



**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: 397132  
Project: CWA-RCRA  
Group: Annual Quads

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 #: 397132  
Project: CWA-RCRA  
Sample Group: Annual Quads  
Project Manager: Rita S. Sprinkle  
Phone: 916-418-8358

The following samples were received from you on **May 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 MWH Laboratories.

Sample #	Sample ID	Sample Date
<u>201205180161</u>	H-28A	05/16/2012 0452
	Chloride by EPA 9056	Chromium Total ICAP RCRA
	Manganese Total ICAP RCRA	Perchlorate
	Phenolic Compounds	Sodium Total ICAP RCRA
	Sulfate by EPA 9056	TDS Subbed WLN
	Total Organic Halogen	Iron Total ICAP RCRA
		PH (H3=past HT not compliant)
		Specific Conductance
		Total Organic Carbon
<u>201205180162</u>	H-28A	05/16/2012 0452
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205180163</u>	H-28A	05/16/2012 0452
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205180164</u>	H-28A	05/16/2012 0452
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205180165</u>	M-6A	05/16/2012 0519
	Chloride by EPA 9056	Chromium Total ICAP RCRA
	Manganese Total ICAP RCRA	Perchlorate
	Phenolic Compounds	Sodium Total ICAP RCRA
	Sulfate by EPA 9056	TDS Subbed WLN
	Total Organic Halogen	Iron Total ICAP RCRA
		PH (H3=past HT not compliant)
		Specific Conductance
		Total Organic Carbon
<u>201205180166</u>	M-6A	05/16/2012 0519
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205180167</u>	M-6A	05/16/2012 0519
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205180168</u>	M-6A	05/16/2012 0519
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon

**Test Description**



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Attn: John M. Pekala, P.G.  
Phone: 602.734.7710

Client ID: ENVIRON-NVTRUST  
Folder #: 397132  
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Project Manager: Rita S. Sprinkle  
Phone: 916-418-8358

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The following samples were received from you on **May 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 MWH Laboratories.

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Sample #	Sample ID	Sample Date
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# CHAIN OF CUSTODY RECORD

397132

MONTGOMERY WATSON LABORATORIES

750 Royal Oaks Ave, Suite 100, Menlo Park, CA 94016  
 (626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: JS/JS  
 SAMPLE TEMP, RECEIPT AT LAB: 5.2  
 BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER: REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

COMPANY / PROJECT NAME: Nevada Environmental Response Trust  
 PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling Schedule B CWA-RCRA  
 ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	RAW	COB	IS	TS	CR	CLC	SR	CLC4	CRW	CLC3	NO3	SAMPLER Comments
452A	5-16-12		H-28A	RGW	X		X	X	X	X	X	X	X			20 Bottles
514A	5-16-12		M-6A	RGW	X		X	X	X	X	X	X	X			20 Bottles
555A	5-16-12		M-23	RGW	X		X	X	X	X	X	X	X			4 Bottles
630A	5-16-12		M-123	RGW	X		X	X	X	X	X	X	X			4 Bottles
658A	5-16-12		M-124	RGW	X		X	X	X	X	X	X	X			5 Bottles
720A	5-16-12		M-128	RGW	X		X	X	X	X	X	X	X			4 Bottles
755A	5-16-12		M-125	RGW	X		X	X	X	X	X	X	X			5 Bottles
817A	5-16-12		M-142	RGW	X		X	X	X	X	X	X	X			5 Bottles
852A	5-16-12		M-138	RGW	X		X	X	X	X	X	X	X			5 Bottles
909A	5-16-12		M-137	RGW	X		X	X	X	X	X	X	X			5 Bottles
945A	5-16-12		M-77	RGW	X		X	X	X	X	X	X	X			5 Bottles
	5-16-12		VD-4	RGW	X		X	X	X	X	X	X	X			5 Bottles

