Snavely, Keith

From: Snavely, Keith
Sent: Wednesday, August 27, 2014 4:53 PM
To: 'Ed Woloszyn'
Cc: Antrilli, Vincent; Walch, John
Subject: Update on POE maintenance and sampling

Ed,

We have revised our approach to long term sampling of new and existing Point- of- Entry (POE) filter systems for residents under the Orphan Contract and Bernard Allen Funding. We still will conduct post installation sampling and sampling at the 8 month period for new systems. However, for systems that have existed for more than one year, there are no plans for specific yearly sampling (post installation or at 8 months as before). However, any necessary sampling will be conducted by IHSB Staff.
Maintenance (carbon filter change out) at 12 months will still be conducted by S&ME, Carbonair or other subcontractors (that were previously utilized).

FOR NEW POE INSTALLATIONS:

(Same as previous for brand new POEs): There will be the installation of the POE system, follow-up post installation sampling and then sampling at 8 months and a carbon filter change out at 1 year. If however, there is breakthrough at 8 months , the carbon filter will be changed at that time.

POEs that have existed for at least one year:

After one year, no specific periodic sampling will be conducted on existing POEs unless there are significant changes to the POE effluent. All future sampling of existing systems over a year old will be conducted by IHSB.

Keith

Keith Snavely, Hydrogeologist
Inactive Hazardous Sites Branch
NC Division of Waste Management

Office #: (919) 707-8355
Fax #: (919) 707-8355
email: Keith.Snavely@ncdenr.gov

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Raleigh, NC 27699

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Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Friday, October 18, 2013 4:12 PM
To: Antrilli, Vincent
Cc: Snavely, Keith; Ed Woloszyn
Subject: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Vince,

Brett Watson's POE system has a leak in one of the valves that were installed by Carbonair in 2011. Carbonair's warranty is only for one year so it has expired. We can send a technician to the site from our Greensboro office to repair the valve. It will probably be around $500 to fix the leak. Please confirm if you want us to take care of the leak and I will send you a quick estimate for your approval.

Thanks,
Whit

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
Ph: 919.872.2660
Fax: 919.876.3958
Mobile: 919.793.4699
wrawls@smeinc.com
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Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Friday, October 18, 2013 5:03 PM
To: Snavely, Keith
Subject: RE: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Will do. Thanks.

From: Snavely, Keith [mailto:keith.snavely@ncdenr.gov]
Sent: Friday, October 18, 2013 4:38 PM
To: Whit Rawls
Subject: RE: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Go ahead and send me the proposal so and can get it back to asap to you can schedule the work.

Keith

From: Whit Rawls [mailto:WRawls@smeinc.com]
Sent: Friday, October 18, 2013 4:12 PM
To: Antrilli, Vincent
Cc: Snavely, Keith; Ed Woloszyn
Subject: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Vince,

Brett Watson's POE system has a leak in one of the valves that were installed by Carbonair in 2011. Carbonair's warranty is only for one year so it has expired. We can send a technician to the site from our Greensboro office to repair the valve. It will probably be around $500 to fix the leak. Please confirm if you want us to take care of the leak and I will send you a quick estimate for your approval.

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Whit

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Snavely, Keith

From: Antrilli, Vincent
Sent: Monday, October 21, 2013 8:34 AM
To: Whit Rawls
Cc: Snavely, Keith; Ed Woloszyn
Subject: RE: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Whit,
Yes. Please take care of it.

Keith,
I think this one was paid out of IHSCF so you will need to let Charlotte know about the expense.

Vince

From: Whit Rawls [mailto:WRawls@smeinc.com]
Sent: Friday, October 18, 2013 4:12 PM
To: Antrilli, Vincent
Cc: Snavely, Keith; Ed Woloszyn
Subject: Watson POE System - Woodleaf Rd Site - Salisbury - Leak

Vince,

Brett Watson's POE system has a leak in one of the valves that were installed by Carbonair in 2011. Carbonair's warranty is only for one year so it has expired. We can send a technician to the site from our Greensboro office to repair the valve. It will probably be around $500 to fix the leak. Please confirm if you want us to take care of the leak and I will send you a quick estimate for your approval.

Thanks,
Whit

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Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Tuesday, October 22, 2013 2:13 PM
To: Snavely, Keith
Cc: Antrilli, Vincent; Ed Woloszyn
Subject: Fee Estimate - Watson POE System - Leak Repair
Attachments: Table 1 Cost Estimate_Watson POE Additional Maintenance - Leak Repair.pdf

Keith,

Attached is a fee estimate for S&ME to provide additional maintenance services for the point-of-entry (POE) drinking water treatment system located at 3150 Woodleaf Road, Salisbury, NC (Brett and Susan Watson). This fee estimate is in reponse to Mr. Vince Antrilli's request for S&ME to repair the leak via email dated October 21, 2013.

According to the Watsons, there is a leak near one of the pvc components of the POE system. An S&ME technician will mobilize from the Greensboro, NC office to the site and will provide the necessary materials to complete the repair. No samples will be collected during this maintenance event.

Your email response will be considered a Task Authorization for S&ME to proceed with the work described herein.

Please let me know if you have any questions. Thanks for the opportunity to serve IHSB.

Whit

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
Ph: 919.872.2660
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Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Tuesday, October 22, 2013 3:01 PM
To: Snavely, Keith
Cc: Antrilli, Vincent; Ed Woloszyn
Subject: FW: Fee Estimate - Watson POE System - Leak Repair
Attachments: Table 1 Cost Estimate_Watson POE Additional Maintenance - Leak Repair.pdf

Keith- I have revised the Watson POE System Cost estimate that I sent you earlier to include task authorization, date of authorization and amount authorized fields. Please see the revised version attached here.

Thanks,
Whit

From: Whit Rawls
Sent: Tuesday, October 22, 2013 2:13 PM
To: Snavely, Keith
Cc: Antrilli, Vincent; Ed Woloszyn
Subject: Fee Estimate - Watson POE System - Leak Repair

Keith,

Attached is a fee estimate for S&ME to provide additional maintenance services for the point-of-entry (POE) drinking water treatment system located at 3150 Woodleaf Road, Salisbury, NC (Brett and Susan Watson). This fee estimate is in reponse to Mr. Vince Antrilli's request for S&ME to repair the leak via email dated October 21, 2013.

