



ENCO Laboratories

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Friday, March 28, 2014

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 (FKA SID LARKIN & SON, INC.)

ENCO Workorder(s): A401574

Dear John Arnold,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, March 20, 2014.

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,

Marcia Colon

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: EP-1			Lab ID: A401574-01		Sampled: 03/20/14 10:47		Received: 03/20/14 16:54	
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)			
EPA 300.0	03/22/14	10:47	03/20/14	18:24	03/21/14 00:19			
EPA 300.0	04/17/14		03/20/14	18:24	03/21/14 00:19			
EPA 350.1	04/17/14		03/21/14	11:47	03/21/14 12:57			
EPA 6020A	09/16/14		03/21/14	09:57	03/25/14 11:04			
EPA 7470A	04/17/14		03/25/14	15:39	03/26/14 08:34			
EPA 8011	04/03/14	04/04/14	03/21/14	05:21	03/21/14 13:53			
Field	03/20/14	11:01	03/20/14	10:47	03/20/14 10:47			
Field	03/21/14	10:47	03/21/14 10:47	03/20/14 10:47	03/20/14 10:47			
Field	03/22/14	10:47	03/20/14	10:47	03/20/14 10:47			
SM 2540C-1997	03/27/14		03/20/14	20:10	03/23/14 10:13			

Client ID: EP-1		Lab ID: A401574-01RE1	Sampled: 03/20/14 10:47	Received: 03/20/14 16:54
<u>Parameter</u>	<u>Hold Date/Time(s)</u>	<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6020A	09/16/14	03/21/14 09:57		03/25/14 14:36
EPA 8260B	04/03/14	03/25/14 17:10		03/26/14 01:37

SAMPLE DETECTION SUMMARY

Client ID: EP-1

Lab ID: A401574-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Chloride	1.4	I	0.29	5.0	mg/L	EPA 300.0	
Dissolved Oxygen	6.01		0.00	0.00	mg/L	Field	
Nitrate as N	0.65	I	0.052	1.0	mg/L	EPA 300.0	J
pH	5.09				pH Units	Field	
Sodium - Total	0.356	I	0.320	1.00	mg/L	EPA 6020A	
Specific Conductance (EC)	47		0	0	umhos/cm	Field	
Temperature	24.49		0.00	0.00	°C	Field	
Total Dissolved Solids	36		10	10	mg/L	SM 2540C-1997	
Turbidity	0.800		0.00	0.00	NTU	Field	

ANALYTICAL RESULTS

Description: EP-1

Lab Sample ID: A401574-01

Received: 03/20/14 16:54

Matrix: Ground Water

Sampled: 03/20/14 10:47

Work Order: A401574

Project: ENTERPRISE LF & RECYC (FKA SID LARKIN & SON, INC.)

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]^	0.61	U	ug/L	1	0.61	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U, QM-07
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
2-Hexanone [591-78-6]^	1.4	U	ug/L	1	1.4	5.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
4-Methyl-2-pentanone [108-10-1]^	0.79	U	ug/L	1	0.79	5.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Acetone [67-64-1]^	1.8	U	ug/L	1	1.8	5.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Acrylonitrile [107-13-1]^	3.2	U	ug/L	1	3.2	10	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Carbon disulfide [75-15-0]^	2.6	U	ug/L	1	2.6	5.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Dibromochloromethane [124-48-1]^	0.44	U	ug/L	1	0.44	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Iodomethane [74-88-4]^	0.72	U	ug/L	1	0.72	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Methylene chloride [75-09-2]^	0.71	U	ug/L	1	0.71	2.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	QM-07, U
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	QM-07, U
trans-1,4-Dichloro-2-butene [110-57-6]^	0.79	U	ug/L	1	0.79	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Vinyl acetate [108-05-4]^	0.60	U	ug/L	1	0.60	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U

ANALYTICAL RESULTS

Description: EP-1

Lab Sample ID: A401574-01

Received: 03/20/14 16:54

Matrix: Ground Water

Sampled: 03/20/14 10:47

Work Order: A401574

Project: ENTERPRISE LF & RECYC (FKA SID
LARKIN & SON, INC.)

