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May 24, 2017

Ms. Joyce Munie, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

Submittal of Corrected Information
Groundwater Monitoring Report – 3rd Quarter 2014
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R

Dear Ms. Munie:

On behalf of Shell Oil Products US (SOPUS), AECOM Technical Services, Inc. (AECOM) hereby submits the enclosed addendum to the above-referenced report (the Report).

AECOM collects a variety of samples for SOPUS as part of the work performed in connection with the above-referenced site including the samples referenced and utilized in the Report. AECOM contracts with independent laboratories to analyze the samples collected. As noted in SOPUS' initial disclosure letter and our subsequent communications, Accutest Laboratories (Accutest) issued revised laboratory analyses in response to an internal evaluation performed of its process. Please note, the majority of the corrected analyses were issued only to include a revised footnote and the numeric value of the analytical results reported remained unchanged. If any numeric values of analytical results presented in the Report were updated by Accutest, the updated results are presented as part of the information included in the Report addendum. Moreover, based upon our evaluation of the Report and the revised information received from Accutest, the conclusion(s) of the Report as originally issued are unaffected.

The information provided within and the format of this addendum is as discussed during our meeting with IEPA on March 23, 2017. This addendum includes the following information:

- IEPA LPC form
- Data Review Addendum Table (summarizing changed information)
- Revised analytical results table
- Revised figures
- Revised laboratory reports (on CD)

If you have any questions during your review, please contact Kevin Dyer, SOPUS Senior Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or Bob Billman at bob.billman@aecom.com (314/743-4108).

Sincerely,

AECOM, on behalf of Shell Oil Products US

Robert Billman, PG
Senior Project Manager

Robert E. Mooshegian, CHMM
Senior Program Manager

Enclosures: 2 copies

cc: Kevin Dyer, SOPUS
Eric Petersen, Phillips 66
Shannon Haney, Greensfelder, Hemker & Gale P.C.
Repositories – Village Hall, Roxana Public Library, website
Project File

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW14-ROX-070714	MC31918-1	07/07/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	MW14-ROX-070714	MC31918-1	07/07/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW14-ROX-070714	MC31918-1	07/07/2014	1,2-Dichloroethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	MW14-ROX-070714	MC31918-1	07/07/2014	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P66-ROX-070714	MC31918-3	07/07/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P66-ROX-070714	MC31918-3	07/07/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P66-ROX-070714	MC31918-3	07/07/2014	1,2-Dichloroethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	P66-ROX-070714	MC31918-3	07/07/2014	Methyl Tert Butyl Ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	MW13-ROX-070714	MC31918-4	07/07/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	MW13-ROX-070714	MC31918-4	07/07/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW13-ROX-070714	MC31918-4	07/07/2014	1,2-Dichloroethane	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	
SW846 8260C	MW13-ROX-070714	MC31918-4	07/07/2014	Methyl Tert Butyl Ether	9.1	9.1		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	T12-ROX-070814	MC31956-3	07/08/2014	Acetone	65.8	65.8		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	T12-ROX-070814	MC31956-3	07/08/2014	Benzene	2140	2100		ug/l		
SW846 8260C	T12-ROX-070814	MC31956-3	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P59-ROX-070814	MC31956-5	07/08/2014	Acetone	57.0	57.0		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	P59-ROX-070814	MC31956-5	07/08/2014	Benzene	12400	12200		ug/l		
SW846 8260C	P59-ROX-070814	MC31956-5	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-070814	MC31956-6	07/08/2014	Acetone	49.7	49.7		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	P57-ROX-070814	MC31956-6	07/08/2014	Benzene	384000	378000		ug/l		
SW846 8260C	P57-ROX-070814	MC31956-6	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P57-ROX-070814-DUP	MC31956-7	07/08/2014	Acetone	44.1	44.1		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	P57-ROX-070814-DUP	MC31956-7	07/08/2014	Benzene	377000	371000		ug/l		
SW846 8260C	P57-ROX-070814-DUP	MC31956-7	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P74-ROX-070814	MC31956-1	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P56-ROX-070814	MC31956-2	07/08/2014	Acetone	62.6	62.6		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	P56-ROX-070814	MC31956-2	07/08/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW1-ROX-070914	MC31999-1	07/09/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-070914	MC31999-1	07/09/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-070914	MC31999-1	07/09/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW1-ROX-070914	MC31999-1	07/09/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-070914	MC31999-2	07/09/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-070914	MC31999-2	07/09/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-070914	MC31999-2	07/09/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW12-ROX-070914	MC31999-2	07/09/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-070914	MC31999-3	07/09/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-070914	MC31999-3	07/09/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-070914	MC31999-3	07/09/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW11-ROX-070914	MC31999-3	07/09/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-070914	MC31999-4	07/09/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW10-ROX-070914	MC31999-4	07/09/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-070914	MC31999-4	07/09/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW10-ROX-070914	MC31999-4	07/09/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-070914	MC31999-5	07/09/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-070914	MC31999-5	07/09/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-070914	MC31999-5	07/09/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW9-ROX-070914	MC31999-5	07/09/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014	MC32041-1	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014	MC32041-1	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014	MC32041-1	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014	MC32041-1	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014-DUP	MC32041-2	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014-DUP	MC32041-2	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW6D-ROX-071014-DUP	MC32041-2	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6D-ROX-071014-DUP	MC32041-2	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-071014	MC32041-3	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-071014	MC32041-3	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-071014	MC32041-3	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6C-ROX-071014	MC32041-3	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-071014	MC32041-4	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-071014	MC32041-4	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-071014	MC32041-4	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6B-ROX-071014	MC32041-4	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-071014	MC32041-6	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-071014	MC32041-6	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW6A-ROX-071014	MC32041-6	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW6A-ROX-071014	MC32041-6	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-071014	MC32041-7	07/10/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-071014	MC32041-7	07/10/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-071014	MC32041-7	07/10/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW16-ROX-071014	MC32041-7	07/10/2014	2-Hexanone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P54-ROX-071114	MC32070-1	7/11/2014	1,2,3-Trichlorobenzene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW24-ROX-071114	MC32070-2	7/11/2014	1,2,3-Trichlorobenzene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW3-ROX-071114	MC32070-4	7/11/2014	1,2,3-Trichlorobenzene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	Acetone	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	2-Butanone (MEK)	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	Carbon disulfide	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	2-Chloroethyl vinyl ether	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	Naphthalene	10.4	10.4		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	J
SW846 8260C	ROST4C-ROX-071114	MC32070-5	7/11/2014	1,2,3-Trichlorobenzene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW22-ROX-071414	MC32120-4	07/14/2014	Benzene	1760	1740		ug/l		
SW846 8260C	MW4-ROX-071614	MC32168-1	07/16/2014	Benzene	1880	1860		ug/l		
SW846 8260C	MW4-ROX-071614	MC32168-1	07/16/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	MW8-ROX-071614	MC32168-2	07/16/2014	Benzene	280000	276000		ug/l		
SW846 8260C	MW7-ROX-071614	MC32168-3	07/16/2014	Benzene	1290000	1270000		ug/l		
SW846 8260C	MW7-ROX-071614-DUP	MC32168-4	07/16/2014	Benzene	1390000	1370000		ug/l		
SW846 8260C	P93D-ROX-071714	MC32216-1	07/17/2014	Benzene	0.64	0.63		ug/l		
SW846 8260C	P93D-ROX-071714	MC32216-1	07/17/2014	Methyl Tert Butyl Ether	1.1	1.1		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260C	P93D-ROX-071714	MC32216-1	07/17/2014	Naphthalene	ND	ND		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93C-ROX-071714	MC32216-2	07/17/2014	Benzene	1550	1520		ug/l		
SW846 8260C	P93C-ROX-071714	MC32216-2	07/17/2014	Methyl Tert Butyl Ether	6.1	6.1		ug/l	Ana: Continuing Calibration outside of acceptance criteria. Sample result may be biased high.	J

