

**Environmental Conservation Laboratories, Inc.**

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www.encolabs.com

Friday, March 23, 2012

Angelo's Recycled Materials (AN010)

Attn: John Arnold

4111 Enterprise Road

Dade City, FL 33525

**RE: Laboratory Results for**

**Project Number: 87895, Project Name/Desc: ENTERPRISE LF & RECYC**

**ENCO Workorder(s): A201425**

Dear John Arnold,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, March 15, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, reading "Marcia Colon".

Marcia Colon

Project Manager

Enclosure(s)



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### SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EP-1	Lab ID: A201425-01	Sampled: 03/14/12 14:52	Received: 03/15/12 14:17
Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	03/16/12	14:52	03/16/12 01:28	3/16/2012 07:00
EPA 300.0	04/11/12		03/16/12 01:28	3/16/2012 07:00
EPA 350.1	04/11/12		03/21/12 08:00	3/21/2012 12:25
EPA 6020A	09/10/12		03/16/12 12:51	3/20/2012 17:42
EPA 7470A	04/11/12		03/19/12 11:49	3/20/2012 08:28
EPA 8011	03/28/12	04/03/12	03/20/12 08:06	3/20/2012 13:41
EPA 8260B	03/28/12		03/19/12 15:05	3/20/2012 09:42
SM18 2540C	03/21/12		03/18/12 06:10	3/19/2012 22:17



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**SAMPLE DETECTION SUMMARY**

Client ID: EP-1		Lab ID: A201425-01					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloride	3.0	I	0.29	5.0	mg/L	EPA 300.0	
Nitrate as N	0.75	I	0.052	1.0	mg/L	EPA 300.0	J
Sodium - Total	0.496	I	0.320	1.00	mg/L	EPA 6020A	
Total Dissolved Solids	32		10	10	mg/L	SM18 2540C	



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**ANALYTICAL RESULTS****Description:** EP-1**Lab Sample ID:** A201425-01**Received:** 03/15/12 14:17**Matrix:** Ground Water**Sampled:** 03/14/12 14:52**Work Order:** A201425**Project:** ENTERPRISE LF & RECYC**Sampled By:** Chris Monaco**Volatile Organic Compounds by GCMS**