According to the Watsons, there is a leak near one of the pvc components of the POE system. An S&ME technician will mobilize from the Greensboro, NC office to the site and will provide the necessary materials to complete the repair. No samples will be collected during this maintenance event.

Your email response will be considered a Task Authorization for S&ME to proceed with the work described herein.

Please let me know if you have any questions. Thanks for the opportunity to serve IHSB.

Whit

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

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error please advise the sender by reply and delete this electronic message and any attachments. Please consider the environment before printing this email.

Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Monday, January 14, 2013 11:57 AM
To: Antrilli, Vincent
Cc: Snavely, Keith; Ed Woloszyn
Subject: Watson Residence - POE System Performance Monitoring - Analytical Results
Attachments: Watson POE - Analytical Results - 1-14-13.PDF

Dear Vince:

Attached please find the analytical results of potable water samples collected on 12/31/2012 at the Watson residence in Salisbury, NC. The collection of the potable water samples and the methods used to analyze the samples were performed in accordance with S&ME Proposal No. P138-12V dated December 18, 2012.

Potable water samples were collected from a point of entry drinking water system located at 3150 Woodleaf Road, North Carolina, following the procedures as described in our proposal. The samples were shipped to ENCO Laboratories and analyzed by US EPA Method 8260B.

The attached laboratory report is for your review.

If you have any questions or comments concerning these results, please do not hesitate to contact our office.

Sincerely,

Whit Rawls

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Monday, January 14, 2013

S&ME, Inc. (SM001)

Attn: Whit Rawls

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-2011, Project Name/Desc: Watson POE
ENCO Workorder(s): C215810

Dear Whit Rawls,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, January 3, 2013.

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 Cary. 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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 17

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	Influent	Lab ID: C215810-01	Sampled: 12/31/12 11:15	Received: 01/03/13 10:25
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	01/14/13	01/08/13	08:16	1/9/2013 00:17

Client ID:	Effluent	Lab ID: C215810-02	Sampled: 12/31/12 11:18	Received: 01/03/13 10:25
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	01/14/13	01/08/13	08:16	1/9/2013 00:47

Client ID:	Trip Blank	Lab ID: C215810-03	Sampled: 12/31/12 11:15	Received: 01/03/13 10:25
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	01/14/13	01/08/13	08:16	1/9/2013 01:17

SAMPLE DETECTION SUMMARY

Client ID: Influent			Lab ID: C215810-01				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Tetrachloroethene	2.2		0.17	1.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: Influent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-01
Sampled: 12/31/12 11:15
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	ND		ug/L	1	0.12	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	ND		ug/L	1	0.28	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,1-Dichloroethane [75-34-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,1-Dichloroethene [75-35-4] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	ND		ug/L	1	0.01	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2-Dibromoethane [106-93-4] ^	ND		ug/L	1	0.66	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2-Dichloroethane [107-06-2] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,2-Dichloropropane [78-87-5] ^	ND		ug/L	1	0.10	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,3-Dichlorobenzene [541-73-1] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
1,4-Dioxane [123-91-1] ^	ND		ug/L	1	25	60	3A08003	EPA 8260B	01/09/13 00:17	JKG	
2-Butanone [78-93-3] ^	ND		ug/L	1	1.3	5.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
2-Hexanone [591-78-6] ^	ND		ug/L	1	0.88	5.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	ND		ug/L	1	1.1	5.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Acetone [67-64-1] ^	ND		ug/L	1	1.2	5.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Benzene [71-43-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Bromochloromethane [74-97-5] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Bromodichloromethane [75-27-4] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Bromoform [75-25-2] ^	ND		ug/L	1	0.22	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Bromomethane [74-83-9] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Carbon disulfide [75-15-0] ^	ND		ug/L	1	1.5	5.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Carbon Tetrachloride [56-23-5] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Chlorobenzene [108-90-7] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Chloroethane [75-00-3] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Chloroform [67-66-3] ^	ND		ug/L	1	0.18	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Chloromethane [74-87-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Cyclohexane [110-82-7] ^	ND		ug/L	1	0.36	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Dibromochloromethane [124-48-1] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Dichlorodifluoromethane [75-71-8] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Ethylbenzene [100-41-4] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Freon 113 [76-13-1] ^	ND		ug/L	1	0.35	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Isopropylbenzene [98-82-8] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	ND		ug/L	1	0.17	2.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Methyl acetate [79-20-9] ^	ND		ug/L	1	0.51	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Methyl cyclohexane [108-87-2] ^	ND		ug/L	1	0.54	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Methylene Chloride [75-09-2] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	ND		ug/L	1	0.16	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
o-Xylene [95-47-6] ^	ND		ug/L	1	0.06	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Styrene [100-42-5] ^	ND		ug/L	1	0.11	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Tetrachloroethene [127-18-4] ^	**2.2**		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Toluene [108-88-3] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	

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Description: Influent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-01
Sampled: 12/31/12 11:15
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Trichloroethene [79-01-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Trichlorofluoromethane [75-69-4] ^	ND		ug/L	1	0.24	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	
Vinyl chloride [75-01-4] ^	ND		ug/L	1	0.32	1.0	3A08003	EPA 8260B	01/09/13 00:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*51-122*	*3A08003*	*EPA 8260B*	*01/09/13 00:17*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*3A08003*	*EPA 8260B*	*01/09/13 00:17*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3A08003*	*EPA 8260B*	*01/09/13 00:17*	*JKG*	

