Woodleaf & Ridge PCE
NONCD 000 2898

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

Report Summary

Tuesday May 13, 2014

Report Number: L697758
Samples Received: 05/08/14
Client Project: 10564-11-2011

Description: Watson POE System

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Tom Mellette

Tom Mellette , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences.
Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-01

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : INFLUENT

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/13/14	1
Acrolein	BDL	50.	ug/l	8260B	05/13/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/13/14	1
Benzene	BDL	1.0	ug/l	8260B	05/13/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/13/14	1
Bromoform	BDL	1.0	ug/l	8260B	05/13/14	1
Bromomethane	BDL	5.0	ug/l	8260B	05/13/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/13/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/13/14	1
Chloroethane	BDL	5.0	ug/l	8260B	05/13/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/13/14	1
Chloroform	BDL	5.0	ug/l	8260B	05/13/14	1
Chloromethane	BDL	2.5	ug/l	8260B	05/13/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/13/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/13/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/13/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/13/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/13/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/13/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/13/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/13/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/13/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/13/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/13/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/13/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/13/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/13/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/13/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/13/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	05/13/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/13/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-01

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : INFLUENT

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/13/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/13/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/13/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/13/14	1
Naphthalene	BDL	5.0	ug/l	8260B	05/13/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Styrene	BDL	1.0	ug/l	8260B	05/13/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/13/14	1
Toluene	BDL	5.0	ug/l	8260B	05/13/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/13/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/13/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/13/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/13/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	05/13/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/13/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/13/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/13/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	05/13/14	1
Dibromofluoromethane	90.4		% Rec.	8260B	05/13/14	1
4-Bromofluorobenzene	102.		% Rec.	8260B	05/13/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/13/14 16:27 Printed: 05/13/14 16:27

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-02

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : EFFLUENT

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/09/14	1
Acrolein	BDL	50.	ug/l	8260B	05/09/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/09/14	1
Benzene	BDL	1.0	ug/l	8260B	05/09/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/09/14	1
Bromoform	BDL	1.0	ug/l	8260B	05/09/14	1
Bromomethane	BDL	5.0	ug/l	8260B	05/09/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/09/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/09/14	1
Chloroethane	BDL	5.0	ug/l	8260B	05/09/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/09/14	1
Chloroform	BDL	5.0	ug/l	8260B	05/09/14	1
Chloromethane	BDL	2.5	ug/l	8260B	05/09/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/09/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/09/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/09/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/09/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/09/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	05/09/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-02

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : EFFLUENT

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/09/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/09/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/09/14	1
Naphthalene	BDL	5.0	ug/l	8260B	05/09/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Styrene	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
Toluene	BDL	5.0	ug/l	8260B	05/09/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/09/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	05/09/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/09/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/09/14	1
Surrogate Recovery						
Toluene-d8	99.6		% Rec.	8260B	05/09/14	1
Dibromofluoromethane	93.9		% Rec.	8260B	05/09/14	1
4-Bromofluorobenzene	108.		% Rec.	8260B	05/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/13/14 16:27 Printed: 05/13/14 16:27

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-03

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : TRIPBLANK

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	05/09/14	1
Acrolein	BDL	50.	ug/l	8260B	05/09/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	05/09/14	1
Benzene	BDL	1.0	ug/l	8260B	05/09/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	05/09/14	1
Bromoform	BDL	1.0	ug/l	8260B	05/09/14	1
Bromomethane	BDL	5.0	ug/l	8260B	05/09/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	05/09/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	05/09/14	1
Chloroethane	BDL	5.0	ug/l	8260B	05/09/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	05/09/14	1
Chloroform	BDL	5.0	ug/l	8260B	05/09/14	1
Chloromethane	BDL	2.5	ug/l	8260B	05/09/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	05/09/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	05/09/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	05/09/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	05/09/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	05/09/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	05/09/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	05/09/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	05/09/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	05/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Whit Rawls / Ed Woloszyn
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 13,2014

ESC Sample # : L697758-03

Date Received : May 08, 2014
Description : Watson POE System

Site ID :

Sample ID : TRIPBLANK

Project # : 10564-11-2011

Collected By : Amanda Bloom
Collection Date : 05/07/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	05/09/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	05/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	05/09/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	05/09/14	1
Naphthalene	BDL	5.0	ug/l	8260B	05/09/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Styrene	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
Toluene	BDL	5.0	ug/l	8260B	05/09/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	05/09/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	05/09/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	05/09/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	05/09/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	05/09/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	05/09/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	05/09/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/09/14	1
Dibromofluoromethane	94.1		% Rec.	8260B	05/09/14	1
4-Bromofluorobenzene	105.		% Rec.	8260B	05/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/13/14 16:27 Printed: 05/13/14 16:27

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L697758-01	WG720574	SAMP	p-Isopropyltoluene	R2920325	J4
	WG720574	SAMP	Tetrachloroethene	R2920325	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
05/13/14 at 16:27:27

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L697758-01 Account: SMERLNC Received: 05/08/14 09:00 Due Date: 05/15/14 00:00 RPT Date: 05/13/14 16:27

Sample: L697758-02 Account: SMERLNC Received: 05/08/14 09:00 Due Date: 05/15/14 00:00 RPT Date: 05/13/14 16:27

Sample: L697758-03 Account: SMERLNC Received: 05/08/14 09:00 Due Date: 05/15/14 00:00 RPT Date: 05/13/14 16:27

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,1,1-Trichloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,1,2-Trichloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,1-Dichloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,1-Dichloroethene	< .001	mg/l			WG719976	05/09/14 13:36
1,1-Dichloropropene	< .001	mg/l			WG719976	05/09/14 13:36
1,2,3-Trichlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,2,3-Trichloropropane	< .001	mg/l			WG719976	05/09/14 13:36
1,2,4-Trichlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,2,4-Trimethylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG719976	05/09/14 13:36
1,2-Dibromoethane	< .001	mg/l			WG719976	05/09/14 13:36
1,2-Dichlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,2-Dichloroethane	< .001	mg/l			WG719976	05/09/14 13:36
1,2-Dichloropropane	< .001	mg/l			WG719976	05/09/14 13:36
1,3,5-Trimethylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,3-Dichlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
1,3-Dichloropropane	< .001	mg/l			WG719976	05/09/14 13:36
1,4-Dichlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
2,2-Dichloropropane	< .001	mg/l			WG719976	05/09/14 13:36
2-Butanone (MEK)	< .01	mg/l			WG719976	05/09/14 13:36
2-Chloroethyl vinyl ether	< .05	mg/l			WG719976	05/09/14 13:36
2-Chlorotoluene	< .001	mg/l			WG719976	05/09/14 13:36
4-Chlorotoluene	< .001	mg/l			WG719976	05/09/14 13:36
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG719976	05/09/14 13:36
Acetone	< .05	mg/l			WG719976	05/09/14 13:36
Acrolein	< .025	mg/l			WG719976	05/09/14 13:36
Acrylonitrile	< .01	mg/l			WG719976	05/09/14 13:36
Benzene	< .001	mg/l			WG719976	05/09/14 13:36
Bromobenzene	< .001	mg/l			WG719976	05/09/14 13:36
Bromodichloromethane	< .001	mg/l			WG719976	05/09/14 13:36
Bromoform	< .001	mg/l			WG719976	05/09/14 13:36
Bromomethane	< .005	mg/l			WG719976	05/09/14 13:36
Carbon tetrachloride	< .001	mg/l			WG719976	05/09/14 13:36
Chlorobenzene	< .001	mg/l			WG719976	05/09/14 13:36
Chlorodibromomethane	< .001	mg/l			WG719976	05/09/14 13:36
Chloroethane	< .005	mg/l			WG719976	05/09/14 13:36
Chloroform	< .005	mg/l			WG719976	05/09/14 13:36
Chloromethane	< .0025	mg/l			WG719976	05/09/14 13:36
cis-1,2-Dichloroethene	< .001	mg/l			WG719976	05/09/14 13:36
cis-1,3-Dichloropropene	< .001	mg/l			WG719976	05/09/14 13:36
Di-isopropyl ether	< .001	mg/l			WG719976	05/09/14 13:36
Dibromomethane	< .001	mg/l			WG719976	05/09/14 13:36
Dichlorodifluoromethane	< .005	mg/l			WG719976	05/09/14 13:36
Ethylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
Hexachloro-1,3-butadiene	< .001	mg/l			WG719976	05/09/14 13:36
Isopropylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
Methyl tert-butyl ether	< .001	mg/l			WG719976	05/09/14 13:36
Methylene Chloride	< .005	mg/l			WG719976	05/09/14 13:36
n-Butylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
n-Propylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
Naphthalene	< .005	mg/l			WG719976	05/09/14 13:36
p-Isopropyltoluene	< .001	mg/l			WG719976	05/09/14 13:36
sec-Butylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
Styrene	< .001	mg/l			WG719976	05/09/14 13:36
tert-Butylbenzene	< .001	mg/l			WG719976	05/09/14 13:36
Tetrachloroethene	< .001	mg/l			WG719976	05/09/14 13:36
Toluene	< .005	mg/l			WG719976	05/09/14 13:36

