Gulf Coast ACCUTEST LABORATORIES

07/21/11

Technical Report for

URS Corporation

UTC-Metzler/ 3200 Main St. Keokuk, IA

16530531

Accutest Job Number: T78142

Sampling Date: 06/08/11

Report to:

URS Corporation
8300 College Blvd. Suite 200
Overland Park, KS 66210
David_Dods@URSCorp.com

ATTN: Mr. David Dods

Total number of pages in report: **111**

ACCREDITED IN ACCORDANCE WITH nelac

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

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-10-3) AR (88-0756) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **7**
Section 3: Sample Results **11**
3.1: T78142-1: MW-19-2011 12
3.2: T78142-1F: MW-19-2011 (DISSOLVED) 16
3.3: T78142-2: MW-20-2011 17
3.4: T78142-2F: MW-20-2011 (DISSOLVED) 21
3.5: T78142-3: MW-3-2011 22
3.6: T78142-3F: MW-3-2011 (DISSOLVED) 26
3.7: T78142-4: MW-1-2011 27
3.8: T78142-4F: MW-1-2011 (DISSOLVED) 31
3.9: T78142-5: MW-6A-2011 32
3.10: T78142-5F: MW-6A-2011 (DISSOLVED) 36
3.11: T78142-6: MW-2R-2011 37
3.12: T78142-6F: MW-2R-2011 (DISSOLVED) 41
3.13: T78142-7: MW-7-2011 42
3.14: T78142-7F: MW-7-2011 (DISSOLVED) 46
3.15: T78142-8: EB-7-2011 47
3.16: T78142-9: MW-10-2011 49
3.17: T78142-9F: MW-10-2011 (DISSOLVED) 53
3.18: T78142-10: MW-10A-2011 54
3.19: T78142-10F: MW-10A-2011 (DISSOLVED) 58
3.20: T78142-11: TRIP BLANK 1 59
3.21: T78142-12: TRIP BLANK 2 61
3.22: T78142-13: TRIP BLANK 3 63
3.23: T78142-14: TRIP BLANK 4 65
Section 4: Misc. Forms **67**
4.1: Chain of Custody 68
Section 5: GC/MS Volatiles - QC Data Summaries **77**
5.1: Method Blank Summary 78
5.2: Blank Spike Summary 83
5.3: Matrix Spike/Matrix Spike Duplicate Summary 88
Section 6: Metals Analysis - QC Data Summaries **93**
6.1: Prep QC MP14947: Fe,Mn 94
Section 7: General Chemistry - QC Data Summaries **99**
7.1: Method Blank and Spike Results Summary 100
7.2: Duplicate Results Summary 101
7.3: Matrix Spike Results Summary 102
Section 8: Misc. Forms (Accutest Laboratories Southeast, Inc.) **103**
8.1: Chain of Custody 104
Section 9: GC Volatiles - QC Data (Accutest Laboratories Southeast, Inc.) **106**
9.1: Method Blank Summary 107

Table of Contents

-2-

9.2: Blank Spike Summary 108
9.3: Matrix Spike Summary 109
9.4: Duplicate Summary 110

Accutest Laboratories

Sample Summary

URS Corporation

Job No: T78142

UTC-Metzler/ 3200 Main St. Keokuk, IA
Project No: 16530531

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T78142-1	06/08/11	08:45		06/09/11	AQ	Ground Water	MW-19-2011
T78142-1D	06/08/11	08:45		06/09/11	AQ	Water Dup/MSD	MW-19-2011 (MSD)
T78142-1DF	06/08/11	08:45		06/09/11	AQ	Ground Water	MW-19-2011 (MSD) (DISSOLVED)
T78142-1F	06/08/11	08:45		06/09/11	AQ	Ground Water	MW-19-2011 (DISSOLVED)
T78142-1S	06/08/11	08:45		06/09/11	AQ	Water Matrix Spike	MW-19-2011 (MS)
T78142-1SF	06/08/11	08:45		06/09/11	AQ	Ground Water	MW-19-2011 (MS) (DISSOLVED)
T78142-2	06/08/11	08:55		06/09/11	AQ	Ground Water	MW-20-2011
T78142-2F	06/08/11	08:55		06/09/11	AQ	Ground Water	MW-20-2011 (DISSOLVED)
T78142-3	06/08/11	10:20		06/09/11	AQ	Ground Water	MW-3-2011
T78142-3F	06/08/11	10:20		06/09/11	AQ	Ground Water	MW-3-2011 (DISSOLVED)
T78142-4	06/08/11	10:45		06/09/11	AQ	Ground Water	MW-1-2011
T78142-4F	06/08/11	10:45		06/09/11	AQ	Ground Water	MW-1-2011 (DISSOLVED)
T78142-5	06/08/11	11:40		06/09/11	AQ	Ground Water	MW-6A-2011

Accutest Laboratories

Sample Summary
(continued)

URS Corporation

Job No: T78142

UTC-Metzler/ 3200 Main St. Keokuk, IA
Project No: 16530531

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T78142-5F	06/08/11	11:40		06/09/11	AQ	Ground Water	MW-6A-2011 (DISSOLVED)
T78142-6	06/08/11	14:00		06/09/11	AQ	Ground Water	MW-2R-2011
T78142-6F	06/08/11	14:00		06/09/11	AQ	Ground Water	MW-2R-2011 (DISSOLVED)
T78142-7	06/08/11	14:15		06/09/11	AQ	Ground Water	MW-7-2011
T78142-7F	06/08/11	14:15		06/09/11	AQ	Ground Water	MW-7-2011 (DISSOLVED)
T78142-8	06/08/11	14:45		06/09/11	AQ	Equipment Blank	EB-7-2011
T78142-9	06/08/11	00:00		06/09/11	AQ	Ground Water	MW-10-2011
T78142-9F	06/08/11	00:00		06/09/11	AQ	Ground Water	MW-10-2011 (DISSOLVED)
T78142-10	06/08/11	00:00		06/09/11	AQ	Ground Water	MW-10A-2011
T78142-10F	06/08/11	00:00		06/09/11	AQ	Ground Water	MW-10A-2011 (DISSOLVED)
T78142-11	06/08/11	00:00		06/09/11	AQ	Trip Blank Water	TRIP BLANK 1
T78142-12	06/08/11	00:00		06/09/11	AQ	Trip Blank Water	TRIP BLANK 2
T78142-13	06/08/11	00:00		06/09/11	AQ	Trip Blank Water	TRIP BLANK 3

Accutest Laboratories

Sample Summary
(continued)

URS Corporation

Job No: T78142

UTC-Metzler/ 3200 Main St. Keokuk, IA
Project No: 16530531

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T78142-14	06/08/11	00:00		06/09/11	AQ	Trip Blank Water	TRIP BLANK 4

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	URS Corporation	**Job No**	T78142
Site:	UTC-Metzler/ 3200 Main St. Keokuk, IA	**Report Date**	6/24/2011 5:30:07 PM

19 Samples and 4 Trip Blanks were collected on 06/08/2011 and received at Accutest on 06/09/2011 properly preserved, at 1.3 Deg. C and intact. These Samples received an Accutest job number of T78142. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VX1053

- All samples were analyzed within the recommended method holding time.
- Sample(s) T78000-1MS, T78000-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria. Methylene chloride, a suspected laboratory contaminant, was detected in the Method Blank. The result was below the reporting limit.
- Blank Spike Recovery(s) for 2-Hexanone, Bromodichloromethane, Bromoform, Dibromochloromethane are outside control limits. Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this Blank Spike.
- Matrix Spike Recovery(s) for 2-Hexanone, Bromoform, Hexane are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 2-Hexanone, 4-Methyl-2-pentanone, Bromoform, Dibromochloromethane are outside control limits. Probable cause due to matrix interference.
- RPD for MSD for Hexane is outside control limits for sample T78000-1MSD. Probable cause due to sample nonhomogeneity.