Description: Influent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-01
Sampled: 12/31/12 11:15
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1			3A08003	EPA 8260B	01/09/13 00:17	JKG	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Effluent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-02
Sampled: 12/31/12 11:18
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	ND		ug/L	1	0.12	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	ND		ug/L	1	0.28	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,1,2-Trichloroethane [79-00-5] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,1-Dichloroethane [75-34-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,1-Dichloroethene [75-35-4] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	ND		ug/L	1	0.01	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2-Dibromoethane [106-93-4] ^	ND		ug/L	1	0.66	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2-Dichlorobenzene [95-50-1] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2-Dichloroethane [107-06-2] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,2-Dichloropropane [78-87-5] ^	ND		ug/L	1	0.10	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,3-Dichlorobenzene [541-73-1] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,4-Dichlorobenzene [106-46-7] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
1,4-Dioxane [123-91-1] ^	ND		ug/L	1	25	60	3A08003	EPA 8260B	01/09/13 00:47	JKG	
2-Butanone [78-93-3] ^	ND		ug/L	1	1.3	5.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
2-Hexanone [591-78-6] ^	ND		ug/L	1	0.88	5.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
4-Methyl-2-pentanone [108-10-1] ^	ND		ug/L	1	1.1	5.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Acetone [67-64-1] ^	ND		ug/L	1	1.2	5.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Benzene [71-43-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Bromochloromethane [74-97-5] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Bromodichloromethane [75-27-4] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Bromoform [75-25-2] ^	ND		ug/L	1	0.22	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Bromomethane [74-83-9] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Carbon disulfide [75-15-0] ^	ND		ug/L	1	1.5	5.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Carbon Tetrachloride [56-23-5] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Chlorobenzene [108-90-7] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Chloroethane [75-00-3] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Chloroform [67-66-3] ^	ND		ug/L	1	0.18	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Chloromethane [74-87-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Cyclohexane [110-82-7] ^	ND		ug/L	1	0.36	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Dibromochloromethane [124-48-1] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Dichlorodifluoromethane [75-71-8] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Ethylbenzene [100-41-4] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Freon 113 [76-13-1] ^	ND		ug/L	1	0.35	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Isopropylbenzene [98-82-8] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	ND		ug/L	1	0.17	2.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Methyl acetate [79-20-9] ^	ND		ug/L	1	0.51	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Methyl cyclohexane [108-87-2] ^	ND		ug/L	1	0.54	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Methylene Chloride [75-09-2] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	ND		ug/L	1	0.16	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
o-Xylene [95-47-6] ^	ND		ug/L	1	0.06	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Styrene [100-42-5] ^	ND		ug/L	1	0.11	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Tetrachloroethene [127-18-4] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Toluene [108-88-3] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Trichloroethene [79-01-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	
Trichlorofluoromethane [75-69-4] ^	ND		ug/L	1	0.24	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	

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Description: Effluent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-02
Sampled: 12/31/12 11:18
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	ND		ug/L	1	0.32	1.0	3A08003	EPA 8260B	01/09/13 00:47	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*51-122*	*3A08003*	*EPA 8260B*	*01/09/13 00:47*	*JKG*	
Dibromofluoromethane	*39*	*1*	*50.0*	*79 %*	*68-117*	*3A08003*	*EPA 8260B*	*01/09/13 00:47*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3A08003*	*EPA 8260B*	*01/09/13 00:47*	*JKG*	

Description: Effluent
Matrix: Ground Water
Project: Watson POE

Lab Sample ID: C215810-02
Sampled: 12/31/12 11:18
Sampled By: jimmy gushell

Received: 01/03/13 10:25
Work Order: C215810

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1			3A08003	EPA 8260B	01/09/13 00:47	JKG	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Trip Blank
Matrix: Waste Water
Project: Watson POE

Lab Sample ID: C215810-03
Sampled: 12/31/12 11:15
Sampled By: ENCO

Received: 01/03/13 10:25
Work Order: C215810

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	ND		ug/L	1	0.12	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	ND		ug/L	1	0.28	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,1-Dichloroethane [75-34-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,1-Dichloroethene [75-35-4] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	ND		ug/L	1	0.01	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2-Dibromoethane [106-93-4] ^	ND		ug/L	1	0.66	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2-Dichloroethane [107-06-2] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,2-Dichloropropane [78-87-5] ^	ND		ug/L	1	0.10	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,3-Dichlorobenzene [541-73-1] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	ND		ug/L	1	0.19	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
1,4-Dioxane [123-91-1] ^	ND		ug/L	1	25	60	3A08003	EPA 8260B	01/09/13 01:17	JKG	
2-Butanone [78-93-3] ^	ND		ug/L	1	1.3	5.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
2-Hexanone [591-78-6] ^	ND		ug/L	1	0.88	5.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	ND		ug/L	1	1.1	5.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Acetone [67-64-1] ^	ND		ug/L	1	1.2	5.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Benzene [71-43-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Bromochloromethane [74-97-5] ^	ND		ug/L	1	0.48	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Bromodichloromethane [75-27-4] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Bromoform [75-25-2] ^	ND		ug/L	1	0.22	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Bromomethane [74-83-9] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Carbon disulfide [75-15-0] ^	ND		ug/L	1	1.5	5.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Carbon Tetrachloride [56-23-5] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Chlorobenzene [108-90-7] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Chloroethane [75-00-3] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Chloroform [67-66-3] ^	ND		ug/L	1	0.18	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Chloromethane [74-87-3] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Cyclohexane [110-82-7] ^	ND		ug/L	1	0.36	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Dibromochloromethane [124-48-1] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Dichlorodifluoromethane [75-71-8] ^	ND		ug/L	1	0.20	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Ethylbenzene [100-41-4] ^	ND		ug/L	1	0.13	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Freon 113 [76-13-1] ^	ND		ug/L	1	0.35	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Isopropylbenzene [98-82-8] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	ND		ug/L	1	0.17	2.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Methyl acetate [79-20-9] ^	ND		ug/L	1	0.51	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Methyl cyclohexane [108-87-2] ^	ND		ug/L	1	0.54	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Methylene Chloride [75-09-2] ^	ND		ug/L	1	0.23	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	ND		ug/L	1	0.16	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
o-Xylene [95-47-6] ^	ND		ug/L	1	0.06	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Styrene [100-42-5] ^	ND		ug/L	1	0.11	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Tetrachloroethene [127-18-4] ^	ND		ug/L	1	0.17	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Toluene [108-88-3] ^	ND		ug/L	1	0.14	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	ND		ug/L	1	0.21	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Trichloroethene [79-01-6] ^	ND		ug/L	1	0.15	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	
Trichlorofluoromethane [75-69-4] ^	ND		ug/L	1	0.24	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	

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Description: Trip Blank | **Lab Sample ID:** C215810-03 | **Received:** 01/03/13 10:25
Matrix: Waste Water | **Sampled:** 12/31/12 11:15 | **Work Order:** C215810
Project: Watson POE | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	ND		ug/L	1	0.32	1.0	3A08003	EPA 8260B	01/09/13 01:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*51-122*	*3A08003*	*EPA 8260B*	*01/09/13 01:17*	*JKG*	
Dibromofluoromethane	*40*	*1*	*50.0*	*79 %*	*68-117*	*3A08003*	*EPA 8260B*	*01/09/13 01:17*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*67-127*	*3A08003*	*EPA 8260B*	*01/09/13 01:17*	*JKG*	