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	P93B-ROX-071714	MC32216-3	07/17/2014	Benzene	175000	172000		ug/l		
SW846 8260C	P93A-ROX-071814	MC32243-1	07/18/2014	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93A-ROX-071814	MC32243-1	07/18/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93A-ROX-071814	MC32243-1	07/18/2014	Trichlorofluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93A-ROX-071814-DUP	MC32243-2	07/18/2014	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93A-ROX-071814-DUP	MC32243-2	07/18/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P93A-ROX-071814-DUP	MC32243-2	07/18/2014	Trichlorofluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-071814	MC32243-3	07/18/2014	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-071814	MC32243-3	07/18/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P58-ROX-071814	MC32243-3	07/18/2014	Trichlorofluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260C	P114-ROX-071814	MC32243-4	07/18/2014	Acrolein	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P114-ROX-071814	MC32243-4	07/18/2014	Dichlorodifluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260C	P114-ROX-071814	MC32243-4	07/18/2014	Trichlorofluoromethane	ND	ND		ug/l	Ana: Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ

LABORATORY QUALIFIERS:

ND = Not detected.

AECOM QUALIFIERS:

J = The result is estimated.

UJ = Estimated nondetect.

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
Screening Values (mg/L)						6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-01	MW1-ROX-120511	12/5/2011	43.41 - 58.41	37.10	NE	<0.005 UJ	0.00097		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.005	0.0142		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-102612	10/26/2012		41.22	NE																				
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	0.0004 J		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.01 UJ	0.00066		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW1-ROX-070914	7/9/2014	48.80 - 58.80	42.09	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-02	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	0.0216		<0.005	<0.005	0.0106	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0121	<0.001	<0.002	<0.0005	<0.025	0.503
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.025	0.0161		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	0.777
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.025	0.0145		<0.025	<0.025	0.0068 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.008 J	<0.005	<0.01	<0.0025	<0.13	0.948
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005	0.01		<0.005	<0.005	0.0078	0.001 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.002	<0.0005	<0.025	0.952
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025 UJ	0.0142		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	0.0172 J	<0.025	<0.005	<0.01	<0.0025	<0.13	0.763
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01	0.0192		<0.01	0.0176 J	0.0077 J	0.002 J	<0.01	<0.002	<0.002	0.0083	<0.002	<0.004	<0.01	0.0094 J	<0.002	<0.004	<0.001	<0.05	0.676
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.05	0.0174		<0.025	0.0191 J	0.0085 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.0101 J	<0.005	<0.01	<0.0025	<0.13	0.91
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.01 UJ	0.006		<0.005 UJ	<0.005	0.0073	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0075	<0.001	<0.002	<0.0005		1.57
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.01	0.0139		0.0133	<0.005	0.0082	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0104	<0.001	<0.002	<0.0005	<0.025	0.942
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.01	0.0238		<0.005	0.0254	0.0096	0.0015 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0106	0.0043	<0.002	<0.0005	<0.025	0.426
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.01	0.0214		0.0136	0.0208	0.0077	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.001	<0.002	<0.0005	<0.025	0.478
	MW2-ROX-071414	7/14/2014	49.87 - 59.87	43.13	NE	<0.01	0.0102 J		<0.005	0.0194 J	0.0073 J	0.0013 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.008 J	<0.001	<0.002	<0.0005	<0.025	0.955
MW-03	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.005	0.00052		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.005	0.00091		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005 UJ	0.0089		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005 UJ	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005 UJ	0.008		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.01 UJ	0.0059		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.01	0.00057		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0025
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.01	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW3-ROX-071114	7/10/2014	34.67 - 44.67	29.05	NE	<0.01 UJ	0.00062		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-04	MW4-ROX-121511	12/15/2011	46.06 - 56.06	33.99	NE	<0.005	0.0381		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-011612	1/16/2012		36.00	NE	<0.005	0.115		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005	0.0941		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.063 U	0.0933		<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005	0.191		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00082 J
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005	0.199		<0.005	0.0014 J	0.0017 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00083 J
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01 UJ	0.354		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004 UJ	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	<0.002
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005	9.04 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00052 J
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	8.96 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00056 J
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	21.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.02	64.2		<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	<0.002
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.01	72.9		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00081 J
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.01	12.2		<0.005	<0.005	0.0016 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0015
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.1	1.7		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	<0.01
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.01	2.01		<0.005	0.00058 J	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	0.00048 J