Matrix AQ **Batch ID:** VX1054

- All samples were analyzed within the recommended method holding time.
- Sample(s) T78327-5MS, T78327-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** VX1059

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1MS, T78142-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone, Bromoform, Dibromochloromethane are outside control limits. Probable cause due to matrix interference.

Volatiles by GC By Method RSKSOP-147/175

Matrix AQ **Batch ID:** F:GFF510

- T78142-1 through T78142-7, T78142-9, T78142-10: Analysis performed at Accutest Laboratories, Orlando, FL.

Metals By Method SW846 6010B

Matrix AQ	Batch ID: MP14947

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1FDUP, T78142-1FMS, T78142-1FMSD, T78142-1FSDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 353.2

Matrix AQ	Batch ID: GP13346

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1DUP, T78142-1MS were used as the QC samples for Nitrogen, Nitrate, and Nitrogen, Nitrite.

Wet Chemistry By Method SM 2320B

Matrix AQ	Batch ID: GN32186

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-3DUP, T78142-3MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM 4500 CL C

Matrix AQ	Batch ID: GP13348

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1DUP, T78142-1MS were used as the QC samples for Chloride.

Wet Chemistry By Method SM 4500 SO4

Matrix AQ	Batch ID: GP13348

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1DUP, T78142-1MS were used as the QC samples for Sulfate.

Wet Chemistry By Method SM 4500S+F

Matrix AQ	Batch ID: GN32030

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1DUP, T78142-1MS were used as the QC samples for Sulfide.

Wet Chemistry By Method SM5310B/9060A

Matrix AQ	Batch ID: GP13467

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T78142-1DUP, T78142-1MS were used as the QC samples for Total Organic Carbon.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Laboratories Gulf Coast, Inc. **Job No:** T78142

Site: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA **Report Date** 6/23/2011 7:54:13 AM

9 Samples were collected on 06/08/2011 and were received at Accutest, SE on 06/15/2011 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of T78142. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method RSKSOP-147/175

Matrix: AQ **Batch ID:** GFF510

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) T78142-1DUP, T78142-1MS, T78142-5DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethane, Ethene, Methane are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

RPD(s) for Duplicate for Ethane, Ethene are outside control limits for sample T78142-1DUP, T78142-5DUP. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: June 23, 2011

Lovelie Metzgar, QA Assistant (signature on file)

Gulf Coast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-19-2011		
Lab Sample ID:	T78142-1	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073272.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-19-2011		
Lab Sample ID:	T78142-1	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	93%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

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:	MW-19-2011		
Lab Sample ID:	T78142-1	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12259.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0155	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-19-2011		
Lab Sample ID:	T78142-1	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	400	10	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	179	25	mg/l	50	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	1.3	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	232	25	mg/l	50	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	2.0	1.0	mg/l	1	06/17/11 16:34	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19-2011 (DISSOLVED)		
Lab Sample ID:	T78142-1F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	06/13/11	06/15/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	29.4	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20-2011		
Lab Sample ID:	T78142-2	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073105.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-20-2011		
Lab Sample ID:	T78142-2	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	99%		80-133%

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:	MW-20-2011		
Lab Sample ID:	T78142-2	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12272.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.610	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-20-2011		
Lab Sample ID:	T78142-2	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	456	20	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	52.6	5.0	mg/l	10	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	46.8	5.0	mg/l	10	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	3.8	1.0	mg/l	1	06/17/11 16:48	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20-2011 (DISSOLVED)		
Lab Sample ID:	T78142-2F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	362	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	949	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3-2011		
Lab Sample ID:	T78142-3	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073106.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-3-2011		
Lab Sample ID:	T78142-3	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	99%		80-133%

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:	MW-3-2011		
Lab Sample ID:	T78142-3	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12264.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.263	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-3-2011		
Lab Sample ID:	T78142-3	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	225	5.0	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	80.7	5.0	mg/l	10	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	27.9	5.0	mg/l	10	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	2.7	1.0	mg/l	1	06/17/11 17:02	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3-2011 (DISSOLVED)		
Lab Sample ID:	T78142-3F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	1030	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1-2011		
Lab Sample ID:	T78142-4	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073107.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	0.0010	0.0020	0.00052	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00071	0.0020	0.00056	mg/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-1-2011		
Lab Sample ID:	T78142-4	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	100%		80-133%

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:	MW-1-2011		
Lab Sample ID:	T78142-4	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12265.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.232	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-1-2011		
Lab Sample ID:	T78142-4	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	580	20	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	338	25	mg/l	50	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	0.57	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	26.8	2.5	mg/l	5	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	7.4	1.0	mg/l	1	06/17/11 17:16	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1-2011 (DISSOLVED)		
Lab Sample ID:	T78142-4F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	10300	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	4360	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6A-2011		
Lab Sample ID:	T78142-5	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073108.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-6A-2011		
Lab Sample ID:	T78142-5	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	0.280	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	100%		80-133%

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:	MW-6A-2011		
Lab Sample ID:	T78142-5	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12266.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2 [a]	FF12275.D	5	06/20/11	AFL	n/a	n/a	F:GFF510

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3.68 [b]	0.0025	0.00080	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.
(b) Result is from Run# 2

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:	MW-6A-2011		
Lab Sample ID:	T78142-5	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	222	10	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	1210	250	mg/l	500	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	0.59	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	5.5	0.50	mg/l	1	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	10.1	1.0	mg/l	1	06/17/11 17:30	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6A-2011 (DISSOLVED)		
Lab Sample ID:	T78142-5F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	11000	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	4190	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2R-2011		
Lab Sample ID:	T78142-6	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073109.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	0.00072	0.0020	0.00052	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-2R-2011		
Lab Sample ID:	T78142-6	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	98%		87-119%
460-00-4	4-Bromofluorobenzene	98%		80-133%

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:	MW-2R-2011		
Lab Sample ID:	T78142-6	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12267.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.356	0.00050	0.00016	mg/l	
74-84-0	Ethane	0.00040	0.0010	0.00032	mg/l	J
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-2R-2011		
Lab Sample ID:	T78142-6	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	640	20	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	54.4	5.0	mg/l	10	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	112	5.0	mg/l	10	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	4.2	1.0	mg/l	1	06/17/11 17:44	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2R-2011 (DISSOLVED)		
Lab Sample ID:	T78142-6F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	150	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	768	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7-2011		
Lab Sample ID:	T78142-7	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073110.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	0.0019	0.0020	0.00064	mg/l	J
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	0.00061	0.0020	0.00052	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.109	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.0015	0.0020	0.00045	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.110	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-7-2011		
Lab Sample ID:	T78142-7	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	0.0060	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	0.0167	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	0.0046	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	110%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	99%		80-133%

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:	MW-7-2011		
Lab Sample ID:	T78142-7	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12268.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0431	0.00050	0.00016	mg/l	
74-84-0	Ethane	0.0020	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-7-2011		
Lab Sample ID:	T78142-7	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	444	10	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	173	10	mg/l	20	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	221	10	mg/l	20	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	2.2	1.0	mg/l	1	06/17/11 18:24	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7-2011 (DISSOLVED)		
Lab Sample ID:	T78142-7F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	< 100	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	979	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EB-7-2011		
Lab Sample ID:	T78142-8	**Date Sampled:**	06/08/11
Matrix:	AQ - Equipment Blank	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073111.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	EB-7-2011		
Lab Sample ID:	T78142-8	**Date Sampled:**	06/08/11
Matrix:	AQ - Equipment Blank	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	0.00051	0.0020	0.00043	mg/l	J
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	109%		75-121%
2037-26-5	Toluene-D8	99%		87-119%
460-00-4	4-Bromofluorobenzene	98%		80-133%