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.50	U	ug/L	1	0.50	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,1,1-Trichloroethane [71-55-6] ^	0.59	U	ug/L	1	0.59	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.54	U	ug/L	1	0.54	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,1,2-Trichloroethane [79-00-5] ^	0.63	U	ug/L	1	0.63	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,1-Dichloroethane [75-34-3] ^	0.57	U	ug/L	1	0.57	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,1-Dichloroethene [75-35-4] ^	0.94	U	ug/L	1	0.94	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,2,3-Trichloropropane [96-18-4] ^	0.64	U	ug/L	1	0.64	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,2-Dichlorobenzene [95-50-1] ^	0.57	U	ug/L	1	0.57	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,2-Dichloroethane [107-06-2] ^	0.50	U	ug/L	1	0.50	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,2-Dichloropropane [78-87-5] ^	0.80	U	ug/L	1	0.80	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
1,4-Dichlorobenzene [106-46-7] ^	0.46	U	ug/L	1	0.46	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
2-Butanone [78-93-3] ^	4.5	U	ug/L	1	4.5	5.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
2-Hexanone [591-78-6] ^	1.4	U	ug/L	1	1.4	5.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
4-Methyl-2-pentanone [108-10-1] ^	2.8	U	ug/L	1	2.8	5.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Acetone [67-64-1] ^	1.8	U	ug/L	1	1.8	5.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Acrylonitrile [107-13-1] ^	3.2	U	ug/L	1	3.2	10	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Benzene [71-43-2] ^	0.58	U	ug/L	1	0.58	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Bromochloromethane [74-97-5] ^	0.94	U	ug/L	1	0.94	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Bromodichloromethane [75-27-4] ^	0.49	U	ug/L	1	0.49	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Bromoform [75-25-2] ^	0.75	U	ug/L	1	0.75	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Bromomethane [74-83-9] ^	0.95	U	ug/L	1	0.95	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Carbon disulfide [75-15-0] ^	1.9	U	ug/L	1	1.9	5.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Carbon tetrachloride [56-23-5] ^	0.65	U	ug/L	1	0.65	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Chlorobenzene [108-90-7] ^	0.51	U	ug/L	1	0.51	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Chloroethane [75-00-3] ^	0.98	U	ug/L	1	0.98	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Chloroform [67-66-3] ^	0.54	U	ug/L	1	0.54	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Chloromethane [74-87-3] ^	0.82	U	ug/L	1	0.82	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
cis-1,2-Dichloroethene [156-59-2] ^	0.49	U	ug/L	1	0.49	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
cis-1,3-Dichloropropene [10061-01-5] ^	0.59	U	ug/L	1	0.59	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Dibromochloromethane [124-48-1] ^	0.44	U	ug/L	1	0.44	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Dibromomethane [74-95-3] ^	0.44	U	ug/L	1	0.44	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Ethylbenzene [100-41-4] ^	0.69	U	ug/L	1	0.69	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Iodomethane [74-88-4] ^	0.51	U	ug/L	1	0.51	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
m,p-Xylenes [108-38-3/106-42-3] ^	1.3	U	ug/L	1	1.3	2.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Methylene chloride [75-09-2] ^	0.69	U	ug/L	1	0.69	2.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
o-Xylene [95-47-6] ^	0.53	U	ug/L	1	0.53	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Styrene [100-42-5] ^	0.49	U	ug/L	1	0.49	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Tetrachloroethene [127-18-4] ^	0.76	U	ug/L	1	0.76	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Toluene [108-88-3] ^	0.58	U	ug/L	1	0.58	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
trans-1,2-Dichloroethene [156-60-5] ^	0.72	U	ug/L	1	0.72	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
trans-1,3-Dichloropropene [10061-02-6] ^	0.64	U	ug/L	1	0.64	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.79	U	ug/L	1	0.79	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Trichloroethene [79-01-6] ^	0.55	U	ug/L	1	0.55	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Trichlorofluoromethane [75-69-4] ^	0.68	U	ug/L	1	0.68	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Vinyl acetate [108-05-4] ^	0.60	U	ug/L	1	0.60	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Vinyl chloride [75-01-4] ^	0.71	U	ug/L	1	0.71	1.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U
Xylenes (Total) [1330-20-7] ^	1.3	U	ug/L	1	1.3	3.0	2C19027	EPA 8260B	03/20/12 09:42	kat	U



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Description: EP-1

Lab Sample ID: A201425-01

Received: 03/15/12 14:17

Matrix: Ground Water

Sampled: 03/14/12 14:52

Work Order: A201425

Project: ENTERPRISE LF & RECYC

Sampled By: Chris Monaco

## Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
<b>Surrogates</b>	<b>Results</b>	<b>DF</b>	<b>Spike Lvl</b>	<b>% Rec</b>	<b>% Rec Limits</b>		<b>Batch</b>	<b>Method</b>	<b>Analyzed</b>	<b>By</b>	<b>Notes</b>
4-Bromofluorobenzene	44	1	50.0	87 %	41-142		2C19027	EPA 8260B	03/20/12 09:42	kat	
Dibromofluoromethane	39	1	50.0	77 %	53-146		2C19027	EPA 8260B	03/20/12 09:42	kat	
Toluene-d8	41	1	50.0	83 %	41-146		2C19027	EPA 8260B	03/20/12 09:42	kat	



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Description: EP-1

Matrix: Ground Water

Project: ENTERPRISE LF & RECYC

Lab Sample ID: A201425-01

Sampled: 03/14/12 14:52

Sampled By: Chris Monaco

Received: 03/15/12 14:17

Work Order: A201425

### Semivolatile Organic Compounds by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.004	U	ug/L	1	0.004	0.020	2C20004	EPA 8011	03/20/12 13:41	JJB	QV-01, U
1,2-Dibromoethane [106-93-4] ^	0.003	U	ug/L	1	0.003	0.020	2C20004	EPA 8011	03/20/12 13:41	JJB	U

