



**Geological Resources, Inc.**

October 10, 2017

Mr. Brad Newton  
NCDEQ-DWM-UST Section  
Mooresville Regional Office  
610 East Center Avenue  
Mooresville, NC 28115

Re: Water Supply Well Sampling Results  
Gate #402  
2520 Bessemer City Road  
Bessemer City, Gaston County, NC  
Ground Water Incident Number: 18748  
GRI Project Number: 2451

Dear Mr. Newton:

Please find enclosed the referenced analytical results for three water supply wells sampled on September 25, 2017. This sampling event was conducted per Task Authorization #18748-58 dated July 11, 2017, for the above mentioned site. Geological Resources, Inc. sampled WSW-4 at 1053 Dallas-Bessemer City Highway, Bessemer City, NC, WSW-9 at 523 Oates Road, Gastonia, NC and WSW-10 at 101 Fraley Road, Gastonia, NC. Estimated concentrations of benzene, MTBE, xylenes, tetrachloroethylene, methyl chloride and/or chloroform that did not exceed the NCDEQ 2L Standards were reported in the water supply well samples collected from WSW-4, WSW-9 and WSW-10. The concentration of 1, 2-dichloroethane detected in the sample collected from WSW-4 exceeded the NCDEQ 2L Standard but did not exceed the USEPA's Maximum Contaminant Level for drinking water. If you have any questions, please contact me at (704) 845-4010.

Sincerely,  
**Geological Resources, Inc.**

W. Scott Ball  
Sr. Project Manager

enclosures

cc: Ms. Marlene Talley, Gate Petroleum Company  
Mr. Ken Czoer, Applied Science and Engineering  
file

**3502 Hayes Road • Monroe, North Carolina 28110**  
**113 West Firetower Road, Suite G • Winterville, North Carolina 28590**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**

### Technical Report for

#### GRI (Geological Resources Inc.)

Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

18748/2451

SGS Accutest Job Number: FA47870

Sampling Date: 09/25/17

#### Report to:

GRI  
3502 Hayes Rd  
Monroe, NC 28110  
wsb@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com;  
jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com  
ATTN: Michael Senglaub

Total number of pages in report: 27



Test results contained within this data package meet the requirements  
of the National Environmental Laboratory Accreditation Program  
and/or state specific certification programs as applicable.



Caitlin Brice, M.S.  
General Manager

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

# Table of Contents

-1-

**Section 1: Sample Summary ..... 3**

**Section 2: Summary of Hits ..... 4**

**Section 3: Sample Results ..... 5**

**3.1: FA47870-1: WSW-4 ..... 6**

**3.2: FA47870-2: WSW-9 ..... 8**

**3.3: FA47870-3: WSW-10 ..... 10**

**Section 4: Misc. Forms ..... 12**

**4.1: Chain of Custody ..... 13**

**Section 5: MS Volatiles - QC Data Summaries ..... 15**

**5.1: Method Blank Summary ..... 16**

**5.2: Blank Spike Summary ..... 20**

**5.3: Matrix Spike/Matrix Spike Duplicate Summary ..... 24**



Sample Summary

GRI (Geological Resources Inc.)

Job No: FA47870

Gate 402; 2520 Bessemer City Rd, Bessemer City, NC  
Project No: 18748/2451

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA47870-1	09/25/17	10:16 SB	09/27/17	AQ	Ground Water	WSW-4
FA47870-2	09/25/17	09:52 SB	09/27/17	AQ	Ground Water	WSW-9
FA47870-3	09/25/17	09:30 SB	09/27/17	AQ	Ground Water	WSW-10

## Summary of Hits

Page 1 of 1

Job Number: FA47870  
Account: GRI (Geological Resources Inc.)  
Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC  
Collected: 09/25/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA47870-1	WSW-4					
Benzene <sup>a</sup>		0.60	0.50	0.13	ug/l	SM 6200B
Chloroform <sup>a</sup>		0.14 J	0.50	0.13	ug/l	SM 6200B
1,2-Dichloroethane <sup>a</sup>		0.67	0.50	0.13	ug/l	SM 6200B
Methyl Tert Butyl Ether <sup>a</sup>		0.29 J	0.50	0.13	ug/l	SM 6200B
Tetrachloroethylene <sup>a</sup>		0.64	0.50	0.13	ug/l	SM 6200B
m,p-Xylene <sup>a</sup>		0.20 J	1.0	0.13	ug/l	SM 6200B
FA47870-2	WSW-9					
Chloroform		0.43 J	0.50	0.13	ug/l	SM 6200B
Methyl Chloride		0.24 J	0.50	0.20	ug/l	SM 6200B
Naphthalene		0.31 J	0.50	0.13	ug/l	SM 6200B
Tetrachloroethylene		0.30 J	0.50	0.13	ug/l	SM 6200B
FA47870-3	WSW-10					
Tetrachloroethylene <sup>b</sup>		0.54	0.50	0.13	ug/l	SM 6200B