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,2-Dichloroethene	< .001	mg/l			WG719976	05/09/14 13:36
trans-1,3-Dichloropropene	< .001	mg/l			WG719976	05/09/14 13:36
Trichloroethene	< .001	mg/l			WG719976	05/09/14 13:36
Trichlorofluoromethane	< .005	mg/l			WG719976	05/09/14 13:36
Vinyl chloride	< .001	mg/l			WG719976	05/09/14 13:36
Xylenes, Total	< .003	mg/l			WG719976	05/09/14 13:36
4-Bromofluorobenzene		% Rec.	105.0	71-126	WG719976	05/09/14 13:36
Dibromofluoromethane		% Rec.	97.10	78.3-121	WG719976	05/09/14 13:36
Toluene-d8		% Rec.	101.0	88.5-111	WG719976	05/09/14 13:36
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,1,1-Trichloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,1,2-Trichloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,1-Dichloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,1-Dichloroethene	< .001	mg/l			WG720574	05/13/14 12:34
1,1-Dichloropropene	< .001	mg/l			WG720574	05/13/14 12:34
1,2,3-Trichlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,2,3-Trichloropropane	< .001	mg/l			WG720574	05/13/14 12:34
1,2,4-Trichlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,2,4-Trimethylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG720574	05/13/14 12:34
1,2-Dibromoethane	< .001	mg/l			WG720574	05/13/14 12:34
1,2-Dichlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,2-Dichloroethane	< .001	mg/l			WG720574	05/13/14 12:34
1,2-Dichloropropane	< .001	mg/l			WG720574	05/13/14 12:34
1,3,5-Trimethylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,3-Dichlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
1,3-Dichloropropane	< .001	mg/l			WG720574	05/13/14 12:34
1,4-Dichlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
2,2-Dichloropropane	< .001	mg/l			WG720574	05/13/14 12:34
2-Butanone (MEK)	< .01	mg/l			WG720574	05/13/14 12:34
2-Chloroethyl vinyl ether	< .05	mg/l			WG720574	05/13/14 12:34
2-Chlorotoluene	< .001	mg/l			WG720574	05/13/14 12:34
4-Chlorotoluene	< .001	mg/l			WG720574	05/13/14 12:34
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG720574	05/13/14 12:34
Acetone	< .05	mg/l			WG720574	05/13/14 12:34
Acrolein	< .025	mg/l			WG720574	05/13/14 12:34
Acrylonitrile	< .01	mg/l			WG720574	05/13/14 12:34
Benzene	< .001	mg/l			WG720574	05/13/14 12:34
Bromobenzene	< .001	mg/l			WG720574	05/13/14 12:34
Bromodichloromethane	< .001	mg/l			WG720574	05/13/14 12:34
Bromoform	< .001	mg/l			WG720574	05/13/14 12:34
Bromomethane	< .005	mg/l			WG720574	05/13/14 12:34
Carbon tetrachloride	< .001	mg/l			WG720574	05/13/14 12:34
Chlorobenzene	< .001	mg/l			WG720574	05/13/14 12:34
Chlorodibromomethane	< .001	mg/l			WG720574	05/13/14 12:34
Chloroethane	< .005	mg/l			WG720574	05/13/14 12:34
Chloroform	< .005	mg/l			WG720574	05/13/14 12:34
Chloromethane	< .0025	mg/l			WG720574	05/13/14 12:34
cis-1,2-Dichloroethene	< .001	mg/l			WG720574	05/13/14 12:34
cis-1,3-Dichloropropene	< .001	mg/l			WG720574	05/13/14 12:34
Di-isopropyl ether	< .001	mg/l			WG720574	05/13/14 12:34
Dibromomethane	< .001	mg/l			WG720574	05/13/14 12:34
Dichlorodifluoromethane	< .005	mg/l			WG720574	05/13/14 12:34
Ethylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
Hexachloro-1,3-butadiene	< .001	mg/l			WG720574	05/13/14 12:34
Isopropylbenzene	< .001	mg/l			WG720574	05/13/14 12:34

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Methyl tert-butyl ether	< .001	mg/l			WG720574	05/13/14 12:34
Methylene Chloride	< .005	mg/l			WG720574	05/13/14 12:34
n-Butylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
n-Propylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
Naphthalene	< .005	mg/l			WG720574	05/13/14 12:34
p-Isopropyltoluene	< .001	mg/l			WG720574	05/13/14 12:34
sec-Butylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
Styrene	< .001	mg/l			WG720574	05/13/14 12:34
tert-Butylbenzene	< .001	mg/l			WG720574	05/13/14 12:34
Tetrachloroethene	< .001	mg/l			WG720574	05/13/14 12:34
Toluene	< .005	mg/l			WG720574	05/13/14 12:34
trans-1,2-Dichloroethene	< .001	mg/l			WG720574	05/13/14 12:34
trans-1,3-Dichloropropene	< .001	mg/l			WG720574	05/13/14 12:34
Trichloroethene	< .001	mg/l			WG720574	05/13/14 12:34
Trichlorofluoromethane	< .005	mg/l			WG720574	05/13/14 12:34
Vinyl chloride	< .001	mg/l			WG720574	05/13/14 12:34
Xylenes, Total	< .003	mg/l			WG720574	05/13/14 12:34
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG720574	05/13/14 12:34
Dibromofluoromethane		% Rec.	92.00	78.3-121	WG720574	05/13/14 12:34
Toluene-d8		% Rec.	98.50	88.5-111	WG720574	05/13/14 12:34

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0263	105.	74.2-124	WG719976
1,1,1-Trichloroethane	mg/l	.025	0.0251	101.	73.2-123	WG719976
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0253	101.	70.7-122	WG719976
1,1,2-Trichloroethane	mg/l	.025	0.0270	108.	77.7-118	WG719976
1,1-Dichloroethane	mg/l	.025	0.0240	96.1	70.7-126	WG719976
1,1-Dichloroethene	mg/l	.025	0.0257	103.	67.8-129	WG719976
1,1-Dichloropropene	mg/l	.025	0.0254	102.	73.1-125	WG719976
1,2,3-Trichlorobenzene	mg/l	.025	0.0264	106.	64.9-135	WG719976
1,2,3-Trichloropropane	mg/l	.025	0.0251	101.	71.8-121	WG719976
1,2,4-Trichlorobenzene	mg/l	.025	0.0272	109.	69.7-136	WG719976
1,2,4-Trimethylbenzene	mg/l	.025	0.0260	104.	75-123	WG719976
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0240	96.1	65.4-128	WG719976
1,2-Dibromoethane	mg/l	.025	0.0263	105.	76.6-121	WG719976
1,2-Dichlorobenzene	mg/l	.025	0.0251	101.	78.4-117	WG719976
1,2-Dichloroethane	mg/l	.025	0.0246	98.3	68.8-124	WG719976
1,2-Dichloropropane	mg/l	.025	0.0245	98.1	76.5-119	WG719976
1,3,5-Trimethylbenzene	mg/l	.025	0.0269	108.	75.6-124	WG719976
1,3-Dichlorobenzene	mg/l	.025	0.0273	109.	70.8-128	WG719976
1,3-Dichloropropane	mg/l	.025	0.0251	100.	77.4-117	WG719976
1,4-Dichlorobenzene	mg/l	.025	0.0243	97.1	78.8-115	WG719976
2,2-Dichloropropane	mg/l	.025	0.0249	99.6	62.4-133	WG719976
2-Butanone (MEK)	mg/l	.125	0.125	99.8	55-149	WG719976
2-Chloroethyl vinyl ether	mg/l	.125	0.147	118.	43.8-150	WG719976
2-Chlorotoluene	mg/l	.025	0.0261	105.	74.7-122	WG719976
4-Chlorotoluene	mg/l	.025	0.0263	105.	77.5-120	WG719976
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.120	96.1	70.5-133	WG719976
Acetone	mg/l	.125	0.116	92.6	35.6-163	WG719976
Acrolein	mg/l	.125	0.134	107.	10-190	WG719976
Acrylonitrile	mg/l	.125	0.123	98.8	55.2-130	WG719976
Benzene	mg/l	.025	0.0243	97.4	74.8-121	WG719976
Bromobenzene	mg/l	.025	0.0255	102.	77.5-116	WG719976
Bromodichloromethane	mg/l	.025	0.0232	92.8	75.1-116	WG719976
Bromoform	mg/l	.025	0.0260	104.	67.5-130	WG719976
Bromomethane	mg/l	.025	0.0351	140.	49.9-162	WG719976
Carbon tetrachloride	mg/l	.025	0.0256	102.	70.2-123	WG719976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chlorobenzene	mg/l	.025	0.0265	106.	78.1-119	WG719976
Chlorodibromomethane	mg/l	.025	0.0260	104.	74-121	WG719976
Chloroethane	mg/l	.025	0.0257	103.	61.7-135	WG719976
Chloroform	mg/l	.025	0.0240	95.9	76-121	WG719976
Chloromethane	mg/l	.025	0.0245	98.1	61.5-129	WG719976
cis-1,2-Dichloroethene	mg/l	.025	0.0240	96.2	76-119	WG719976
cis-1,3-Dichloropropene	mg/l	.025	0.0256	102.	78.2-120	WG719976
Di-isopropyl ether	mg/l	.025	0.0236	94.5	65.6-132	WG719976
Dibromomethane	mg/l	.025	0.0249	99.6	79.5-118	WG719976
Dichlorodifluoromethane	mg/l	.025	0.0297	119.	54.8-135	WG719976
Ethylbenzene	mg/l	.025	0.0260	104.	78.8-122	WG719976
Hexachloro-1,3-butadiene	mg/l	.025	0.0260	104.	64.7-129	WG719976
Isopropylbenzene	mg/l	.025	0.0265	106.	78.6-132	WG719976
Methyl tert-butyl ether	mg/l	.025	0.0258	103.	71.2-126	WG719976
Methylene Chloride	mg/l	.025	0.0229	91.5	70.3-120	WG719976
n-Butylbenzene	mg/l	.025	0.0257	103.	76.2-126	WG719976
n-Propylbenzene	mg/l	.025	0.0264	106.	78.2-122	WG719976
Naphthalene	mg/l	.025	0.0248	99.2	68.4-128	WG719976
p-Isopropyltoluene	mg/l	.025	0.0271	108.	74-131	WG719976
sec-Butylbenzene	mg/l	.025	0.0268	107.	74.4-127	WG719976
Styrene	mg/l	.025	0.0258	103.	80.4-126	WG719976
tert-Butylbenzene	mg/l	.025	0.0269	108.	75.3-126	WG719976
Tetrachloroethene	mg/l	.025	0.0278	111.	72.6-126	WG719976
Toluene	mg/l	.025	0.0247	98.6	79.7-116	WG719976
trans-1,2-Dichloroethene	mg/l	.025	0.0240	95.9	72.6-121	WG719976
trans-1,3-Dichloropropene	mg/l	.025	0.0248	99.4	74.3-123	WG719976
Trichloroethene	mg/l	.025	0.0274	109.	77.7-118	WG719976
Trichlorofluoromethane	mg/l	.025	0.0267	107.	63.5-135	WG719976
Vinyl chloride	mg/l	.025	0.0269	108.	65.9-128	WG719976
Xylenes, Total	mg/l	.075	0.0780	104.	78.7-121	WG719976
4-Bromofluorobenzene				103.0	71-126	WG719976
Dibromofluoromethane				101.0	78.3-121	WG719976
Toluene-d8				102.0	88.5-111	WG719976
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0297	119.	74.2-124	WG720574
1,1,1-Trichloroethane	mg/l	.025	0.0245	98.1	73.2-123	WG720574
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0253	101.	70.7-122	WG720574
1,1,2-Trichloroethane	mg/l	.025	0.0263	105.	77.7-118	WG720574
1,1-Dichloroethane	mg/l	.025	0.0245	98.0	70.7-126	WG720574
1,1-Dichloroethene	mg/l	.025	0.0235	94.0	67.8-129	WG720574
1,1-Dichloropropene	mg/l	.025	0.0246	98.2	73.1-125	WG720574
1,2,3-Trichlorobenzene	mg/l	.025	0.0285	114.	64.9-135	WG720574
1,2,3-Trichloropropane	mg/l	.025	0.0263	105.	71.8-121	WG720574
1,2,4-Trichlorobenzene	mg/l	.025	0.0297	119.	69.7-136	WG720574
1,2,4-Trimethylbenzene	mg/l	.025	0.0303	121.	75-123	WG720574
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0228	91.2	65.4-128	WG720574
1,2-Dibromoethane	mg/l	.025	0.0273	109.	76.6-121	WG720574
1,2-Dichlorobenzene	mg/l	.025	0.0277	111.	78.4-117	WG720574
1,2-Dichloroethane	mg/l	.025	0.0214	85.5	68.8-124	WG720574
1,2-Dichloropropane	mg/l	.025	0.0257	103.	76.5-119	WG720574
1,3,5-Trimethylbenzene	mg/l	.025	0.0297	119.	75.6-124	WG720574
1,3-Dichlorobenzene	mg/l	.025	0.0299	120.	70.8-128	WG720574
1,3-Dichloropropane	mg/l	.025	0.0246	98.3	77.4-117	WG720574
1,4-Dichlorobenzene	mg/l	.025	0.0261	104.	78.8-115	WG720574
2,2-Dichloropropane	mg/l	.025	0.0268	107.	62.4-133	WG720574
2-Butanone (MEK)	mg/l	.125	0.0887	71.0	55-149	WG720574
2-Chloroethyl vinyl ether	mg/l	.125	0.180	144.	43.8-150	WG720574
2-Chlorotoluene	mg/l	.025	0.0292	117.	74.7-122	WG720574