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane	0.26	1	0.250	106 %	70-130	2C20004	EPA 8011	03/20/12 13:41	JJB	



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**Description:** EP-1

**Lab Sample ID:** A201425-01

**Received:** 03/15/12 14:17

**Matrix:** Ground Water

**Sampled:** 03/14/12 14:52

**Work Order:** A201425

**Project:** ENTERPRISE LF & RECYC

**Sampled By:** Chris Monaco

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### Metals by EPA 6000/7000 Series Methods

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^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte</u> [ <u>CAS Number</u> ]	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Mercury [7439-97-6] ^	0.0230	U	ug/L	1	0.0230	0.200	2C16019	EPA 7470A	03/20/12 08:28	IR	



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Description: EP-1

Lab Sample ID: A201425-01

Received: 03/15/12 14:17

Matrix: Ground Water

Sampled: 03/14/12 14:52

Work Order: A201425

Project: ENTERPRISE LF & RECYC

Sampled By: Chris Monaco

# **Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	1.10	U	ug/L	1	1.10	20.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Arsenic [7440-38-2] ^	6.10	U	ug/L	1	6.10	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Barium [7440-39-3] ^	20.0	U	ug/L	1	20.0	100	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Beryllium [7440-41-7] ^	0.940	U	ug/L	1	0.940	1.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Cadmium [7440-43-9] ^	1.10	U	ug/L	1	1.10	3.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Chromium [7440-47-3] ^	4.50	U	ug/L	1	4.50	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Cobalt [7440-48-4] ^	2.10	U	ug/L	1	2.10	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Copper [7440-50-8] ^	2.20	U	ug/L	1	2.20	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Iron [7439-89-6] ^	38.0	U	ug/L	1	38.0	50.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	5.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Nickel [7440-02-0] ^	3.20	U	ug/L	1	3.20	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Selenium [7782-49-2] ^	6.50	U	ug/L	1	6.50	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Silver [7440-22-4] ^	0.290	U	ug/L	1	0.290	1.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Sodium [7440-23-5] ^	0.496	I	mg/L	1	0.320	1.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Thallium [7440-28-0] ^	0.580	U	ug/L	1	0.580	1.00	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Vanadium [7440-62-2] ^	2.00	U	ug/L	1	2.00	10.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	
Zinc [7440-66-6] ^	16.0	U	ug/L	1	16.0	50.0	2C16013	EPA 6020A	03/20/12 17:42	JMA	





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**Description:** EP-1

**Matrix:** Ground Water

**Project:** ENTERPRISE LF & RECYC

**Lab Sample ID:** A201425-01

**Sampled:** 03/14/12 14:52

**Sampled By:** Chris Monaco

**Received:** 03/15/12 14:17

**Work Order:** A201425

### Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NELAC E83182]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7] ^	0.0073	U	mg/L	1	0.0073	0.020	2C21009	EPA 350.1	03/21/12 12:25	KGonz	U
Chloride [16887-00-6]	3.0	I	mg/L	1	0.29	5.0	2C15002	EPA 300.0	03/16/12 07:00	RSA	
Nitrate as N [14797-55-8]	0.75	I	mg/L	1	0.052	1.0	2C15002	EPA 300.0	03/16/12 07:00	RSA	J
Total Dissolved Solids [ECL-0156] ^	32		mg/L	1	10	10	2C18001	SM18 2540C	03/19/12 22:17	AH	

# QUALITY CONTROL

## Volatile Organic Compounds by GCMS - Quality Control

Batch 2C19027 - EPA 5030B\_MS

Blank (2C19027-BLK1)