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:	MW-10-2011		
Lab Sample ID:	T78142-9	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073112.D	1	06/14/11	JL	n/a	n/a	VX1053
Run #2	X0073123.D	25	06/14/11	JL	n/a	n/a	VX1054

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	0.0021	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	0.0442	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	0.0196	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.264 [a]	0.050	0.013	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	0.0084	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0293	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0293	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	4.25 [a]	0.13	0.010	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	0.152	0.0020	0.00062	mg/l	

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:	MW-10-2011		
Lab Sample ID:	T78142-9	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	0.0039	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	0.413 [a]	0.050	0.023	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	0.966 [a]	0.050	0.013	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	106%	75-121%
2037-26-5	Toluene-D8	98%	99%	87-119%
460-00-4	4-Bromofluorobenzene	99%	99%	80-133%

(a) Result is from Run# 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:	MW-10-2011		
Lab Sample ID:	T78142-9	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12269.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.204	0.00050	0.00016	mg/l	
74-84-0	Ethane	0.0021	0.0010	0.00032	mg/l	
74-85-1	Ethene	0.0011	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-10-2011		
Lab Sample ID:	T78142-9	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	428	20	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	138	10	mg/l	20	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	143	10	mg/l	20	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	2.5	1.0	mg/l	1	06/17/11 18:38	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10-2011 (DISSOLVED)		
Lab Sample ID:	T78142-9F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	203	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	2010	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10A-2011		
Lab Sample ID:	T78142-10	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073286.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	0.0034	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	0.0016	0.0020	0.00052	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0014	0.0020	0.00056	mg/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0014	0.0040	0.0010	mg/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	MW-10A-2011		
Lab Sample ID:	T78142-10	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	0.00064	0.0020	0.00052	mg/l	J
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-122%
17060-07-0	1,2-Dichloroethane-D4	88%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

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:	MW-10A-2011		
Lab Sample ID:	T78142-10	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FF12270.D	1	06/20/11	AFL	n/a	n/a	F:GFF510
Run #2 [a]	FF12276.D	5	06/20/11	AFL	n/a	n/a	F:GFF510

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	1.31 [b]	0.0025	0.00080	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

(a) Analysis performed at Accutest Laboratories, Orlando, FL.
(b) Result is from Run# 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:	MW-10A-2011		
Lab Sample ID:	T78142-10	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	404	20	mg/l	1	06/20/11 13:00	MC	SM 2320B
Chloride	365	25	mg/l	50	06/09/11	ES	SM 4500 CL C
Nitrogen, Nitrate	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Nitrogen, Nitrite	< 0.50	0.50	mg/l	1	06/09/11	ES	EPA 353.2
Sulfate	89.6	25	mg/l	50	06/09/11	ES	SM 4500 SO4
Sulfide	< 0.20	0.20	mg/l	1	06/14/11 08:00	KD	SM 4500S + F
Total Organic Carbon	10.7	1.0	mg/l	1	06/17/11 18:52	BM	SM5310B/9060A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10A-2011 (DISSOLVED)		
Lab Sample ID:	T78142-10F	**Date Sampled:**	06/08/11
Matrix:	AQ - Ground Water	**Date Received:**	06/09/11
		Percent Solids:	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	25000	100	ug/l	1	06/13/11	06/16/11	NS	SW846 6010B [2]	SW846 3010A [3]
Manganese	4070	15	ug/l	1	06/13/11	06/13/11	NS	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA5811
(2) Instrument QC Batch: MA5817
(3) Prep QC Batch: MP14947

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK 1		
Lab Sample ID:	T78142-11	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073266.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	TRIP BLANK 1		
Lab Sample ID:	T78142-11	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	92%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	91%		80-133%

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:	TRIP BLANK 2		
Lab Sample ID:	T78142-12	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073267.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	TRIP BLANK 2		
Lab Sample ID:	T78142-12	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	90%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

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:	TRIP BLANK 3		
Lab Sample ID:	T78142-13	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073268.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	TRIP BLANK 3		
Lab Sample ID:	T78142-13	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-122%
17060-07-0	1,2-Dichloroethane-D4	90%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	91%		80-133%

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:	TRIP BLANK 4		
Lab Sample ID:	T78142-14	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X0073269.D	1	06/17/11	JL	n/a	n/a	VX1059
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.050	0.0047	mg/l	
71-43-2	Benzene	ND	0.0020	0.00050	mg/l	
75-27-4	Bromodichloromethane	ND	0.0020	0.00049	mg/l	
75-25-2	Bromoform	ND	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	ND	0.020	0.012	mg/l	
108-90-7	Chlorobenzene	ND	0.0020	0.00056	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00092	mg/l	
67-66-3	Chloroform	ND	0.0020	0.00064	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00053	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00066	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0020	0.00050	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0020	0.00062	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00062	mg/l	
124-48-1	Dibromochloromethane	ND	0.0020	0.00061	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0020	0.00056	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0020	0.00045	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0040	0.0010	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00068	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
110-54-3	Hexane	ND	0.0020	0.0013	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0032	mg/l	
78-83-1	Isobutyl alcohol	ND	0.050	0.0054	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.010	0.0099	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00094	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00084	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.010	0.0039	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0020	0.00073	mg/l	
100-42-5	Styrene	ND	0.0020	0.00056	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00062	mg/l	

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:	TRIP BLANK 4		
Lab Sample ID:	T78142-14	**Date Sampled:**	06/08/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/09/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	UTC-Metzler/ 3200 Main St. Keokuk, IA		

SW-846 8260B

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.0012	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00098	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0020	0.00091	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
79-01-6	Trichloroethylene	ND	0.0020	0.00052	mg/l	
75-01-4	Vinyl chloride	ND	0.0020	0.0010	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-122%
17060-07-0	1,2-Dichloroethane-D4	91%		75-121%
2037-26-5	Toluene-D8	90%		87-119%
460-00-4	4-Bromofluorobenzene	91%		80-133%

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

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST LABORATORIES

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # See Comments
Bottle Order Control #
Accutest Quote #
Accutest Job # T78142

Client / Reporting Information

Company Name: URS
Street Address: 8300 College Blvd, Suite 200
City: Overland Park State: KS Zip: 66210
Project Contact: David Dods E-mail:
Phone #: 913-344-1022 Fax #:
Sampler(s) Name(s): Charles Arthur 816-668-7763 Phone #:

Project Information

Project Name: UTC Keokuk
Street: 3200 Main
City: Keokuk State: IA
Project #: 16530531
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	H2O/NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	V8260SL	Methane, Ethane, Ethene (RSK-175)	Dissolved Iron and Mg (6010) LAB FILTER	Chloride and Sulfate (300)	Nitrate, Nitrite, and Alkalinity	Sulfide	TOC					LAB USE ONLY
1	MW-19-2011	6-8-11	845	CA	GW	12	8	1				3							/	/	/	/	/	/	/					
1	MW-19-2011-MS	6-8-11	845	CA	GW	12	8	1				3							/	/	/	/	/	/	/					
1	MW-19-2011-MSD	6-8-11	845	CA	GW	12	8	1				3							/	/	/	/	/	/	/					
2	MW-20-2011	6-8-11	855	KS	GW	12	8	1				3							/	/	/	/	/	/	/					
3	MW-3-2011	6-8-11	1020	KS	GW	12	8	1				3							/	/	/	/	/	/	/					
4	MW-1-2011	6-8-11	1045	CA	GW	12	8	1				3							/	/	/	/	/	/	/					
5	MW-6A-2011	6-8-11	1140	KS	GW	12	8	1				3							/	/	/	/	/	/	/					
8	MW-2R-2011	6-8-11	1400	CA	GW	12	8	1				3							/	/	/	/	/	/	/					
7	MW-7-2011	6-8-11	1415	KS	GW	12	8	1				3							/	/	/	/	/	/	/					
8	EB-7-2011	6-8-11	1445	CA	GW	3	3												/											
9	MW-10-2011	6-8-11		CA	GW	12	8	1				3							/	/	/	/	/	/	/					
0	MW-10A-2011	6-8-11		KS	GW	12	8	1				3							/	/	/	/	/	/	/					