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.01	0.553		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW4-ROX-071614	7/16/2014	46.06 - 56.06	40.18	NE	<0.01	1.86		<0.005	<0.005	<0.05	<0.05	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-05	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.005 UJ	0.0109		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005	0.0442		<0.005	<0.005	<0.005	0.0057	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	0.0532		<0.005	<0.005	0.0029 J	0.0073	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	0.0925		<0.005	<0.005	0.0015 J	0.007	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00099 J	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005 UJ	0.0628		<0.005	<0.005	<0.005	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005	0.0072		<0.005	<0.005	0.0016 J	0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	0.0018		<0.01	<0.005	0.0018 J	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.01	0.0075		<0.005	<0.005	<0.005	0.0085	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.01	0.0016		<0.005	<0.005	<0.005	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.01	0.002		<0.005	<0.005	0.002 J	0.0064	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-041014	4/10/2014		30.09	NE	0.021 J	0.0037		<0.005	<0.005	0.0017 J	0.0062	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW5-ROX-071414	7/14/2014	33.97 - 43.97	28.59	NE	<0.01	0.001		<0.005	<0.005	0.0011 J	0.0046 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-06A	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0059 UJ	0.0105 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.005 UJ	0.0137 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	0.00077		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.0016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.12 UJ	0.00073		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005	0.0276		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005 UJ	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	0.11 J	0.0011		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	0.116 J	0.001		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6A-ROX-071014	7/10/2014	34.83 - 44.83	30.75	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
MW-06B	MW6B-ROX-110311	11/3/2011	64.05 - 69.05	24.67	NE	<0.05	0.961		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02 UJ	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	<0.01
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005	0.0013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	0.00086		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0032 UJ	0.00045 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005 UJ	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005 UJ	0.00043 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.01 UJ	0.0009		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6B-ROX-071014	7/10/2014	64.05 - 69.05	30.81	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
MW-06C	MW6C-ROX-110311	11/3/2011	84.95 - 89.95	24.47	NE	<0.005	0.0017		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.003 UJ	0.00061		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.005 UJ	0.00035 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005 UJ	<0.0005 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005 UJ	0.00062		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.01 UJ	0.0021		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6C-ROX-071014	7/10/2014	84.95 - 89.95	30.60	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-06D	MW6D-ROX-110311	11/3/2011	104.72 - 109.72	24.31	NE	<0.005	0.013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005 UJ	0.00068		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005 UJ	0.00055		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005 UJ	0.00053 J		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005 UJ	0.00055		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.01 UJ	0.0064		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6D-ROX-071014	7/10/2014		31.47	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
MW-07	MW-7-ROX-110211	11/2/2011	42.92 - 52.92	35.95	NE	<5	774		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.166 U	1330 J		<0.005	0.0026 J	0.0021 J	0.003 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0727
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.146 U	1110		<0.005	0.0027 J	0.0022 J	0.0029 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J	<0.001	<0.002	<0.0005	<0.025	0.0718
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5	738		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1
	MW7-ROX-080712	8/7/2012		39.50	NE	0.199 J	591 J		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.0619
	MW7-ROX-103012	10/30/2012		41.23	NE	<10 UJ	833		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<2	<4	<1	<50	<2
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10 UJ	863		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<2	<4	<1	<50	<2
	MW7-ROX-011513	1/15/2013		42.21	NE	<20	1230		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<8	<2	<100	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	1320		<20	<20	<20	<20	<20	<4	<4	<8	<4	<8	<20	<20	<4	<8	<2	<100	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<20	475		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<20	499		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.01	1000 J		<0.005	<0.005	0.0023 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0016 J J	<0.001	<0.002	<0.001 UJ	<0.05	0.2 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<20	553		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW7-ROX-013014	1/30/2014		42.94	NE	<25	1490		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<50	1390		<25	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<10	<2.5	<130	<5
	MW7-ROX-071614	7/16/2014		42.05	NE	<0.01	1270		<0.005	0.0036 J J	0.0022 J J	0.0022 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.002	<0.0005	<0.025	0.208 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.01	1370		<0.005	0.0034 J J	0.0023 J J	0.0022 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0015 J J	<0.001	<0.002	<0.0005	<0.025	0.206 J
MW-08	MW-8-ROX-110211	11/2/2011	33.60 - 43.60	27.02	NE	<5	934		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005	386		<0.005	0.0043 J	0.003 J	0.002 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.001	<0.002	<0.0005	<0.025	0.285
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5	1070		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.393
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	1040		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.396
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.378 UJ	397 J		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.249
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.235 UJ	653 J		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.232
	MW8-ROX-103012	10/30/2012		32.32	NE	<5 UJ	523		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<1	<2	<0.5	<25	<1
	MW8-ROX-011513	1/15/2013		33.30	NE	<10	1120 J		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<50	969		<50	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<5	<10	<2.5	<130	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.008 U	532		<0.005	<0.005	0.0033 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.002	<0.001 UJ	<0.05	0.508
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.01	494		<0.005	<0.005	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.001 UJ	<0.05	0.442 J
	MW8-ROX-101613	10/16/2013		31.59	NE	<20	360		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<20	351		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW8-ROX-013014	1/30/2014		34.02	NE	<25	721		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<25	748		<13	<13	<13	<13	<13 UJ	<2.5	<2.5	<5	<2.5	<5	<13	<13	<2.5	<5	<1.3	<63 UJ	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<20	862		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<20	1060		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	MW8-ROX-071614	7/16/2014	33.60 - 43.60	33.01	NE	<0.01 UJ	276		<0.005 UJ	0.0069 J	0.0042 J J	0.0028 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0032 J J	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.266