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
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	4C25043	EPA 8260B	03/26/14 01:37	KWB	U

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	31	1	50.0	62 %	41-142	4C25043	EPA 8260B	03/26/14 01:37	KWB	
Dibromofluoromethane	51	1	50.0	102 %	53-146	4C25043	EPA 8260B	03/26/14 01:37	KWB	
Toluene-d8	37	1	50.0	75 %	41-146	4C25043	EPA 8260B	03/26/14 01:37	KWB	

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	4C21005	EPA 8011	03/21/14 13:53	JJB	U
1,2-Dibromoethane [106-93-4]^	0.003	U	ug/L	1	0.003	0.020	4C21005	EPA 8011	03/21/14 13:53	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	105 %	70-130	4C21005	EPA 8011	03/21/14 13:53	JJB	

Metals 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
Mercury [7439-97-6]^	0.0230	U	ug/L	1	0.0230	0.200	4C20050	EPA 7470A	03/26/14 08:34	IR	

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	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Arsenic [7440-38-2]^	6.10	U	ug/L	1	6.10	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Barium [7440-39-3]^	20.0	U	ug/L	1	20.0	100	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Beryllium [7440-41-7]^	0.940	U	ug/L	1	0.940	1.00	4C20051	EPA 6020A	03/25/14 14:36	JAY	QV-01
Cadmium [7440-43-9]^	1.10	U	ug/L	1	1.10	3.00	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Chromium [7440-47-3]^	4.50	U	ug/L	1	4.50	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Cobalt [7440-48-4]^	2.10	U	ug/L	1	2.10	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Copper [7440-50-8]^	2.20	U	ug/L	1	2.20	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Iron [7439-89-6]^	38.0	U	ug/L	1	38.0	50.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Lead [7439-92-1]^	1.60	U	ug/L	1	1.60	5.00	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Nickel [7440-02-0]^	3.20	U	ug/L	1	3.20	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Selenium [7782-49-2]^	6.50	U	ug/L	1	6.50	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Silver [7440-22-4]^	0.290	U	ug/L	1	0.290	1.00	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Sodium [7440-23-5]^	0.356	I	mg/L	1	0.320	1.00	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Thallium [7440-28-0]^	0.580	U	ug/L	1	0.580	1.00	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Vanadium [7440-62-2]^	2.00	U	ug/L	1	2.00	10.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	
Zinc [7440-66-6]^	16.0	U	ug/L	1	16.0	50.0	4C20051	EPA 6020A	03/25/14 11:04	JMA	

ANALYTICAL RESULTS

Description: EP-1

Lab Sample ID: A401574-01

Received: 03/20/14 16:54

Matrix: Ground Water

Sampled: 03/20/14 10:47

Work Order: A401574

Project: ENTERPRISE LF & RECYC (FKA SID
LARKIN & SON, INC.)

Sampled By: Chris Monaco

Classical Chemistry Parameters

^ - 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>
Ammonia as N [7664-41-7]^	0.0073	U	mg/L	1	0.0073	0.020	4C21025	EPA 350.1	03/21/14 12:57	KGonz	U
Chloride [16887-00-6]^	1.4	I	mg/L	1	0.29	5.0	4C20002	EPA 300.0	03/21/14 00:19	RAIfo	
Nitrate as N [14797-55-8]^	0.65	I	mg/L	1	0.052	1.0	4C20002	EPA 300.0	03/21/14 00:19	RAIfo	J
Total Dissolved Solids [ECL-0156]^	36		mg/L	1	10	10	4C20052	SM 2540C-1997	03/23/14 10:13	AH	

Field Parameters

<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>
Dissolved Oxygen [ECL-0053]	6.01		mg/L	1	0.00	0.00	4C28019	Field	03/20/14 10:47	MCC	
pH [ECL-0062]	5.09		pH Units	1			4C28019	Field	03/20/14 10:47	MCC	
Specific Conductance (EC) [ECL-0146]	47		umhos/cm	1	0	0	4C28019	Field	03/20/14 10:47	MCC	
Temperature [ECL-0151]	24.49		°C	1	0.00	0.00	4C28019	Field	03/20/14 10:47	MCC	
Turbidity [ECL-0177]	0.800		NTU	1	0.00	0.00	4C28019	Field	03/20/14 10:47	MCC	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C23008 - EPA 5030B_MS

Blank (4C23008-BLK1)