Description: Trip Blank
Matrix: Waste Water
Project: Watson POE

Lab Sample ID: C215810-03
Sampled: 12/31/12 11:15
Sampled By: ENCO

Received: 01/03/13 10:25
Work Order: C215810

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	0.0	U	ug/L	1			3A08003	EPA 8260B	01/09/13 01:17	JKG	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A08003 - EPA 5030B_MS

Blank (3A08003-BLK1) Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 21:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3A08003 - EPA 5030B_MS

Blank (3A08003-BLK1) Continued Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 21:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*79*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

LCS (3A08003-BS1) Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 22:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		114	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*67-127*			

Matrix Spike (3A08003-MS1) Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 22:48

Source: C216014-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	108	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	103	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	107	74-119			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*80*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Matrix Spike Dup (3A08003-MSD1) Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 23:18

Source: C216014-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	103	75-133	7	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	95	81-134	7	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	102	83-117	5	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118	5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	14	22	
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

QUALITY CONTROL

Batch 3A08003 - EPA 5030B_MS

Blank (3A08003-BLK1) Prepared: 01/08/2013 08:16 Analyzed: 01/08/2013 21:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Page 1 of 1

Client Name: S&ME, Inc. (SM0011)	Project Number: 1054-11-2011
Address: 3201 Spring Forest Road	Project Name/Desc: Watson POE
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Whit Rawls
Sampler(s) Name, Affiliation (Print): Jimmy Goshell S&ME	Billing Contact: Accounts Payable
Signature(s):	Site Location / Time Zone: Smithfield NC

Requested Analyses: 8260B TCL SOM01.2 8260B TICs

Requested Turnaround Times

Note: Rush requests subject to acceptance by the lab(s)

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C215810

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Sample Comments
1	Influent	12-31-12	11:15	Grab	GW	3	X	
2	Effluent	12-31-12	11:18	Grab	GW	3	X	
-					GW	3	X	
3	Trip Blank:				WW	2	X	
						9	<-- Total # of Containers	

Sample Kit Prepared By: MGS	Date/Time: 12/20/12	Relinquished By	Date/Time: 01-02-13 8:15	Received By	Date/Time: 1-3-13 10:25
Comments/Special Reporting Requirements:		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.4°c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: H-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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

www.encolabs.com

Snavely, Keith

From: Candy Elliott <celliott@smeinc.com>
Sent: Monday, July 01, 2013 10:42 AM
To: Antrilli, Vincent
Cc: Snavely, Keith; Whit Rawls
Subject: Watson POE

Mr. Antrilli,
I hope this finds you well.
In regard to the above referenced site, located in Salisbury, Rowan County, North Carolina, we would like to know if you would like for S&ME to continue maintenance on the system. If so, would you like for us to prepare a cost estimate?
Thank you,

Candy Elliott, P.G.
Staff Geologist

ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616
Ph: 919-872-2660
Fax: 919-876-3958
Mobile: 919-818-5300
celliottl@smeinc.com
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Snavely, Keith

From: Antrilli, Vincent
Sent: Monday, July 01, 2013 10:48 AM
To: Candy Elliott
Cc: Snavely, Keith; Whit Rawls
Subject: RE: Watson POE

Please provide the proposal to continue maintenance on this POE.
Thanks,
Vince

From: Candy Elliott [mailto:celliott@smeinc.com]
Sent: Monday, July 01, 2013 10:42 AM
To: Antrilli, Vincent
Cc: Snavely, Keith; Whit Rawls
Subject: Watson POE

Mr. Antrilli,
I hope this finds you well.
In regard to the above referenced site, located in Salisbury, Rowan County, North Carolina, we would like to know if you would like for S&ME to continue maintenance on the system. If so, would you like for us to prepare a cost estimate?
Thank you,

Candy Elliott, P.G.
Staff Geologist

ENGINEERING INTEGRITY.

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Snavely, Keith

From: Antrilli, Vincent
Sent: Monday, November 19, 2012 7:42 AM
To: Whit Rawls
Cc: Snavely, Keith
Subject: RE: Watson POE (Woodleaf Rd - Salisbury) maintenance and sampling

Yes. This one will be paid through the Inactive Hazardous Sites Cleanup Fund.

From: Whit Rawls [mailto:WRawls@smeinc.com]
Sent: Friday, November 16, 2012 12:09 PM
To: Antrilli, Vincent
Subject: Watson POE (Woodleaf Rd - Salisbury) maintenance and sampling

Vince,

I just wanted to get confirmation from you that you would like us to provide a proposal to sample and maintain the Watson POE system at 3150 Woodleaf Road in Salisbury.

Thanks,

Whit

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
Ph: 919.872.2660
Fax: 919.876.3958
Mobile: 919.793.4699
wrawls@smeinc.com
www.smeinc.com

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Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Tuesday, December 18, 2012 3:17 PM
To: Snavely, Keith; Antrilli, Vincent
Cc: Ed Woloszyn
Subject: Watson POE System - Annual Maintenance and Sampling Proposal and Cost Estimate
Attachments: P138-12V Watson POE System Maintenance and Sampling Proposal and Cost Estimate - 12182012.pdf

Keith and Vince,

Please see the attached proposal and cost estimate for annual maintenance and sampling for the Watson POE system site in Salisbury, NC.

Thanks,

Whit

Whit Rawls, P.E.
Project Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
Ph: 919.872.2660
Fax: 919.876.3958
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wrawls@smeinc.com
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December 18, 2012

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Inactive Hazardous Site Branch
Superfund Section
Green Square Complex
217 West Jones Street
Raleigh, North Carolina 27603

Attention: Mr. Keith Snavely, P.G. Keith.Snavely@ncdenr.gov
Hydrogeologist

Reference: Point of Entry (POE) System Maintenance and Performance Monitoring
Watson Residence
3150 Woodleaf Road, Salisbury, NC
NCDENR Contract #N10005S
S&ME, Inc. Proposal No. P138-12V

Dear Mr. Snavely:

S&ME, Inc. (S&ME) appreciates the opportunity to present this work plan and fee proposal to provide maintenance service and performance monitoring of the point of entry (POE) drinking water treatment system for the Watson residence located at 3150 Woodleaf Road, Salisbury (Rowan County) North Carolina. S&ME is submitting this proposal following NCDENR's Mr. Vince Antrilli's request for a cost estimate for maintenance of the POE at the Watson residence in an email dated November 19, 2012.