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
4-Chlorotoluene	mg/l	.025	0.0287	115.	77.5-120	WG720574
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.112	89.3	70.5-133	WG720574
Acetone	mg/l	.125	0.101	80.5	35.6-163	WG720574
Acrolein	mg/l	.125	0.111	89.0	10-190	WG720574
Acrylonitrile	mg/l	.125	0.108	86.8	55.2-130	WG720574
Benzene	mg/l	.025	0.0232	92.9	74.8-121	WG720574
Bromobenzene	mg/l	.025	0.0257	103.	77.5-116	WG720574
Bromodichloromethane	mg/l	.025	0.0257	103.	75.1-116	WG720574
Bromoform	mg/l	.025	0.0282	113.	67.5-130	WG720574
Bromomethane	mg/l	.025	0.0235	94.1	49.9-162	WG720574
Carbon tetrachloride	mg/l	.025	0.0265	106.	70.2-123	WG720574
Chlorobenzene	mg/l	.025	0.0296	118.	78.1-119	WG720574
Chlorodibromomethane	mg/l	.025	0.0278	111.	74-121	WG720574
Chloroethane	mg/l	.025	0.0224	89.7	61.7-135	WG720574
Chloroform	mg/l	.025	0.0241	96.4	76-121	WG720574
Chloromethane	mg/l	.025	0.0214	85.7	61.5-129	WG720574
cis-1,2-Dichloroethene	mg/l	.025	0.0254	102.	76-119	WG720574
cis-1,3-Dichloropropene	mg/l	.025	0.0272	109.	78.2-120	WG720574
Di-isopropyl ether	mg/l	.025	0.0232	92.7	65.6-132	WG720574
Dibromomethane	mg/l	.025	0.0240	95.8	79.5-118	WG720574
Dichlorodifluoromethane	mg/l	.025	0.0235	93.8	54.8-135	WG720574
Ethylbenzene	mg/l	.025	0.0296	119.	78.8-122	WG720574
Hexachloro-1,3-butadiene	mg/l	.025	0.0287	115.	64.7-129	WG720574
Isopropylbenzene	mg/l	.025	0.0307	123.	78.6-132	WG720574
Methyl tert-butyl ether	mg/l	.025	0.0237	94.8	71.2-126	WG720574
Methylene Chloride	mg/l	.025	0.0232	93.0	70.3-120	WG720574
n-Butylbenzene	mg/l	.025	0.0287	115.	76.2-126	WG720574
n-Propylbenzene	mg/l	.025	0.0281	113.	78.2-122	WG720574
Naphthalene	mg/l	.025	0.0240	95.9	68.4-128	WG720574
p-Isopropyltoluene	mg/l	.025	0.0330	132.*	74-131	WG720574
sec-Butylbenzene	mg/l	.025	0.0315	126.	74.4-127	WG720574
Styrene	mg/l	.025	0.0306	123.	80.4-126	WG720574
tert-Butylbenzene	mg/l	.025	0.0315	126.	75.3-126	WG720574
Tetrachloroethene	mg/l	.025	0.0319	128.*	72.6-126	WG720574
Toluene	mg/l	.025	0.0245	97.9	79.7-116	WG720574
trans-1,2-Dichloroethene	mg/l	.025	0.0270	108.	72.6-121	WG720574
trans-1,3-Dichloropropene	mg/l	.025	0.0258	103.	74.3-123	WG720574
Trichloroethene	mg/l	.025	0.0273	109.	77.7-118	WG720574
Trichlorofluoromethane	mg/l	.025	0.0258	103.	63.5-135	WG720574
Vinyl chloride	mg/l	.025	0.0231	92.6	65.9-128	WG720574
Xylenes, Total	mg/l	.075	0.0894	119.	78.7-121	WG720574
4-Bromofluorobenzene				99.60	71-126	WG720574
Dibromofluoromethane				98.70	78.3-121	WG720574
Toluene-d8				102.0	88.5-111	WG720574