\* MATRIX TYPES: CFW = Chlorinated Finished Water, FW = Other Finished Water, RGW = Raw Ground Water, RSW = Raw Surface Water, CHW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water

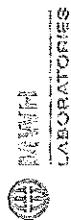
Reported by Volume: Michelle Brown  
 Reported by Weight: Michelle Brown  
 SO = Soil, SL = Sludge

SIGNATURE: Michelle Brown  
 PRINT NAME: Michelle Brown  
 COMPANY/TITLE: MWA  
 DATE: 5-16-12  
 TIME: 12:00PM

RELINQUISHED BY: Michelle Brown  
 RECEIVED BY: Joe Sanchez  
 DATE: 5-17-12  
 TIME: 12:31

# Kit Order for Environ International Corp.

Rita Reeves is Your MWH Labs Project Manager



LABORATORIES  
A Division of MWH Americas, Inc  
750 Royal Oaks Drive Suite 100  
Monrovia, CA 91016 (626) 386-1100 FAX (626) 386-1124

Kit #: 49345  
Created LXC  
Order Date: 04/27/2012  
STG: Bottle Orders

**Sampler: please return  
this paper with your samples**

Client ID: ENVIRON-NVTRUST  
Project Code: CWA-RCRA - Bottle Orders  
Group Name: Annual Quads  
PO#/JOB#:

M-3A-8 M-7B

Ship By:  
04/12/2012

Ship Sample Kits to  
Veolia Water  
510 S. Fourth Street  
Henderson, NV 89015  
  
Attn: Michele Brown  
Phone: 702-467-6299  
Fax:

Send Report to  
Environ International Corp.  
1702 E. Highland Ave.  
Suite 412  
Phoenix, AZ 85016  
  
Attn: John M. Pekala, P.G.  
Phone: 602.734.7710  
Fax: 602.734.7701

Billing Address  
Environ International Corp.  
1702 E. Highland Ave.  
Suite 412  
Phoenix, AZ 85016  
  
Attn: John M. Pekala, P.G.  
Phone: 602.734.7710  
Fax: 602.734.7701

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if any	UN DOT #
4	Chloride by EPA 9056, PH by EPA 9040, Specific Conductance RCRA, Sulfate by EPA 9056	1 125ml poly no preservative	
4	Chromium Total ICAP RCRA, Iron Total ICAP RCRA, Manganese Total ICAP RCRA, Sodium Total ICAP RCRA	1 250ml acid rinsed 1ml HNO3 (18%)	UN2031
4	Perchlorate	1 125ml poly CLO4 - no preservative	
12	PH by EPA 9040, Specific Conductance RCRA	1 125ml poly no preservative	
4	Phenolic Compounds	1 250ml amber glass 1ml H2SO4	UN1830
4	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	
16	Total Organic Carbon RCRA	1 125ml amber glass 0.5ml H2SO4 (50%)	UN1830
16	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

### Comments

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By
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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 17, 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:

Analytical results for TDS are submitted by Western Environmental testing Laboratory Sparks, NV. Please see their case narrative. Sample results on H-28A are flagged D1 for EPA 314. The sample required dilution due to matrix. Sample results for M6A are flagged MD for SW 9060. The MS recovery was low. The associated blank spike recovery was acceptable. The MS/MSD RPD met acceptance criteria.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Rita S. Sprinkle  
Project Manager



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

**Laboratory Comments**  
**Report: #397132**

---

**Group Comments**

Analytical results for TDS are submitted by Western Environmental testing Laboratory Sparks, NV. Please see their case narrative. Sample results on H-28A are flagged D1 for EPA 314. The sample required dilution due to matrix. Sample results for M6A are flagged MD for SW 9060. The MS recovery was low. The associated blank spike recovery was acceptable. The MS/MSD RPD met acceptance criteria.

**Flags Legend:**

D1 - Sample required dilution due to matrix.