This proposal presents our scope of services, a schedule for completing the services, and a fee estimate. All services will be provided following the terms and conditions in Contract #N10005S between the North Carolina Department of Environment and Natural Resource (NCDENR) and S&ME. It is our understanding that NCDENR will issue a Task Authorization as notice to proceed with our proposed services.

PROJECT INTRODUCTION

On May 16, 2012, maintenance service was performed on an existing POE system at the Watson residence. The purpose of the POE system is to remove volatile organic compounds (VOCs) from the residence's potable water supply. The VOCs previously detected at the Watson's water supply well were tetrachloroethene (PCE), trichloroethene (TCE) and chloroform. On November 19, 2012, Mr. Antrilli of the Inactive Hazardous Sites Branch (IHSB) requested that S&ME provide a cost estimate to provide system performance monitoring and annual maintenance services for the Watson POE system

through 2013. The following scope of services was developed to address IHSB's request for services.

SCOPE OF SERVICES

TASK 1: Post-Maintenance Samples – December 2012

Carbonair of Salem, Virginia, serviced the Watson POE system on May 16, 2012. Carbonair removed the first (in series) granular activated carbon (GAC) filter and replaced it with the second GAC filter that had been in service since April 12, 2011. A new GAC filter will be installed as the second, in series filter. Carbonair also provided six replacement particle filter cartridges and replaced the bulb of the ultraviolet (UV) disinfection system.

To monitor the POE system's current performance after Carbonair's maintenance service, S&ME will mobilize to the site to collect potable water samples from the POE system. Water from the POE system will be purged by opening the spigot located at the effluent of the POE system and allowing the water to flow for 20 minutes. After the water is purged from the system, one water sample will be collected from the POE system influent (untreated water) and one water sample will be collected from the effluent of the first GAC filter tank (treated water) for the purpose of monitoring the performance of the POE system's capacity to remove VOCs from the water supply. The collected water samples will be analyzed by an NCDENR-approved analytical laboratory by US EPA method 8260B. S&ME will submit only the laboratory analytical report to IHSB via email without interpretation of the results.

TASK 2: POE System Maintenance – May 2013

S&ME's POE System Maintenance Service will consist of replacing the first GAC filter in series with the second GAC filter and then replacing the second GAC filter with a fresh, unused GAC filter. S&ME will also provide the Watson residence with 16 replacement particle filters and will replace the system's UV bulb with a new UV bulb.

TASK 3: Post-Maintenance Samples – May 2013

Following the POE System Maintenance Service described in **Task 2**, S&ME will return to the site within one week to collect a set of potable water samples using the same procedures used for the POE system sampling event described in **Task 1**. S&ME will submit only the laboratory analytical report to IHSB via email without interpretation of the results.

SCHEDULE

S&ME will mobilize to the site to collect 2012 Post-Maintenance samples within one week of receiving the Task Authorization. The 2013 POE system maintenance will be conducted in May 2013, approximately one year following the 2012 POE system maintenance service. S&ME will mobilize to the site within one week of completing the 2013 POE system maintenance service to collect Post-Maintenance samples.

ASSOCIATED FEES

The services described herein will be provided on a time and materials basis in accordance with our contract fee schedule. The budget for the scope of services described in this proposal is approximately **$3,200.** The proposed fee is based on the attached itemized fee sheet (**Table** 1), in accordance with our fee schedule.

AUTHORIZATION

It is our understanding that IHSB will authorize these services by executing the signatory section below and returning a copy to our office. Once in receipt of the authorization, S&ME will proceed with our services.

We trust that this revised work plan and fee proposal is responsive to your needs. S&ME welcomes the opportunity to assist IHSB. Please contact us at (919) 872-2660 if you have any questions or comments regarding this proposal.

Sincerely,
S&ME, Inc.

Whit Rawls, P.E.
Project Engineer

Edmund Woloszyn, Jr., R.E.M.
Senior Consultant

DATE OF AUTHORIZATION:_____

AMOUNT AUTHORIZED:_____

AUTHORIZED BY:_____

Attachments: Table 1 - Itemized Fees

Table 1
Itemized Fees
Watson POE
DENR Contract #N10005S
S&ME Proposal No. P138-12V
December 18, 2012

TASK 1: POST-MAINTENANCE SAMPLES	Units		Rates		Subtotal	Fee/Task
Administrative						
Project Professional Labor	2	hr@	$ 85.00	/hr	$ 170.00	
Clerical	1	hrs@	$ 42.50	/hr	$ 42.50	
Field Support and Analytical						
Technician Labor	5	hrs@	$ 60.00	/hr	$ 300.00	$ 826.00
Technician Mileage - Mobilization to Salisbury, NC from Greensboro, NC	150	miles @	$ 0.55	/mi	$ 82.50	
Influent Sample - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	
Effluent - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	
Trip Blank - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	

TASK 2: POE SYSTEM MAINTENANCE	Units		Rates		Subtotal	Fee/Task
Administrative						
Staff Professional Labor	2	hr@	$ 85.00	/hr	$ 170.00	
Clerical	0.5	hrs@	$ 42.50	/hr	$ 21.25	
Field Support						
Technician Labor	6	hrs @	$ 60.00	/hr	$ 360.00	
Technician Mileage - Mobilization to Salisbury, NC from Greensboro, NC	150	miles @	$ 0.55	/mi	$ 82.50	$ 1,455.29
POE System Materials						
Replacement UV bulb	1	ea @	$ 54.34	/ea	$ 54.34	
Replacement particle filter cartridges	16	ea @	$ 5.45	/ea	$ 87.20	
Replacement activated carbon filter	1	ea @	$ 485.00	/ea	$ 485.00	
Spent activated carbon disposal	1	ea @	$ 145.00	/ea	$ 145.00	
Miscellaneous Materials	1	ea @	$ 50.00	/ea	$ 50.00	

TASK 3: POST-MAINTENANCE SAMPLES	Units		Rates		Subtotal	Fee/Task
Administrative						
Staff Professional Labor	2	hr@	$ 85.00	/hr	$ 170.00	
Clerical	0.5	hrs@	$ 42.50	/hr	$ 21.25	
Field Support and Analytical						
Technician Labor	6	hrs@	$ 60.00	/hr	$ 360.00	$ 864.75
Technician Mileage - Mobilization to Salisbury, NC from Greensboro, NC	150	miles @	$ 0.55	/mi	$ 82.50	
Influent Sample - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	
Effluent - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	
Trip Blank - VOCs (8260B)	1	ea @	$ 77.00	/ea	$ 77.00	