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

4 Coolers: 8708 9617 6335
VOA Special List 8708 9617 6313
8708 9617 6302
8708 9617 6324

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Charles Arthur	6-8-11 1745	1 FEDEX	2 FEDEX	6/9/11 915	2 Belinda Gray
3		3	4		4
5		5	Custody Seal # 003 004	Intact / Not intact	Preserved where applicable / On ice / Cooler Temp.

4.1 4

T78142: Chain of Custody
Page 1 of 9

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T78142 **Client:** URS **Project:** UTC KEOKUK

Date / Time Received: 6/9/2011 **Delivery Method:** FedEx **Airbill #'s:** 8708-9617-6324,8708-9617-6335,8708-9617-6302,

No. Coolers: 8 **Therm ID:** 110; **Temp Adjustment Factor:** -0.5;

Cooler Temps (Initial/Adjusted): #1: (1.8/1.3); #2: (1.5/1); #3: (1.8/1.3); #4: (2.6/2.1);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☐	☑

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Glass Thermometer	
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☑	☐	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☑	☐	☐		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments SAMPLE MW-10-2011 & MW-10A-2011 HAS NO TIME ON C..O.C. BUT ON BOTTLES.
RECEIVED 4 SETS OF TRIP BLANKS NOT LISTED ON C.O.C.

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
2	T78142-1	500 ml	1	3G	N/P		110	1.5	-0.5	1
2	T78142-1	500 ml	2	1K	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	3	3G	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	4	3G	NaOH+Asc		110	1.5	-0.5	1
2	T78142-1	40 ml	5	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	6	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	7	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	8	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	9	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	10	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	11	3E	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	12	3E	HCL		110	1.5	-0.5	1
2	T78142-1	500 ml	13	3G	N/P		110	1.5	-0.5	1
2	T78142-1	500 ml	14	1K	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	15	3G	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	16	3G	NaOH+ZnAc		110	1.5	-0.5	1
2	T78142-1	40 ml	17	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	18	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	19	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	20	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	21	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	22	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	23	3E	HCL		110	1.5	-0.5	1

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
2	T78142-1	40 ml	24	3E	HCL		110	1.5	-0.5	1
2	T78142-1	500 ml	25	3G	N/P		110	1.5	-0.5	1
2	T78142-1	500 ml	26	1K	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	27	3G	N/P		110	1.5	-0.5	1
2	T78142-1	250 ml	28	3G	NaOH+ZnAc		110	1.5	-0.5	1
2	T78142-1	40 ml	29	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	30	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	31	VR	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	32	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	33	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	34	SUB	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	35	3E	HCL		110	1.5	-0.5	1
2	T78142-1	40 ml	36	3E	HCL		110	1.5	-0.5	1
3	T78142-2	500 ml	1	3G	N/P		110	1.8	-0.5	1.3
3	T78142-2	500 ml	2	1K	N/P		110	1.8	-0.5	1.3
3	T78142-2	250 ml	3	3G	N/P		110	1.8	-0.5	1.3
3	T78142-2	250 ml	4	3G	NaOH+ZnAc		110	1.8	-0.5	1.3
3	T78142-2	40 ml	5	VR	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	6	VR	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	7	VR	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	8	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	9	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	10	SUB	HCL		110	1.8	-0.5	1.3

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
3	T78142-2	40 ml	11	3E	HCL		110	1.8	-0.5	1.3
3	T78142-2	40 ml	12	3E	HCL		110	1.8	-0.5	1.3
4	T78142-3	500 ml	1	3G	N/P		110	2.6	-0.5	2.1
4	T78142-3	500 ml	2	1K	N/P		110	2.6	-0.5	2.1
4	T78142-3	250 ml	3	3G	N/P		110	2.6	-0.5	2.1
4	T78142-3	250 ml	4	3G	NaOH+ZnAc		110	2.6	-0.5	2.1
4	T78142-3	40 ml	5	VR	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	6	VR	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	7	VR	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	8	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	9	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	10	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	11	3E	HCL		110	2.6	-0.5	2.1
4	T78142-3	40 ml	12	3E	HCL		110	2.6	-0.5	2.1
3	T78142-4	500 ml	1	3G	N/P		110	1.8	-0.5	1.3
3	T78142-4	500 ml	2	1K	N/P		110	1.8	-0.5	1.3
3	T78142-4	250 ml	3	3G	N/P		110	1.8	-0.5	1.3
3	T78142-4	250 ml	4	3G	NaOH+ZnAc		110	1.8	-0.5	1.3
3	T78142-4	40 ml	5	VR	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	6	VR	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	7	VR	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	8	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	9	SUB	HCL		110	1.8	-0.5	1.3

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
3	T78142-4	40 ml	10	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	11	3E	HCL		110	1.8	-0.5	1.3
3	T78142-4	40 ml	12	3E	HCL		110	1.8	-0.5	1.3
4	T78142-5	500 ml	1	3G	N/P		110	2.6	-0.5	2.1
4	T78142-5	500 ml	2	1K	N/P		110	2.6	-0.5	2.1
4	T78142-5	250 ml	3	3G	N/P		110	2.6	-0.5	2.1
4	T78142-5	250 ml	4	3G	NaOH+ZnAc		110	2.6	-0.5	2.1
4	T78142-5	40 ml	5	VR	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	6	VR	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	7	VR	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	8	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	9	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	10	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	11	3E	HCL		110	2.6	-0.5	2.1
4	T78142-5	40 ml	12	3E	HCL		110	2.6	-0.5	2.1
3	T78142-6	500 ml	1	3G	N/P		110	1.8	-0.5	1.3
3	T78142-6	500 ml	2	1K	N/P		110	1.8	-0.5	1.3
3	T78142-6	250 ml	3	3G	N/P		110	1.8	-0.5	1.3
3	T78142-6	250 ml	4	3G	NaOH+ZnAc		110	1.8	-0.5	1.3
3	T78142-6	40 ml	5	VR	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	6	VR	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	7	VR	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	8	SUB	HCL		110	1.8	-0.5	1.3

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
3	T78142-6	40 ml	9	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	10	SUB	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	11	3E	HCL		110	1.8	-0.5	1.3
3	T78142-6	40 ml	12	3E	HCL		110	1.8	-0.5	1.3
4	T78142-7	500 ml	1	3G	N/P		110	2.6	-0.5	2.1
4	T78142-7	500 ml	2	1K	N/P		110	2.6	-0.5	2.1
4	T78142-7	250 ml	3	3G	N/P		110	2.6	-0.5	2.1
4	T78142-7	250 ml	4	3G	NaOH+ZnAc		110	2.6	-0.5	2.1
4	T78142-7	40 ml	5	VR	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	6	VR	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	7	VR	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	8	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	9	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	10	SUB	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	11	3E	HCL		110	2.6	-0.5	2.1
4	T78142-7	40 ml	12	3E	HCL		110	2.6	-0.5	2.1
1	T78142-8	40 ml	1	VR	HCL		110	1.8	-0.5	1.3
1	T78142-8	40 ml	2	VR	HCL		110	1.8	-0.5	1.3
1	T78142-8	40 ml	3	VR	HCL		110	1.8	-0.5	1.3
1	T78142-9	500 ml	1	3G	N/P		110	1.8	-0.5	1.3
1	T78142-9	500 ml	2	1K	N/P		110	1.8	-0.5	1.3
1	T78142-9	250 ml	3	3G	N/P		110	1.8	-0.5	1.3
1	T78142-9	250 ml	4	3G	NaOH+ZnAc		110	1.8	-0.5	1.3