Prepared: 03/19/2012 15:05 Analyzed: 03/20/2012 03:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.50	U	1.0	ug/L							U
1,1,1-Trichloroethane	0.59	U	1.0	ug/L							U
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							U
1,1,2-Trichloroethane	0.63	U	1.0	ug/L							U
1,1-Dichloroethane	0.57	U	1.0	ug/L							U
1,1-Dichloroethene	0.94	U	1.0	ug/L							U
1,2,3-Trichloropropane	0.64	U	1.0	ug/L							U
1,2-Dichlorobenzene	0.57	U	1.0	ug/L							U
1,2-Dichloroethane	0.50	U	1.0	ug/L							U
1,2-Dichloropropane	0.80	U	1.0	ug/L							U
1,4-Dichlorobenzene	0.46	U	1.0	ug/L							U
2-Butanone	4.5	U	5.0	ug/L							U
2-Hexanone	1.4	U	5.0	ug/L							U
4-Methyl-2-pentanone	2.8	U	5.0	ug/L							U
Acetone	1.8	U	5.0	ug/L							U
Acrylonitrile	3.2	U	10	ug/L							U
Benzene	0.58	U	1.0	ug/L							U
Bromochloromethane	0.94	U	1.0	ug/L							U
Bromodichloromethane	0.49	U	1.0	ug/L							U
Bromoform	0.75	U	1.0	ug/L							U
Bromomethane	0.95	U	1.0	ug/L							U
Carbon disulfide	1.9	U	5.0	ug/L							U
Carbon tetrachloride	0.65	U	1.0	ug/L							U
Chlorobenzene	0.51	U	1.0	ug/L							U
Chloroethane	0.98	U	1.0	ug/L							U
Chloroform	0.54	U	1.0	ug/L							U
Chloromethane	0.82	U	1.0	ug/L							U
cis-1,2-Dichloroethene	0.49	U	1.0	ug/L							U
cis-1,3-Dichloropropene	0.59	U	1.0	ug/L							U
Dibromochloromethane	0.44	U	1.0	ug/L							U
Dibromomethane	0.44	U	1.0	ug/L							U
Ethylbenzene	0.69	U	1.0	ug/L							U
Iodomethane	0.51	U	1.0	ug/L							U
m,p-Xylenes	1.3	U	2.0	ug/L							U
Methylene chloride	0.69	U	2.0	ug/L							U
o-Xylene	0.53	U	1.0	ug/L							U
Styrene	0.49	U	1.0	ug/L							U
Tetrachloroethene	0.76	U	1.0	ug/L							U
Toluene	0.58	U	1.0	ug/L							U
trans-1,2-Dichloroethene	0.72	U	1.0	ug/L							U
trans-1,3-Dichloropropene	0.64	U	1.0	ug/L							U
trans-1,4-Dichloro-2-butene	0.79	U	1.0	ug/L							U
Trichloroethene	0.55	U	1.0	ug/L							U
Trichlorofluoromethane	0.68	U	1.0	ug/L							U
Vinyl acetate	0.60	U	1.0	ug/L							U
Vinyl chloride	0.71	U	1.0	ug/L							U
Xylenes (Total)	1.8	U	3.0	ug/L							U
Surrogate: 4-Bromofluorobenzene	44			ug/L	50.0		88	41-142			

# QUALITY CONTROL

## Volatile Organic Compounds by GCMS - Quality Control

Batch 2C19027 - EPA 5030B\_MS

### Blank (2C19027-BLK1) Continued

Prepared: 03/19/2012 15:05 Analyzed: 03/20/2012 03:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	38			ug/L	50.0		77	53-146			
Surrogate: Toluene-d8	41			ug/L	50.0		83	41-146			

### LCS (2C19027-BS1)

Prepared: 03/19/2012 15:05 Analyzed: 03/20/2012 01:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		99	65-144			
Benzene	21		1.0	ug/L	20.0		106	73-138			
Chlorobenzene	17		1.0	ug/L	20.0		83	77-127			
Toluene	18		1.0	ug/L	20.0		91	71-123			
Trichloroethene	17		1.0	ug/L	20.0		87	83-133			
Surrogate: 4-Bromofluorobenzene	44			ug/L	50.0		88	41-142			
Surrogate: Dibromofluoromethane	38			ug/L	50.0		76	53-146			
Surrogate: Toluene-d8	42			ug/L	50.0		85	41-146			