Total Projected Fee	**$ 3,146.04**
Suggested Budget	**$ 3,200.00**

Snavely, Keith

From: Whit Rawls <WRawls@smeinc.com>
Sent: Monday, February 27, 2012 12:12 PM
To: Snavely, Keith; DeCarlo, Donna M
Cc: Antrilli, Vincent; Ed Woloszyn
Subject: Watson POE - Sampling Results
Attachments: C201507 FINAL 23 Feb 12 1017.PDF

Dear Keith and Donna:

Attached please find the analytical results of potable water samples collected on 2/8/2012 at the Watson POE site in Salisbury, NC. The collection of the potable water samples and the methods used to analyze the samples were performed in accordance with S&ME Proposal No. P050B-11V dated February 7, 2012.

Potable water samples were collected from a point of entry drinking water system located at 3150 Woodleaf Road, Salisbury, North Carolina following the procedures as described in our proposal. The samples were shipped to ENCO Laboratories and analyzed by US EPA Method 8260B.

The attached laboratory report is for your review. There were no compounds detected above laboratory detection limits in the POE system effluent (post-treatment) sample. Additionally, S&ME collected a "jar" sample from the effluent of the POE system for inspection. There was no evidence of any contamination in the sample.

S&ME will proceed with preventative maintenance of the POE system at the Watson residence in April 2012 as originally planned.

If you have any questions or comments concerning these results, please do not hesitate to contact our office.

Sincerely,

Whit Rawls

Whit Rawls, P.E.
Environmental Engineer
S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
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Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Thursday, February 23, 2012

S&ME, Inc. (SM001)

Attn: Whit Rawls

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-2011 Ph 1, Project Name/Desc: Watson POE
ENCO Workorder(s): C201507

Dear Whit Rawls,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, February 10, 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 Cary. 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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 12.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	Watson Influent	Lab ID: C201507-01	Sampled: 02/08/12 15:00	Received: 02/10/12 13:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	02/22/12	02/20/12	13:50	2/21/2012 01:32

Client ID:	Watson Effluent	Lab ID: C201507-02	Sampled: 02/08/12 15:10	Received: 02/10/12 13:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**		**Analysis Date/Time(s)**
EPA 8260B	02/22/12	02/20/12	13:50	2/21/2012 02:01

SAMPLE DETECTION SUMMARY

Client ID: Watson Influent			Lab ID: C201507-01				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Tetrachloroethene	1.4		0.17	1.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: Watson Influent
Matrix: Water
Project: Watson POE

Lab Sample ID: C201507-01
Sampled: 02/08/12 15:00
Sampled By: Gary Simcox

Received: 02/10/12 13:00
Work Order: C201507

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	ND		ug/L	1	0.12	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	ND		ug/L	1	0.28	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,1-Dichloroethane [75-34-3] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,1-Dichloroethene [75-35-4] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	ND		ug/L	1	0.01	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	ND		ug/L	1	0.48	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2-Dibromoethane [106-93-4] ^	ND		ug/L	1	0.66	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	ND		ug/L	1	0.19	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2-Dichloroethane [107-06-2] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,2-Dichloropropane [78-87-5] ^	ND		ug/L	1	0.10	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,3-Dichlorobenzene [541-73-1] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	ND		ug/L	1	0.19	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
1,4-Dioxane [123-91-1] ^	ND		ug/L	1	25	60	2B20029	EPA 8260B	02/21/12 01:32	JKG	
2-Butanone [78-93-3] ^	ND		ug/L	1	1.3	5.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
2-Hexanone [591-78-6] ^	ND		ug/L	1	0.88	5.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	ND		ug/L	1	1.1	5.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Acetone [67-64-1] ^	ND		ug/L	1	1.2	5.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Benzene [71-43-2] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Bromochloromethane [74-97-5] ^	ND		ug/L	1	0.48	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Bromodichloromethane [75-27-4] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Bromoform [75-25-2] ^	ND		ug/L	1	0.22	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Bromomethane [74-83-9] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Carbon disulfide [75-15-0] ^	ND		ug/L	1	1.5	5.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Carbon Tetrachloride [56-23-5] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Chlorobenzene [108-90-7] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Chloroethane [75-00-3] ^	ND		ug/L	1	0.23	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Chloroform [67-66-3] ^	ND		ug/L	1	0.18	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Chloromethane [74-87-3] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	ND		ug/L	1	0.20	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Cyclohexane [110-82-7] ^	ND		ug/L	1	0.36	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Dibromochloromethane [124-48-1] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Dichlorodifluoromethane [75-71-8] ^	ND		ug/L	1	0.20	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Ethylbenzene [100-41-4] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Freon 113 [76-13-1] ^	ND		ug/L	1	0.35	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Isopropylbenzene [98-82-8] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	ND		ug/L	1	0.17	2.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Methyl acetate [79-20-9] ^	ND		ug/L	1	0.51	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Methyl cyclohexane [108-87-2] ^	ND		ug/L	1	0.54	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Methylene Chloride [75-09-2] ^	ND		ug/L	1	0.23	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	ND		ug/L	1	0.16	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
o-Xylene [95-47-6] ^	ND		ug/L	1	0.06	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Styrene [100-42-5] ^	ND		ug/L	1	0.11	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Tetrachloroethene [127-18-4] ^	**1.4**		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Toluene [108-88-3] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	

Description: Watson Influent
Matrix: Water
Project: Watson POE

Lab Sample ID: C201507-01
Sampled: 02/08/12 15:00
Sampled By: Gary Simcox

Received: 02/10/12 13:00
Work Order: C201507

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Trichloroethene [79-01-6] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Trichlorofluoromethane [75-69-4] ^	ND		ug/L	1	0.24	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	
Vinyl chloride [75-01-4] ^	ND		ug/L	1	0.32	1.0	2B20029	EPA 8260B	02/21/12 01:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*2B20029*	*EPA 8260B*	*02/21/12 01:32*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*2B20029*	*EPA 8260B*	*02/21/12 01:32*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*67-127*	*2B20029*	*EPA 8260B*	*02/21/12 01:32*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Description: Watson Effluent
Matrix: Water
Project: Watson POE