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	T78142-9	40 ml	5	VR	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	6	VR	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	7	VR	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	8	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	9	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	10	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	11	3E	HCL		110	1.8	-0.5	1.3
1	T78142-9	40 ml	12	3E	HCL		110	1.8	-0.5	1.3
1	T78142-10	500 ml	1	3G	N/P		110	1.8	-0.5	1.3
1	T78142-10	500 ml	2	1K	N/P		110	1.8	-0.5	1.3
1	T78142-10	250 ml	3	3G	N/P		110	1.8	-0.5	1.3
1	T78142-10	250 ml	4	3G	NaOH+ZnAc		110	1.8	-0.5	1.3
1	T78142-10	40 ml	5	VR	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	6	VR	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	7	VR	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	8	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	9	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	10	SUB	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	11	3E	HCL		110	1.8	-0.5	1.3
1	T78142-10	40 ml	12	3E	HCL		110	1.8	-0.5	1.3
1	T78142-11	40 ml	1	VR	HCL		110	1.8	-0.5	1.3
1	T78142-11	40 ml	2	VR	HCL		110	1.8	-0.5	1.3
2	T78142-12	40 ml	1	VR	HCL		110	1.5	-0.5	1

Sample Receipt Log

Job #: T78142 **Date / Time Received:** 6/9/2011 9:15:00 AM **Initials:** BG

Client: URS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
2	T78142-12	40 ml	2	VR	HCL		110	1.5	-0.5	1
3	T78142-13	40 ml	1	VR	HCL		110	1.8	-0.5	1.3
3	T78142-13	40 ml	2	VR	HCL		110	1.8	-0.5	1.3
4	T78142-14	40 ml	1	VR	HCL		110	2.6	-0.5	2.1
4	T78142-14	40 ml	2	VR	HCL		110	2.6	-0.5	2.1

Gulf Coast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1053-MB	X0073089.D	1	06/13/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.49	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	ug/l	
71-36-3	n-Butyl Alcohol	ND	20	12	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.56	ug/l	
75-00-3	Chloroethane	ND	2.0	0.92	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.66	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.52	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.62	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.56	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.45	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.68	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
110-54-3	Hexane	ND	2.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	10	3.2	ug/l	
78-83-1	Isobutyl alcohol	ND	50	5.4	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	9.9	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.94	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.84	ug/l	
75-09-2	Methylene chloride [a]	0.65	5.0	0.41	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	2.0	0.56	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.98	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	

Method Blank Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1053-MB	X0073089.D	1	06/13/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	75-121%
2037-26-5	Toluene-D8	99%	87-119%
460-00-4	4-Bromofluorobenzene	98%	80-133%

(a) Suspected laboratory contaminant.

Method Blank Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1054-MB	X0073118.D	1	06/14/11	JL	n/a	n/a	VX1054

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-9

CAS No.	Compound	Result	RL	MDL	Units	Q
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	79-122%
17060-07-0	1,2-Dichloroethane-D4	114%	75-121%
2037-26-5	Toluene-D8	107%	87-119%
460-00-4	4-Bromofluorobenzene	106%	80-133%

Method Blank Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1059-MB	X0073265.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.49	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	ug/l	
71-36-3	n-Butyl Alcohol	ND	20	12	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.56	ug/l	
75-00-3	Chloroethane	ND	2.0	0.92	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.66	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.52	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.62	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.56	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.45	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	4.0	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.68	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
110-54-3	Hexane	ND	2.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	10	3.2	ug/l	
78-83-1	Isobutyl alcohol	ND	50	5.4	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	9.9	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.94	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.73	ug/l	
100-42-5	Styrene	ND	2.0	0.56	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.62	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.98	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.91	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	

Method Blank Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1059-MB	X0073265.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	2.0	0.52	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	75-121%
2037-26-5	Toluene-D8	89%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Blank Spike Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1053-BS	X0073087.D	1	06/13/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	93.8	75	62-124
71-43-2	Benzene	25	22.9	92	76-118
75-27-4	Bromodichloromethane	25	27.4	110* [a]	68-107
75-25-2	Bromoform	25	30.1	120* [a]	64-103
71-36-3	n-Butyl Alcohol	500	468	94	40-141
108-90-7	Chlorobenzene	25	24.1	96	74-111
75-00-3	Chloroethane	25	22.7	91	75-135
67-66-3	Chloroform	25	23.7	95	75-117
75-15-0	Carbon disulfide	25	26.3	105	57-126
56-23-5	Carbon tetrachloride	25	25.5	102	75-125
75-34-3	1,1-Dichloroethane	25	23.8	95	76-121
75-35-4	1,1-Dichloroethylene	25	25.9	104	71-128
107-06-2	1,2-Dichloroethane	25	25.0	100	70-111
78-87-5	1,2-Dichloropropane	25	24.2	97	71-113
124-48-1	Dibromochloromethane	25	28.0	112* [a]	69-104
156-59-2	cis-1,2-Dichloroethylene	25	22.7	91	68-113
10061-01-5	cis-1,3-Dichloropropene	25	26.2	105	71-111
156-60-5	trans-1,2-Dichloroethylene	25	24.1	96	70-125
540-59-0	1,2-Dichloroethene (total)	50	46.8	94	71-117
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	75-111
100-41-4	Ethylbenzene	25	24.9	100	75-112
110-54-3	Hexane	25	30.9	124	68-130
591-78-6	2-Hexanone	125	144	115* [a]	60-113
78-83-1	Isobutyl alcohol	500	532	106	70-130
108-10-1	4-Methyl-2-pentanone	125	143	114	63-115
74-83-9	Methyl bromide	25	18.4	74	59-132
74-87-3	Methyl chloride	25	20.6	82	56-150
75-09-2	Methylene chloride	25	22.0	88	70-113
78-93-3	Methyl ethyl ketone	125	129	103	62-117
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	65-113
100-42-5	Styrene	25	24.7	99	66-100
71-55-6	1,1,1-Trichloroethane	25	24.2	97	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	27.2	109	67-110
79-00-5	1,1,2-Trichloroethane	25	25.8	103	69-107
127-18-4	Tetrachloroethylene	25	22.3	89	77-120
108-88-3	Toluene	25	23.7	95	77-114

Blank Spike Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1053-BS	X0073087.D	1	06/13/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-01-6	Trichloroethylene	25	21.6	86	74-117
75-01-4	Vinyl chloride	25	19.9	80	64-121
1330-20-7	Xylene (total)	75	75.1	100	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

(a) Outside control limits biased high. Only ND results for this compound are reported for all the samples associated with this BS.

