC-93	RGW	X		X	X	X	X	X				Bottles
824A	5-10-12		MC-97	RGW	X		X	X	X	X	X				Bottles
1220	5-10-12		M-105	RGW	X		X	X	X	X	X				Bottles
1245	5-10-12		M-66	RGW	X		X	X	X	X	X				Bottles
1170	5-10-12		M-79	RGW	X		X	X	X	X	X				Bottles
1020	5-10-12		M-69	RGW	X		X	X	X	X	X				Bottles

\* MATRIX TYPES:

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

Reported by Weight:  
SO = Soil  
SL = Sludge

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

Reported by Weight:

RELINQUISHED BY: Michele Brown SIGNATURE  
 RECEIVED BY: Michele Brown  
 RELINQUISHED BY:  
 RECEIVED BY:

PRINT NAME: Michele Brown  
 COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust  
 DATE: 5-10-12  
 TIME: 12:00PM





# CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES

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

IN/LABS USE ONLY:  
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AS  
SAMPLE TEMP, RECEIPT AT LAB:  
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		(check for yes)						
Nevada Environmental Response Trust SAMPLER: Michele Brown		Quarterly Groundwater Sampling Schedule B CWA-RCRA	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)								
John Pekala 602-734-7710		Nevada Environmental Response Trust 35 East Wacker Suite 1550 Chicago, IL 60606	PH	TDS	CR	CL04	Sterile CL04	CRVI	CL03	NO3	SAMPLER Comments
1380	5-10-12	M-57A	X	X	X	X	X				5 Bottles
2018	5-10-12	M-131	X	X	X	X	X				5 Bottles
1458	5-10-12	EB-2	X	X	X	X	X	X			6 Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles
			X	X	X	X	X				Bottles

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

RELINQUISHED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Michele Brown	Vecilia Water for Nevada Environmental Response Trust	5-10-12	12:00PM
RELINQUISHED BY:				5-11-12	1:30P
RECEIVED BY:					

June 14, 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 May 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:

Samples I-AR, PC-31, MC-65, MC-93, MC-97, M-66, M-79, and EB-2 are flagged R6 for ClO<sub>4</sub> by EPA 314. The LFB/LFB RPD exceeded the method acceptance limits. The recovery met the acceptance criteria. Sample EB-2 is also flagged H3 for EPA 7196 for CrVI. The sample was received and analyzed past holding time for this method.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Rita S. Sprinkle  
Project Manager



**MWH**

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

**Laboratory Comments**  
**Report: #396604**

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### **Group Comments**

Samples I-AR, PC-31, MC-65, MC-93, MC-97, M-66, M-79, and EB-2 are flagged R6 for ClO<sub>4</sub> by EPA 314. The LFB/LFB RPD exceeded the method acceptance limits. The recovery met the acceptance criteria. Sample EB-2 is also flagged H3 for EPA 7196 for CrVI. The sample was received and analyzed past holding time for this method.

#### **Flags Legend:**

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.  
R6 - LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.



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Laboratory Data
Report: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple sections for different samples (I-H, I-U, I-T, I-G) with sub-sections for EPA 6010, EPA 314.0, and EPA 9040.

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: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows of data for various analytes like Chromium Total ICAP, Perchlorate, and Total Dissolved Solids (TDS) across different dates and methods.

I-Q (201205120165)

Sampled on 05/10/2012 1029

I-F (201205120166)

Sampled on 05/10/2012 1032

I-E (201205120167)

Sampled on 05/10/2012 1039

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: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows of data for various analytes like Total Dissolved Solid (TDS), PH, Chromium Total ICAP, and Perchlorate.

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: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row 1: 05/19/2012, 15:25, 654193, (EPA 9040), PH (H3=past HT not compliant), 7.4, Units, 0.10, 0.1, 0.10, 1

I-S (201205120171)

Sampled on 05/10/2012 1058

EPA 6010 - ICP Metals

Table row: 5/13/2012, 05/22/2012, 12:02, 654462, (EPA 6010), Chromium Total ICAP, 1.4, mg/L, 0.00044, 0.02, 0.00088, 2

EPA 314.0 - Perchlorate Sterile Filtered

Table row: 05/21/2012, 22:31, 654575, (EPA 314.0), Perchlorate, 870000, ug/L, 0.25, 80000, 5000, 20000