Lab Sample ID: C201507-02
Sampled: 02/08/12 15:10
Sampled By: Gary Simcox

Received: 02/10/12 13:00
Work Order: C201507

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6] ^	ND		ug/L	1	0.12	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	ND		ug/L	1	0.28	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,1-Dichloroethane [75-34-3] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,1-Dichloroethene [75-35-4] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	ND		ug/L	1	0.01	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	ND		ug/L	1	0.48	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2-Dibromoethane [106-93-4] ^	ND		ug/L	1	0.66	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	ND		ug/L	1	0.19	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2-Dichloroethane [107-06-2] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,2-Dichloropropane [78-87-5] ^	ND		ug/L	1	0.10	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,3-Dichlorobenzene [541-73-1] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	ND		ug/L	1	0.19	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
1,4-Dioxane [123-91-1] ^	ND		ug/L	1	25	60	2B20029	EPA 8260B	02/21/12 02:01	JKG	
2-Butanone [78-93-3] ^	ND		ug/L	1	1.3	5.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
2-Hexanone [591-78-6] ^	ND		ug/L	1	0.88	5.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	ND		ug/L	1	1.1	5.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Acetone [67-64-1] ^	ND		ug/L	1	1.2	5.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Benzene [71-43-2] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Bromochloromethane [74-97-5] ^	ND		ug/L	1	0.48	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Bromodichloromethane [75-27-4] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Bromoform [75-25-2] ^	ND		ug/L	1	0.22	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Bromomethane [74-83-9] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Carbon disulfide [75-15-0] ^	ND		ug/L	1	1.5	5.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Carbon Tetrachloride [56-23-5] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Chlorobenzene [108-90-7] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Chloroethane [75-00-3] ^	ND		ug/L	1	0.23	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Chloroform [67-66-3] ^	ND		ug/L	1	0.18	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Chloromethane [74-87-3] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	ND		ug/L	1	0.20	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Cyclohexane [110-82-7] ^	ND		ug/L	1	0.36	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Dibromochloromethane [124-48-1] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Dichlorodifluoromethane [75-71-8] ^	ND		ug/L	1	0.20	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Ethylbenzene [100-41-4] ^	ND		ug/L	1	0.13	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Freon 113 [76-13-1] ^	ND		ug/L	1	0.35	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Isopropylbenzene [98-82-8] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	ND		ug/L	1	0.17	2.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Methyl acetate [79-20-9] ^	ND		ug/L	1	0.51	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Methyl cyclohexane [108-87-2] ^	ND		ug/L	1	0.54	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Methylene Chloride [75-09-2] ^	ND		ug/L	1	0.23	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	ND		ug/L	1	0.16	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
o-Xylene [95-47-6] ^	ND		ug/L	1	0.06	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Styrene [100-42-5] ^	ND		ug/L	1	0.11	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Tetrachloroethene [127-18-4] ^	ND		ug/L	1	0.17	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Toluene [108-88-3] ^	ND		ug/L	1	0.14	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	ND		ug/L	1	0.21	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Trichloroethene [79-01-6] ^	ND		ug/L	1	0.15	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	
Trichlorofluoromethane [75-69-4] ^	ND		ug/L	1	0.24	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	

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Description: Watson Effluent
Matrix: Water
Project: Watson POE

Lab Sample ID: C201507-02
Sampled: 02/08/12 15:10
Sampled By: Gary Simcox

Received: 02/10/12 13:00
Work Order: C201507

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	ND		ug/L	1	0.32	1.0	2B20029	EPA 8260B	02/21/12 02:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*51-122*	*2B20029*	*EPA 8260B*	*02/21/12 02:01*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*2B20029*	*EPA 8260B*	*02/21/12 02:01*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*67-127*	*2B20029*	*EPA 8260B*	*02/21/12 02:01*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2B20029 - EPA 5030B_MS

Blank (2B20029-BLK1) Prepared: 02/20/2012 13:50 Analyzed: 02/20/2012 23:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2B20029 - EPA 5030B_MS

Blank (2B20029-BLK1) Continued Prepared: 02/20/2012 13:50 Analyzed: 02/20/2012 23:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*67-127*			

LCS (2B20029-BS1) Prepared: 02/20/2012 13:50 Analyzed: 02/20/2012 23:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		118	75-133			
Benzene	21		1.0	ug/L	20.0		107	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Cyclohexane	25		1.0	ug/L	20.0		123	0-200			
Methyl acetate	21		1.0	ug/L	20.0		103	0-200			
Methyl cyclohexane	22		1.0	ug/L	20.0		110	0-200			
Toluene	22		1.0	ug/L	20.0		108	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*67-127*			

Matrix Spike (2B20029-MS1) Prepared: 02/20/2012 13:50 Analyzed: 02/21/2012 00:06

Source: C201614-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	123	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Cyclohexane	29		1.0	ug/L	20.0	0.36 U	143	0-200			
Methyl acetate	23		1.0	ug/L	20.0	0.51 U	114	0-200			
Methyl cyclohexane	24		1.0	ug/L	20.0	0.54 U	118	0-200			
Toluene	22		1.0	ug/L	20.0	0.14 U	110	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*67-127*			

Matrix Spike Dup (2B20029-MSD1) Prepared: 02/20/2012 13:50 Analyzed: 02/21/2012 00:35

Source: C201614-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133	13	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	6	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	93	83-117	6	16	
Cyclohexane	26		1.0	ug/L	20.0	0.36 U	128	0-200	11	50	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2B20029 - EPA 5030B_MS

Matrix Spike Dup (2B20029-MSD1) Continued Prepared: 02/20/2012 13:50 Analyzed: 02/21/2012 00:35

Source: C201614-12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl acetate	20		1.0	ug/L	20.0	0.51 U	100	0-200	13	50	
Methyl cyclohexane	22		1.0	ug/L	20.0	0.54 U	111	0-200	6	50	
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-118	8	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	75-115	8	18	
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: S&ME, INC.	Project Number: 1054-11-2011 PH 1
Address: 3201 SPRING FOREST ROAD	Project Name/Desc: WATSON POE
City/ST/Zip: RALEIGH, NC 27616	PO # / Billing Info:
Tel: 919 872 2660 / Fax:	Reporting Contact: WHIT RAWLS
Sampler(s) Name, Affiliation (Print): GARY SIMCOX, S&ME, INC.	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260 B

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C201507

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Sample Comments
	WATSON INFLUENT	2/8/12	1500	G	W	3	✓	
	WATSON EFFLUENT	2/8/12	1510	G	W	3	✓	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 2/9/12	Received By BRIANA BRIGGS	Date/Time 2/10/12 13:00
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.0°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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

www.encolabs.com

Snavely, Keith

From: Ed Woloszyn <EWoloszyn@smeinc.com>
Sent: Thursday, May 05, 2011 2:32 PM
To: Snavely, Keith
Cc: DeCarlo, Donna M; Walch, John
Subject: Laboratory Results for Watson POE effluent sample
Attachments: Sample Results Watson POE System.pdf

Hello Keith,

Though I know that you are out of the office, I wanted to issue the laboratory report as soon as I received them. Attached are the result from the water sample collected from the effluent of the recently installed POE system.