### Matrix Spike (2C19027-MS1)

Prepared: 03/19/2012 15:05 Analyzed: 03/20/2012 02:06

Source: A201394-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	15		1.0	ug/L	20.0	0.94 U	74	65-144			
Benzene	16		1.0	ug/L	20.0	0.71 U	82	73-138			
Chlorobenzene	15		1.0	ug/L	20.0	0.72 U	77	77-127			
Toluene	15		1.0	ug/L	20.0	0.72 U	74	71-123			
Trichloroethene	21		1.0	ug/L	20.0	0.89 U	106	83-133			
Surrogate: 4-Bromofluorobenzene	45			ug/L	50.0		90	41-142			
Surrogate: Dibromofluoromethane	38			ug/L	50.0		77	53-146			
Surrogate: Toluene-d8	42			ug/L	50.0		85	41-146			

### Matrix Spike Dup (2C19027-MSD1)

Prepared: 03/19/2012 15:05 Analyzed: 03/20/2012 02:36

Source: A201394-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.94 U	80	65-144	8	16	
Benzene	16		1.0	ug/L	20.0	0.71 U	81	73-138	1	14	
Chlorobenzene	16		1.0	ug/L	20.0	0.72 U	79	77-127	2	13	
Toluene	16		1.0	ug/L	20.0	0.72 U	78	71-123	5	16	
Trichloroethene	17		1.0	ug/L	20.0	0.89 U	87	83-133	19	20	
Surrogate: 4-Bromofluorobenzene	45			ug/L	50.0		91	41-142			
Surrogate: Dibromofluoromethane	41			ug/L	50.0		82	53-146			
Surrogate: Toluene-d8	42			ug/L	50.0		84	41-146			

## Semivolatile Organic Compounds by GC - Quality Control

Batch 2C20004 - EPA 504/8011

### Blank (2C20004-BLK1)

Prepared: 03/20/2012 08:06 Analyzed: 03/20/2012 10:27

# QUALITY CONTROL

## Semivolatile Organic Compounds by GC - Quality Control

Batch 2C20004 - EPA 504/8011

### Blank (2C20004-BLK1) Continued

Prepared: 03/20/2012 08:06 Analyzed: 03/20/2012 10:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.004	U	0.020	ug/L							U
1,2-Dibromoethane	0.003	U	0.020	ug/L							U
Surrogate: 1,1,1,2-Tetrachloroethane	0.25			ug/L	0.250		101	70-130			

### LCS (2C20004-BS1)

Prepared: 03/20/2012 08:06 Analyzed: 03/20/2012 10:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.25		0.020	ug/L	0.250		98	61-139			
1,2-Dibromoethane	0.22		0.020	ug/L	0.250		90	65-133			
Surrogate: 1,1,1,2-Tetrachloroethane	0.25			ug/L	0.250		102	70-130			

### Matrix Spike (2C20004-MS1)

Prepared: 03/20/2012 08:06 Analyzed: 03/20/2012 11:03

Source: A201459-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.23		0.020	ug/L	0.250	0.004 U	93	61-139			
1,2-Dibromoethane	0.23		0.020	ug/L	0.250	0.003 U	92	65-133			
Surrogate: 1,1,1,2-Tetrachloroethane	0.25			ug/L	0.250		99	70-130			

### Matrix Spike Dup (2C20004-MSD1)

Prepared: 03/20/2012 08:06 Analyzed: 03/20/2012 11:20

Source: A201459-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.24		0.020	ug/L	0.250	0.004 U	96	61-139	4	12	
1,2-Dibromoethane	0.22		0.020	ug/L	0.250	0.003 U	90	65-133	3	17	
Surrogate: 1,1,1,2-Tetrachloroethane	0.25			ug/L	0.250		102	70-130			

## Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2C16019 - EPA 7470A

### Blank (2C16019-BLK1)

Prepared: 03/19/2012 11:49 Analyzed: 03/20/2012 07:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.0230	U	0.200	ug/L							

### Blank (2C16019-BLK2)

Prepared: 03/19/2012 11:49 Analyzed: 03/20/2012 07:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.230	U	2.00	ug/L							