(a) Sample was not preserved to a pH < 2.

(b) Internal standard areas outside method criteria. Confirmed by reanalysis.

## **Sample Results**

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## **Report of Analysis**

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## Report of Analysis

Client Sample ID:	WSW-4	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-1	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	E054892.D	1	10/02/17 18:32	TD	n/a	n/a	VE1836
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.60	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	0.14	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	0.67	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	WSW-4	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-1	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-20-3	Di-Isopropyl Ether	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.13	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.29	0.50	0.13	ug/l	J
91-20-3	Naphthalene	ND	0.50	0.13	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.64	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	0.20	1.0	0.13	ug/l	J
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	
1330-20-7	Xylene (total)	ND	1.5	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

Client Sample ID:	WSW-9	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-2	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E054918.D	1	10/04/17 13:47	TD	n/a	n/a	VE1837
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	0.43	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	WSW-9	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-2	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-20-3	Di-Isopropyl Ether	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.13	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	0.24	0.50	0.20	ug/l	J
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.13	ug/l	
91-20-3	Naphthalene	0.31	0.50	0.13	ug/l	J
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.30	0.50	0.13	ug/l	J
108-88-3	Toluene	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	
1330-20-7	Xylene (total)	ND	1.5	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
17060-07-0	1,2-Dichloroethane-D4	101%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	WSW-10	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-3	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	E054894.D	1	10/02/17 19:17	TD	n/a	n/a	VE1836
Run #2 <sup>b</sup>	E054919.D	1	10/04/17 14:09	TD	n/a	n/a	VE1837

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	WSW-10	Date Sampled:	09/25/17
Lab Sample ID:	FA47870-3	Date Received:	09/27/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Gate 402; 2520 Bessemer City Rd, Bessemer City, NC		

## VOA 6200B List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-20-3	Di-Isopropyl Ether	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.13	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.13	ug/l	
91-20-3	Naphthalene	ND	0.50	0.13	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.54	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	
1330-20-7	Xylene (total)	ND	1.5	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	70-130%
2037-26-5	Toluene-D8	106%	104%	70-130%
460-00-4	4-Bromofluorobenzene	101%	107%	70-130%

(a) Internal standard areas outside method criteria. Confirmed by reanalysis.

(b) Confirmation run for internal standard areas.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Misc. Forms****Custody Documents and Other Forms**

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**Includes the following where applicable:**

- Chain of Custody

FA47870

[illegible]

## 4.1

## FA47870: Chain of Custody

Page 1 of 2

## SGS Accutest Sample Receipt Summary

Job Number: FA47870

Client: GEOLIGICAL

Project: GATE 402

Date / Time Received: 9/27/2017 10:15:00 AM

Delivery Method: FX

Airbill #s: 770342508016

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.5);

### Cooler Information

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

### Trip Blank Information

Y or N N/A

- |                                |                          |                                     |                          |
|--------------------------------|--------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

W or S N/A

- |                        |                          |                          |                                     |
|------------------------|--------------------------|--------------------------|-------------------------------------|
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------------------------|--------------------------|--------------------------|-------------------------------------|

### Sample Information

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### Misc. Information

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_

Test Strip Lot #: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_

pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_

Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 9/27/2017 10:15:00 A

Reviewer: SP

Date: 9/27/2017

FA47870: Chain of Custody

Page 2 of 2

**MS Volatiles**

5

**QC Data Summaries**

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**Includes the following where applicable:**

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**



## Method Blank Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1836-MB	E054886.D	1	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
108-20-3	Di-Isopropyl Ether	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.13	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	