MD - Matrix spike recovery was low; the associated blank spike recovery was acceptable. MS/MSD RPD met acceptance criteria.





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Laboratory Data
Report: 397132

Environ International Corp.

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

Samples Received on:
05/17/2012

Prepared Analyzed QC Ref # Method Analyte Result Units MDL MRL SQL Dilution

H-28A (201205180161)

Sampled on 05/16/2012 0452

SM 2540C - TDS Subbed WLN

05/23/2012 00:00 (SM 2540C) Total Dissolved Solids 8800 mg/L 10 1

EPA 6010 - ICP Metals

5/18/2012 06/08/2012 16:16 654859 (EPA 6010) Chromium Total ICAP 0.053 mg/L 0.00044 0.05 0.0022 5
5/18/2012 06/08/2012 16:16 654859 (EPA 6010) Iron Total ICAP 22 mg/L 0.0050 0.1 0.025 5
5/18/2012 06/08/2012 16:16 654859 (EPA 6010) Manganese Total ICAP 2.4 mg/L 0.0010 0.01 0.0050 5
5/18/2012 06/08/2012 15:47 654859 (EPA 6010) Sodium Total ICAP 1500 mg/L 0.11 10 1.1 10

SW 9060 - Total Organic Carbon RCRA

05/26/2012 10:04 655308 (SW 9060) Total Organic Carbon 3.6 mg/L 0.042 0.3 0.042 1

SW9020/SM5320 - Total Organic Halogen

5/25/2012 05/25/2012 16:20 655433 (SW9020/SM5320) Total Organic Halides Average 6700 ug/L 1.1 2500 280 250
5/25/2012 05/25/2012 16:20 655433 (SW9020/SM5320) Total Organic Halides Rep 1 6300 ug/L 1.1 2500 280 250
5/25/2012 05/25/2012 16:20 655433 (SW9020/SM5320) Total Organic Halides Rep 2 7100 ug/L 1.1 2500 280 250

EPA 9056 - Chloride, Sulfate by EPA 300.0

05/30/2012 19:51 655970 (EPA 9056) Chloride 4400 mg/L 0.025 500 12 500
05/30/2012 19:51 655970 (EPA 9056) Sulfate 1300 mg/L 0.060 250 30 500

EPA 314.0 - Perchlorate

06/04/2012 17:44 656555 (EPA 314.0) Perchlorate ND(D1) ug/L 0.25 4000 250 1000

MWH 420/SW9066 - Phenolic Compounds

6/2/2012 06/02/2012 08:25 656272 (MWH 420/SW9066) Phenolic Compounds 0.028 mg/L 0.0030 0.01 0.0030 1

EPA 9040 - PH by EPA 9040

05/20/2012 16:33 654243 (EPA 9040) PH (H3=past HT not compliant) 7.4 Units 0.10 0.1 0.10 1

SW 9050 - Specific Conductance RCRA

05/20/2012 16:33 654229 (SW 9050) Specific Conductance, 25 C 14000 umho/cm 0.51 2 0.51 1

H-28A (201205180162)

Sampled on 05/16/2012 0452

SW 9060 - Total Organic Carbon RCRA

05/26/2012 10:29 655308 (SW 9060) Total Organic Carbon 4.0 mg/L 0.042 0.3 0.042 1

SW9020/SM5320 - Total Organic Halogen

5/25/2012 05/25/2012 17:06 655433 (SW9020/SM5320) Total Organic Halides Average 6300 ug/L 1.1 2500 280 250
5/25/2012 05/25/2012 17:06 655433 (SW9020/SM5320) Total Organic Halides Rep 1 5900 ug/L 1.1 2500 280 250

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: 397132

Environ International Corp.

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

Samples Received on:
05/17/2012

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 Organic Halides, PH, Specific Conductance, and Total Organic Carbon.