### LCS (2C16019-BS1)

Prepared: 03/19/2012 11:49 Analyzed: 03/20/2012 07:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.06		0.200	ug/L	5.00		101	80-120			

# QUALITY CONTROL

## Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2C16019 - EPA 7470A

### Matrix Spike (2C16019-MS1)

Prepared: 03/19/2012 11:49 Analyzed: 03/20/2012 07:17

Source: A201394-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.20		0.200	ug/L	5.00	0.0230 U	104	75-125			

### Matrix Spike Dup (2C16019-MSD1)

Prepared: 03/19/2012 11:49 Analyzed: 03/20/2012 07:21

Source: A201394-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.46		0.200	ug/L	5.00	0.0230 U	89	75-125	15	20	

### Post Spike (2C16019-PS1)

Prepared: 03/20/2012 06:00 Analyzed: 03/20/2012 07:24

Source: A201394-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.27		0.200	ug/L	5.61	-0.0256	94	80-120			

## Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2C16013 - EPA 3005A

### Blank (2C16013-BLK1)

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.10	U	20.0	ug/L							
Arsenic	6.10	U	10.0	ug/L							
Barium	20.0	U	100	ug/L							
Beryllium	0.940	U	1.00	ug/L							
Cadmium	1.10	U	3.00	ug/L							
Chromium	4.50	U	10.0	ug/L							
Cobalt	2.10	U	10.0	ug/L							
Copper	2.20	U	10.0	ug/L							
Iron	38.0	U	50.0	ug/L							
Lead	1.60	U	5.00	ug/L							
Nickel	3.20	U	10.0	ug/L							
Selenium	6.50	U	10.0	ug/L							
Silver	0.290	U	1.00	ug/L							
Sodium	0.320	U	1.00	mg/L							
Thallium	0.580	U	1.00	ug/L							
Vanadium	2.00	U	10.0	ug/L							
Zinc	16.0	U	50.0	ug/L							

### LCS (2C16013-BS1)

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:13

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	48.4		20.0	ug/L	50.0		97	80-120			
Arsenic	470		10.0	ug/L	500		94	80-120			
Barium	497		100	ug/L	500		99	80-120			
Beryllium	51.3		1.00	ug/L	50.0		103	80-120			
Cadmium	49.1		3.00	ug/L	50.0		98	80-120			



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**QUALITY CONTROL****Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control**

Batch 2C16013 - EPA 3005A

**LCS (2C16013-BS1) Continued**

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:13

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	531		10.0	ug/L	500		106	80-120			
Cobalt	536		10.0	ug/L	500		107	80-120			
Copper	520		10.0	ug/L	500		104	80-120			
Iron	985		50.0	ug/L	1000		99	80-120			
Lead	505		5.00	ug/L	500		101	80-120			
Nickel	517		10.0	ug/L	500		103	80-120			
Selenium	432		10.0	ug/L	500		86	80-120			
Silver	49.8		1.00	ug/L	50.0		100	80-120			
Sodium	25.0		1.00	mg/L	25.0		100	80-120			
Thallium	49.0		1.00	ug/L	50.0		98	80-120			
Vanadium	506		10.0	ug/L	500		101	80-120			
Zinc	511		50.0	ug/L	500		102	80-120			

**Matrix Spike (2C16013-MS1)**

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:29

Source: A201113-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	49.9		20.0	ug/L	50.0	1.10 U	100	75-125			
Arsenic	485		10.0	ug/L	500	6.10 U	97	75-125			
Barium	511		100	ug/L	500	20.0 U	102	75-125			
Beryllium	50.8		1.00	ug/L	50.0	0.940 U	102	75-125			
Cadmium	49.7		3.00	ug/L	50.0	1.10 U	99	75-125			
Chromium	536		10.0	ug/L	500	5.32	106	75-125			
Cobalt	533		10.0	ug/L	500	2.10 U	107	75-125			
Copper	518		10.0	ug/L	500	2.20 U	104	75-125			
Iron	1080		50.0	ug/L	1000	38.0 U	108	75-125			
Lead	513		5.00	ug/L	500	1.60 U	103	75-125			
Nickel	522		10.0	ug/L	500	6.61	103	75-125			
Selenium	451		10.0	ug/L	500	6.50 U	90	75-125			
Silver	50.1		1.00	ug/L	50.0	0.290 U	100	75-125			
Sodium	35.4		1.00	mg/L	25.0	9.96	102	75-125			
Thallium	50.5		1.00	ug/L	50.0	0.580 U	101	75-125			
Vanadium	512		10.0	ug/L	500	2.00 U	102	75-125			
Zinc	508		50.0	ug/L	500	16.0 U	102	75-125			