## Method Blank Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1836-MB	E054886.D	1	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.13	ug/l	
91-20-3	Naphthalene	ND	0.50	0.13	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	
1330-20-7	Xylene (total)	ND	1.5	0.25	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 70-130%
17060-07-0	1,2-Dichloroethane-D4	101% 70-130%
2037-26-5	Toluene-D8	105% 70-130%
460-00-4	4-Bromofluorobenzene	105% 70-130%

## Method Blank Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1837-MB	E054912.D	1	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
108-20-3	Di-Isopropyl Ether	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.50	0.13	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	

## Method Blank Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1837-MB	E054912.D	1	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.13	ug/l	
91-20-3	Naphthalene	ND	0.50	0.13	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	
1330-20-7	Xylene (total)	ND	1.5	0.25	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 70-130%
17060-07-0	1,2-Dichloroethane-D4	103% 70-130%
2037-26-5	Toluene-D8	105% 70-130%
460-00-4	4-Bromofluorobenzene	106% 70-130%

## Blank Spike Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1836-BS	E054885.D	1	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	10	8.7	87	70-130
108-86-1	Bromobenzene	10	8.5	85	70-130
74-97-5	Bromochloromethane	10	8.6	86	70-130
75-27-4	Bromodichloromethane	10	8.6	86	70-130
75-25-2	Bromoform	10	8.5	85	70-130
104-51-8	n-Butylbenzene	10	8.5	85	70-130
135-98-8	sec-Butylbenzene	10	8.9	89	70-130
98-06-6	tert-Butylbenzene	10	9.1	91	70-130
56-23-5	Carbon Tetrachloride	10	8.6	86	70-130
108-90-7	Chlorobenzene	10	8.6	86	70-130
75-00-3	Chloroethane	10	8.8	88	60-140
67-66-3	Chloroform	10	8.5	85	70-130
95-49-8	o-Chlorotoluene	10	8.8	88	70-130
106-43-4	p-Chlorotoluene	10	8.8	88	70-130
124-48-1	Dibromochloromethane	10	8.7	87	70-130
96-12-8	1,2-Dibromo-3-chloropropane	10	8.2	82	70-130
106-93-4	1,2-Dibromoethane	10	9.0	90	70-130
75-71-8	Dichlorodifluoromethane	10	8.6	86	60-140
95-50-1	1,2-Dichlorobenzene	10	8.8	88	70-130
541-73-1	1,3-Dichlorobenzene	10	8.8	88	70-130
106-46-7	1,4-Dichlorobenzene	10	8.4	84	70-130
75-34-3	1,1-Dichloroethane	10	8.7	87	70-130
107-06-2	1,2-Dichloroethane	10	8.7	87	70-130
75-35-4	1,1-Dichloroethylene	10	8.5	85	70-130
156-59-2	cis-1,2-Dichloroethylene	10	8.9	89	70-130
156-60-5	trans-1,2-Dichloroethylene	10	8.7	87	70-130
78-87-5	1,2-Dichloropropane	10	8.7	87	70-130
142-28-9	1,3-Dichloropropane	10	9.0	90	70-130
594-20-7	2,2-Dichloropropane	10	8.7	87	70-130
563-58-6	1,1-Dichloropropene	10	8.8	88	70-130
10061-01-5	cis-1,3-Dichloropropene	10	8.9	89	70-130
10061-02-6	trans-1,3-Dichloropropene	10	8.8	88	70-130
108-20-3	Di-Isopropyl Ether	10	9.1	91	70-130
100-41-4	Ethylbenzene	10	8.9	89	70-130
87-68-3	Hexachlorobutadiene	10	8.2	82	70-130
98-82-8	Isopropylbenzene	10	9.1	91	70-130

\* = Outside of Control Limits.