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: 397132

### Environ International Corp.

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

Samples Received on:  
05/17/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
<b>EPA 6010 - ICP Metals</b>										
5/18/2012	06/08/2012	16:19 654859	(EPA 6010)	Chromium Total ICAP	0.0084J	mg/L	0.00044	0.02	0.00088	2
5/18/2012	06/08/2012	16:19 654859	(EPA 6010)	Iron Total ICAP	1.3	mg/L	0.0050	0.04	0.010	2
5/18/2012	06/08/2012	16:19 654859	(EPA 6010)	Manganese Total ICAP	0.41	mg/L	0.0010	0.004	0.0020	2
5/18/2012	06/08/2012	15:58 654859	(EPA 6010)	Sodium Total ICAP	1300	mg/L	0.11	10	1.1	10
<b>SW 9060 - Total Organic Carbon RCRA</b>										
	05/26/2012	11:43 655308	(SW 9060)	Total Organic Carbon	0.90(MD)	mg/L	0.042	0.3	0.042	1
<b>SW9020/SM5320 - Total Organic Halogen</b>										
5/28/2012	05/28/2012	19:39 655457	(SW9020/SM5320)	Total Organic Halides Average	990	ug/L	1.1	250	28	25
5/28/2012	05/28/2012	19:39 655457	(SW9020/SM5320)	Total Organic Halides Rep 1	960	ug/L	1.1	250	28	25
5/28/2012	05/28/2012	19:39 655457	(SW9020/SM5320)	Total Organic Halides Rep 2	1000	ug/L	1.1	250	28	25
<b>EPA 9056 - Chloride, Sulfate by EPA 300.0</b>										
	05/30/2012	19:38 655970	(EPA 9056)	Chloride	3200	mg/L	0.025	100	2.5	100
	05/30/2012	19:38 655970	(EPA 9056)	Sulfate	1200	mg/L	0.060	50	6.0	100
<b>EPA 314.0 - Perchlorate</b>										
	05/31/2012	11:58 656005	(EPA 314.0)	Perchlorate	12000	ug/L	0.25	2000	120	500
<b>MWH 420/SW9066 - Phenolic Compounds</b>										
6/2/2012	06/02/2012	08:26 656272	(MWH 420/SW9066)	Phenolic Compounds	ND	mg/L	0.0030	0.01	0.0030	1
<b>EPA 9040 - PH by EPA 9040</b>										
	05/20/2012	17:26 654244	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.10	0.1	0.10	1
<b>SW 9050 - Specific Conductance RCRA</b>										
	05/20/2012	17:26 654230	(SW 9050)	Specific Conductance, 25 C	10000	umho/cm	0.51	2	0.51	1
<b><u>M-6A (201205180166)</u></b>							<b>Sampled on 05/16/2012 0519</b>			
<b>SW 9060 - Total Organic Carbon RCRA</b>										
	05/26/2012	15:31 655309	(SW 9060)	Total Organic Carbon	0.75	mg/L	0.042	0.3	0.042	1
<b>SW9020/SM5320 - Total Organic Halogen</b>										
5/28/2012	05/29/2012	21:48 655632	(SW9020/SM5320)	Total Organic Halides Average	1200	ug/L	1.1	500	55	50
5/28/2012	05/29/2012	21:48 655632	(SW9020/SM5320)	Total Organic Halides Rep 1	1200	ug/L	1.1	500	55	50
5/28/2012	05/29/2012	21:48 655632	(SW9020/SM5320)	Total Organic Halides Rep 2	1300	ug/L	1.1	500	55	50
<b>EPA 9040 - PH by EPA 9040</b>										
	05/20/2012	17:31 654244	(EPA 9040)	PH (H3=past HT not compliant)	7.7	Units	0.10	0.1	0.10	1

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

Rounding on totals after summation.

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Laboratory Data
Report: 397132

Environ International Corp.

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

Samples Received on:
05/17/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different analytes like Specific Conductance, Total Organic Carbon, and Total Organic Halogen.