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
MW-09	MW9-ROX-110111	11/1/2011	46.45 - 56.45	37.78	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005	0.0031		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-050312	5/3/2012		41.03	NE	<0.005	0.001		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005 UJ	0.00058		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.123 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.0005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.01 UJ	0.0044		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW9-ROX-070914	7/9/2014	46.45 - 56.45	44.35	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-10	MW10-ROX-110111	11/1/2011	44.43 - 54.43	37.72	NE	<0.005	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.005	0.0026		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.005	0.00079		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005 UJ	0.00058		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW10-ROX-102612	10/26/2012		43.08	NE																				
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	0.00095 J	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.101 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0074	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.025	0.003		<0.0051 U	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.001	<0.01	<0.005	<0.005	<0.005	<0.005	<0.001		<0.005
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	0.00067		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-011514	1/15/2014		44.42	NE	0.0174	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	0.0684 J	0.0018		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0032	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW10-ROX-070914	7/9/2014	44.43 - 54.43	44.35	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-11	MW-11-ROX-110211	11/2/2011	41.66 - 51.66	35.44	NE	<0.005	0.0019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005	0.0024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.005	0.00087		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005 UJ	0.00073		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005 UJ	<0.00065 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.01 UJ	0.0014		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW11-ROX-070914	7/9/2014	41.66 - 51.66	41.75	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-12	MW-12-ROX-110211	11/2/2011	41.92 - 51.92	35.70	NE	<0.005	0.0012		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005	0.0023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005	0.00066		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005 UJ	0.0013		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.35 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005 UJ	<0.00088 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW12-ROX-070914	7/9/2014	41.92 - 51.92	41.97	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-13	MW13-ROX-110311	11/3/2011	25.57 - 35.57	22.85	NE	<0.005	0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.005	0.0742 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.005	0.009		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.037 U	0.0069 J		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	<0.001 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.0048		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005	0.0067 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0319 UJ	0.0102 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.01	0.00058		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW13-ROX-070714	7/7/2014	25.57 - 35.57	28.49	NE	<0.01 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005	0.009		<0.005	0.0014 J	0.0026 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	0.0131		<0.005	0.0015 J	0.0027 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00065 J
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005 UJ	0.00093		<0.005	<0.005	0.0028 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	0.0017		<0.005	0.0014 J	0.0032 J	0.0011 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.01	0.0125 J		<0.01	0.0021 J	0.0048 J	0.0016 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.01	0.00064		<0.005	0.00066 J	0.002 J	0.0013 J	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.01	<0.0005		<0.005	<0.005	0.0013 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.01	<0.0005		<0.005	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.01	0.0017		<0.005	<0.005	<0.005	0.00046 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW14-ROX-070714	7/7/2014	33.42 - 43.42	32.82	NE	<0.01 UJ	<0.0005		<0.005	<0.005	0.00042 J	0.00047 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	0.00057 J		0.0029 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005 UJ	<0.00058 U		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.01	<0.00062 U		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.01	0.00034 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW16-ROX-071014	7/10/2014	37.06 - 47.06	43.15	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	2.12		<0.295 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3 UJ	3.45
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	2.09		<0.31 U	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3 UJ	3.19
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005 UJ	1.5		<0.005	0.0413 J	0.0142 J	0.0171 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0122 J	<0.001	<0.002	<0.0005	<0.025	2.44
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.01 UJ	1.19		<0.005 UJ	<0.005	0.0116	0.0142	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.002	<0.0005		2.07
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.01 UJ	1.11		<0.005 UJ	<0.005	0.0116	0.0148	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0087	<0.001	<0.002	<0.0005		1.79
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.01	1.33		<0.005	0.0286	0.012	0.0167	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.01	<0.001	<0.002	<0.0005	<0.025	3.79
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.01	1.39		<0.005	0.0276	0.0118	0.0163	<0.005	<0.001	<0.001	0.0018 J	<0.001	<0.002	<0.005	0.0095	<0.001	<0.002	<0.0005	<0.025	3.97
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.01	1.47		0.0804	0.0357	0.0128	0.0147	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	0.0028	<0.002	<0.0005	<0.025 UJ	3.17
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.01	1.58		0.0815	0.0355	0.0127	0.0146	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.002	<0.0005	<0.025 UJ	3.4
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0911 J	1.7		0.0334	0.0331	0.0128	0.0152	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0094	<0.001	<0.002	<0.0005	<0.025	3.32