## Blank Spike Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1836-BS	E054885.D	1	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
99-87-6	p-Isopropyltoluene	10	8.8	88	70-130
74-83-9	Methyl Bromide	10	9.3	93	60-140
74-87-3	Methyl Chloride	10	8.5	85	60-140
74-95-3	Methylene Bromide	10	8.6	86	70-130
75-09-2	Methylene Chloride	10	8.7	87	70-130
1634-04-4	Methyl Tert Butyl Ether	10	9.2	92	70-130
91-20-3	Naphthalene	10	9.0	90	70-130
103-65-1	n-Propylbenzene	10	8.7	87	70-130
100-42-5	Styrene	10	8.5	85	70-130
630-20-6	1,1,1,2-Tetrachloroethane	10	8.8	88	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	8.7	87	70-130
127-18-4	Tetrachloroethylene	10	8.5	85	70-130
108-88-3	Toluene	10	8.8	88	70-130
87-61-6	1,2,3-Trichlorobenzene	10	8.7	87	70-130
120-82-1	1,2,4-Trichlorobenzene	10	8.7	87	70-130
71-55-6	1,1,1-Trichloroethane	10	8.7	87	70-130
79-00-5	1,1,2-Trichloroethane	10	8.7	87	70-130
79-01-6	Trichloroethylene	10	8.5	85	70-130
75-69-4	Trichlorofluoromethane	10	8.4	84	60-140
96-18-4	1,2,3-Trichloropropane	10	8.7	87	70-130
95-63-6	1,2,4-Trimethylbenzene	10	8.9	89	70-130
108-67-8	1,3,5-Trimethylbenzene	10	8.9	89	70-130
75-01-4	Vinyl Chloride	10	8.6	86	60-140
	m,p-Xylene	20	17.6	88	70-130
95-47-6	o-Xylene	10	9.1	91	70-130
1330-20-7	Xylene (total)	30	26.8	89	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	104%	70-130%

\* = Outside of Control Limits.

## Blank Spike Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1837-BS	E054911.D	1	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	10	12.1	121	70-130
108-86-1	Bromobenzene	10	11.8	118	70-130
74-97-5	Bromochloromethane	10	11.0	110	70-130
75-27-4	Bromodichloromethane	10	12.0	120	70-130
75-25-2	Bromoform	10	11.3	113	70-130
104-51-8	n-Butylbenzene	10	11.2	112	70-130
135-98-8	sec-Butylbenzene	10	11.8	118	70-130
98-06-6	tert-Butylbenzene	10	12.7	127	70-130
56-23-5	Carbon Tetrachloride	10	12.3	123	70-130
108-90-7	Chlorobenzene	10	12.1	121	70-130
75-00-3	Chloroethane	10	12.8	128	60-140
67-66-3	Chloroform	10	11.7	117	70-130
95-49-8	o-Chlorotoluene	10	12.3	123	70-130
106-43-4	p-Chlorotoluene	10	12.3	123	70-130
124-48-1	Dibromochloromethane	10	12.0	120	70-130
96-12-8	1,2-Dibromo-3-chloropropane	10	11.2	112	70-130
106-93-4	1,2-Dibromoethane	10	11.9	119	70-130
75-71-8	Dichlorodifluoromethane	10	13.0	130	60-140
95-50-1	1,2-Dichlorobenzene	10	11.3	113	70-130
541-73-1	1,3-Dichlorobenzene	10	11.6	116	70-130
106-46-7	1,4-Dichlorobenzene	10	11.8	118	70-130
75-34-3	1,1-Dichloroethane	10	12.6	126	70-130
107-06-2	1,2-Dichloroethane	10	11.6	116	70-130
75-35-4	1,1-Dichloroethylene	10	11.8	118	70-130
156-59-2	cis-1,2-Dichloroethylene	10	12.3	123	70-130
156-60-5	trans-1,2-Dichloroethylene	10	12.6	126	70-130
78-87-5	1,2-Dichloropropane	10	11.8	118	70-130
142-28-9	1,3-Dichloropropane	10	11.4	114	70-130
594-20-7	2,2-Dichloropropane	10	11.9	119	70-130
563-58-6	1,1-Dichloropropene	10	12.5	125	70-130
10061-01-5	cis-1,3-Dichloropropene	10	11.2	112	70-130
10061-02-6	trans-1,3-Dichloropropene	10	12.1	121	70-130
108-20-3	Di-Isopropyl Ether	10	11.4	114	70-130
100-41-4	Ethylbenzene	10	12.6	126	70-130
87-68-3	Hexachlorobutadiene	10	12.7	127	70-130
98-82-8	Isopropylbenzene	10	12.2	122	70-130

\* = Outside of Control Limits.