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0270	0.0263	108.	74.2-124	2.77	20	WG719976
1,1,1-Trichloroethane	mg/l	0.0265	0.0251	106.	73.2-123	5.47	20	WG719976
1,1,2,2-Tetrachloroethane	mg/l	0.0243	0.0253	97.0	70.7-122	3.83	20	WG719976
1,1,2-Trichloroethane	mg/l	0.0264	0.0270	106.	77.7-118	2.10	20	WG719976
1,1-Dichloroethane	mg/l	0.0248	0.0240	99.0	70.7-126	3.26	20	WG719976
1,1-Dichloroethene	mg/l	0.0269	0.0257	107.	67.8-129	4.52	20	WG719976
1,1-Dichloropropene	mg/l	0.0263	0.0254	105.	73.1-125	3.51	20	WG719976
1,2,3-Trichlorobenzene	mg/l	0.0275	0.0264	110.	64.9-135	3.91	20	WG719976
1,2,3-Trichloropropane	mg/l	0.0236	0.0251	94.0	71.8-121	6.46	20	WG719976
1,2,4-Trichlorobenzene	mg/l	0.0282	0.0272	113.	69.7-136	3.57	20	WG719976
1,2,4-Trimethylbenzene	mg/l	0.0274	0.0260	110.	75-123	5.24	20	WG719976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0237	0.0240	95.0	65.4-128	1.53	20	WG719976
1,2-Dibromoethane	mg/l	0.0253	0.0263	101.	76.6-121	4.02	20	WG719976
1,2-Dichlorobenzene	mg/l	0.0258	0.0251	103.	78.4-117	2.75	20	WG719976
1,2-Dichloroethane	mg/l	0.0243	0.0246	97.0	68.8-124	1.00	20	WG719976
1,2-Dichloropropane	mg/l	0.0245	0.0245	98.0	76.5-119	0.0600	20	WG719976
1,3,5-Trimethylbenzene	mg/l	0.0284	0.0269	114.	75.6-124	5.40	20	WG719976
1,3-Dichlorobenzene	mg/l	0.0281	0.0273	112.	70.8-128	2.83	20	WG719976
1,3-Dichloropropane	mg/l	0.0248	0.0251	99.0	77.4-117	1.10	20	WG719976
1,4-Dichlorobenzene	mg/l	0.0253	0.0243	101.	78.8-115	4.01	20	WG719976
2,2-Dichloropropane	mg/l	0.0254	0.0249	102.	62.4-133	2.13	20	WG719976
2-Butanone (MEK)	mg/l	0.117	0.125	94.0	55-149	6.19	20	WG719976
2-Chloroethyl vinyl ether	mg/l	0.131	0.147	104.	43.8-150	12.1	20	WG719976
2-Chlorotoluene	mg/l	0.0276	0.0261	110.	74.7-122	5.49	20	WG719976
4-Chlorotoluene	mg/l	0.0271	0.0263	108.	77.5-120	2.84	20	WG719976
4-Methyl-2-pentanone (MIBK)	mg/l	0.116	0.120	92.0	70.5-133	3.88	20	WG719976
Acetone	mg/l	0.110	0.116	88.0	35.6-163	4.92	23.9	WG719976
Acrolein	mg/l	0.121	0.134	97.0	10-190	9.82	28.1	WG719976
Acrylonitrile	mg/l	0.113	0.123	90.0	55.2-130	8.89	20	WG719976
Benzene	mg/l	0.0250	0.0243	100.	74.8-121	2.53	20	WG719976
Bromobenzene	mg/l	0.0257	0.0255	103.	77.5-116	0.920	20	WG719976
Bromodichloromethane	mg/l	0.0232	0.0232	93.0	75.1-116	0.0900	20	WG719976
Bromoform	mg/l	0.0252	0.0260	101.	67.5-130	3.09	20	WG719976
Bromomethane	mg/l	0.0366	0.0351	146.	49.9-162	4.10	20	WG719976
Carbon tetrachloride	mg/l	0.0270	0.0256	108.	70.2-123	5.16	20	WG719976
Chlorobenzene	mg/l	0.0279	0.0265	111.	78.1-119	4.98	20	WG719976
Chlorodibromomethane	mg/l	0.0254	0.0260	102.	74-121	2.17	20	WG719976
Chloroethane	mg/l	0.0265	0.0257	106.	61.7-135	3.02	20	WG719976
Chloroform	mg/l	0.0246	0.0240	98.0	76-121	2.75	20	WG719976
Chloromethane	mg/l	0.0247	0.0245	99.0	61.5-129	0.670	20	WG719976
cis-1,2-Dichloroethene	mg/l	0.0244	0.0240	98.0	76-119	1.66	20	WG719976
cis-1,3-Dichloropropene	mg/l	0.0258	0.0256	103.	78.2-120	0.790	20	WG719976
Di-isopropyl ether	mg/l	0.0235	0.0236	94.0	65.6-132	0.630	20	WG719976
Dibromomethane	mg/l	0.0237	0.0249	95.0	79.5-118	5.01	20	WG719976
Dichlorodifluoromethane	mg/l	0.0308	0.0297	123.	54.8-135	3.68	20	WG719976
Ethylbenzene	mg/l	0.0274	0.0260	109.	78.8-122	5.04	20	WG719976
Hexachloro-1,3-butadiene	mg/l	0.0291	0.0260	116.	64.7-129	11.2	20	WG719976
Isopropylbenzene	mg/l	0.0281	0.0265	112.	78.6-132	5.73	20	WG719976
Methyl tert-butyl ether	mg/l	0.0234	0.0258	94.0	71.2-126	9.92	20	WG719976
Methylene Chloride	mg/l	0.0231	0.0229	92.0	70.3-120	0.790	20	WG719976
n-Butylbenzene	mg/l	0.0273	0.0257	109.	76.2-126	5.98	20	WG719976
n-Propylbenzene	mg/l	0.0280	0.0264	112.	78.2-122	5.72	20	WG719976
Naphthalene	mg/l	0.0245	0.0248	98.0	68.4-128	1.28	20	WG719976
p-Isopropyltoluene	mg/l	0.0290	0.0271	116.	74-131	6.69	20	WG719976
sec-Butylbenzene	mg/l	0.0286	0.0268	114.	74.4-127	6.19	20	WG719976
Styrene	mg/l	0.0260	0.0258	104.	80.4-126	0.940	20	WG719976
tert-Butylbenzene	mg/l	0.0287	0.0269	115.	75.3-126	6.42	20	WG719976
Tetrachloroethene	mg/l	0.0292	0.0278	117.	72.6-126	5.01	20	WG719976
Toluene	mg/l	0.0252	0.0247	101.	79.7-116	2.06	20	WG719976
trans-1,2-Dichloroethene	mg/l	0.0252	0.0240	101.	72.6-121	5.09	20	WG719976
trans-1,3-Dichloropropene	mg/l	0.0244	0.0248	98.0	74.3-123	1.86	20	WG719976
Trichloroethene	mg/l	0.0281	0.0274	112.	77.7-118	2.80	20	WG719976
Trichlorofluoromethane	mg/l	0.0286	0.0267	114.	63.5-135	6.77	20	WG719976
Vinyl chloride	mg/l	0.0283	0.0269	113.	65.9-128	4.89	20	WG719976
Xylenes, Total	mg/l	0.0813	0.0780	108.	78.7-121	4.23	20	WG719976
4-Bromofluorobenzene				103.0	71-126			WG719976
Dibromofluoromethane				96.70	78.3-121			WG719976
Toluene-d8				102.0	88.5-111			WG719976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0287	0.0297	115.	74.2-124	3.68	20	WG720574
1,1,1-Trichloroethane	mg/l	0.0246	0.0245	98.0	73.2-123	0.160	20	WG720574
1,1,2,2-Tetrachloroethane	mg/l	0.0241	0.0253	96.0	70.7-122	4.70	20	WG720574
1,1,2-Trichloroethane	mg/l	0.0255	0.0263	102.	77.7-118	3.40	20	WG720574
1,1-Dichloroethane	mg/l	0.0245	0.0245	98.0	70.7-126	0.0200	20	WG720574
1,1-Dichloroethene	mg/l	0.0239	0.0235	95.0	67.8-129	1.50	20	WG720574
1,1-Dichloropropene	mg/l	0.0248	0.0246	99.0	73.1-125	0.980	20	WG720574
1,2,3-Trichlorobenzene	mg/l	0.0266	0.0285	106.	64.9-135	6.97	20	WG720574
1,2,3-Trichloropropane	mg/l	0.0255	0.0263	102.	71.8-121	3.17	20	WG720574
1,2,4-Trichlorobenzene	mg/l	0.0279	0.0297	112.	69.7-136	6.29	20	WG720574
1,2,4-Trimethylbenzene	mg/l	0.0296	0.0303	118.	75-123	2.21	20	WG720574
1,2-Dibromo-3-Chloropropane	mg/l	0.0213	0.0228	85.0	65.4-128	6.95	20	WG720574
1,2-Dibromoethane	mg/l	0.0262	0.0273	105.	76.6-121	4.02	20	WG720574
1,2-Dichlorobenzene	mg/l	0.0271	0.0277	108.	78.4-117	2.24	20	WG720574
1,2-Dichloroethane	mg/l	0.0213	0.0214	85.0	68.8-124	0.400	20	WG720574
1,2-Dichloropropane	mg/l	0.0254	0.0257	102.	76.5-119	0.840	20	WG720574
1,3,5-Trimethylbenzene	mg/l	0.0288	0.0297	115.	75.6-124	3.23	20	WG720574
1,3-Dichlorobenzene	mg/l	0.0288	0.0299	115.	70.8-128	3.60	20	WG720574
1,3-Dichloropropane	mg/l	0.0240	0.0246	96.0	77.4-117	2.19	20	WG720574
1,4-Dichlorobenzene	mg/l	0.0253	0.0261	101.	78.8-115	3.17	20	WG720574
2,2-Dichloropropane	mg/l	0.0269	0.0268	108.	62.4-133	0.390	20	WG720574
2-Butanone (MEK)	mg/l	0.0871	0.0887	70.0	55-149	1.89	20	WG720574
2-Chloroethyl vinyl ether	mg/l	0.176	0.180	140.	43.8-150	2.46	20	WG720574
2-Chlorotoluene	mg/l	0.0289	0.0292	116.	74.7-122	0.760	20	WG720574
4-Chlorotoluene	mg/l	0.0278	0.0287	111.	77.5-120	3.01	20	WG720574
4-Methyl-2-pentanone (MIBK)	mg/l	0.107	0.112	85.0	70.5-133	4.60	20	WG720574
Acetone	mg/l	0.0986	0.101	79.0	35.6-163	2.03	23.9	WG720574
Acrolein	mg/l	0.115	0.111	92.0	10-190	3.51	28.1	WG720574
Acrylonitrile	mg/l	0.108	0.108	87.0	55.2-130	0.100	20	WG720574
Benzene	mg/l	0.0230	0.0232	92.0	74.8-121	0.910	20	WG720574
Bromobenzene	mg/l	0.0249	0.0257	100.	77.5-116	3.09	20	WG720574
Bromodichloromethane	mg/l	0.0249	0.0257	100.	75.1-116	2.89	20	WG720574
Bromoform	mg/l	0.0279	0.0282	112.	67.5-130	1.21	20	WG720574
Bromomethane	mg/l	0.0241	0.0235	96.0	49.9-162	2.24	20	WG720574
Carbon tetrachloride	mg/l	0.0268	0.0265	107.	70.2-123	1.18	20	WG720574
Chlorobenzene	mg/l	0.0286	0.0296	114.	78.1-119	3.18	20	WG720574
Chlorodibromomethane	mg/l	0.0271	0.0278	108.	74-121	2.67	20	WG720574
Chloroethane	mg/l	0.0218	0.0224	87.0	61.7-135	2.72	20	WG720574
Chloroform	mg/l	0.0241	0.0241	96.0	76-121	0.0400	20	WG720574
Chloromethane	mg/l	0.0215	0.0214	86.0	61.5-129	0.390	20	WG720574
cis-1,2-Dichloroethene	mg/l	0.0250	0.0254	100.	76-119	1.55	20	WG720574
cis-1,3-Dichloropropene	mg/l	0.0262	0.0272	105.	78.2-120	3.42	20	WG720574
Di-isopropyl ether	mg/l	0.0228	0.0232	91.0	65.6-132	1.70	20	WG720574
Dibromomethane	mg/l	0.0241	0.0240	96.0	79.5-118	0.740	20	WG720574
Dichlorodifluoromethane	mg/l	0.0242	0.0235	97.0	54.8-135	3.25	20	WG720574
Ethylbenzene	mg/l	0.0294	0.0296	118.	78.8-122	0.870	20	WG720574
Hexachloro-1,3-butadiene	mg/l	0.0288	0.0287	115.	64.7-129	0.220	20	WG720574
Isopropylbenzene	mg/l	0.0300	0.0307	120.	78.6-132	2.37	20	WG720574
Methyl tert-butyl ether	mg/l	0.0236	0.0237	94.0	71.2-126	0.500	20	WG720574
Methylene Chloride	mg/l	0.0227	0.0232	91.0	70.3-120	2.22	20	WG720574
n-Butylbenzene	mg/l	0.0281	0.0287	112.	76.2-126	1.96	20	WG720574
n-Propylbenzene	mg/l	0.0276	0.0281	110.	78.2-122	1.86	20	WG720574
Naphthalene	mg/l	0.0219	0.0240	88.0	68.4-128	8.98	20	WG720574
p-Isopropyltoluene	mg/l	0.0321	0.0330	128.	74-131	2.71	20	WG720574
sec-Butylbenzene	mg/l	0.0309	0.0315	124.	74.4-127	1.96	20	WG720574
Styrene	mg/l	0.0297	0.0306	119.	80.4-126	2.94	20	WG720574
tert-Butylbenzene	mg/l	0.0310	0.0315	124.	75.3-126	1.54	20	WG720574
Tetrachloroethene	mg/l	0.0317	0.0319	127*	72.6-126	0.570	20	WG720574
Toluene	mg/l	0.0239	0.0245	95.0	79.7-116	2.52	20	WG720574