Blank Spike Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1054-BS	X0073116.D	1	06/14/11	JL	n/a	n/a	VX1054

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-35-4	1,1-Dichloroethylene	25	26.2	105	71-128
75-09-2	Methylene chloride	25	21.9	88	70-113
127-18-4	Tetrachloroethylene	25	22.4	90	77-120
79-01-6	Trichloroethylene	25	21.8	87	74-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	105%	75-121%
2037-26-5	Toluene-D8	100%	87-119%
460-00-4	4-Bromofluorobenzene	97%	80-133%

Blank Spike Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1059-BS	X0073263.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	127	102	62-124
71-43-2	Benzene	25	23.0	92	76-118
75-27-4	Bromodichloromethane	25	23.2	93	68-107
75-25-2	Bromoform	25	23.8	95	64-103
71-36-3	n-Butyl Alcohol	500	412	82	40-141
108-90-7	Chlorobenzene	25	23.4	94	74-111
75-00-3	Chloroethane	25	24.6	98	75-135
67-66-3	Chloroform	25	23.3	93	75-117
75-15-0	Carbon disulfide	25	22.7	91	57-126
56-23-5	Carbon tetrachloride	25	25.1	100	75-125
75-34-3	1,1-Dichloroethane	25	23.5	94	76-121
75-35-4	1,1-Dichloroethylene	25	27.2	109	71-128
107-06-2	1,2-Dichloroethane	25	23.5	94	70-111
78-87-5	1,2-Dichloropropane	25	23.5	94	71-113
124-48-1	Dibromochloromethane	25	23.7	95	69-104
156-59-2	cis-1,2-Dichloroethylene	25	23.1	92	68-113
10061-01-5	cis-1,3-Dichloropropene	25	23.4	94	71-111
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	70-125
540-59-0	1,2-Dichloroethene (total)	50	46.9	94	71-117
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	75-111
100-41-4	Ethylbenzene	25	23.1	92	75-112
110-54-3	Hexane	25	26.3	105	68-130
591-78-6	2-Hexanone	125	128	102	60-113
78-83-1	Isobutyl alcohol	500	461	92	70-130
108-10-1	4-Methyl-2-pentanone	125	129	103	63-115
74-83-9	Methyl bromide	25	24.4	98	59-132
74-87-3	Methyl chloride	25	25.2	101	56-150
75-09-2	Methylene chloride	25	22.5	90	70-113
78-93-3	Methyl ethyl ketone	125	127	102	62-117
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	65-113
100-42-5	Styrene	25	23.5	94	66-100
71-55-6	1,1,1-Trichloroethane	25	24.7	99	76-125
79-34-5	1,1,2,2-Tetrachloroethane	25	24.0	96	67-110
79-00-5	1,1,2-Trichloroethane	25	24.2	97	69-107
127-18-4	Tetrachloroethylene	25	24.4	98	77-120
108-88-3	Toluene	25	23.1	92	77-114

Blank Spike Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX1059-BS	X0073263.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-01-6	Trichloroethylene	25	23.7	95	74-117
75-01-4	Vinyl chloride	25	22.7	91	64-121
1330-20-7	Xylene (total)	75	69.5	93	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	89%	75-121%
2037-26-5	Toluene-D8	91%	87-119%
460-00-4	4-Bromofluorobenzene	87%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78000-1MS	X0073093.D	1	06/14/11	JL	n/a	n/a	VX1053
T78000-1MSD	X0073094.D	1	06/14/11	JL	n/a	n/a	VX1053
T78000-1	X0073092.D	1	06/14/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	T78000-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	83.1	66	102	82	20	62-124/21
71-43-2	Benzene	ND		25	22.5	90	22.2	89	1	76-118/16
75-27-4	Bromodichloromethane	ND		25	26.6	106	26.5	106	0	68-107/12
75-25-2	Bromoform	ND		25	27.8	111*	28.9	116*	4	64-103/14
71-36-3	n-Butyl Alcohol	ND		500	416	83	489	98	16	40-141/19
108-90-7	Chlorobenzene	ND		25	23.8	95	23.5	94	1	74-111/11
75-00-3	Chloroethane	ND		25	24.0	96	23.5	94	2	75-135/15
67-66-3	Chloroform	ND		25	23.0	92	22.9	92	0	75-117/12
75-15-0	Carbon disulfide	ND		25	24.5	98	24.1	96	2	57-126/13
56-23-5	Carbon tetrachloride	ND		25	25.3	101	24.8	99	2	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	23.1	92	22.8	91	1	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	25.7	103	24.9	100	3	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	23.9	96	24.8	99	4	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	23.3	93	23.7	95	2	71-113/12
124-48-1	Dibromochloromethane	ND		25	26.1	104	27.0	108*	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	21.7	87	21.6	86	0	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.3	97	24.8	99	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.6	94	23.0	92	3	70-125/14
540-59-0	1,2-Dichloroethene (total)	ND		50	45.3	91	44.6	89	2	71-117/12
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.6	98	25.6	102	4	75-111/12
100-41-4	Ethylbenzene	ND		25	24.3	97	23.9	96	2	75-112/12
110-54-3	Hexane	ND		25	40.2	161*	25.4	102	45*	68-130/12
591-78-6	2-Hexanone	ND		125	145	116*	169	135*	15	60-113/18
78-83-1	Isobutyl alcohol	ND		500	457	91	541	108	17	70-130/30
108-10-1	4-Methyl-2-pentanone	ND		125	144	115	166	133*	14	63-115/21
74-83-9	Methyl bromide	ND		25	19.3	77	19.5	78	1	59-132/15
74-87-3	Methyl chloride	ND		25	22.1	88	21.8	87	1	56-150/17
75-09-2	Methylene chloride	ND		25	20.5	82	20.7	83	1	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	121	97	138	110	13	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	20.5	82	22.4	90	9	65-113/13
100-42-5	Styrene	ND		25	23.7	95	23.6	94	0	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.7	95	23.3	93	2	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.8	103	29.0	116*	12	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	25.2	101	26.2	105	4	69-107/14
127-18-4	Tetrachloroethylene	ND		25	21.3	85	20.8	83	2	77-120/13
108-88-3	Toluene	ND		25	23.2	93	22.9	92	1	77-114/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78000-1MS	X0073093.D	1	06/14/11	JL	n/a	n/a	VX1053
T78000-1MSD	X0073094.D	1	06/14/11	JL	n/a	n/a	VX1053
T78000-1	X0073092.D	1	06/14/11	JL	n/a	n/a	VX1053

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-8, T78142-9

CAS No.	Compound	T78000-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-01-6	Trichloroethylene	ND		25	21.3	85	20.8	83	2	74-117/12
75-01-4	Vinyl chloride	ND		25	21.7	87	21.1	84	3	64-121/19
1330-20-7	Xylene (total)	ND		75	72.4	97	71.5	95	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T78000-1	Limits
1868-53-7	Dibromofluoromethane	99%	98%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	107%	107%	75-121%
2037-26-5	Toluene-D8	99%	99%	98%	87-119%
460-00-4	4-Bromofluorobenzene	96%	98%	98%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78327-5MS	X0073125.D	1	06/14/11	JL	n/a	n/a	VX1054
T78327-5MSD	X0073126.D	1	06/14/11	JL	n/a	n/a	VX1054
T78327-5	X0073124.D	1	06/14/11	JL	n/a	n/a	VX1054

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-9

CAS No.	Compound	T78327-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-35-4	1,1-Dichloroethylene	ND		25	25.6	102	24.2	97	6	71-128/19
75-09-2	Methylene chloride	ND		25	20.9	84	20.7	83	1	70-113/13
127-18-4	Tetrachloroethylene	ND		25	22.4	90	21.3	85	5	77-120/13
79-01-6	Trichloroethylene	ND		25	21.9	88	20.9	84	5	74-117/12