## Blank Spike Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE1837-BS	E054911.D	1	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
99-87-6	p-Isopropyltoluene	10	11.6	116	70-130
74-83-9	Methyl Bromide	10	11.8	118	60-140
74-87-3	Methyl Chloride	10	11.3	113	60-140
74-95-3	Methylene Bromide	10	11.2	112	70-130
75-09-2	Methylene Chloride	10	11.4	114	70-130
1634-04-4	Methyl Tert Butyl Ether	10	11.5	115	70-130
91-20-3	Naphthalene	10	12.7	127	70-130
103-65-1	n-Propylbenzene	10	12.3	123	70-130
100-42-5	Styrene	10	11.8	118	70-130
630-20-6	1,1,1,2-Tetrachloroethane	10	12.6	126	70-130
79-34-5	1,1,2,2-Tetrachloroethane	10	11.4	114	70-130
127-18-4	Tetrachloroethylene	10	12.9	129	70-130
108-88-3	Toluene	10	12.4	124	70-130
87-61-6	1,2,3-Trichlorobenzene	10	12.9	129	70-130
120-82-1	1,2,4-Trichlorobenzene	10	12.9	129	70-130
71-55-6	1,1,1-Trichloroethane	10	12.1	121	70-130
79-00-5	1,1,2-Trichloroethane	10	11.8	118	70-130
79-01-6	Trichloroethylene	10	12.2	122	70-130
75-69-4	Trichlorofluoromethane	10	12.0	120	60-140
96-18-4	1,2,3-Trichloropropane	10	11.2	112	70-130
95-63-6	1,2,4-Trimethylbenzene	10	12.4	124	70-130
108-67-8	1,3,5-Trimethylbenzene	10	12.7	127	70-130
75-01-4	Vinyl Chloride	10	11.7	117	60-140
	m,p-Xylene	20	24.9	125	70-130
95-47-6	o-Xylene	10	12.4	124	70-130
1330-20-7	Xylene (total)	30	37.3	124	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA47954-2MS	E054904.D	200	10/02/17	TD	n/a	n/a	VE1836
FA47954-2MSD	E054905.D	200	10/02/17	TD	n/a	n/a	VE1836
FA47954-2	E054901.D	200	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	FA47954-2 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	8890		2000	11700	141* a	2000	11500	131* a	2	70-130/20
108-86-1	Bromobenzene	ND		2000	2370	119	2000	2270	114	4	70-130/20
74-97-5	Bromochloromethane	ND		2000	2140	107	2000	2110	106	1	70-130/20
75-27-4	Bromodichloromethane	ND		2000	2330	117	2000	2280	114	2	70-130/20
75-25-2	Bromoform	ND		2000	2180	109	2000	2130	107	2	70-130/20
104-51-8	n-Butylbenzene	41.8	J	2000	2650	130	2000	2590	127	2	70-130/20
135-98-8	sec-Butylbenzene	ND		2000	2670	134*	2000	2610	131*	2	70-130/20
98-06-6	tert-Butylbenzene	ND		2000	2630	132*	2000	2550	128	3	70-130/20
56-23-5	Carbon Tetrachloride	ND		2000	2330	117	2000	2310	116	1	70-130/20
108-90-7	Chlorobenzene	ND		2000	2380	119	2000	2310	116	3	70-130/20
75-00-3	Chloroethane	ND		2000	2770	139	2000	2800	140	1	60-140/20
67-66-3	Chloroform	ND		2000	2320	116	2000	2270	114	2	70-130/20
95-49-8	o-Chlorotoluene	93.9	J	2000	2640	127	2000	2560	123	3	70-130/20
106-43-4	p-Chlorotoluene	ND		2000	2440	122	2000	2370	119	3	70-130/20
124-48-1	Dibromochloromethane	ND		2000	2300	115	2000	2260	113	2	70-130/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		2000	2200	110	2000	2160	108	2	70-130/20
106-93-4	1,2-Dibromoethane	204		2000	2570	118	2000	2480	114	4	70-130/20
75-71-8	Dichlorodifluoromethane	ND		2000	2560	128	2000	2710	136	6	60-140/20
95-50-1	1,2-Dichlorobenzene	ND		2000	2440	122	2000	2370	119	3	70-130/20
541-73-1	1,3-Dichlorobenzene	ND		2000	2530	127	2000	2400	120	5	70-130/20
106-46-7	1,4-Dichlorobenzene	ND		2000	2350	118	2000	2270	114	3	70-130/20
75-34-3	1,1-Dichloroethane	ND		2000	2460	123	2000	2400	120	2	70-130/20
107-06-2	1,2-Dichloroethane	157		2000	2460	115	2000	2390	112	3	70-130/20
75-35-4	1,1-Dichloroethylene	ND		2000	2310	116	2000	2310	116	0	70-130/20
156-59-2	cis-1,2-Dichloroethylene	ND		2000	2400	120	2000	2350	118	2	70-130/20
156-60-5	trans-1,2-Dichloroethylene	ND		2000	2440	122	2000	2370	119	3	70-130/20
78-87-5	1,2-Dichloropropane	ND		2000	2360	118	2000	2280	114	3	70-130/20
142-28-9	1,3-Dichloropropane	ND		2000	2200	110	2000	2170	109	1	70-130/20
594-20-7	2,2-Dichloropropane	ND		2000	2170	109	2000	2170	109	0	70-130/20
563-58-6	1,1-Dichloropropene	ND		2000	2390	120	2000	2350	118	2	70-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2140	107	2000	2130	107	0	70-130/20
10061-02-6	trans-1,3-Dichloropropene	ND		2000	2240	112	2000	2240	112	0	70-130/20
108-20-3	Di-Isopropyl Ether	578		2000	2900	116	2000	2870	115	1	70-130/20
100-41-4	Ethylbenzene	3570		2000	6120	128	2000	6070	125	1	70-130/20
87-68-3	Hexachlorobutadiene	ND		2000	2680	134*	2000	2680	134*	0	70-130/20
98-82-8	Isopropylbenzene	132		2000	2790	133*	2000	2780	132*	0	70-130/20