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
trans-1,2-Dichloroethene	mg/l	0.0268	0.0270	107.	72.6-121	1.01	20	WG720574
trans-1,3-Dichloropropene	mg/l	0.0255	0.0258	102.	74.3-123	0.940	20	WG720574
Trichloroethene	mg/l	0.0273	0.0273	109.	77.7-118	0.280	20	WG720574
Trichlorofluoromethane	mg/l	0.0264	0.0258	106.	63.5-135	2.54	20	WG720574
Vinyl chloride	mg/l	0.0238	0.0231	95.0	65.9-128	2.76	20	WG720574
Xylenes, Total	mg/l	0.0883	0.0894	118.	78.7-121	1.28	20	WG720574
4-Bromofluorobenzene				99.00	71-126			WG720574
Dibromofluoromethane				95.30	78.3-121			WG720574
Toluene-d8				98.80	88.5-111			WG720574

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0273	0.0	.025	110.	64-128	L697735-29	WG719976
1,1,1-Trichloroethane	mg/l	0.0267	0.0	.025	110.	58.7-134	L697735-29	WG719976
1,1,2,2-Tetrachloroethane	mg/l	0.0258	0.0	.025	100.	56-132	L697735-29	WG719976
1,1,2-Trichloroethane	mg/l	0.0282	0.0	.025	110.	66.3-125	L697735-29	WG719976
1,1-Dichloroethane	mg/l	0.0244	0.0	.025	98.0	58.5-132	L697735-29	WG719976
1,1-Dichloroethene	mg/l	0.0262	0.0	.025	100.	51.1-140	L697735-29	WG719976
1,1-Dichloropropene	mg/l	0.0259	0.0	.025	100.	57.3-136	L697735-29	WG719976
1,2,3-Trichlorobenzene	mg/l	0.0271	0.0	.025	110.	59.1-138	L697735-29	WG719976
1,2,3-Trichloropropane	mg/l	0.0255	0.0	.025	100.	61.4-128	L697735-29	WG719976
1,2,4-Trichlorobenzene	mg/l	0.0287	0.0	.025	120.	63.6-143	L697735-29	WG719976
1,2,4-Trimethylbenzene	mg/l	0.0271	0.0	.025	110.	57.4-137	L697735-29	WG719976
1,2-Dibromo-3-Chloropropane	mg/l	0.0240	0.0	.025	96.0	57.3-136	L697735-29	WG719976
1,2-Dibromoethane	mg/l	0.0263	0.0	.025	100.	67.1-125	L697735-29	WG719976
1,2-Dichlorobenzene	mg/l	0.0258	0.0	.025	100.	68.2-123	L697735-29	WG719976
1,2-Dichloroethane	mg/l	0.0249	0.0	.025	100.	60-126	L697735-29	WG719976
1,2-Dichloropropane	mg/l	0.0244	0.0	.025	98.0	64.2-123	L697735-29	WG719976
1,3,5-Trimethylbenzene	mg/l	0.0284	0.0	.025	110.	63.6-132	L697735-29	WG719976
1,3-Dichlorobenzene	mg/l	0.0284	0.0	.025	110.	63.1-131	L697735-29	WG719976
1,3-Dichloropropane	mg/l	0.0255	0.0	.025	100.	67.9-121	L697735-29	WG719976
1,4-Dichlorobenzene	mg/l	0.0254	0.0	.025	100.	68.6-123	L697735-29	WG719976
2,2-Dichloropropane	mg/l	0.0265	0.0	.025	110.	50.5-144	L697735-29	WG719976
2-Butanone (MEK)	mg/l	0.123	0.0	.125	98.0	22.4-138	L697735-29	WG719976
2-Chloroethyl vinyl ether	mg/l	0.00356	0.0	.125	2.80*	10-155	L697735-29	WG719976
2-Chlorotoluene	mg/l	0.0277	0.0	.025	110.	63.6-128	L697735-29	WG719976
4-Chlorotoluene	mg/l	0.0274	0.0	.025	110.	65.7-127	L697735-29	WG719976
4-Methyl-2-pentanone (MIBK)	mg/l	0.120	0.0	.125	96.0	60.8-140	L697735-29	WG719976
Acetone	mg/l	0.113	0.00318	.125	88.0	10-130	L697735-29	WG719976
Acrolein	mg/l	0.133	0.0	.125	110.	10-200	L697735-29	WG719976
Acrylonitrile	mg/l	0.121	0.0	.125	97.0	49.4-133	L697735-29	WG719976
Benzene	mg/l	0.0245	0.0	.025	98.0	54.3-133	L697735-29	WG719976
Bromobenzene	mg/l	0.0262	0.0	.025	100.	63.9-124	L697735-29	WG719976
Bromodichloromethane	mg/l	0.0231	0.0	.025	92.0	63.9-121	L697735-29	WG719976
Bromoform	mg/l	0.0266	0.0	.025	110.	59.5-134	L697735-29	WG719976
Bromomethane	mg/l	0.0356	0.0	.025	140.	41.7-155	L697735-29	WG719976
Carbon tetrachloride	mg/l	0.0268	0.0	.025	110.	55.7-134	L697735-29	WG719976
Chlorobenzene	mg/l	0.0274	0.0	.025	110.	67-125	L697735-29	WG719976
Chlorodibromomethane	mg/l	0.0265	0.0	.025	110.	64.3-125	L697735-29	WG719976
Chloroethane	mg/l	0.0262	0.0	.025	100.	51.5-136	L697735-29	WG719976
Chloroform	mg/l	0.0251	0.000505	.025	98.0	63-129	L697735-29	WG719976
Chloromethane	mg/l	0.0238	0.0	.025	95.0	42.4-135	L697735-29	WG719976
cis-1,2-Dichloroethene	mg/l	0.0246	0.0	.025	98.0	59.2-129	L697735-29	WG719976
cis-1,3-Dichloropropene	mg/l	0.0250	0.0	.025	100.	66.4-125	L697735-29	WG719976
Di-isopropyl ether	mg/l	0.0234	0.0	.025	94.0	56.9-136	L697735-29	WG719976
Dibromomethane	mg/l	0.0240	0.0	.025	96.0	68.2-124	L697735-29	WG719976
Dichlorodifluoromethane	mg/l	0.0313	0.0	.025	120.	40.6-144	L697735-29	WG719976
Ethylbenzene	mg/l	0.0271	0.0	.025	110.	61.4-133	L697735-29	WG719976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Hexachloro-1,3-butadiene	mg/l	0.0286	0.0	.025	110.	55.1-136	L697735-29	WG719976
Isopropylbenzene	mg/l	0.0280	0.0	.025	110.	66.8-141	L697735-29	WG719976
Methyl tert-butyl ether	mg/l	0.0244	0.0	.025	98.0	57.7-134	L697735-29	WG719976
Methylene Chloride	mg/l	0.0227	0.0	.025	91.0	58.1-122	L697735-29	WG719976
n-Butylbenzene	mg/l	0.0268	0.0	.025	110.	62.7-140	L697735-29	WG719976
n-Propylbenzene	mg/l	0.0279	0.0	.025	110.	65.9-131	L697735-29	WG719976
Naphthalene	mg/l	0.0250	0.0	.025	100.	58-135	L697735-29	WG719976
p-Isopropyltoluene	mg/l	0.0289	0.0	.025	120.	63.2-139	L697735-29	WG719976
sec-Butylbenzene	mg/l	0.0286	0.0	.025	120.	62.2-136	L697735-29	WG719976
Styrene	mg/l	0.0266	0.0	.025	110.	66.8-133	L697735-29	WG719976
tert-Butylbenzene	mg/l	0.0285	0.0	.025	110.	63.3-134	L697735-29	WG719976
Tetrachloroethene	mg/l	0.0300	0.0	.025	120.	53-139	L697735-29	WG719976
Toluene	mg/l	0.0247	0.0	.025	99.0	61.4-130	L697735-29	WG719976
trans-1,2-Dichloroethene	mg/l	0.0247	0.0	.025	99.0	56.5-129	L697735-29	WG719976
trans-1,3-Dichloropropene	mg/l	0.0246	0.0	.025	98.0	64.1-128	L697735-29	WG719976
Trichloroethene	mg/l	0.0289	0.00161	.025	110.	44.1-149	L697735-29	WG719976