CAS No.	Surrogate Recoveries	MS	MSD	T78327-5	Limits
1868-53-7	Dibromofluoromethane	95%	95%	95%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	105%	75-121%
2037-26-5	Toluene-D8	99%	99%	99%	87-119%
460-00-4	4-Bromofluorobenzene	98%	98%	100%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78142-1MS	X0073273.D	1	06/17/11	JL	n/a	n/a	VX1059
T78142-1MSD	X0073274.D	1	06/17/11	JL	n/a	n/a	VX1059
T78142-1	X0073272.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	T78142-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	145	116	124	99	16	62-124/21
71-43-2	Benzene	ND		25	24.8	99	24.2	97	2	76-118/16
75-27-4	Bromodichloromethane	ND		25	25.6	102	24.8	99	3	68-107/12
75-25-2	Bromoform	ND		25	26.7	107* [a]	25.2	101	6	64-103/14
71-36-3	n-Butyl Alcohol	ND		500	522	104	440	88	17	40-141/19
108-90-7	Chlorobenzene	ND		25	25.6	102	25.0	100	2	74-111/11
75-00-3	Chloroethane	ND		25	27.1	108	25.4	102	6	75-135/15
67-66-3	Chloroform	ND		25	25.4	102	25.0	100	2	75-117/12
75-15-0	Carbon disulfide	ND		25	24.0	96	23.7	95	1	57-126/13
56-23-5	Carbon tetrachloride	ND		25	30.5	122	29.1	116	5	75-125/12
75-34-3	1,1-Dichloroethane	ND		25	25.5	102	24.9	100	2	76-121/13
75-35-4	1,1-Dichloroethylene	ND		25	29.0	116	26.8	107	8	71-128/19
107-06-2	1,2-Dichloroethane	ND		25	25.7	103	24.9	100	3	70-111/14
78-87-5	1,2-Dichloropropane	ND		25	25.6	102	25.1	100	2	71-113/12
124-48-1	Dibromochloromethane	ND		25	26.2	105* [a]	25.4	102	3	69-104/12
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.1	100	24.8	99	1	68-113/13
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.9	100	24.3	97	2	71-111/12
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.1	104	25.2	101	4	70-125/14
540-59-0	1,2-Dichloroethene (total)	ND		50	51.2	102	50.0	100	2	71-117/12
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.1	108	26.2	105	3	75-111/12
100-41-4	Ethylbenzene	ND		25	25.0	100	24.3	97	3	75-112/12
110-54-3	Hexane	ND		25	24.1	96	22.6	90	6	68-130/12
591-78-6	2-Hexanone	ND		125	150	120* [a]	131	105	14	60-113/18
78-83-1	Isobutyl alcohol	ND		500	565	113	483	97	16	70-130/30
108-10-1	4-Methyl-2-pentanone	ND		125	148	118* [a]	132	106	11	63-115/21
74-83-9	Methyl bromide	ND		25	27.0	108	25.6	102	5	59-132/15
74-87-3	Methyl chloride	ND		25	27.0	108	25.7	103	5	56-150/17
75-09-2	Methylene chloride	ND		25	23.7	95	23.1	92	3	70-113/13
78-93-3	Methyl ethyl ketone	ND		125	142	114	125	100	13	62-117/21
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.7	99	23.5	94	5	65-113/13
100-42-5	Styrene	ND		25	25.1	100	24.9	100	1	66-100/11
71-55-6	1,1,1-Trichloroethane	ND		25	26.6	106	25.5	102	4	76-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	27.2	109	25.0	100	8	67-110/20
79-00-5	1,1,2-Trichloroethane	ND		25	26.1	104	24.9	100	5	69-107/14
127-18-4	Tetrachloroethylene	ND		25	25.1	100	24.6	98	2	77-120/13
108-88-3	Toluene	ND		25	25.0	100	24.4	98	2	77-114/12

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T78142
Account: URSKSOP URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78142-1MS	X0073273.D	1	06/17/11	JL	n/a	n/a	VX1059
T78142-1MSD	X0073274.D	1	06/17/11	JL	n/a	n/a	VX1059
T78142-1	X0073272.D	1	06/17/11	JL	n/a	n/a	VX1059

The QC reported here applies to the following samples: **Method:** SW846 8260B

T78142-1, T78142-10, T78142-11, T78142-12, T78142-13, T78142-14

CAS No.	Compound	T78142-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-01-6	Trichloroethylene	ND		25	25.7	103	24.6	98	4	74-117/12
75-01-4	Vinyl chloride	ND		25	25.8	103	23.7	95	8	64-121/19
1330-20-7	Xylene (total)	ND		75	74.8	100	73.0	97	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T78142-1	Limits
1868-53-7	Dibromofluoromethane	91%	90%	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	88%	88%	93%	75-121%
2037-26-5	Toluene-D8	90%	90%	90%	87-119%
460-00-4	4-Bromofluorobenzene	87%	86%	90%	80-133%

(a) AZ: M1

Gulf Coast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

QC Batch ID: MP14947
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/13/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.3	12		
Antimony	5.0	1	1		
Arsenic	5.0	1.7	1		
Barium	200	.97	3.4		
Beryllium	5.0	.056	.16		
Boron	100	1.4	7.8		
Cadmium	4.0	.11	.09		
Calcium	5000	7.4	25		
Chromium	10	.23	.27		
Cobalt	50	.15	.22		
Copper	25	1.1	5.9		
Iron	100	1.1	23	-12	<100
Lead	3.0	1	1.8		
Lithium	300	2	2		
Magnesium	5000	7.7	7.9		
Manganese	15	.054	1.9	0.030	<15
Molybdenum	10	.39	.2		
Nickel	40	.69	1.4		
Potassium	5000	39	45		
Selenium	5.0	1.5	.98		
Silver	10	1.2	.24		
Sodium	5000	9.2	100		
Strontium	10	.061	.4		
Thallium	10	.67	1.2		
Tin	20	.69	2.8		
Titanium	20	.29	.3		
Vanadium	50	.3	.3		
Zinc	20	.51	3.5		

Associated samples MP14947: T78142-1F, T78142-2F, T78142-3F, T78142-4F, T78142-5F, T78142-6F, T78142-7F, T78142-9F, T78142-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

QC Batch ID: MP14947
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			06/13/11					06/13/11	
Metal	T78142-1F Original	DUP	RPD	QC Limits	T78142-1F Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium	anr								
Chromium									
Cobalt									
Copper									
Iron	9.9	0.0	0.0	0-20	9.9	47700	50000	95.4	80-120
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	29.4	28.1	4.5	0-20	29.4	482	400	113.2	80-120
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP14947: T78142-1F, T78142-2F, T78142-3F, T78142-4F, T78142-5F, T78142-6F, T78142-7F, T78142-9F, T78142-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

QC Batch ID: MP14947 Methods: SW846 6010B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/13/11

Metal	T78142-1F Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	anr					
Chromium						
Cobalt						
Copper						
Iron	9.9	49000	50000	98.0	2.7	20
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	29.4	489	400	114.9	1.4	20
Molybdenum						
Nickel						
Potassium	anr					
Selenium						
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP14947: T78142-1F, T78142-2F, T78142-3F, T78142-4F, T78142-5F, T78142-6F, T78142-7F, T78142-9F, T78142-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

QC Batch ID: MP14947
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/13/11

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	anr			
Chromium				
Cobalt				
Copper				
Iron	50100	50000	100.2	80-120
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	465	400	116.3	80-120
Molybdenum				
Nickel				
Potassium	anr			
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14947: T78142-1F, T78142-2F, T78142-3F, T78142-4F, T78142-5F, T78142-6F, T78142-7F, T78142-9F, T78142-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