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

Table row: 5/16/2012, 05/17/2012, 23:20, 653898, (E160.1/SM2540C), Total Dissolved Solids (TDS), 5600, mg/L, 4.2, 10, 4.2, 1

EPA 9040 - PH by EPA 9040

Table row: 05/19/2012, 15:28, 654193, (EPA 9040), PH (H3=past HT not compliant), 7.5, Units, 0.10, 0.1, 0.10, 1

I-L (201205120172)

Sampled on 05/10/2012 1101

EPA 6010 - ICP Metals

Table row: 5/13/2012, 05/21/2012, 23:40, 654462, (EPA 6010), Chromium Total ICAP, 0.67, mg/L, 0.00044, 0.01, 0.00044, 1

EPA 314.0 - Perchlorate Sterile Filtered

Table row: 05/21/2012, 22:53, 654575, (EPA 314.0), Perchlorate, 1600000, ug/L, 0.25, 80000, 5000, 20000

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

Table row: 5/16/2012, 05/17/2012, 23:23, 653898, (E160.1/SM2540C), Total Dissolved Solids (TDS), 5700, mg/L, 4.2, 10, 4.2, 1

EPA 9040 - PH by EPA 9040

Table row: 05/19/2012, 15:32, 654193, (EPA 9040), PH (H3=past HT not compliant), 7.4, Units, 0.10, 0.1, 0.10, 1

I-R (201205120173)

Sampled on 05/10/2012 1108

EPA 6010 - ICP Metals

Table row: 5/13/2012, 05/22/2012, 12:05, 654462, (EPA 6010), Chromium Total ICAP, 0.35, mg/L, 0.00044, 0.02, 0.00088, 2

EPA 314.0 - Perchlorate Sterile Filtered

Table row: 05/21/2012, 23:16, 654575, (EPA 314.0), Perchlorate, 1600000, ug/L, 0.25, 200000, 12000, 50000

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

Table row: 5/16/2012, 05/17/2012, 23:24, 653898, (E160.1/SM2540C), Total Dissolved Solids (TDS), 6200, mg/L, 4.2, 10, 4.2, 1

EPA 9040 - PH by EPA 9040

Table row: 05/19/2012, 15:50, 654193, (EPA 9040), PH (H3=past HT not compliant), 7.5, Units, 0.10, 0.1, 0.10, 1

I-B (201205120174)

Sampled on 05/10/2012 1111

EPA 6010 - ICP Metals

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

Rounding on totals after summation.

(c) - Indicates calculated results.

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Laboratory Data  
Report: 396604

### Environ International Corp.

John M. Pekala, P.G.  
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Suite 412  
Phoenix, AZ 85016

Samples Received on:  
05/11/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
5/13/2012	05/22/2012	12:09 654462	(EPA 6010)	Chromium Total ICAP	0.97	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/21/2012	23:38 654575	(EPA 314.0)	Perchlorate	480000	ug/L	0.25	40000	2500	10000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	23:10 653898	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	4200	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	15:57 654193	(EPA 9040)	PH (H3=past HT not compliant)	7.2	Units	0.10	0.1	0.10	1
<b><u>I-AR (201205120175)</u></b>							<b>Sampled on 05/10/2012 1117</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:12 654462	(EPA 6010)	Chromium Total ICAP	1.4	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	03:44 654572	(EPA 314.0)	Perchlorate	2200000 <sub>(R6)</sub>	ug/L	0.25	200000	12000	50000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	23:25 653898	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5100	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	16:01 654193	(EPA 9040)	PH (H3=past HT not compliant)	7.1	Units	0.10	0.1	0.10	1
<b><u>PC-31 (201205120176)</u></b>							<b>Sampled on 05/10/2012 0550</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:25 654462	(EPA 6010)	Chromium Total ICAP	0.0014J	mg/L	0.00044	0.01	0.00044	1
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	04:52 654572	(EPA 314.0)	Perchlorate	16000 <sub>(R6)</sub>	ug/L	0.25	800	50	200
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	23:26 653898	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	5400	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	16:05 654193	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.10	0.1	0.10	1
<b><u>MC-65 (201205120177)</u></b>							<b>Sampled on 05/10/2012 0616</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:15 654462	(EPA 6010)	Chromium Total ICAP	0.12	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	05:14 654572	(EPA 314.0)	Perchlorate	67000 <sub>(R6)</sub>	ug/L	0.25	4000	250	1000

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

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Laboratory Data
Report: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different samples and methods, including Total Dissolved Solid (TDS), EPA 9040 - PH, and Perchlorate Sterile Filtered.