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA47954-2MS	E054904.D	200	10/02/17	TD	n/a	n/a	VE1836
FA47954-2MSD	E054905.D	200	10/02/17	TD	n/a	n/a	VE1836
FA47954-2	E054901.D	200	10/02/17	TD	n/a	n/a	VE1836

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-1, FA47870-3

CAS No.	Compound	FA47954-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
99-87-6	p-Isopropyltoluene	ND		2000	2640	132*	2000	2580	129	2	70-130/20
74-83-9	Methyl Bromide	ND		2000	2420	121	2000	2390	120	1	60-140/20
74-87-3	Methyl Chloride	ND		2000	2270	114	2000	2320	116	2	60-140/20
74-95-3	Methylene Bromide	ND		2000	2280	114	2000	2150	108	6	70-130/20
75-09-2	Methylene Chloride	365	J	2000	2310	97	2000	2270	95	2	70-130/20
1634-04-4	Methyl Tert Butyl Ether	2450		2000	4750	115	2000	4660	111	2	70-130/20
91-20-3	Naphthalene	1470		2000	3790	116	2000	3900	122	3	70-130/20
103-65-1	n-Propylbenzene	385		2000	3010	131*	2000	2900	126	4	70-130/20
100-42-5	Styrene	187		2000	2630	122	2000	2550	118	3	70-130/20
630-20-6	1,1,1,2-Tetrachloroethane	ND		2000	2390	120	2000	2380	119	0	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	2390	120	2000	2320	116	3	70-130/20
127-18-4	Tetrachloroethylene	ND		2000	2420	121	2000	2390	120	1	70-130/20
108-88-3	Toluene	23900	E	2000	25700	90	2000	25600	85	0	70-130/20
87-61-6	1,2,3-Trichlorobenzene	ND		2000	2470	124	2000	2480	124	0	70-130/20
120-82-1	1,2,4-Trichlorobenzene	ND		2000	2570	129	2000	2550	128	1	70-130/20
71-55-6	1,1,1-Trichloroethane	ND		2000	2370	119	2000	2330	117	2	70-130/20
79-00-5	1,1,2-Trichloroethane	ND		2000	2310	116	2000	2260	113	2	70-130/20
79-01-6	Trichloroethylene	ND		2000	2400	120	2000	2300	115	4	70-130/20
75-69-4	Trichlorofluoromethane	ND		2000	2380	119	2000	2400	120	1	60-140/20
96-18-4	1,2,3-Trichloropropane	ND		2000	2350	118	2000	2230	112	5	70-130/20
95-63-6	1,2,4-Trimethylbenzene	3210		2000	6110	145*	2000	5950	137*	3	70-130/20
108-67-8	1,3,5-Trimethylbenzene	805		2000	3550	137*	2000	3440	132*	3	70-130/20
75-01-4	Vinyl Chloride	ND		2000	2290	115	2000	2370	119	3	60-140/20
	m,p-Xylene	12300		4000	17400	128	4000	17200	123	1	70-130/20
95-47-6	o-Xylene	5450		2000	7860	121	2000	7810	118	1	70-130/20
1330-20-7	Xylene (total)	17800		6000	25300	125	6000	25000	120	1	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	FA47954-2	Limits
1868-53-7	Dibromofluoromethane	97%	95%	94%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	102%	70-130%
2037-26-5	Toluene-D8	103%	104%	107%	70-130%
460-00-4	4-Bromofluorobenzene	106%	106%	108%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA48047-4MS	E054935.D	200	10/04/17	TD	n/a	n/a	VE1837
FA48047-4MSD	E054936.D	200	10/04/17	TD	n/a	n/a	VE1837
FA48047-4	E054925.D	200	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	FA48047-4 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	514		2000	3010	125	2000	3890	169*	26*	70-130/20