QC Batch ID: MP14947
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/13/11

Metal	T78142-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	anr			
Chromium				
Cobalt				
Copper				
Iron	9.88	0.00		0-10
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	29.4	29.5	0.1	0-10
Molybdenum				
Nickel				
Potassium	anr			
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP14947: T78142-1F, T78142-2F, T78142-3F, T78142-4F, T78142-5F, T78142-6F, T78142-7F, T78142-9F, T78142-10F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Gulf Coast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN32186	5.0	2.0	mg/l	2500	2440	98.0	80-120%
Chloride	GP13348/GN31930	0.50	0.0	mg/l	10	10.3	103.0	92-107%
Nitrogen, Nitrate	GP13346/GN31929	0.50	0.0	mg/l	10	10.3	103.0	80-120%
Nitrogen, Nitrite	GP13346/GN31929	0.50	0.0	mg/l	10	10.6	106.0	89-117%
Sulfate	GP13348/GN31930	0.50	0.0	mg/l	10	10.5	105.0	80-120%
Sulfide	GN32030	0.20	0.0	mg/l	1600	1580	98.8	80-120%
Total Organic Carbon	GP13467/GN32139	1.0	0.0	mg/l	25	25.6	102.4	80-120%

Associated Samples:
Batch GN32030: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GN32186: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13346: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13348: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13467: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN32186	T78142-3	mg/l	225	225	0.0	0-10%
Chloride	GP13348/GN31930	T78142-1	mg/l	179	177	1.1	0-5%
Nitrogen, Nitrate	GP13346/GN31929	T78142-1	mg/l	1.3	1.3	0.8	0-20%
Nitrogen, Nitrite	GP13346/GN31929	T78142-1	mg/l	0.0	0.0	0.0	0-10%
Sulfate	GP13348/GN31930	T78142-1	mg/l	232	230	0.9	0-20%
Sulfide	GN32030	T78142-1	mg/l	0.0	0.0	0.0	0-20%
Total Organic Carbon	GP13467/GN32139	T78142-1	mg/l	2.0	2.1	4.9	0-20%

Associated Samples:
Batch GN32030: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GN32186: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13346: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13348: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13467: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T78142
Account: URSKSOP - URS Corporation
Project: UTC-Metzler/ 3200 Main St. Keokuk, IA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN32186	T78142-3	mg/l	225	25	248	92.0	79-122%
Chloride	GP13348/GN31930	T78142-1	mg/l	179	500	731	110.0	81-119%
Nitrogen, Nitrate	GP13346/GN31929	T78142-1	mg/l	1.3	10	11.6	103.0	75-125%
Nitrogen, Nitrite	GP13346/GN31929	T78142-1	mg/l	0.0	10	10.5	105.0	75-134%
Sulfate	GP13348/GN31930	T78142-1	mg/l	232	500	779	109.0	75-125%
Sulfide	GN32030	T78142-1	mg/l	0.0	16	15.0	93.8	75-125%
Total Organic Carbon	GP13467/GN32139	T78142-1	mg/l	2.0	25	28.2	104.8	75-125%

Associated Samples:
Batch GN32030: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GN32186: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13346: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13348: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
Batch GP13467: T78142-1, T78142-10, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Gulf Coast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

SUBCONTRACT COC

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 1 of 1

FED-EX Tracking #

Bottle Order Control # T78142

Accutest Quote #

Accutest Job #

Client Information

Company Name: Accutest Gulf Coast

Project Contact: Georgia Jones — Email: georgiaj@accutest.com

Address: 10165 Harwin Dr, Suite 150

City: Houston — State: TX — Zip: 77036

Phone No.: 713-271-4700

Subcontract Information

Subcontract Laboratory: ACCUTEST FLORIDA

Laboratory Contact: Sample Receiving — Email:

Address:

City — State — Zip

Phone No.

Requested Analyses

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Wastewater
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Liquid
SOL - Other Solid

Accutest Sample Number	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	DI/MeOH	TSP	NONE	OTHER	RSK147CH4 Methane, Ethane, Ethene	LAB USE ONLY
T78142-1 MS/MSD	6/8/2011		GW	9	X								X	
T78142-2	6/8/2011		GW	3	X								X	
T78142-3	6/8/2011		GW	3	X								X	
T78142-4	6/8/2011		GW	3	X								X	
T78142-5	6/8/2011		GW	3	X								X	
T78142-6	6/8/2011		GW	3	X								X	
T78142-7	6/8/2011		GW	3	X								X	
T78142-9	6/8/2011		GW	3	X								X	
T78142-10	6/8/2011		GW	3	X								X	

Turnaround Time (Business days)

- STANDARD
- 7 Day
- 4 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- Other

Approved By:/ Date:

Real time analytical data available via Lablink

Data Deliverable information

- Commercial "A"
- Commercial "B"
- Reduced Tier 1
- Full Data Package
- TRRP-13
- EDD Format
- Other

Commercial "A" = Results Only

Commercial "B" = Results & Standard QC

Comments / Remarks

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	6/14/11 1730	1 FEDEX	2		2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 2-6

8.1

8

T78142: Chain of Custody

Page 1 of 2

Accutest Laboratories Southeast, Inc.

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: T78142 CLIENT: AGL PROJECT: T78142

DATE/TIME RECEIVED: 061511 1000 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7972 0576 7362

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE ET 06.15.11 REVIEWER SIGNATURE/DATE 06/15/11

NF 12/10

receipt confirmation 122910.xls

8.1

8

T78142: Chain of Custody

Page 2 of 2

Gulf Coast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

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

Method Blank Summary

Job Number: T78142
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF510-MB	FF12252.D	1	06/20/11	MM	n/a	n/a	GFF510

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

T78142-1, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9, T78142-10

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Blank Spike Summary

Job Number: T78142
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFF510-BS	FF12253.D	1	06/20/11	MM	n/a	n/a	GFF510

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

T78142-1, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9, T78142-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	86.0	80	54-149
74-84-0	Ethane	219	184	84	57-143
74-85-1	Ethene	290	244	84	57-143

Matrix Spike Summary

Job Number: T78142
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78142-1MS	FF12263.D	1	06/20/11	MM	n/a	n/a	GFF510
T78142-1	FF12259.D	1	06/20/11	MM	n/a	n/a	GFF510

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

T78142-1, T78142-2, T78142-3, T78142-4, T78142-5, T78142-6, T78142-7, T78142-9, T78142-10

CAS No.	Compound	T78142-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	15.5		108	180	152*	54-149
74-84-0	Ethane	0.10		219	350	160*	57-143
74-85-1	Ethene	0.11		290	466	161*	57-143

Duplicate Summary

Job Number: T78142
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78142-1DUP	FF12260.D	1	06/20/11	MM	n/a	n/a	GFF510
T78142-1	FF12259.D	1	06/20/11	MM	n/a	n/a	GFF510

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

T78142-1, T78142-2, T78142-3, T78142-4, T78142-6, T78142-7, T78142-9, T78142-10

CAS No.	Compound	T78142-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	15.5		16.2		4	24
74-84-0	Ethane	0.10		ND		200*	23
74-85-1	Ethene	0.11		ND		200*	10

Duplicate Summary

Job Number: T78142
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: URSKSOP: UTC-Metzler/ 3200 Main St. Keokuk, IA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T78142-5DUP	FF12271.D	1	06/20/11	MM	n/a	n/a	GFF510
T78142-5	FF12266.D	1	06/20/11	MM	n/a	n/a	GFF510
T78142-5	FF12275.D	5	06/20/11	MM	n/a	n/a	GFF510

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

T78142-5

CAS No.	Compound	T78142-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	3680 [a]		2990	E	17	24
74-84-0	Ethane	0.12		ND		200*	23
74-85-1	Ethene	0.060		ND		200*	10

(a) Result is from Run #2.

9.4.2

9