MC-50 (201205120178)

Sampled on 05/10/2012 0706

MC-51 (201205120179)

Sampled on 05/10/2012 0905

MC-69 (201205120180)

Sampled on 05/10/2012 0640

MC-53 (201205120181)

Sampled on 05/10/2012 0737

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

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Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different samples and methods, including Total Dissolved Solid (TDS), Perchlorate, and ICP Metals.

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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### Environ International Corp.

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Phoenix, AZ 85016

Samples Received on:  
05/11/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	08:36 654572	(EPA 314.0)	Perchlorate	1600000 <sub>(R6)</sub>	ug/L	0.25	200000	12000	50000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	21:59 653890	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	15000	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	17:03 654194	(EPA 9040)	PH (H3=past HT not compliant)	7.4	Units	0.10	0.1	0.10	1
<b><u>M-79 (201205120186)</u></b>							<b>Sampled on 05/10/2012 1317</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:47 654462	(EPA 6010)	Chromium Total ICAP	0.63	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	08:58 654572	(EPA 314.0)	Perchlorate	480000 <sub>(R6)</sub>	ug/L	0.25	40000	2500	10000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	22:00 653890	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	4400	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	17:07 654194	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.10	0.1	0.10	1
<b><u>M-69 (201205120187)</u></b>							<b>Sampled on 05/10/2012 1302</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:51 654462	(EPA 6010)	Chromium Total ICAP	0.061	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/25/2012	00:48 655129	(EPA 314.0)	Perchlorate	160000	ug/L	0.25	20000	1200	5000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/16/2012	05/17/2012	23:21 653898	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	3700	mg/L	4.2	10	4.2	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/19/2012	17:11 654194	(EPA 9040)	PH (H3=past HT not compliant)	7.6	Units	0.10	0.1	0.10	1
<b><u>M-57A (201205120188)</u></b>							<b>Sampled on 05/10/2012 1338</b>			
<b>EPA 6010 - ICP Metals</b>										
5/13/2012	05/22/2012	12:54 654462	(EPA 6010)	Chromium Total ICAP	0.061	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	05/22/2012	20:11 654680	(EPA 314.0)	Perchlorate	19000	ug/L	0.25	4000	250	1000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										

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

Rounding on totals after summation.

(c) - Indicates calculated results.

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Laboratory Data
Report: 396604

Environ International Corp.

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

Samples Received on:
05/11/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows of data for various analytes like Total Dissolved Solids (TDS), Chromium Total ICAP, and Perchlorate, with sub-sections for EPA 9040 - PH and EPA 6010 - ICP Metals.

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: 396604

Environ International Corp.

QC Ref # 653066 - Hexavalent Chromium by EPA 7196

201205120190 EB-2

Analysis Date: 05/11/2012

Analyzed by: KXS

QC Ref # 653384 - Total Dissolved Solids (TDS)

201205120161 I-H
201205120162 I-U

Analysis Date: 05/15/2012

Analyzed by: JRF
Analyzed by: JRF

QC Ref # 653890 - Total Dissolved Solids (TDS)

201205120180 MC-69
201205120183 MC-97
201205120184 M-65
201205120185 M-66
201205120186 M-79
201205120188 M-57A
201205120189 M-131
201205120190 EB-2

Analysis Date: 05/17/2012

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

QC Ref # 653898 - Total Dissolved Solids (TDS)

201205120163 I-T
201205120164 I-G
201205120165 I-Q
201205120166 I-F
201205120167 I-E
201205120168 I-M
201205120169 I-D
201205120170 I-C
201205120171 I-S
201205120172 I-L
201205120173 I-R
201205120174 I-B
201205120175 I-AR
201205120176 PC-31
201205120177 MC-65
201205120178 MC-50
201205120179 MC-51
201205120181 MC-53
201205120182 MC-93
201205120187 M-69

Analysis Date: 05/17/2012

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

QC Ref # 654192 - PH (H3=past HT not compliant)

201205120161 I-H
201205120162 I-U

Analysis Date: 05/19/2012

Analyzed by: SFL
Analyzed by: SFL

QC Ref # 654193 - PH (H3=past HT not compliant)

201205120163 I-T
201205120164 I-G
201205120165 I-Q
201205120166 I-F

Analysis Date: 05/19/2012

Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL



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**Laboratory**  
**QC Summary: 396604**

Environ International Corp.