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.01 UJ	1.56		0.0287	0.0319	0.0123	0.0144	<0.005	<0.001	0.00046 J	<0.002	<0.001	<0.002	<0.005	0.0089	<0.001	<0.002	<0.0005	<0.025	3.02
	MW22-ROX-071414	7/14/2014	37.88 - 47.88	41.85	NE	<0.01	1.74		0.0185 J	0.0349 J	0.013 J	0.0137 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0085 J	<0.001	<0.002	<0.0005	<0.025	1.93
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	0.0029		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0012
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0157 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	MW24-ROX-071114	7/10/2014	38.89 - 48.89	42.97	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-54	P54-ROX-110311	11/3/2011	38.00 - 63.00	35.49	NE	<0.005	0.013		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005	0.0025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005	0.00082		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.01	0.172		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.01 UJ	0.0028		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-011514	1/15/2014		42.20	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.01	0.00081		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P54-ROX-071114	7/10/2014	38.00 - 63.00	41.71	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	0.152		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0143
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005	<0.197 U		<0.005	<0.005	0.0036 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0656
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005	<0.202 U		<0.005	<0.005	0.0038 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0683
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005	0.388		<0.005	0.0099	0.0093	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.41
	P55-ROX-012113	1/21/2013	40.43 - 50.53	43.60	NE	<0.25	0.571		<0.25	0.0533	0.011 J	<0.05	<0.05	<0.05	<0.05	<0.1	<0.01	<0.1	<0.05	<0.05	<0.05	<0.05	<0.01		0.316
	P55-ROX-012113	1/21/2013		43.60	NE	<0.005	0.538		<0.253 U	0.0203	0.0143	0.0013 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0055	<0.001	<0.002	<0.0005	<0.025	0.366
	P55-ROX-041513	4/15/2013		43.63	NE	<0.02 UJ	0.434		<0.01	0.0052 J	0.0196	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	0.35
	P55-ROX-071613	7/16/2013		40.06	NE	<0.01	0.573	0.88	<0.005	0.0256	0.0155	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0065	<0.001	<0.002	<0.0005	<0.025	0.495
	P55-ROX-101013	10/10/2013		41.67	NE	<0.01	0.757		<0.005	0.0239	0.0147	0.0013 J	<0.005	<0.001	<0.001	0.005	<0.001	0.0017 J J	<0.005	0.0066	<0.001	<0.002	<0.0005	<0.025	0.602
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005	0.144		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.457 J
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005	0.335		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.227
	P56-ROX-050812	5/8/2012		43.09	NE	<0.23 U	0.144		<0.005	0.0086	0.0051	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0069	<0.005	0.0044 J	<0.001	<0.002	<0.0005	<0.025	1.14
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025 UJ	0.164		<0.025 UJ	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025		0.101
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005 UJ	0.176		<0.005	<0.005	0.005	0.0021 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0041 J	<0.001	<0.002	<0.0005	<0.025	1.29
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025	0.191		<0.025	0.0031 J	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	0.0088
	P56-ROX-041213	4/12/2013		46.12	NE	<0.02 U	0.131		<0.01	<0.01	0.0142	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004	<0.01	<0.01	<0.002	<0.004	<0.001	<0.05	0.691
	P56-ROX-071513	7/15/2013		43.25	NE	<0.156 U	0.131		<0.005	0.0141	0.0072	0.0038 J	<0.005	<0.001	<0.001	0.0047	<0.001	<0.002	<0.005	0.0061	<0.001	<0.002	<0.0005	<0.025	2
	P56-ROX-101013	10/10/2013		44.48	NE	<0.01	0.14		<0.005	0.0088	0.005	0.0018 J	<0.005	<0.001	<0.001	0.0038	<0.001	<0.002	<0.005	0.0046 J	<0.001	<0.002	0.001	<0.025	1.58
	P56-ROX-012214	1/22/2014		46.35	NE	<0.01	0.0895		<0.005	0.0033 J	0.0023 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.002	<0.0005	<0.025	0.305
	P56-ROX-041414	4/14/2014		47.32	NE	<0.01	0.128		<0.005	0.0069	0.0046 J	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J	<0.001	<0.002	<0.0005	<0.025	0.608
	P56-ROX-070814	7/8/2014	40.82 - 65.82	45.97	NE	0.0626 J	0.127 J		0.0132 J	0.0159 J	0.0073 J	0.0034 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0058 J	0.0018 J	<0.002	<0.0005	<0.025 UJ	1.71 J
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.5	123		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.1
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5 UJ	126		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	0.719
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5	147		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.07
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25 UJ	99.4 J		<0.25 UJ	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025		0.795
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005 UJ	106 J		<0.005 UJ	<0.005	0.0107	0.0124	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0109	<0.001	<0.002	<0.0005		0.759 E
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	142		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.09
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5	114		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	1.43	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.1
	P57-ROX-041113	4/11/2013		46.29	NE	<5	141		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	1.19
	P57-ROX-071613	7/16/2013		43.38	NE	<0.01	254		<0.005	0.0143 J	0.0131 J	0.0103 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0119 J	<0.001	<0.002	<0.0005	<0.025	1.59
	P57-ROX-101413	10/14/2013		44.38	NE	<0.01	288		<0.005	0.0129	0.0116	0.0163	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.002	<0.0005	<0.025	1.1
	P57-ROX-020314	2/3/2014		46.57	NE	<10	261		<5	<5	<5	<5	<5 UJ	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	0.697 J
	P57-ROX-041514	4/15/2014		46.70	NE	<0.01 UJ	384		0.0055 J	0.0151	0.0131	0.0147	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0114	<0.001	<0.002	<0.0005	<0.025	1.08
	P57-ROX-070814	7/8/2014	40.46 - 65.46	45.95	NE	0.0497 J	378		<0.005 UJ	0.011 J	0.0091 J	0.0066 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0081 J	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	1.12
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.0441 J	371		0.0086 J	0.0114 J	0.0097 J	0.007 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0085 J	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	1.21