Prepared: 03/23/2014 15:01 Analyzed: 03/24/2014 03:51

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							U
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							U
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							U
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							U
1,1-Dichloroethane	0.62	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	0.73	U	1.0	ug/L							U
1,2-Dichloroethane	0.63	U	1.0	ug/L							U
1,2-Dichloropropane	0.80	U	1.0	ug/L							U
1,4-Dichlorobenzene	0.76	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	0.79	U	5.0	ug/L							U
Acetone	1.8	U	5.0	ug/L							U
Acrylonitrile	3.2	U	10	ug/L							U
Benzene	0.71	U	1.0	ug/L							U
Bromochloromethane	0.94	U	1.0	ug/L							U
Bromodichloromethane	0.52	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	2.6	U	5.0	ug/L							U
Carbon tetrachloride	0.94	U	1.0	ug/L							U
Chlorobenzene	0.72	U	1.0	ug/L							U
Chloroethane	0.98	U	1.0	ug/L							U
Chloroform	0.80	U	1.0	ug/L							U
Chloromethane	0.82	U	1.0	ug/L							U
cis-1,2-Dichloroethene	0.53	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	0.84	U	1.0	ug/L							U
Ethylbenzene	0.69	U	1.0	ug/L							U
Iodomethane	0.72	U	1.0	ug/L							U
m,p-Xylenes	1.3	U	2.0	ug/L							U
Methylene chloride	0.71	U	2.0	ug/L							U
o-Xylene	0.53	U	1.0	ug/L							U
Styrene	0.61	U	1.0	ug/L							U
Tetrachloroethene	0.76	U	1.0	ug/L							U
Toluene	0.72	U	1.0	ug/L							U
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							U
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							U
trans-1,4-Dichloro-2-butene	0.79	U	1.0	ug/L							U
Trichloroethene	0.89	U	1.0	ug/L							U
Trichlorofluoromethane	0.94	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)	1.3	U	2.0	ug/L							U
4-Bromofluorobenzene	31			ug/L	50.0		63	41-142			
Dibromofluoromethane	48			ug/L	50.0		95	53-146			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C23008 - EPA 5030B_MS - Continued

Blank (4C23008-BLK1) Continued

Prepared: 03/23/2014 15:01 Analyzed: 03/24/2014 03:51

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene-d8	38			ug/L	50.0		75	41-146			

LCS (4C23008-BS1)

Prepared: 03/23/2014 15:01 Analyzed: 03/24/2014 03:21

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	65-144			
Benzene	18		1.0	ug/L	20.0		88	73-138			
Chlorobenzene	18		1.0	ug/L	20.0		91	77-127			
Toluene	17		1.0	ug/L	20.0		86	71-123			
Trichloroethene	22		1.0	ug/L	20.0		109	83-133			
4-Bromofluorobenzene	40			ug/L	50.0		80	41-142			
Dibromofluoromethane	48			ug/L	50.0		96	53-146			
Toluene-d8	42			ug/L	50.0		84	41-146			

Matrix Spike (4C23008-MS1)

Prepared: 03/23/2014 15:01 Analyzed: 03/24/2014 04:21

Source: A401536-12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	28		1.0	ug/L	20.0	0.94 U	141	65-144			
Benzene	20		1.0	ug/L	20.0	0.71 U	100	73-138			
Chlorobenzene	17		1.0	ug/L	20.0	0.72 U	86	77-127			
Toluene	24		1.0	ug/L	20.0	0.72 U	118	71-123			
Trichloroethene	19		1.0	ug/L	20.0	0.89 U	97	83-133			
4-Bromofluorobenzene	43			ug/L	50.0		85	41-142			
Dibromofluoromethane	49			ug/L	50.0		98	53-146			
Toluene-d8	41			ug/L	50.0		83	41-146			

Matrix Spike Dup (4C23008-MSD1)

Prepared: 03/23/2014 15:01 Analyzed: 03/24/2014 04:51

Source: A401536-12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	29		1.0	ug/L	20.0	0.94 U	144	65-144	2	16	
Benzene	20		1.0	ug/L	20.0	0.71 U	101	73-138	1	14	
Chlorobenzene	18		1.0	ug/L	20.0	0.72 U	90	77-127	4	13	
Toluene	24		1.0	ug/L	20.0	0.72 U	120	71-123	2	16	
Trichloroethene	20		1.0	ug/L	20.0	0.89 U	99	83-133	2	20	
4-Bromofluorobenzene	41			ug/L	50.0		82	41-142			
Dibromofluoromethane	46			ug/L	50.0		93	53-146			
Toluene-d8	29			ug/L	50.0		57	41-146			