(continued)

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201205120167	I-E	Analyzed by: SFL
201205120168	I-M	Analyzed by: SFL
201205120169	I-D	Analyzed by: SFL
201205120170	I-C	Analyzed by: SFL
201205120171	I-S	Analyzed by: SFL
201205120172	I-L	Analyzed by: SFL
201205120173	I-R	Analyzed by: SFL
201205120174	I-B	Analyzed by: SFL
201205120175	I-AR	Analyzed by: SFL
201205120176	PC-31	Analyzed by: SFL
201205120177	MC-65	Analyzed by: SFL
201205120178	MC-50	Analyzed by: SFL
201205120179	MC-51	Analyzed by: SFL
201205120180	MC-69	Analyzed by: SFL
201205120181	MC-53	Analyzed by: SFL
201205120182	MC-93	Analyzed by: SFL

**QC Ref # 654194 - PH (H3=past HT not compliant)**

201205120183	MC-97	Analyzed by: SFL
201205120184	M-65	Analyzed by: SFL
201205120185	M-66	Analyzed by: SFL
201205120186	M-79	Analyzed by: SFL
201205120187	M-69	Analyzed by: SFL
201205120188	M-57A	Analyzed by: SFL
201205120189	M-131	Analyzed by: SFL
201205120190	EB-2	Analyzed by: SFL

**Analysis Date: 05/19/2012**

**QC Ref # 654461 - ICP Metals**

201205120161	I-H	Analyzed by: NINA
201205120162	I-U	Analyzed by: NINA
201205120163	I-T	Analyzed by: NINA
201205120164	I-G	Analyzed by: NINA
201205120165	I-Q	Analyzed by: NINA
201205120166	I-F	Analyzed by: NINA
201205120167	I-E	Analyzed by: NINA
201205120168	I-M	Analyzed by: NINA

**Analysis Date: 05/21/2012**

**QC Ref # 654462 - ICP Metals**

201205120169	I-D	Analyzed by: NINA
201205120170	I-C	Analyzed by: NINA
201205120171	I-S	Analyzed by: NINA
201205120172	I-L	Analyzed by: NINA
201205120173	I-R	Analyzed by: NINA
201205120174	I-B	Analyzed by: NINA
201205120175	I-AR	Analyzed by: NINA
201205120176	PC-31	Analyzed by: NINA
201205120177	MC-65	Analyzed by: NINA

**Analysis Date: 05/21/2012**



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Laboratory
QC Summary: 396604

Environ International Corp.

(continued)

Table with 3 columns: Sample ID, Sample Name, and Analyzed by. Rows include 201205120181 (MC-53), 201205120184 (M-65), 201205120185 (M-66), 201205120186 (M-79), 201205120187 (M-69), 201205120188 (M-57A), 201205120189 (M-131), and 201205120190 (EB-2).

QC Ref # 654572 - Perchlorate

Table with 3 columns: Sample ID, Sample Name, and Analyzed by. Rows include 201205120175 (I-AR), 201205120176 (PC-31), 201205120177 (MC-65), 201205120182 (MC-93), 201205120183 (MC-97), 201205120185 (M-66), 201205120186 (M-79), 201205120189 (M-131), and 201205120190 (EB-2).

Analysis Date: 05/22/2012

QC Ref # 654575 - Perchlorate

Table with 3 columns: Sample ID, Sample Name, and Analyzed by. Rows include 201205120161 (I-H), 201205120162 (I-U), 201205120163 (I-T), 201205120164 (I-G), 201205120165 (I-Q), 201205120166 (I-F), 201205120167 (I-E), 201205120168 (I-M), 201205120169 (I-D), 201205120170 (I-C), 201205120171 (I-S), 201205120172 (I-L), 201205120173 (I-R), and 201205120174 (I-B).

Analysis Date: 05/21/2012

QC Ref # 654680 - Perchlorate

Table with 3 columns: Sample ID, Sample Name, and Analyzed by. Rows include 201205120178 (MC-50), 201205120179 (MC-51), 201205120184 (M-65), and 201205120188 (M-57A).