Trichlorofluoromethane	mg/l	0.0288	0.0	.025	120.	49.6-145	L697735-29	WG719976
Vinyl chloride	mg/l	0.0273	0.0	.025	110.	47.8-137	L697735-29	WG719976
Xylenes, Total	mg/l	0.0813	0.0	.075	110.	63.3-131	L697735-29	WG719976
4-Bromofluorobenzene					104.0	71-126		WG719976
Dibromofluoromethane					100.0	78.3-121		WG719976
Toluene-d8					102.0	88.5-111		WG719976
1,1,1,2-Tetrachloroethane	mg/l	0.0283	0.0	.025	110.	64-128	L698374-04	WG720574
1,1,1-Trichloroethane	mg/l	0.0245	0.0	.025	98.0	58.7-134	L698374-04	WG720574
1,1,2,2-Tetrachloroethane	mg/l	0.0238	0.0	.025	95.0	56-132	L698374-04	WG720574
1,1,2-Trichloroethane	mg/l	0.0245	0.0	.025	98.0	66.3-125	L698374-04	WG720574
1,1-Dichloroethane	mg/l	0.0238	0.0	.025	95.0	58.5-132	L698374-04	WG720574
1,1-Dichloroethene	mg/l	0.0245	0.0	.025	98.0	51.1-140	L698374-04	WG720574
1,1-Dichloropropene	mg/l	0.0247	0.0	.025	99.0	57.3-136	L698374-04	WG720574
1,2,3-Trichlorobenzene	mg/l	0.0262	0.0	.025	100.	59.1-138	L698374-04	WG720574
1,2,3-Trichloropropane	mg/l	0.0252	0.0	.025	100.	61.4-128	L698374-04	WG720574
1,2,4-Trichlorobenzene	mg/l	0.0275	0.0	.025	110.	63.6-143	L698374-04	WG720574
1,2,4-Trimethylbenzene	mg/l	0.0285	0.0	.025	110.	57.4-137	L698374-04	WG720574
1,2-Dibromo-3-Chloropropane	mg/l	0.0215	0.0	.025	86.0	57.3-136	L698374-04	WG720574
1,2-Dibromoethane	mg/l	0.0259	0.0	.025	100.	67.1-125	L698374-04	WG720574
1,2-Dichlorobenzene	mg/l	0.0261	0.0	.025	100.	68.2-123	L698374-04	WG720574
1,2-Dichloroethane	mg/l	0.0208	0.0	.025	83.0	60-126	L698374-04	WG720574
1,2-Dichloropropane	mg/l	0.0246	0.0	.025	98.0	64.2-123	L698374-04	WG720574
1,3,5-Trimethylbenzene	mg/l	0.0282	0.0	.025	110.	63.6-132	L698374-04	WG720574
1,3-Dichlorobenzene	mg/l	0.0282	0.0	.025	110.	63.1-131	L698374-04	WG720574
1,3-Dichloropropane	mg/l	0.0236	0.0	.025	94.0	67.9-121	L698374-04	WG720574
1,4-Dichlorobenzene	mg/l	0.0244	0.0	.025	98.0	68.6-123	L698374-04	WG720574
2,2-Dichloropropane	mg/l	0.0265	0.0	.025	110.	50.5-144	L698374-04	WG720574
2-Butanone (MEK)	mg/l	0.0946	0.00492	.125	72.0	22.4-138	L698374-04	WG720574
2-Chloroethyl vinyl ether	mg/l	0.178	0.0	.125	140.	10-155	L698374-04	WG720574
2-Chlorotoluene	mg/l	0.0272	0.0	.025	110.	63.6-128	L698374-04	WG720574
4-Chlorotoluene	mg/l	0.0271	0.0	.025	110.	65.7-127	L698374-04	WG720574
4-Methyl-2-pentanone (MIBK)	mg/l	0.107	0.0	.125	85.0	60.8-140	L698374-04	WG720574
Acetone	mg/l	0.110	0.00662	.125	83.0	10-130	L698374-04	WG720574
Acrolein	mg/l	0.116	0.0	.125	93.0	10-200	L698374-04	WG720574
Acrylonitrile	mg/l	0.109	0.0	.125	87.0	49.4-133	L698374-04	WG720574
Benzene	mg/l	0.0227	0.0	.025	91.0	54.3-133	L698374-04	WG720574
Bromobenzene	mg/l	0.0241	0.0	.025	96.0	63.9-124	L698374-04	WG720574
Bromodichloromethane	mg/l	0.0241	0.0	.025	96.0	63.9-121	L698374-04	WG720574
Bromoform	mg/l	0.0272	0.0	.025	110.	59.5-134	L698374-04	WG720574
Bromomethane	mg/l	0.0225	0.0	.025	90.0	41.7-155	L698374-04	WG720574
Carbon tetrachloride	mg/l	0.0241	0.0	.025	96.0	55.7-134	L698374-04	WG720574

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chlorobenzene	mg/l	0.0280	0.0	.025	110.	67-125	L698374-04	WG720574
Chlorodibromomethane	mg/l	0.0257	0.0	.025	100.	64.3-125	L698374-04	WG720574
Chloroethane	mg/l	0.0216	0.0	.025	87.0	51.5-136	L698374-04	WG720574
Chloroform	mg/l	0.0235	0.0	.025	94.0	63-129	L698374-04	WG720574
Chloromethane	mg/l	0.0206	0.0	.025	83.0	42.4-135	L698374-04	WG720574
cis-1,2-Dichloroethene	mg/l	0.0251	0.0	.025	100.	59.2-129	L698374-04	WG720574
cis-1,3-Dichloropropene	mg/l	0.0257	0.0	.025	100.	66.4-125	L698374-04	WG720574
Di-isopropyl ether	mg/l	0.0223	0.0	.025	89.0	56.9-136	L698374-04	WG720574
Dibromomethane	mg/l	0.0233	0.0	.025	93.0	68.2-124	L698374-04	WG720574
Dichlorodifluoromethane	mg/l	0.0233	0.0	.025	93.0	40.6-144	L698374-04	WG720574
Ethylbenzene	mg/l	0.0286	0.0	.025	110.	61.4-133	L698374-04	WG720574
Hexachloro-1,3-butadiene	mg/l	0.0285	0.0	.025	110.	55.1-136	L698374-04	WG720574
Isopropylbenzene	mg/l	0.0292	0.0	.025	120.	66.8-141	L698374-04	WG720574
Methyl tert-butyl ether	mg/l	0.0229	0.0	.025	92.0	57.7-134	L698374-04	WG720574
Methylene Chloride	mg/l	0.0224	0.0	.025	90.0	58.1-122	L698374-04	WG720574
n-Butylbenzene	mg/l	0.0280	0.0	.025	110.	62.7-140	L698374-04	WG720574
n-Propylbenzene	mg/l	0.0269	0.0	.025	110.	65.9-131	L698374-04	WG720574
Naphthalene	mg/l	0.0224	0.0	.025	90.0	58-135	L698374-04	WG720574
p-Isopropyltoluene	mg/l	0.0309	0.0	.025	120.	63.2-139	L698374-04	WG720574
sec-Butylbenzene	mg/l	0.0304	0.0	.025	120.	62.2-136	L698374-04	WG720574
Styrene	mg/l	0.0290	0.0	.025	120.	66.8-133	L698374-04	WG720574
tert-Butylbenzene	mg/l	0.0299	0.0	.025	120.	63.3-134	L698374-04	WG720574
Tetrachloroethene	mg/l	0.0315	0.0	.025	130.	53-139	L698374-04	WG720574
Toluene	mg/l	0.0233	0.0	.025	93.0	61.4-130	L698374-04	WG720574
trans-1,2-Dichloroethene	mg/l	0.0255	0.0	.025	100.	56.5-129	L698374-04	WG720574
trans-1,3-Dichloropropene	mg/l	0.0248	0.0	.025	99.0	64.1-128	L698374-04	WG720574
Trichloroethene	mg/l	0.0869	0.0800	.025	28.0*	44.1-149	L698374-04	WG720574
Trichlorofluoromethane	mg/l	0.0262	0.0	.025	100.	49.6-145	L698374-04	WG720574
Vinyl chloride	mg/l	0.0227	0.0	.025	91.0	47.8-137	L698374-04	WG720574
Xylenes, Total	mg/l	0.0850	0.0	.075	110.	63.3-131	L698374-04	WG720574
4-Bromofluorobenzene					97.20	71-126		WG720574
Dibromofluoromethane					96.20	78.3-121		WG720574
Toluene-d8					98.80	88.5-111		WG720574