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: 397132**

Environ International Corp.

---

**QC Ref # 654229 - Specific Conductance**

201205180161 H-28A  
201205180162 H-28A

**Analysis Date: 05/20/2012**

Analyzed by: SFL  
Analyzed by: SFL

**QC Ref # 654230 - Specific Conductance**

201205180163 H-28A  
201205180164 H-28A  
201205180165 M-6A  
201205180166 M-6A  
201205180167 M-6A  
201205180168 M-6A

**Analysis Date: 05/20/2012**

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

**QC Ref # 654243 - PH (H3=past HT not compliant)**

201205180161 H-28A  
201205180162 H-28A

**Analysis Date: 05/20/2012**

Analyzed by: SFL  
Analyzed by: SFL

**QC Ref # 654244 - PH (H3=past HT not compliant)**

201205180163 H-28A  
201205180164 H-28A  
201205180165 M-6A  
201205180166 M-6A  
201205180167 M-6A  
201205180168 M-6A

**Analysis Date: 05/20/2012**

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

**QC Ref # 654859 - ICP Metals**

201205180161 H-28A  
201205180161 H-28A  
201205180165 M-6A  
201205180165 M-6A

**Analysis Date: 06/08/2012**

Analyzed by: NINA  
Analyzed by: NINA  
Analyzed by: NINA  
Analyzed by: NINA

**QC Ref # 655308 - Total Organic Carbon**

201205180161 H-28A  
201205180162 H-28A  
201205180163 H-28A  
201205180164 H-28A  
201205180165 M-6A

**Analysis Date: 05/26/2012**

Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH

**QC Ref # 655309 - Total Organic Carbon**

201205180166 M-6A  
201205180167 M-6A  
201205180168 M-6A

**Analysis Date: 05/26/2012**

Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH

**QC Ref # 655433 - Total Organic Halides**

201205180161 H-28A  
201205180162 H-28A  
201205180163 H-28A  
201205180164 H-28A

**Analysis Date: 05/25/2012**

Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH  
Analyzed by: MYH

**QC Ref # 655457 - Total Organic Halides**

**Analysis Date: 05/28/2012**



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Laboratory  
QC Summary: 397132

Environ International Corp.

(continued)

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201205180165	M-6A	Analyzed by: MYH
201205180166	M-6A	Analyzed by: MYH
201205180167	M-6A	Analyzed by: MYH
201205180168	M-6A	Analyzed by: MYH