Analysis Date: 05/22/2012

QC Ref # 655129 - Perchlorate

Table with 3 columns: Sample ID, Sample Name, and Analyzed by. Rows include 201205120180 (MC-69) and 201205120187 (M-69).

Analysis Date: 05/25/2012

QC Ref # 655483 - Perchlorate

Analysis Date: 05/29/2012



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**Laboratory**  
**QC Summary: 396604**

Environ International Corp.

(continued)

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201205120181

MC-53

Analyzed by: LUPE





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Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 653066 - Hexavalent Chromium by EPA 7196 by EPA 7196</b>						<b>Analysis Date: 05/11/2012</b>			
LCS1	Hexavalent chromium (Cr VI)		0.05	0.0560	mg/L	112	(85-115)		
LCS2	Hexavalent chromium (Cr VI)		0.05	0.0560	mg/L	112	(85-115)		
MBLK	Hexavalent chromium (Cr VI)			<0.005	mg/L				
MRL_CHK	Hexavalent chromium (Cr VI)		0.005	0.00600	mg/L	120	(50-150)		
MS_201205150087	Hexavalent chromium (Cr VI)	2.0	0.05	3.1	mg/L	108	(85-115)		
MSD_201205150087	Hexavalent chromium (Cr VI)	2.0	0.05	3.07	mg/L	104	(85-115)	20	1.3
<b>QC Ref# 653384 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>						<b>Analysis Date: 05/15/2012</b>			
DUP_201205100598	Total Dissolved Solid (TDS)	4200		4170	mg/L		(0-20)	20	1.1
DUP_201205100603	Total Dissolved Solid (TDS)	4400		4400	mg/L		(0-20)	20	0.82
LCS1	Total Dissolved Solid (TDS)		175	180	mg/L	103	(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)		
<b>QC Ref# 653890 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>						<b>Analysis Date: 05/17/2012</b>			
DUP_201205120139	Total Dissolved Solid (TDS)	240		232	mg/L		(0-20)	20	3.4
DUP_201205120146	Total Dissolved Solid (TDS)	540		516	mg/L		(0-20)	20	4.2
LCS1	Total Dissolved Solid (TDS)		175	180	mg/L	103	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	700	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		
<b>QC Ref# 653898 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>						<b>Analysis Date: 05/17/2012</b>			
DUP_201205120174	Total Dissolved Solid (TDS)	4200		4180	mg/L		(0-20)	20	1.2
DUP_201205120187	Total Dissolved Solid (TDS)	3700		3630	mg/L		(0-20)	20	0.88
LCS1	Total Dissolved Solid (TDS)		175	188	mg/L	107	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	720	mg/L	103	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	13.0	mg/L	130	(50-150)		
<b>QC Ref# 654192 - PH (H3=past HT not compliant) by EPA 9040</b>						<b>Analysis Date: 05/19/2012</b>			
DUP_201205100608	PH (H3=past HT not compliant)	7.5		7.52	Units		(0-20)	20	0.40
DUP_201205100598	PH (H3=past HT not compliant)	7.6		7.61	Units		(0-20)	20	0.66
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.17
<b>QC Ref# 654193 - PH (H3=past HT not compliant) by EPA 9040</b>						<b>Analysis Date: 05/19/2012</b>			
DUP_201205120173	PH (H3=past HT not compliant)	7.5		7.53	Units		(0-20)	20	0.13
DUP_201205120163	PH (H3=past HT not compliant)	7.3		7.3	Units		(0-20)	20	0.55

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.