TABLE 3
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						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005	430		<0.005	<0.005	0.0148	0.0344	<0.005	<0.001	0.0014	<0.002	<0.001	<0.002	<0.005	0.0113	<0.001	<0.002	<0.0005	<0.025	<5
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005	487		<0.005	0.027	0.0215	0.056 J	<0.005	<0.001	0.0013	<0.002	<0.001	<0.002	<0.005	0.0149	<0.001	<0.002	<0.0005	<0.025	0.97 J
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005	474		<0.005	0.0235 J	0.0168 J	0.0387 J	<0.005	<0.001	0.0014 J	<0.002	<0.001	<0.002	<0.005	0.0123 J	<0.001	<0.002	<0.0005	<0.025	1.03
	P58-ROX-050712	5/7/2012		40.90	NE	<0.5	477		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.03
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5	440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1 UJ	313 J		<0.1 UJ	<0.1	<0.1	0.0317 J	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01		0.889
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05	308 J		<0.05	<0.05	0.0176 J	0.0339 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	0.0118 J	<0.01	<0.02	<0.005	<0.25	0.931
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5 UJ	415		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.844
	P58-ROX-121012	12/10/2012		43.09	NE																			
	P58-ROX-012213	1/22/2013		44.21	NE	<5	552		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	1.27
	P58-ROX-041113	4/11/2013		44.40	NE	<20	532		<20	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	1.28 J
	P58-ROX-071613	7/16/2013		41.49	NE	<0.01	398		<0.005	0.0239	0.0215	0.0532	<0.005	<0.001	0.0017	<0.002	<0.001	<0.002	<0.005	0.0152	<0.001	<0.002	<0.0005	<0.025	1.07
	P58-ROX-101413	10/14/2013		42.19	NE	<0.01	647		<0.005	0.023	0.0235	0.0483	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0143	<0.001	<0.002	<0.0005	<0.025	1.53
	P58-ROX-020314	2/3/2014		44.66	NE	<10	496		<5	<5	<5	<5	<5 UJ	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	0.767 J
	P58-ROX-041514	4/15/2014		45.66	NE	<0.01 UJ	782		0.0056 J	0.0216 J	0.0185 J	0.0396 J	<0.005	<0.001	0.0013 J	<0.002	<0.001	<0.002	<0.005	0.0116 J	<0.001	<0.002	<0.0005	<0.025	0.891 J
	P58-ROX-071814	7/18/2014	40.21 - 65.21	43.80	NE	<20	406		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<25 UJ	<2
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.25	6.01		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.49
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005	6.61		<0.185 U	<0.005 UJ	0.0054	0.0031 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0036 J	<0.001	<0.002	<0.0005	<0.025	1.28
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005	7.04		<0.185 U	0.0264 J	0.0055	0.0372 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0038 J	<0.001	<0.002	<0.0005	<0.025	1.4
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25	7.86		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.93
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1 UJ	11		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01		1.74
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5 UJ	10.3		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.87
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.5 UJ	10.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	1.94
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25	12.1		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	1.9
	P59-ROX-041213	4/12/2013		46.95	NE	<0.5 UJ	15		<0.25	<0.25	0.289	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	2.85
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.5 UJ	13.4		<0.25	<0.25	0.288	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	2.57
	P59-ROX-071613	7/16/2013		44.13	NE	<0.01	10.2		<0.005	0.0213 J	0.0068 J	0.0027 J J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.002	<0.0005	<0.025	2.4
	P59-ROX-101013	10/10/2013		45.50	NE	<0.01	14.7		<0.005	0.0224	<0.005	0.0024 J	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	0.0051	<0.001	<0.002	<0.0005	<0.025	3.19
	P59-ROX-020314	2/3/2014		47.35	NE	<0.2	15.9		<0.1	0.0165 J	<0.1	<0.1	<0.1 UJ	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	1.86
	P59-ROX-041514	4/15/2014		48.60	NE	<0.01 UJ	14.8		0.0253 J	0.0181	0.0035 J	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0029 J	0.0023	<0.002	<0.0005	<0.025	1.69
	P59-ROX-070814	7/8/2014	47.91 - 72.91	47.69	NE	0.057 J	12.2		0.0169 J	0.0251 J	0.0073 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0046 J J	<0.001	<0.002	<0.0005	<0.025 UJ	1.92
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	0.0171		<0.005	0.0153	0.0185	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0016
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	0.0193		<0.005	0.0139	0.019	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0015
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	0.0994		<0.005	0.0118	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	0.223		<0.005	0.0145	0.02	0.0054	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0012
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005	0.0896		<0.005	0.0129	0.0227	0.0087	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0014
	P66-ROX-041113	4/11/2013		36.03	NE	<0.01	0.0444		<0.01	0.0199	0.0249	0.0104	<0.005	<0.001	<0.001	0.00065 J	<0.001	<0.002	<0.005	0.0093	<0.001	<0.002	<0.0005	<0.025	0.0036
	P66-ROX-071213	7/12/2013		33.20	NE	<0.01	0.187		<0.005	0.0146	0.0221	0.006	<0.005	<0.001 UJ	0.00059 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0022
	P66-ROX-101013	10/10/2013		33.66	NE	0.0095 J	0.0646		<0.005	0.0141	0.0186	0.0067	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0045
	P66-ROX-110713	11/7/2013		33.66	NE	<0.01	0.03		<0.005	0.0088	0.0102	0.0071	<0.005	<0.001	0.0007 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0016
	P66-ROX-012914	1/29/2014		36.39	NE	<0.01	0.008		<0.005	0.016	0.0205	0.0053	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013
	P66-ROX-041114	4/11/2014		37.10	NE	<0.01	0.0052		<0.005	0.0129	0.0168	0.0041 J	<0.005	<0.001	0.00052 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	0.0014
	P66-ROX-070714	7/7/2014	34.72 - 59.72	35.60	NE	<0.01 UJ	0.0429		<0.005	0.0112	0.0147	0.0023 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0016
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	5.02		<0.005	0.0242	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.229
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005	<0.205 U		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0095
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005	0.336		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0081
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05 UJ	2.46		<0.05 UJ	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005		0.0782
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1	3.5		<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.0493
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1	4.99		<0.1	0.0143 J	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.02	<0.04	<0.01	<0.5	0.0997
	P74-ROX-041113	4/11/2013		42.83	NE	<0.01	0.144		<0.01	0.0026 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0086
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0046 U	0.117		<0.005	0.0088	0.002 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0017 J	<0.001	<0.002	<0.0005	<0.025	0.0306
	P74-ROX-101413	10/14/2013		41.72	NE	<0.01	1.55		<0.005	0.0158	0.003 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.0653
	P74-ROX-012414	1/24/2014		43.35	NE	<0.01	4.45		<0.005	0.0252	0.0031 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.001	<0.002	<0.0005	<0.025	0.115
	P74-ROX-041514	4/15/2014		44.74	NE	0.0398 J	0.0349		<0.005 UJ	0.0013 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0043
	P74-ROX-070814	7/8/2014	44.43 - 69.43	43.02	NE	<0.01 UJ	0.309		<0.005	0.0138	0.0014 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.002	<0.0005	<0.025 UJ	0.0374