**QC Ref # 655632 - Total Organic Halides**

201205180166	M-6A	Analyzed by: MYH
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**Analysis Date: 05/29/2012**

**QC Ref # 655970 - Chloride, Sulfate by EPA 300.0**

201205180161	H-28A	Analyzed by: CYP
201205180165	M-6A	Analyzed by: CYP

**Analysis Date: 05/30/2012**

**QC Ref # 656005 - Perchlorate**

201205180165	M-6A	Analyzed by: LUPE
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**Analysis Date: 05/31/2012**

**QC Ref # 656272 - Phenolic Compounds**

201205180161	H-28A	Analyzed by: MCE
201205180165	M-6A	Analyzed by: MCE

**Analysis Date: 06/02/2012**

**QC Ref # 656555 - Perchlorate**

201205180161	H-28A	Analyzed by: LUPE
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**Analysis Date: 06/04/2012**



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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 654229 - Specific Conductance by SW 9050</b>					<b>Analysis Date: 05/20/2012</b>				
DUP1_201205200004	Specific Conductance	15000		15500	umho/cm		(0-20)	20	1.3
DUP1_201205200003	Specific Conductance	5200		5310	umho/cm		(0-20)	20	1.3
LCS1	Specific Conductance		1000	994	umho/cm	99	(95-105)		
LCS2	Specific Conductance		1000	995	umho/cm	100	(95-105)	20	0.10
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance	2.0		2.00	umho/cm	100	(50-150)		
<b>QC Ref# 654230 - Specific Conductance by SW 9050</b>					<b>Analysis Date: 05/20/2012</b>				
DUP1_201205180163	Specific Conductance	14000		14000	umho/cm		(0-20)	20	1.5
DUP1_201205200005	Specific Conductance	18000		18000	umho/cm		(0-20)	20	1.3
LCS1	Specific Conductance		1000	989	umho/cm	99	(95-105)		
LCS2	Specific Conductance		1000	987	umho/cm	99	(95-105)	20	0.20
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance	2.0		2.00	umho/cm	100	(50-150)		
<b>QC Ref# 654243 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 05/20/2012</b>				
DUP_201205170195	PH (H3=past HT not compliant)	7.7		7.71	Units		(0-20)	20	0.26
DUP_201205170205	PH (H3=past HT not compliant)	7.4		7.46	Units		(0-20)	20	0.54
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# 654244 - PH (H3=past HT not compliant) by EPA 9040</b>					<b>Analysis Date: 05/20/2012</b>				
DUP_201205180173	PH (H3=past HT not compliant)	7.4		7.41	Units		(0-20)	20	0.14
DUP_201205180163	PH (H3=past HT not compliant)	7.4		7.36	Units		(0-20)	20	0.41
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# 654859 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 06/08/2012</b>				
LCS1	Chromium Total ICAP		1.0	1.04	mg/L	104	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.04	mg/L	104	(85-115)	20	0.0
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0120	mg/L	120	(50-150)		
MS_201205190118	Chromium Total ICAP	ND	1.0	0.995	mg/L	99	(70-130)		
MS2_201205240130	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)		
MSD_201205190118	Chromium Total ICAP	ND	1.0	0.982	mg/L	98	(70-130)	20	1.3
MSD2_201205240130	Chromium Total ICAP	ND	1.0	0.991	mg/L	99	(70-130)	20	1.9
LCS1	Iron Total ICAP		5.0	5.14	mg/L	103	(85-115)		
LCS2	Iron Total ICAP		5.0	5.16	mg/L	103	(85-115)	20	0.39
MBLK	Iron Total ICAP			<0.02	mg/L				

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%
MRL_CHK	Iron Total ICAP		0.02	0.0232	mg/L	116	(50-150)		
MS_201205190118	Iron Total ICAP	0.053	5.0	5.11	mg/L	101	(70-130)		
MS2_201205240130	Iron Total ICAP	ND	5.0	5.16	mg/L	103	(70-130)		
MSD_201205190118	Iron Total ICAP	0.053	5.0	5.05	mg/L	100	(70-130)	20	1.2
MSD2_201205240130	Iron Total ICAP	ND	5.0	5.08	mg/L	101	(70-130)	20	1.6
LCS1	Manganese Total ICAP		0.5	0.536	mg/L	107	(85-115)		
LCS2	Manganese Total ICAP		0.5	0.534	mg/L	107	(85-115)	20	0.37
MBLK	Manganese Total ICAP			<0.002	mg/L				
MRL_CHK	Manganese Total ICAP		0.002	0.00225	mg/L	113	(50-150)		
MS_201205190118	Manganese Total ICAP	0.015	0.5	0.541	mg/L	105	(70-130)		
MS2_201205240130	Manganese Total ICAP	1.3	0.5	1.81	mg/L	111	(70-130)		
MSD_201205190118	Manganese Total ICAP	0.015	0.5	0.534	mg/L	104	(70-130)	20	1.3
MSD2_201205240130	Manganese Total ICAP	1.3	0.5	1.78	mg/L	104	(70-130)	20	1.7
LCS1	Sodium Total ICAP		50	51.9	mg/L	104	(85-115)		
LCS2	Sodium Total ICAP		50	52.2	mg/L	104	(85-115)	20	0.58
MBLK	Sodium Total ICAP			<1	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.14	mg/L	114	(50-150)		
MS_201205190118	Sodium Total ICAP		50	318	mg/L	86	(70-130)		
MSD_201205190118	Sodium Total ICAP		50	318	mg/L	87	(70-130)	20	0.0