**Matrix Spike Dup (2C16013-MSD1)**

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:38

Source: A201113-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	49.2		20.0	ug/L	50.0	1.10 U	98	75-125	1	20	
Arsenic	478		10.0	ug/L	500	6.10 U	96	75-125	2	20	
Barium	504		100	ug/L	500	20.0 U	101	75-125	1	20	
Beryllium	50.9		1.00	ug/L	50.0	0.940 U	102	75-125	0.2	20	
Cadmium	50.0		3.00	ug/L	50.0	1.10 U	100	75-125	0.8	20	
Chromium	540		10.0	ug/L	500	5.32	107	75-125	0.8	20	
Cobalt	528		10.0	ug/L	500	2.10 U	106	75-125	0.9	20	
Copper	513		10.0	ug/L	500	2.20 U	103	75-125	0.9	20	
Iron	1080		50.0	ug/L	1000	38.0 U	108	75-125	0.6	20	

# QUALITY CONTROL

## Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2C16013 - EPA 3005A

Matrix Spike Dup (2C16013-MSD1) Continued

Prepared: 03/16/2012 12:51 Analyzed: 03/20/2012 12:38

Source: A201113-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	509		5.00	ug/L	500	1.60 U	102	75-125	0.9	20	
Nickel	525		10.0	ug/L	500	6.61	104	75-125	0.6	20	
Selenium	473		10.0	ug/L	500	6.50 U	95	75-125	5	20	
Silver	49.9		1.00	ug/L	50.0	0.290 U	100	75-125	0.4	20	
Sodium	34.8		1.00	mg/L	25.0	9.96	99	75-125	2	20	
Thallium	49.8		1.00	ug/L	50.0	0.580 U	100	75-125	1	20	
Vanadium	509		10.0	ug/L	500	2.00 U	102	75-125	0.5	20	
Zinc	501		50.0	ug/L	500	16.0 U	100	75-125	1	20	

Post Spike (2C16013-PS1)

Prepared: 03/20/2012 12:00 Analyzed: 03/20/2012 12:46

Source: A201113-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.72		2.00	ug/L	4.90	0.0213	96	80-120			
Arsenic	46.0		1.00	ug/L	49.0	0.178	94	80-120			
Barium	48.6		10.0	ug/L	49.0	-0.0184	99	80-120			
Beryllium	5.05		0.100	ug/L	4.90	-0.0133	103	80-120			
Cadmium	4.94		0.300	ug/L	4.90	-0.0830	102	80-120			
Chromium	52.3		1.00	ug/L	49.0	0.522	106	80-120			
Cobalt	51.3		1.00	ug/L	49.0	0.0323	105	80-120			
Copper	51.0		1.00	ug/L	49.0	-0.0589	104	80-120			
Iron	103		5.00	ug/L	98.0	3.71	101	80-120			
Lead	49.2		0.500	ug/L	49.0	-0.0175	100	80-120			
Nickel	50.7		1.00	ug/L	49.0	0.648	102	80-120			
Selenium	44.9		1.00	ug/L	49.0	0.521	91	80-120			
Silver	4.71		0.100	ug/L	4.90	-0.00951	96	80-120			
Sodium	3440		100	ug/L	2450	977	101	80-120			
Thallium	4.72		0.100	ug/L	4.90	0.00333	96	80-120			
Vanadium	49.0		1.00	ug/L	49.0	0.177	100	80-120			
Zinc	49.3		5.00	ug/L	49.0	0.577	99	80-120			