Batch 4C25043 - EPA 5030B_MS

Blank (4C25043-BLK1)

Prepared: 03/25/2014 17:10 Analyzed: 03/26/2014 00:07

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							U
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							U
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							U
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							U

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C25043 - EPA 5030B_MS - Continued

Blank (4C25043-BLK1) Continued

Prepared: 03/25/2014 17:10 Analyzed: 03/26/2014 00:07

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethane	0.62	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	0.73	U	1.0	ug/L							U
1,2-Dichloroethane	0.63	U	1.0	ug/L							U
1,2-Dichloropropane	0.80	U	1.0	ug/L							U
1,4-Dichlorobenzene	0.76	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	0.79	U	5.0	ug/L							U
Acetone	1.8	U	5.0	ug/L							U
Acrylonitrile	3.2	U	10	ug/L							U
Benzene	0.71	U	1.0	ug/L							U
Bromochloromethane	0.94	U	1.0	ug/L							U
Bromodichloromethane	0.52	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	2.6	U	5.0	ug/L							U
Carbon tetrachloride	0.94	U	1.0	ug/L							U
Chlorobenzene	0.72	U	1.0	ug/L							U
Chloroethane	0.98	U	1.0	ug/L							U
Chloroform	0.80	U	1.0	ug/L							U
Chloromethane	0.82	U	1.0	ug/L							U
cis-1,2-Dichloroethene	0.53	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	0.84	U	1.0	ug/L							U
Ethylbenzene	0.69	U	1.0	ug/L							U
Iodomethane	0.72	U	1.0	ug/L							U
m,p-Xylenes	1.3	U	2.0	ug/L							U
Methylene chloride	0.71	U	2.0	ug/L							U
o-Xylene	0.53	U	1.0	ug/L							U
Styrene	0.61	U	1.0	ug/L							U
Tetrachloroethene	0.76	U	1.0	ug/L							U
Toluene	0.72	U	1.0	ug/L							U
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							U
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							U
trans-1,4-Dichloro-2-butene	0.79	U	1.0	ug/L							U
Trichloroethene	0.89	U	1.0	ug/L							U
Trichlorofluoromethane	0.94	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)	1.3	U	2.0	ug/L							U
4-Bromofluorobenzene	30			ug/L	50.0		60	41-142			
Dibromofluoromethane	52			ug/L	50.0		104	53-146			
Toluene-d8	39			ug/L	50.0		77	41-146			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C25043 - EPA 5030B_MS - Continued

LCS (4C25043-BS1)

Prepared: 03/25/2014 17:10 Analyzed: 03/26/2014 09:37

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		117	65-144			
Benzene	16		1.0	ug/L	20.0		81	73-138			
Chlorobenzene	18		1.0	ug/L	20.0		88	77-127			
Toluene	18		1.0	ug/L	20.0		92	71-123			
Trichloroethene	19		1.0	ug/L	20.0		93	83-133			
4-Bromofluorobenzene	30			ug/L	50.0		61	41-142			
Dibromofluoromethane	51			ug/L	50.0		103	53-146			
Toluene-d8	37			ug/L	50.0		74	41-146			

Matrix Spike (4C25043-MS1)

Prepared: 03/25/2014 17:10 Analyzed: 03/26/2014 00:37

Source: A401574-01RE1

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.94 U	125	65-144			
Benzene	16		1.0	ug/L	20.0	0.71 U	81	73-138			
Chlorobenzene	16		1.0	ug/L	20.0	0.72 U	81	77-127			
Toluene	18		1.0	ug/L	20.0	0.72 U	89	71-123			
Trichloroethene	17		1.0	ug/L	20.0	0.89 U	83	83-133			
4-Bromofluorobenzene	30			ug/L	50.0		61	41-142			
Dibromofluoromethane	52			ug/L	50.0		104	53-146			
Toluene-d8	36			ug/L	50.0		73	41-146			

Matrix Spike Dup (4C25043-MSD1)

Prepared: 03/25/2014 17:10 Analyzed: 03/26/2014 01:07

Source: A401574-01RE1

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.94 U	120	65-144	4	16	
Benzene	18		1.0	ug/L	20.0	0.71 U	91	73-138	12	14	
Chlorobenzene	18		1.0	ug/L	20.0	0.72 U	88	77-127	8	13	
Toluene	16		1.0	ug/L	20.0	0.72 U	79	71-123	12	16	
Trichloroethene	19		1.0	ug/L	20.0	0.89 U	95	83-133	13	20	
4-Bromofluorobenzene	28			ug/L	50.0		57	41-142			
Dibromofluoromethane	48			ug/L	50.0		97	53-146			
Toluene-d8	37			ug/L	50.0		74	41-146			