A letter report will be submitted next week.

Best regards,

E

Edmund Woloszyn, Jr., R.E.M.
Senior Consultant

S&ME
ENGINEERING INTEGRITY.

S&ME, Inc.
3201 Spring Forest Road
Raleigh NC 27616 Map
Ph: 919-872-2660
Fax: 919-876-3958
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ewoloszyn@smeinc.com
www.smeinc.com

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May 5, 2011

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Inactive Hazardous Site Branch, Superfund Section
401 Oberlin Road – Suite 150
Raleigh, North Carolina 27605

Attention: Mr. Keith Snavely, P.G. Keith.Snavely@ncdenr.gov
Hydrogeologist

Reference: Point of Entry (POE) Drinking Water Treatment System
Woodleaf Road & Ridge PCE Site/Watson Residence
3150 Woodleaf Road, Salisbury (Rowan Co.), NC 28147
NCDENR Contract #N10005S
S&ME Project No. 1054-11-2011

Dear Mr. Snavely:

Attached please find the analytical results of a drinking water sample collected on April 26, 2011 at the above-referenced project site. The methods used to collect and analyze the sample were performed in accordance with S&ME Proposal No. P050-11V Revision 1.0 dated March 24, 2011.

The collection of the water sample was at effluent of the POE system that was installed at the Watson residence following the procedures as described in our proposal. The samples were shipped to the Environmental Conservation Laboratories and analyzed by EPA Method 8260B. No positive results were reported by the laboratory.

The attached laboratory report is for your review prior to issuance of our final report. S&ME will provide you with a report that will present in detail the field and analytical methods used to collect and analyze the data, summarize the analytical results, and provide conclusions and recommendations.

If you have any questions or comments concerning these results, please do not hesitate to contact our office.

Sincerely,

S&ME, Inc.

Edmund Woloszyn, Jr. R.E.M.
Senior Consultant

Cc: Donna DeCarlo – IHSB
John Walch – IHSB

Attachment

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, May 5, 2011

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-2011, Project Name/Desc: 3150 Woodleaf Road
ENCO Workorder: C105143

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, April 27, 2011.

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 Cary. 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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 10.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: WSW-1	Lab ID: C105143-01	Sampled: 04/26/11 08:40	Received: 04/27/11 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	05/10/11	05/03/11 13:47	5/4/2011 09:48

SAMPLE DETECTION SUMMARY

No positive results detected.

www.encolabs.com

ANALYTICAL RESULTS

Description: WSW-1 | **Lab Sample ID:** C105143-01 | **Received:** 04/27/11 11:30

Matrix: Water | **Sampled:** 04/26/11 08:40 | **Work Order:** C105143

Project: 3150 Woodleaf Road | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	

Description: WSW-1 | **Lab Sample ID:** C105143-01 | **Received:** 04/27/11 11:30

Matrix: Water | **Sampled:** 04/26/11 08:40 | **Work Order:** C105143

Project: 3150 Woodleaf Road | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1E03024	EPA 8260B	05/04/11 09:48	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*107 %*	*51-122*	*1E03024*	*EPA 8260B*	*05/04/11 09:48*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1E03024*	*EPA 8260B*	*05/04/11 09:48*	*jkg*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*1E03024*	*EPA 8260B*	*05/04/11 09:48*	*jkg*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1E03024 - EPA 5030B_MS

Blank (1E03024-BLK1) Prepared: 05/03/2011 13:47 Analyzed: 05/04/2011 00:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1E03024 - EPA 5030B_MS

Blank (1E03024-BLK1) Continued Prepared: 05/03/2011 13:47 Analyzed: 05/04/2011 00:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*69-110*			

LCS (1E03024-BS1) Prepared: 05/03/2011 13:47 Analyzed: 05/04/2011 01:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		94	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*103*	*69-110*			

Matrix Spike (1E03024-MS1) Prepared: 05/03/2011 13:47 Analyzed: 05/04/2011 01:55

Source: C105160-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.60 U	96	75-133			
Benzene	20		1.0	ug/L	20.0	0.68 U	99	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	103	83-117			
Toluene	19		1.0	ug/L	20.0	0.85 U	96	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	102	75-115			
Surrogate: 4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*108*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1E03024 - EPA 5030B_MS

Matrix Spike Dup (1E03024-MSD1) Prepared: 05/03/2011 13:47 Analyzed: 05/04/2011 02:24

Source: C105160-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.60 U	87	75-133	9	20	
Benzene	18		1.0	ug/L	20.0	0.68 U	91	81-134	9	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	93	83-117	10	16	
Toluene	18		1.0	ug/L	20.0	0.85 U	88	71-118	9	17	
Trichloroethene	19		1.0	ug/L	20.0	0.72 U	94	75-115	9	18	
Surrogate: 4-Bromofluorobenzene	*53*			*ug/L*	*50.0*		*106*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*52*			*ug/L*	*50.0*		*104*	*69-110*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page ____ of ____

Client Name: S&ME, Inc.	Project Number: 1054-11-[redacted] 2011
Address: 3201 Spring Forest Road	Project Name/Desc: 3150 Woodleaf Road
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: 919 872 2660 Fax:	Reporting Contact: Ed Wolozyn
Sampler(s) Name, Affiliation (Print): Gary Simcox	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260 B

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C105143

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)	Sample Comments
	MSW-1	4/26/11	0840	G	WT	3	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 4/27/11 0915	Received By Jamie Shaden	Date/Time 4/27/11 1130
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.0°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

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

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO NaOH O-Other (detail in comments)

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.

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