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0267	0.0273	107.	64-128	2.29	20	L697735-29	WG719976
1,1,1-Trichloroethane	mg/l	0.0257	0.0267	103.	58.7-134	3.53	20	L697735-29	WG719976
1,1,2,2-Tetrachloroethane	mg/l	0.0247	0.0258	98.7	56-132	4.44	22.2	L697735-29	WG719976
1,1,2-Trichloroethane	mg/l	0.0265	0.0282	106.	66.3-125	6.15	20	L697735-29	WG719976
1,1-Dichloroethane	mg/l	0.0238	0.0244	95.3	58.5-132	2.37	20	L697735-29	WG719976
1,1-Dichloroethene	mg/l	0.0253	0.0262	101.	51.1-140	3.42	20.2	L697735-29	WG719976
1,1-Dichloropropene	mg/l	0.0247	0.0259	98.7	57.3-136	4.99	20	L697735-29	WG719976
1,2,3-Trichlorobenzene	mg/l	0.0273	0.0271	109.	59.1-138	0.630	23.7	L697735-29	WG719976
1,2,3-Trichloropropane	mg/l	0.0246	0.0255	98.4	61.4-128	3.49	22.4	L697735-29	WG719976
1,2,4-Trichlorobenzene	mg/l	0.0284	0.0287	114.	63.6-143	0.770	21.9	L697735-29	WG719976
1,2,4-Trimethylbenzene	mg/l	0.0269	0.0271	108.	57.4-137	0.500	20	L697735-29	WG719976
1,2-Dibromo-3-Chloropropane	mg/l	0.0234	0.0240	93.4	57.3-136	2.65	27	L697735-29	WG719976
1,2-Dibromoethane	mg/l	0.0250	0.0263	100.	67.1-125	5.08	20	L697735-29	WG719976
1,2-Dichlorobenzene	mg/l	0.0256	0.0258	102.	68.2-123	0.820	20	L697735-29	WG719976
1,2-Dichloroethane	mg/l	0.0237	0.0249	95.0	60-126	4.62	20	L697735-29	WG719976
1,2-Dichloropropane	mg/l	0.0235	0.0244	93.9	64.2-123	3.90	20	L697735-29	WG719976
1,3,5-Trimethylbenzene	mg/l	0.0280	0.0284	112.	63.6-132	1.25	20.5	L697735-29	WG719976
1,3-Dichlorobenzene	mg/l	0.0283	0.0284	113.	63.1-131	0.510	20	L697735-29	WG719976
1,3-Dichloropropane	mg/l	0.0244	0.0255	97.7	67.9-121	4.09	20	L697735-29	WG719976
1,4-Dichlorobenzene	mg/l	0.0252	0.0254	101.	68.6-123	0.530	20	L697735-29	WG719976
2,2-Dichloropropane	mg/l	0.0254	0.0265	101.	50.5-144	4.32	21.9	L697735-29	WG719976
2-Butanone (MEK)	mg/l	0.115	0.123	91.8	22.4-138	6.73	27	L697735-29	WG719976

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
2-Chloroethyl vinyl ether	mg/l	0.00118	0.00356	0.947*	10-155	100.*	20	L697735-29	WG719976
2-Chlorotoluene	mg/l	0.0271	0.0277	108.	63.6-128	1.84	20	L697735-29	WG719976
4-Chlorotoluene	mg/l	0.0269	0.0274	107.	65.7-127	1.96	20	L697735-29	WG719976
4-Methyl-2-pentanone (MIBK)	mg/l	0.113	0.120	90.6	60.8-140	5.53	25.1	L697735-29	WG719976
Acetone	mg/l	0.109	0.113	84.8	10-130	3.55	27.9	L697735-29	WG719976
Acrolein	mg/l	0.126	0.133	100.	10-200	5.49	27.7	L697735-29	WG719976
Acrylonitrile	mg/l	0.113	0.121	90.8	49.4-133	6.34	25.3	L697735-29	WG719976
Benzene	mg/l	0.0242	0.0245	96.7	54.3-133	1.36	20	L697735-29	WG719976
Bromobenzene	mg/l	0.0252	0.0262	101.	63.9-124	3.60	20	L697735-29	WG719976
Bromodichloromethane	mg/l	0.0225	0.0231	89.8	63.9-121	2.69	20	L697735-29	WG719976
Bromoform	mg/l	0.0256	0.0266	102.	59.5-134	3.95	20.5	L697735-29	WG719976
Bromomethane	mg/l	0.0336	0.0356	134.	41.7-155	5.67	21.9	L697735-29	WG719976
Carbon tetrachloride	mg/l	0.0258	0.0268	103.	55.7-134	4.04	20	L697735-29	WG719976
Chlorobenzene	mg/l	0.0269	0.0274	108.	67-125	1.74	20	L697735-29	WG719976
Chlorodibromomethane	mg/l	0.0257	0.0265	103.	64.3-125	2.90	20.8	L697735-29	WG719976
Chloroethane	mg/l	0.0258	0.0262	103.	51.5-136	1.32	40	L697735-29	WG719976
Chloroform	mg/l	0.0243	0.0251	95.2	63-129	3.06	20	L697735-29	WG719976
Chloromethane	mg/l	0.0231	0.0238	92.4	42.4-135	2.89	20	L697735-29	WG719976
cis-1,2-Dichloroethene	mg/l	0.0237	0.0246	94.8	59.2-129	3.64	20	L697735-29	WG719976
cis-1,3-Dichloropropene	mg/l	0.0246	0.0250	98.3	66.4-125	1.89	20	L697735-29	WG719976
Di-isopropyl ether	mg/l	0.0227	0.0234	90.8	56.9-136	2.94	20	L697735-29	WG719976
Dibromomethane	mg/l	0.0230	0.0240	92.1	68.2-124	4.23	20	L697735-29	WG719976
Dichlorodifluoromethane	mg/l	0.0296	0.0313	118.	40.6-144	5.42	20.2	L697735-29	WG719976
Ethylbenzene	mg/l	0.0266	0.0271	106.	61.4-133	2.04	20	L697735-29	WG719976
Hexachloro-1,3-butadiene	mg/l	0.0285	0.0286	114.	55.1-136	0.320	23.6	L697735-29	WG719976
Isopropylbenzene	mg/l	0.0274	0.0280	110.	66.8-141	2.34	20	L697735-29	WG719976
Methyl tert-butyl ether	mg/l	0.0239	0.0244	95.5	57.7-134	2.25	20	L697735-29	WG719976
Methylene Chloride	mg/l	0.0228	0.0227	91.2	58.1-122	0.200	20	L697735-29	WG719976
n-Butylbenzene	mg/l	0.0267	0.0268	107.	62.7-140	0.100	20.3	L697735-29	WG719976
n-Propylbenzene	mg/l	0.0272	0.0279	109.	65.9-131	2.26	20	L697735-29	WG719976
Naphthalene	mg/l	0.0248	0.0250	99.1	58-135	0.870	25.5	L697735-29	WG719976
p-Isopropyltoluene	mg/l	0.0284	0.0289	113.	63.2-139	1.83	20.4	L697735-29	WG719976
sec-Butylbenzene	mg/l	0.0283	0.0286	113.	62.2-136	1.24	20.3	L697735-29	WG719976
Styrene	mg/l	0.0261	0.0266	104.	66.8-133	2.06	20	L697735-29	WG719976
tert-Butylbenzene	mg/l	0.0281	0.0285	112.	63.3-134	1.50	21	L697735-29	WG719976
Tetrachloroethene	mg/l	0.0282	0.0300	113.	53-139	6.26	20	L697735-29	WG719976
Toluene	mg/l	0.0240	0.0247	95.9	61.4-130	2.85	20	L697735-29	WG719976
trans-1,2-Dichloroethene	mg/l	0.0236	0.0247	94.5	56.5-129	4.61	20	L697735-29	WG719976
trans-1,3-Dichloropropene	mg/l	0.0234	0.0246	93.6	64.1-128	5.12	20	L697735-29	WG719976
Trichloroethene	mg/l	0.0280	0.0289	105.	44.1-149	3.23	20	L697735-29	WG719976
Trichlorofluoromethane	mg/l	0.0271	0.0288	108.	49.6-145	5.91	21.2	L697735-29	WG719976
Vinyl chloride	mg/l	0.0259	0.0273	104.	47.8-137	5.25	20	L697735-29	WG719976
Xylenes, Total	mg/l	0.0796	0.0813	106.	63.3-131	2.02	20	L697735-29	WG719976
4-Bromofluorobenzene				103.0	71-126				WG719976
Dibromofluoromethane				98.90	78.3-121				WG719976
Toluene-d8				101.0	88.5-111				WG719976
1,1,1,2-Tetrachloroethane	mg/l	0.0250	0.0283	100.	64-128	12.2	20	L698374-04	WG720574
1,1,1-Trichloroethane	mg/l	0.0211	0.0245	84.2	58.7-134	15.0	20	L698374-04	WG720574
1,1,2,2-Tetrachloroethane	mg/l	0.0224	0.0238	89.6	56-132	6.18	22.2	L698374-04	WG720574
1,1,2-Trichloroethane	mg/l	0.0226	0.0245	90.6	66.3-125	7.71	20	L698374-04	WG720574
1,1-Dichloroethane	mg/l	0.0211	0.0238	84.5	58.5-132	11.8	20	L698374-04	WG720574
1,1-Dichloroethene	mg/l	0.0208	0.0245	83.2	51.1-140	16.4	20.2	L698374-04	WG720574
1,1-Dichloropropene	mg/l	0.0211	0.0247	84.2	57.3-136	15.7	20	L698374-04	WG720574
1,2,3-Trichlorobenzene	mg/l	0.0236	0.0262	94.5	59.1-138	10.5	23.7	L698374-04	WG720574
1,2,3-Trichloropropane	mg/l	0.0237	0.0252	94.7	61.4-128	6.13	22.4	L698374-04	WG720574
1,2,4-Trichlorobenzene	mg/l	0.0245	0.0275	98.0	63.6-143	11.6	21.9	L698374-04	WG720574
1,2,4-Trimethylbenzene	mg/l	0.0257	0.0285	103.	57.4-137	10.5	20	L698374-04	WG720574