Semivolatile Organic Compounds by GC - Quality Control

Batch 4C21005 - EPA 504/8011

Blank (4C21005-BLK1)

Prepared: 03/21/2014 05:21 Analyzed: 03/21/2014 06:49

Analyte	Result	Flag	POL	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
1,1,1,2-Tetrachloroethane	0.27			ug/L	0.250		106	70-130			

LCS (4C21005-BS1)

Prepared: 03/21/2014 05:21 Analyzed: 03/21/2014 07:06

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GC - Quality Control

Batch 4C21005 - EPA 504/8011 - Continued

LCS (4C21005-BS1) Continued

Prepared: 03/21/2014 05:21 Analyzed: 03/21/2014 07:06

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.21		0.020	ug/L	0.250		82	61-139			
1,2-Dibromoethane	0.23		0.020	ug/L	0.250		91	65-133			
1,1,1,2-Tetrachloroethane	0.27			ug/L	0.250		107	70-130			

Matrix Spike (4C21005-MS1)

Prepared: 03/21/2014 05:21 Analyzed: 03/21/2014 07:23

Source: A401433-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.19		0.020	ug/L	0.250	0.004 U	76	61-139			
1,2-Dibromoethane	0.20		0.020	ug/L	0.250	0.003 U	79	65-133			
1,1,1,2-Tetrachloroethane	0.25			ug/L	0.250		99	70-130			

Matrix Spike Dup (4C21005-MSD1)

Prepared: 03/21/2014 05:21 Analyzed: 03/21/2014 07:40

Source: A401433-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dibromo-3-chloropropane	0.21		0.020	ug/L	0.250	0.004 U	84	61-139	11	12	
1,2-Dibromoethane	0.23		0.020	ug/L	0.250	0.003 U	92	65-133	16	17	
1,1,1,2-Tetrachloroethane	0.27			ug/L	0.250		109	70-130			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4C20050 - EPA 7470A

Blank (4C20050-BLK1)

Prepared: 03/25/2014 15:39 Analyzed: 03/26/2014 07:53

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

Blank (4C20050-BLK2)

Prepared: 03/25/2014 15:39 Analyzed: 03/26/2014 07:56

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

LCS (4C20050-BS1)

Prepared: 03/25/2014 15:39 Analyzed: 03/26/2014 07:59

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.91		0.200	ug/L	5.00		98	80-120			

Matrix Spike (4C20050-MS1)

Prepared: 03/25/2014 15:39 Analyzed: 03/26/2014 08:05

Source: A401572-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.25		0.200	ug/L	5.00	0.0230 U	105	75-125			

Matrix Spike Dup (4C20050-MSD1)

Prepared: 03/25/2014 15:39 Analyzed: 03/26/2014 08:09

Source: A401572-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.32		0.200	ug/L	5.00	0.0230 U	106	75-125	1	20	

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4C20050 - EPA 7470A - Continued

Post Spike (4C20050-PS1)

Prepared: 03/26/2014 06:00 Analyzed: 03/26/2014 08:12

Source: A401572-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.97		0.200	ug/L	5.61	-0.0139	89	80-120			

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

Batch 4C20051 - EPA 3005A

Blank (4C20051-BLK1)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 09:55

Analyte	Result	Flaq	POL	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							
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							

Blank (4C20051-BLK2)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 14:16

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	0.940	U	1.00	ug/L							QV-01

LCS (4C20051-BS1)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 09:59

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	47.2		20.0	ug/L	50.0		94	80-120			
Arsenic	483		10.0	ug/L	500		97	80-120			
Barium	531		100	ug/L	500		106	80-120			
Cadmium	49.6		3.00	ug/L	50.0		99	80-120			
Chromium	524		10.0	ug/L	500		105	80-120			
Cobalt	511		10.0	ug/L	500		102	80-120			
Copper	515		10.0	ug/L	500		103	80-120			
Iron	1040		50.0	ug/L	1000		104	80-120			
Lead	508		5.00	ug/L	500		102	80-120			
Nickel	518		10.0	ug/L	500		104	80-120			
Selenium	451		10.0	ug/L	500		90	80-120			
Silver	51.0		1.00	ug/L	50.0		102	80-120			
Sodium	27.6		1.00	mg/L	25.0		110	80-120			
Thallium	50.4		1.00	ug/L	50.0		101	80-120			
Vanadium	525		10.0	ug/L	500		105	80-120			