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-93A	P93A-ROX-102611	10/26/2011	48.17 - 63.17	39.43	NE	<0.005 UJ	543		<0.005	<0.005	0.006	0.015	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0081	<0.001	<0.002	<0.0005	<0.025	0.304
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005	164 J		<0.005	0.0037 J J	0.0045 J	0.0122	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0023 J	<0.001	<0.002	<0.0005	<0.025	0.185
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0441 U	200		<0.005 UJ	0.005 J	0.0069 J	0.0179 J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0035 J J	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.38 J
	P93A-ROX-080912	8/9/2012		43.66	NE	<1.63 U	87		<0.005	0.0016 J	0.0048 J	0.0128	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0022 J	<0.001	<0.002	<0.0005	<0.025	0.225
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5 UJ	148		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.265
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5 UJ	156		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.262
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5	101		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13 UJ	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	98.5		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13 UJ	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<5	120		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	0.255 J
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<5	120		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0053 U	89.1		<0.005	<0.005	0.0056	0.0916	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.001 UJ	<0.05	0.162
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.01 UJ	197		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J	<0.001	<0.002	<0.0005	<0.025	0.264
	P93A-ROX-012914	1/29/2014		46.53	NE	<5	136		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<5	132		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93A-ROX-071814	7/18/2014	48.17 - 63.17	45.70	NE	<10	170		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<13 UJ	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<10	174		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<13 UJ	<1
P-93B	P93B-ROX-102611	10/26/2011	74.60 - 76.60	39.48	NE	<0.005 UJ	590		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0533
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005	337		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	0.0831 J	0.0274 J
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0747 U	304		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0379 J
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0672 UJ	317		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0741
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5 UJ	162 J		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	<0.1
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5 UJ	413 J		<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<0.1	<0.2	<0.05	<2.5	0.0695 J
	P93B-ROX-012313	1/23/2013		45.89	NE	<5	415		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25 UJ	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<5	618		<5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.01	296		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0652
	P93B-ROX-101613	10/16/2013		44.43	NE	<20	187		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<20	180		<10	<10	<10	<10	<10	<2	<2	<4	<2	<4	<10	<10	<2	<4	<1	<50	<2
	P93B-ROX-012814	1/28/2014		46.58	NE	<10	242		<5	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<10 UJ	293		<5 UJ	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<1	<2	<0.5	<25	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<5	134		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<5	126		<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<0.5	<1	<0.25	<13	<0.5
	P93B-ROX-071714	7/17/2014	74.60 - 76.60	45.75	NE	<0.01 UJ	172		<0.005 UJ	<0.005 UJ	<0.005 UJ	0.00042 J J	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.002 UJ	<0.0005 UJ	<0.025 UJ	0.0236 J
P-93C	P93C-ROX-102611	10/26/2011	94.26 - 96.26	39.36	NE	<0.005 UJ	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.005	0.0057		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0056 UJ	0.00084		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0056 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.01	101		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.001 UJ	<0.05	0.0041
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.5	19.1		<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<0.05	<0.1	<0.025	<1.3	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.01	1.4		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.01 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93C-ROX-071714	7/17/2014	94.26 - 96.26	45.61	NE	<0.01	1.52		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
Screening Values (mg/L)						6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																		
P-93D	P93D-ROX-102711	10/27/2011	125.75 - 127.75	39.59	NE	<0.005	0.00097		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005	0.0513		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.005	0.0056		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005 UJ	0.0134		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005	0.049		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005	0.106		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00069 J
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.01	<0.0005		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.01	0.0014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.01	0.0012		<0.005	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	0.00062 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	0.0044	<0.0005	<0.025 UJ	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.01	0.0022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.00069 J	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	0.0164	<0.0005	<0.025	<0.001
	P93D-ROX-071714	7/17/2014		45.78	NE	<0.01	0.00063		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.005	<0.001		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005	0.0011 J		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0756 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0144 UJ	<0.0005		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0059 UJ	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.251 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.245 U	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	0.0047 J	0.00074		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-012814	1/28/2014		32.11	NE	0.142 J	0.0013		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	P114-ROX-071814	7/18/2014	32.67 - 52.67	30.87	NE	<0.01	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025 UJ	<0.001
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.61 U	0.0074		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0167
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	0.0041		<0.005	<0.005	<0.005	0.00072 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0047
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	0.0052		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0018
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	0.0051 J		<0.005	0.0028 J	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0011 J	<0.001	<0.002	<0.0005	<0.025 UJ	0.0296
	ROST3MW-ROX-040513	4/5/2013				<0.005 UJ	0.0605		<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0012 J	<0.001	<0.002	<0.0005	<0.025	0.0136
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.01 UJ	0.0125		<0.005 UJ	<0.005	0.0014 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.001	<0.002	<0.0005		0.218
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.01	0.0033		<0.0164	0.00073 J	<0.005	<0.005	<0.005	<0.001	<0.001	0.0034	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0182
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.01	0.004		<0.005	0.0012 J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.008
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.01	0.0075		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0055
	ROST3MW-ROX-071414	7/14/2014	37.81 - 47.81	41.88	NE	<0.01	0.0058		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.008
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	<0.001
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	0.0849		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.177
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005 UJ	0.0033		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0014
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005	<0.0005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0013
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.01	0.0153 J		<0.01	<0.005	<0.005	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002 UJ	<0.0005 UJ	<0.025	0.0028 J
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.01 UJ	0.0497		<0.005 UJ	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005		0.0651
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.01	0.00066		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0064
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.01	0.0015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0039
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.01	0.0019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.00059 J
	ROST4C-ROX-071114	7/10/2014	34.95 - 44.95	42.22	NE	<0.01 UJ	0.0751		<0.005 UJ	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.0594