**QC Ref# 655308 - Total Organic Carbon by SW 9060**

**Analysis Date: 05/25/2012**

LCS1	Total Organic Carbon		5.0	4.96	mg/L	99	(90-110)		
LCS2	Total Organic Carbon		5.0	5.09	mg/L	102	(90-110)	20	2.8
MBLK	Total Organic Carbon			<0.3	mg/L				
MRL_CHK	Total Organic Carbon		0.2	0.260	mg/L	130	(50-150)		
MS_201205250449	Total Organic Carbon	0.51	4.0	4.59	mg/L	102	(80-120)		
MS2_201205180165	Total Organic Carbon	0.90	2.0	2.1	mg/L	<b>60</b>	(80-120)		
MSD_201205250449	Total Organic Carbon	0.51	4.0	4.67	mg/L	104	(80-120)	20	1.5
MSD2_201205180165	Total Organic Carbon	0.90	2.0	2.1	mg/L	<b>60</b>	(80-120)	20	0.48

**QC Ref# 655309 - Total Organic Carbon by SW 9060**

**Analysis Date: 05/26/2012**

LCS1	Total Organic Carbon		5.0	5.01	mg/L	100	(90-110)		
LCS2	Total Organic Carbon		5.0	5.13	mg/L	102	(90-110)	20	2.2
MBLK	Total Organic Carbon			<0.3	mg/L				
MRL_CHK	Total Organic Carbon		0.2	0.276	mg/L	138	(50-150)		
MS_201205250450	Total Organic Carbon	1.0	4.0	5.14	mg/L	102	(80-120)		
MSD_201205250450	Total Organic Carbon	1.0	4.0	5.21	mg/L	104	(80-120)	20	1.2

**QC Ref# 655433 - Total Organic Halides by SW9020/SM5320**

**Analysis Date: 05/25/2012**

LCS1	Total Organic Halides Rep 1		50	48.3	ug/L	97	(85-115)		
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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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Laboratory QC  
Report: 397132

Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Total Organic Halides Rep 1		200	194	ug/L	97	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	4.8	ug/L	96	(50-150)		
MS_201205170192	Total Organic Halides Rep 1	1800	50	4770	ug/L	<u>120</u>	(90-110)		
MSD_201205170192	Total Organic Halides Rep 1	1800	50	4750	ug/L	<u>119</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	4.95	ug/L	99	(97-103)		
LCS1	Total Organic Halides Rep 2		50	47.7	ug/L	96	(85-115)		
LCS2	Total Organic Halides Rep 2		200	195	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	4.86	ug/L	97	(50-150)		
MS_201205170192	Total Organic Halides Rep 2	1800	50	4770	ug/L	<u>119</u>	(90-110)		
MSD_201205170192	Total Organic Halides Rep 2	1800	50	4750	ug/L	<u>119</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	4.95	ug/L	99	(97-103)		

### QC Ref# 655457 - Total Organic Halides by SW9020/SM5320

Analysis Date: 05/28/2012

LCS1	Total Organic Halides Rep 1		50	55.2	ug/L	110	(85-115)		
LCS2	Total Organic Halides Rep 1		200	200	ug/L	100	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	2.69	ug/L	54	(50-150)		
MS_201205290019	Total Organic Halides Rep 1	ND	50	276	ug/L	103	(90-110)		
MSD_201205290019	Total Organic Halides Rep 1	ND	50	270	ug/L	101	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.03	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	49.2	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	195	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	2.56	ug/L	51	(50-150)		
MS_201205290019	Total Organic Halides Rep 2	ND	50	276	ug/L	110	(90-110)		
MSD_201205290019	Total Organic Halides Rep 2	ND	50	270	ug/L	108	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.03	ug/L	101	(97-103)		