QUALITY CONTROL DATA

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

Batch 4C20051 - EPA 3005A - Continued

LCS (4C20051-BS1) Continued

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 09:59

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Zinc	480		50.0	ug/L	500		96	80-120			

LCS (4C20051-BS2)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 14:17

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	51.1		1.00	ug/L	50.0		102	80-120			

Matrix Spike (4C20051-MS1)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 10:06

Source: A401569-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	47.4		20.0	ug/L	50.0	1.10 U	95	75-125			
Arsenic	464		10.0	ug/L	500	6.10 U	93	75-125			
Barium	528		100	ug/L	500	20.0 U	106	75-125			
Cadmium	47.3		3.00	ug/L	50.0	1.10 U	95	75-125			
Chromium	505		10.0	ug/L	500	4.50 U	101	75-125			
Cobalt	508		10.0	ug/L	500	2.10 U	102	75-125			
Copper	492		10.0	ug/L	500	2.20 U	98	75-125			
Iron	972		50.0	ug/L	1000	38.0 U	97	75-125			
Lead	498		5.00	ug/L	500	1.60 U	100	75-125			
Nickel	496		10.0	ug/L	500	3.20 U	99	75-125			
Selenium	437		10.0	ug/L	500	6.50 U	87	75-125			
Silver	48.7		1.00	ug/L	50.0	0.290 U	97	75-125			
Sodium	570	L	1.00	mg/L	25.0	511	238	75-125			E, QM-17
Thallium	48.9		1.00	ug/L	50.0	0.580 U	98	75-125			
Vanadium	511		10.0	ug/L	500	2.00 U	102	75-125			
Zinc	461		50.0	ug/L	500	16.0 U	92	75-125			

Matrix Spike (4C20051-MS2)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 14:20

Source: A401569-01RE1

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	50.1		1.00	ug/L	50.0	0.940 U	100	75-125			

Matrix Spike Dup (4C20051-MSD1)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 10:10

Source: A401569-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	48.0		20.0	ug/L	50.0	1.10 U	96	75-125	1	20	
Arsenic	450		10.0	ug/L	500	6.10 U	90	75-125	3	20	
Barium	525		100	ug/L	500	20.0 U	105	75-125	0.5	20	
Cadmium	48.3		3.00	ug/L	50.0	1.10 U	97	75-125	2	20	
Chromium	500		10.0	ug/L	500	4.50 U	100	75-125	1	20	
Cobalt	492		10.0	ug/L	500	2.10 U	98	75-125	3	20	
Copper	504		10.0	ug/L	500	2.20 U	101	75-125	2	20	
Iron	932		50.0	ug/L	1000	38.0 U	93	75-125	4	20	
Lead	484		5.00	ug/L	500	1.60 U	97	75-125	3	20	
Nickel	493		10.0	ug/L	500	3.20 U	99	75-125	0.5	20	
Selenium	434		10.0	ug/L	500	6.50 U	87	75-125	0.7	20	
Silver	48.3		1.00	ug/L	50.0	0.290 U	97	75-125	1	20	
Sodium	561	L	1.00	mg/L	25.0	511	199	75-125	2	20	E, QM-17

QUALITY CONTROL DATA

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

Batch 4C20051 - EPA 3005A - Continued

Matrix Spike Dup (4C20051-MSD1) Continued

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 10:10

Source: A401569-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	49.4		1.00	ug/L	50.0	0.580 U	99	75-125	1	20	
Vanadium	516		10.0	ug/L	500	2.00 U	103	75-125	1	20	
Zinc	471		50.0	ug/L	500	16.0 U	94	75-125	2	20	

Matrix Spike Dup (4C20051-MSD2)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 14:21

Source: A401569-01RE1

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	46.2		1.00	ug/L	50.0	0.940 U	92	75-125	8	20	

Post Spike (4C20051-PS1)