108-86-1	Bromobenzene	ND		2000	2310	116	2000	3150	158*	31*	70-130/20
74-97-5	Bromochloromethane	ND		2000	2210	111	2000	2900	145*	27*	70-130/20
75-27-4	Bromodichloromethane	ND		2000	2270	114	2000	3120	156*	32*	70-130/20
75-25-2	Bromoform	ND		2000	1930	97	2000	2730	137*	34*	70-130/20
104-51-8	n-Butylbenzene	34.5	J	2000	2620	129	2000	3420	169*	26*	70-130/20
135-98-8	sec-Butylbenzene	33.7	J	2000	2600	128	2000	3490	173*	29*	70-130/20
98-06-6	tert-Butylbenzene	ND		2000	2550	128	2000	3400	170*	29*	70-130/20
56-23-5	Carbon Tetrachloride	ND		2000	2360	118	2000	3170	159*	29*	70-130/20
108-90-7	Chlorobenzene	ND		2000	2370	119	2000	3130	157*	28*	70-130/20
75-00-3	Chloroethane	ND		2000	2850	143*	2000	4810	241*	51*	60-140/20
67-66-3	Chloroform	ND		2000	2310	116	2000	3060	153*	28*	70-130/20
95-49-8	o-Chlorotoluene	180		2000	2670	125	2000	3580	170*	29*	70-130/20
106-43-4	p-Chlorotoluene	ND		2000	2400	120	2000	3260	163*	30*	70-130/20
124-48-1	Dibromochloromethane	ND		2000	2130	107	2000	2910	146*	31*	70-130/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		2000	2300	115	2000	2880	144*	22*	70-130/20
106-93-4	1,2-Dibromoethane	ND		2000	2300	115	2000	3060	153*	28*	70-130/20
75-71-8	Dichlorodifluoromethane	ND		2000	2590	130	2000	4120	206*	46*	60-140/20
95-50-1	1,2-Dichlorobenzene	ND		2000	2390	120	2000	3220	161*	30*	70-130/20
541-73-1	1,3-Dichlorobenzene	ND		2000	2460	123	2000	3340	167*	30*	70-130/20
106-46-7	1,4-Dichlorobenzene	ND		2000	2340	117	2000	3170	159*	30*	70-130/20
75-34-3	1,1-Dichloroethane	ND		2000	2480	124	2000	3310	166*	29*	70-130/20
107-06-2	1,2-Dichloroethane	ND		2000	2290	115	2000	3020	151*	27*	70-130/20
75-35-4	1,1-Dichloroethylene	ND		2000	2370	119	2000	3110	156*	27*	70-130/20
156-59-2	cis-1,2-Dichloroethylene	ND		2000	2420	121	2000	3230	162*	29*	70-130/20
156-60-5	trans-1,2-Dichloroethylene	ND		2000	2460	123	2000	3310	166*	29*	70-130/20
78-87-5	1,2-Dichloropropane	ND		2000	2350	118	2000	3140	157*	29*	70-130/20
142-28-9	1,3-Dichloropropane	ND		2000	2120	106	2000	2890	145*	31*	70-130/20
594-20-7	2,2-Dichloropropane	ND		2000	2400	120	2000	3150	158*	27*	70-130/20
563-58-6	1,1-Dichloropropene	ND		2000	2360	118	2000	3170	159*	29*	70-130/20
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2070	104	2000	2840	142*	31*	70-130/20
10061-02-6	trans-1,3-Dichloropropene	ND		2000	2190	110	2000	2990	150*	31*	70-130/20
108-20-3	Di-Isopropyl Ether	ND		2000	2250	113	2000	3040	152*	30*	70-130/20
100-41-4	Ethylbenzene	2430		2000	5080	133*	2000	6100	184*	18	70-130/20
87-68-3	Hexachlorobutadiene	ND		2000	2670	134*	2000	3590	180*	29*	70-130/20
98-82-8	Isopropylbenzene	132		2000	2740	130	2000	3620	174*	28*	70-130/20

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: FA47870

Account: GRINCC GRI (Geological Resources Inc.)