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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
<b>QC Ref# 654194 - PH (H3=past HT not compliant) by EPA 9040</b>						<b>Analysis Date: 05/19/2012</b>			
DUP_201205120183	PH (H3=past HT not compliant)	7.4		7.42	Units		(0-20)	20	0.14
DUP_201205160016	PH (H3=past HT not compliant)	7.8		7.84	Units		(0-20)	20	0.64
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
<b>QC Ref# 654461 - ICP Metals by EPA 6010</b>						<b>Analysis Date: 05/21/2012</b>			
LCS1	Chromium Total ICAP		1.0	1.08	mg/L	108	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.08	mg/L	108	(85-115)	20	0.0
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0110	mg/L	110	(50-150)		
MS_201205090662	Chromium Total ICAP	0.18	1.0	1.15	mg/L	97	(70-130)		
MS2_201205100599	Chromium Total ICAP	ND	1.0	0.966	mg/L	96	(70-130)		
MSD_201205090662	Chromium Total ICAP	0.18	1.0	1.16	mg/L	98	(70-130)	20	0.87
MSD2_201205100599	Chromium Total ICAP	ND	1.0	0.963	mg/L	96	(70-130)	20	0.31
<b>QC Ref# 654462 - ICP Metals by EPA 6010</b>						<b>Analysis Date: 05/21/2012</b>			
LCS1	Chromium Total ICAP		1.0	1.03	mg/L	103	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.06	mg/L	106	(85-115)	20	2.9
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0121	mg/L	121	(50-150)		
MS_201205120172	Chromium Total ICAP	0.67	1.0	1.63	mg/L	96	(70-130)		
MS2_201205120176	Chromium Total ICAP	ND	1.0	0.993	mg/L	99	(70-130)		
MSD_201205120172	Chromium Total ICAP	0.67	1.0	1.67	mg/L	100	(70-130)	20	2.4
MSD2_201205120176	Chromium Total ICAP	ND	1.0	0.960	mg/L	96	(70-130)	20	3.4
<b>QC Ref# 654572 - Perchlorate by EPA 314.0</b>						<b>Analysis Date: 05/22/2012</b>			
LCS1	Perchlorate		25	21.4	ug/L	86	(85-115)		
LCS2	Perchlorate		25	27.0	ug/L	108	(85-115)	15	<u>23</u>
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.03	ug/L	101	(75-125)		
MS_201205120175	Perchlorate	2200000	25	0	ug/L	88	(80-120)		
MSD_201205120175	Perchlorate	2200000	25	0	ug/L	106	(80-120)	15	6.5
<b>QC Ref# 654575 - Perchlorate by EPA 314.0</b>						<b>Analysis Date: 05/21/2012</b>			
LCS1	Perchlorate		25	25.4	ug/L	102	(85-115)		
LCS2	Perchlorate		25	26.5	ug/L	106	(85-115)	15	4.2
MBLK	Perchlorate			<4	ug/L				

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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).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



**MWH**  
**LABORATORIES**  
 A Division of MWH Americas, Inc.

**Laboratory QC**  
**Report: 396604**

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Perchlorate		4.0	4.48	ug/L	112	(75-125)		
MS_201205160002	Perchlorate		25	26.6	ug/L	106	(80-120)		
MSD_201205160002	Perchlorate		25	25.4	ug/L	102	(80-120)	15	4.6
<b>QC Ref# 654680 - Perchlorate by EPA 314.0</b>						<b>Analysis Date: 05/22/2012</b>			
LCS1	Perchlorate		25	24.7	ug/L	99	(85-115)		
LCS2	Perchlorate		25	24.4	ug/L	98	(85-115)	15	1.2
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.23	ug/L	81	(75-125)		
MS_201205150496	Perchlorate	ND	25	46.8	ug/L	94	(80-120)		
MSD_201205150496	Perchlorate	ND	25	50.4	ug/L	101	(80-120)	15	7.4
<b>QC Ref# 655129 - Perchlorate by EPA 314.0</b>						<b>Analysis Date: 05/24/2012</b>			
LCS1	Perchlorate		25	26.6	ug/L	106	(85-115)		
LCS2	Perchlorate		25	24.7	ug/L	99	(85-115)	15	7.4
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.93	ug/L	98	(75-125)		
MS_201205150001	Perchlorate	ND	25	29.3	ug/L	117	(80-120)		
MSD_201205150001	Perchlorate	ND	25	28.2	ug/L	113	(80-120)	15	3.8
<b>QC Ref# 655483 - Perchlorate by EPA 314.0</b>						<b>Analysis Date: 05/29/2012</b>			
LCS1	Perchlorate		25	27.1	ug/L	108	(85-115)		
LCS2	Perchlorate		25	27.6	ug/L	110	(85-115)	15	1.8
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.38	ug/L	85	(75-125)		
MS_201205170315	Perchlorate	ND	25	29.3	ug/L	117	(80-120)		
MSD_201205170315	Perchlorate	ND	25	28.5	ug/L	114	(80-120)	15	2.8

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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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