Prepared: 03/25/2014 09:00 Analyzed: 03/25/2014 10:14

Source: A401569-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.53		2.00	ug/L	4.90	0.0253	92	80-120			
Arsenic	45.6		1.00	ug/L	49.0	-0.0360	93	80-120			
Barium	53.2		10.0	ug/L	49.0	0.781	107	80-120			
Cadmium	4.68		0.300	ug/L	4.90	0.00529	95	80-120			
Chromium	49.0		1.00	ug/L	49.0	-0.0500	100	80-120			
Cobalt	50.0		1.00	ug/L	49.0	-0.153	102	80-120			
Copper	48.3		1.00	ug/L	49.0	-0.0689	99	80-120			
Iron	93.4		5.00	ug/L	98.0	2.25	93	80-120			
Lead	47.4		0.500	ug/L	49.0	-0.0116	97	80-120			
Nickel	48.8		1.00	ug/L	49.0	-0.205	100	80-120			
Selenium	43.3		1.00	ug/L	49.0	-0.0364	88	80-120			
Silver	4.77		0.100	ug/L	4.90	-0.00569	97	80-120			
Sodium	56000	L	100	ug/L	2450	50100	239	80-120			E, QM-08
Thallium	4.77		0.100	ug/L	4.90	-0.0146	98	80-120			
Vanadium	49.9		1.00	ug/L	49.0	-0.155	102	80-120			
Zinc	45.5		5.00	ug/L	49.0	0.337	92	80-120			

Post Spike (4C20051-PS2)

Prepared: 03/25/2014 14:00 Analyzed: 03/25/2014 14:22

Source: A401569-01RE1

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	5.03		0.100	ug/L	4.90	0.0360	102	80-120			

Batch AA28022 - 4C20051

Serial Dilution (AA28022-SRD1)

Prepared: 03/21/2014 09:57 Analyzed: 03/25/2014 10:26

Source: A401569-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sodium	510		20.0	mg/L		511			0.1		

Classical Chemistry Parameters - Quality Control

Batch 4C20002 - NO PREP

Blank (4C20002-BLK1)

Prepared: 03/20/2014 18:24 Analyzed: 03/20/2014 23:25

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	0.29	U	5.0	mg/L							

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C20002 - NO PREP - Continued

Blank (4C20002-BLK1) Continued

Prepared: 03/20/2014 18:24 Analyzed: 03/20/2014 23:25

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

LCS (4C20002-BS1)

Prepared: 03/20/2014 18:24 Analyzed: 03/20/2014 23:39

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	53		5.0	mg/L	50.0		106	90-110			
Nitrate as N	11		1.0	mg/L	10.0		106	90-110			

Matrix Spike (4C20002-MS1)

Prepared: 03/20/2014 18:24 Analyzed: 03/20/2014 23:52

Source: A401574-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	56		5.0	mg/L	50.0	1.4	109	90-110			
Nitrate as N	11		1.0	mg/L	10.0	0.65	108	90-110			

Matrix Spike Dup (4C20002-MSD1)

Prepared: 03/20/2014 18:24 Analyzed: 03/21/2014 00:06

Source: A401574-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	1.4	107	90-110	2	10	
Nitrate as N	11		1.0	mg/L	10.0	0.65	107	90-110	1	10	

Batch 4C20052 - NO PREP

Blank (4C20052-BLK1)

Prepared: 03/20/2014 20:10 Analyzed: 03/23/2014 10:13

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 (4C20052-BS1)

Prepared: 03/20/2014 20:10 Analyzed: 03/23/2014 10:13

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 (4C20052-DUP1)

Prepared: 03/20/2014 20:10 Analyzed: 03/23/2014 10:13

Source: A400979-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	690		10	mg/L		690			1	10	

Batch 4C21025 - NO PREP

Blank (4C21025-BLK1)

Prepared: 03/21/2014 11:47 Analyzed: 03/21/2014 12:18

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 (4C21025-BS1)

Prepared: 03/21/2014 11:47 Analyzed: 03/21/2014 12:19

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C21025 - NO PREP - Continued

LCS (4C21025-BS1) Continued

Prepared: 03/21/2014 11:47 Analyzed: 03/21/2014 12:19

Analyte	Result	Flaq	POL	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 (4C21025-MS1)

Prepared: 03/21/2014 11:47 Analyzed: 03/21/2014 12:22

Source: A401481-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.020	mg/L	1.00	0.074	97	90-110			

Matrix Spike Dup (4C21025-MSD1)

Prepared: 03/21/2014 11:47 Analyzed: 03/21/2014 12:23

Source: A401481-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.020	mg/L	1.00	0.074	98	90-110	1	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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

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