### QC Ref# 655632 - Total Organic Halides by SW9020/SM5320

Analysis Date: 05/29/2012

LCS1	Total Organic Halides Rep 1		50	53.1	ug/L	106	(85-115)		
LCS2	Total Organic Halides Rep 1		200	188	ug/L	94	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	3.75	ug/L	75	(50-150)		
MS_201205290186	Total Organic Halides Rep 1	ND	50	272	ug/L	109	(90-110)		
MSD_201205290186	Total Organic Halides Rep 1	ND	50	270	ug/L	108	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.06	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.8	ug/L	98	(85-115)		

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.

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Laboratory QC  
Report: 397132

Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Total Organic Halides Rep 2		200	192	ug/L	96	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	4.67	ug/L	93	(50-150)		
MS_201205290186	Total Organic Halides Rep 2	ND	50	272	ug/L	109	(90-110)		
MSD_201205290186	Total Organic Halides Rep 2	ND	50	270	ug/L	108	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		

### QC Ref# 655970 - Chloride, Sulfate by EPA 300.0 by EPA 9056

Analysis Date: 05/30/2012

LCS1	Chloride		25	25.4	mg/L	102	(90-110)		
LCS2	Chloride		25	24.6	mg/L	99	(90-110)	20	3.2
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.397	mg/L	79	(50-150)		
MS_201205310256	Chloride	84	13	150	mg/L	104	(80-120)		
MSD_201205310256	Chloride	84	13	150	mg/L	105	(80-120)	20	0.0
LCS1	Sulfate		50	50.8	mg/L	102	(90-110)		
LCS2	Sulfate		50	49.2	mg/L	98	(90-110)	20	3.2
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.866	mg/L	87	(50-150)		
MRLLW	Sulfate		0.25	0.230	mg/L	92	(50-150)		
MS_201205310256	Sulfate	230	25	355	mg/L	102	(80-120)		
MSD_201205310256	Sulfate	230	25	356	mg/L	102	(80-120)	20	0.28

### QC Ref# 656005 - Perchlorate by EPA 314.0

Analysis Date: 05/31/2012

LCS1	Perchlorate		25	27.9	ug/L	111	(85-115)		
LCS2	Perchlorate		25	27.4	ug/L	110	(85-115)	15	1.8
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.65	ug/L	91	(75-125)		
MS_201205190123	Perchlorate	32000	25	57300	ug/L	102	(80-120)		
MSD_201205190123	Perchlorate	32000	25	54700	ug/L	91	(80-120)	15	4.6

### QC Ref# 656272 - Phenolic Compounds by MWH 420/SW9066

Analysis Date: 06/02/2012

LCS1	Phenolic Compounds		0.08	0.0736	mg/L	92	(90-110)		
LCS2	Phenolic Compounds		0.08	0.0789	mg/L	99	(90-110)	20	7.0
MBLK	Phenolic Compounds			<0.01	mg/L				
MS_201205170483	Phenolic Compounds	ND	0.08	0.0810	mg/L	101	(90-110)		
MSD_201205170483	Phenolic Compounds	ND	0.08	0.0805	mg/L	101	(90-110)	20	0.62
RLLow	Phenolic Compounds		0.005	0.00493	mg/L	99	(50-150)		

### QC Ref# 656555 - Perchlorate by EPA 314.0

Analysis Date: 06/04/2012

LCS1	Perchlorate		25	26.6	ug/L	106	(85-115)		
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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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Laboratory QC  
Report: 397132

### Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perchlorate		25	26.5	ug/L	106	(85-115)	15	0.38
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.72	ug/L	93	(75-125)		
MS_201205220010	Perchlorate	ND	25	31.4	ug/L	112	(80-120)		
MSD_201205220010	Perchlorate	ND	25	32.0	ug/L	114	(80-120)	15	1.9

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.