Project: Gate 402; 2520 Bessemer City Rd, Bessemer City, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA48047-4MS	E054935.D	200	10/04/17	TD	n/a	n/a	VE1837
FA48047-4MSD	E054936.D	200	10/04/17	TD	n/a	n/a	VE1837
FA48047-4	E054925.D	200	10/04/17	TD	n/a	n/a	VE1837

The QC reported here applies to the following samples:

Method: SM 6200B

FA47870-2

CAS No.	Compound	FA48047-4 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
99-87-6	p-Isopropyltoluene	ND		2000	2580	129	2000	3440	172*	29*	70-130/20
74-83-9	Methyl Bromide	ND		2000	2510	126	2000	4120	206*	49*	60-140/20
74-87-3	Methyl Chloride	ND		2000	2280	114	2000	3840	192*	51*	60-140/20
74-95-3	Methylene Bromide	ND		2000	2220	111	2000	2980	149*	29*	70-130/20
75-09-2	Methylene Chloride	ND		2000	2460	123	2000	3270	164*	28*	70-130/20
1634-04-4	Methyl Tert Butyl Ether	32.9	J	2000	2240	110	2000	2970	147*	28*	70-130/20
91-20-3	Naphthalene	1110		2000	3670	128	2000	4790	184*	26*	70-130/20
103-65-1	n-Propylbenzene	382		2000	2860	124	2000	3760	169*	27*	70-130/20
100-42-5	Styrene	ND		2000	2290	115	2000	3050	153*	28*	70-130/20
630-20-6	1,1,1,2-Tetrachloroethane	ND		2000	2410	121	2000	3250	163*	30*	70-130/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	2330	117	2000	3200	160*	31*	70-130/20
127-18-4	Tetrachloroethylene	ND		2000	2450	123	2000	3220	161*	27*	70-130/20
108-88-3	Toluene	1380		2000	3930	128	2000	4900	176*	22*	70-130/20
87-61-6	1,2,3-Trichlorobenzene	ND		2000	2390	120	2000	3360	168*	34*	70-130/20
120-82-1	1,2,4-Trichlorobenzene	ND		2000	2520	126	2000	3340	167*	28*	70-130/20
71-55-6	1,1,1-Trichloroethane	ND		2000	2390	120	2000	3180	159*	28*	70-130/20
79-00-5	1,1,2-Trichloroethane	ND		2000	2330	117	2000	3080	154*	28*	70-130/20
79-01-6	Trichloroethylene	ND		2000	2350	118	2000	3190	160*	30*	70-130/20
75-69-4	Trichlorofluoromethane	ND		2000	2510	126	2000	3930	197*	44*	60-140/20
96-18-4	1,2,3-Trichloropropane	ND		2000	2200	110	2000	3030	152*	32*	70-130/20
95-63-6	1,2,4-Trimethylbenzene	4530		2000	7250	136* <sup>a</sup>	2000	8570	202* <sup>a</sup>	17	70-130/20
108-67-8	1,3,5-Trimethylbenzene	1580		2000	4230	133*	2000	5260	184*	22*	70-130/20
75-01-4	Vinyl Chloride	ND		2000	2330	117	2000	3820	191*	48*	60-140/20
	m,p-Xylene	8910		4000	14400	137* <sup>a</sup>	4000	16700	195* <sup>a</sup>	15	70-130/20
95-47-6	o-Xylene	2220		2000	4810	130	2000	5780	178*	18	70-130/20
1330-20-7	Xylene (total)	11100		6000	19200	135*	6000	22500	190*	16	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	FA48047-4	Limits
1868-53-7	Dibromofluoromethane	99%	97%	96%	70-130%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	102%	70-130%
2037-26-5	Toluene-D8	100%	100%	104%	70-130%
460-00-4	4-Bromofluorobenzene	100%	104%	101%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.