## Classical Chemistry Parameters - Quality Control

Batch 2C15002 - NO PREP

Blank (2C15002-BLK1)

Prepared: 03/16/2012 01:28 Analyzed: 03/16/2012 04:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.29	U	5.0	mg/L							
Nitrate as N	0.052	U	1.0	mg/L							U

LCS (2C15002-BS1)

Prepared: 03/16/2012 01:28 Analyzed: 03/16/2012 05:03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		95	90-110			
Nitrate as N	9.5		1.0	mg/L	10.0		95	90-110			

# **QUALITY CONTROL**

## **Classical Chemistry Parameters - Quality Control**

Batch 2C15002 - NO PREP

### **Matrix Spike (2C15002-MS1)**

Prepared: 03/16/2012 01:28 Analyzed: 03/16/2012 05:20

Source: A201358-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	63		5.0	mg/L	50.0	12	103	90-110			
Nitrate as N	18		1.0	mg/L	10.0	7.7	101	90-110			

### **Matrix Spike Dup (2C15002-MSD1)**

Prepared: 03/16/2012 01:28 Analyzed: 03/16/2012 05:37

Source: A201358-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	65		5.0	mg/L	50.0	12	107	90-110	3	10	
Nitrate as N	18		1.0	mg/L	10.0	7.7	101	90-110	0.3	10	

Batch 2C18001 - NO PREP

### **Blank (2C18001-BLK1)**

Prepared: 03/18/2012 06:10 Analyzed: 03/19/2012 22:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

### **LCS (2C18001-BS1)**

Prepared: 03/18/2012 06:10 Analyzed: 03/19/2012 22:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	980		10	mg/L	1000		98	90-110			

### **Duplicate (2C18001-DUP1)**

Prepared: 03/18/2012 06:10 Analyzed: 03/19/2012 22:17

Source: A201006-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	630		10	mg/L		610			3	10	

Batch 2C21009 - NO PREP

### **Blank (2C21009-BLK1)**

Prepared: 03/21/2012 08:00 Analyzed: 03/21/2012 12:16

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.0073	U	0.020	mg/L							U

### **LCS (2C21009-BS1)**

Prepared: 03/21/2012 08:00 Analyzed: 03/21/2012 12:19

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.020	mg/L	1.00		100	90-110			

### **Matrix Spike (2C21009-MS1)**

Prepared: 03/21/2012 08:00 Analyzed: 03/21/2012 12:21

Source: A201461-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.1		0.020	mg/L	1.00	0.17	97	90-110			





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## QUALITY CONTROL

### Classical Chemistry Parameters - Quality Control

Batch 2C21009 - NO PREP

Matrix Spike Dup (2C21009-MSD1)

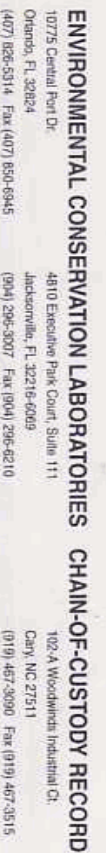
Prepared: 03/21/2012 08:00 Analyzed: 03/21/2012 12:22

Source: A201461-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.1		0.020	mg/L	1.00	0.17	96	90-110	0.4	10	

**FLAGS/NOTES AND DEFINITIONS**

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.



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Requested Turnaround Times

**Note:** Rush requests subject to acceptance by the facility.

Standard

— Expedited

Due     /    /    

Lab work order 1-125  
A201118  
6/2/21

Sample Comments	12
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Report separately  
to John Arnold  
110442a P7

No data

[illegible]

Sample Kit Prepared By <i>Shaw Bryce</i>	Date/TIME <i>3-2-12</i>
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Date/Time 1025  
3-2-12

Relinquished By  
H. J. Die

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GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: HCl H<sub>2</sub>O<sub>2</sub> NH<sub>4</sub>NO<sub>3</sub> S-H<sub>2</sub>SO<sub>4</sub> NO-NaOH O-ether (Detail in comments)

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**Note :** All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.