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0204	0.0215	81.8	57.3-136	5.19	27	L698374-04	WG720574
1,2-Dibromoethane	mg/l	0.0233	0.0259	93.0	67.1-125	10.7	20	L698374-04	WG720574
1,2-Dichlorobenzene	mg/l	0.0229	0.0261	91.5	68.2-123	13.0	20	L698374-04	WG720574
1,2-Dichloroethane	mg/l	0.0187	0.0208	74.9	60-126	10.4	20	L698374-04	WG720574
1,2-Dichloropropane	mg/l	0.0211	0.0246	84.5	64.2-123	15.3	20	L698374-04	WG720574
1,3,5-Trimethylbenzene	mg/l	0.0250	0.0282	99.8	63.6-132	12.2	20.5	L698374-04	WG720574
1,3-Dichlorobenzene	mg/l	0.0254	0.0282	101.	63.1-131	10.5	20	L698374-04	WG720574
1,3-Dichloropropane	mg/l	0.0216	0.0236	86.4	67.9-121	8.66	20	L698374-04	WG720574
1,4-Dichlorobenzene	mg/l	0.0214	0.0244	85.6	68.6-123	13.1	20	L698374-04	WG720574
2,2-Dichloropropane	mg/l	0.0234	0.0265	93.5	50.5-144	12.6	21.9	L698374-04	WG720574
2-Butanone (MEK)	mg/l	0.0882	0.0946	66.6	22.4-138	7.01	27	L698374-04	WG720574
2-Chloroethyl vinyl ether	mg/l	0.157	0.178	126.	10-155	12.2	20	L698374-04	WG720574
2-Chlorotoluene	mg/l	0.0253	0.0272	101.	63.6-128	7.11	20	L698374-04	WG720574
4-Chlorotoluene	mg/l	0.0247	0.0271	98.7	65.7-127	9.25	20	L698374-04	WG720574
4-Methyl-2-pentanone (MIBK)	mg/l	0.0965	0.107	77.2	60.8-140	9.93	25.1	L698374-04	WG720574
Acetone	mg/l	0.0990	0.110	73.9	10-130	10.4	27.9	L698374-04	WG720574
Acrolein	mg/l	0.101	0.116	80.7	10-200	14.3	27.7	L698374-04	WG720574
Acrylonitrile	mg/l	0.0977	0.109	78.2	49.4-133	10.6	25.3	L698374-04	WG720574
Benzene	mg/l	0.0198	0.0227	79.3	54.3-133	13.3	20	L698374-04	WG720574
Bromobenzene	mg/l	0.0215	0.0241	86.0	63.9-124	11.4	20	L698374-04	WG720574
Bromodichloromethane	mg/l	0.0214	0.0241	85.4	63.9-121	11.9	20	L698374-04	WG720574
Bromoform	mg/l	0.0252	0.0272	101.	59.5-134	7.76	20.5	L698374-04	WG720574
Bromomethane	mg/l	0.0194	0.0225	77.7	41.7-155	14.8	21.9	L698374-04	WG720574
Carbon tetrachloride	mg/l	0.0229	0.0241	91.5	55.7-134	5.24	20	L698374-04	WG720574
Chlorobenzene	mg/l	0.0250	0.0280	99.9	67-125	11.3	20	L698374-04	WG720574
Chlorodibromomethane	mg/l	0.0239	0.0257	95.7	64.3-125	7.26	20.8	L698374-04	WG720574
Chloroethane	mg/l	0.0194	0.0216	77.8	51.5-136	10.8	40	L698374-04	WG720574
Chloroform	mg/l	0.0208	0.0235	83.4	63-129	12.1	20	L698374-04	WG720574
Chloromethane	mg/l	0.0176	0.0206	70.4	42.4-135	16.0	20	L698374-04	WG720574
cis-1,2-Dichloroethene	mg/l	0.0222	0.0251	88.9	59.2-129	12.3	20	L698374-04	WG720574
cis-1,3-Dichloropropene	mg/l	0.0225	0.0257	90.2	66.4-125	13.0	20	L698374-04	WG720574
Di-isopropyl ether	mg/l	0.0199	0.0223	79.6	56.9-136	11.2	20	L698374-04	WG720574
Dibromomethane	mg/l	0.0207	0.0233	82.8	68.2-124	12.0	20	L698374-04	WG720574
Dichlorodifluoromethane	mg/l	0.0195	0.0233	77.8	40.6-144	18.0	20.2	L698374-04	WG720574
Ethylbenzene	mg/l	0.0256	0.0286	102.	61.4-133	11.2	20	L698374-04	WG720574
Hexachloro-1,3-butadiene	mg/l	0.0252	0.0285	101.	55.1-136	12.3	23.6	L698374-04	WG720574
Isopropylbenzene	mg/l	0.0261	0.0292	104.	66.8-141	11.4	20	L698374-04	WG720574
Methyl tert-butyl ether	mg/l	0.0212	0.0229	84.9	57.7-134	7.68	20	L698374-04	WG720574
Methylene Chloride	mg/l	0.0197	0.0224	78.6	58.1-122	13.0	20	L698374-04	WG720574
n-Butylbenzene	mg/l	0.0241	0.0280	96.5	62.7-140	15.0	20.3	L698374-04	WG720574
n-Propylbenzene	mg/l	0.0240	0.0269	95.9	65.9-131	11.5	20	L698374-04	WG720574
Naphthalene	mg/l	0.0201	0.0224	80.3	58-135	11.2	25.5	L698374-04	WG720574
p-Isopropyltoluene	mg/l	0.0280	0.0309	112.	63.2-139	9.86	20.4	L698374-04	WG720574
sec-Butylbenzene	mg/l	0.0272	0.0304	109.	62.2-136	11.2	20.3	L698374-04	WG720574
Styrene	mg/l	0.0261	0.0290	104.	66.8-133	10.7	20	L698374-04	WG720574
tert-Butylbenzene	mg/l	0.0272	0.0299	109.	63.3-134	9.49	21	L698374-04	WG720574
Tetrachloroethene	mg/l	0.0265	0.0315	106.	53-139	17.1	20	L698374-04	WG720574
Toluene	mg/l	0.0203	0.0233	81.1	61.4-130	13.8	20	L698374-04	WG720574
trans-1,2-Dichloroethene	mg/l	0.0228	0.0255	91.0	56.5-129	11.5	20	L698374-04	WG720574
trans-1,3-Dichloropropene	mg/l	0.0222	0.0248	88.6	64.1-128	11.3	20	L698374-04	WG720574
Trichloroethene	mg/l	0.0775	0.0869	0*	44.1-149	11.4	20	L698374-04	WG720574
Trichlorofluoromethane	mg/l	0.0221	0.0262	88.4	49.6-145	16.9	21.2	L698374-04	WG720574
Vinyl chloride	mg/l	0.0194	0.0227	77.7	47.8-137	15.4	20	L698374-04	WG720574
Xylenes, Total	mg/l	0.0763	0.0850	102.	63.3-131	10.9	20	L698374-04	WG720574
4-Bromofluorobenzene				102.0	71-126				WG720574
Dibromofluoromethane				94.50	78.3-121				WG720574
Toluene-d8				97.30	88.5-111				WG720574

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

Batch number /Run number / Sample number cross reference

WG719976: R2919506: L697758-02 03
WG720574: R2920325: L697758-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Whit Rawls / Ed Woloszyn
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L697758

May 13, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.