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Acetone	Benzene	Butane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,1-Dichloroethane	1,2-Dichloropropane	trans-1,3-Dichloropropene	1,4-Dioxane	Ethylbenzene
					Screening Values (mg/L)	6.3 [1]	0.005 [1]		4.2 [1]	0.35 [3]			0.7 [1]	0.005 [1]	0.1 [1]		0.07 [1]				1.4 [1]	0.005 [2]	0.001 [2]	0.0077 [1]	0.7 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.05	1.09		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	0.648
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005	1.51		<0.005	0.0062	0.0022 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.001	<0.002	<0.0005	<0.025	0.285
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025	1.48		<0.025	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	1.88
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05 UJ	1.64		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005		0.573
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05	1.71		<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.73
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025	2.03 J		<0.0795 U	0.0056 J	0.0036 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13 UJ	0.426
	T12-ROX-041513	4/15/2013		44.99	NE	<0.1 UJ	1.61		<0.05	<0.05	0.0595	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.01	<0.02	<0.005	<0.25	1.03
	T12-ROX-071613	7/16/2013		42.33	NE	<0.01	1.65		<0.005	0.0069 J	0.003 J J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0025 J J	<0.001	<0.002	<0.0005	<0.025	0.45
	T12-ROX-101513	10/15/2013		43.73	NE	0.0803	2.02		0.0246 J	0.0098 J	0.0038 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.005	<0.01	<0.0025	<0.13	1.82
	T12-ROX-012414	1/24/2014		45.26	NE	<0.01	2.48		<0.005	0.0083	0.0029 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.001	<0.002	<0.0005	<0.025	0.518
	T12-ROX-041514	4/15/2014		46.72	NE	<0.01 UJ	2.07		0.017 J	0.0062	0.0024 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0018 J	<0.001	<0.002	<0.0005	<0.025	0.376
	T12-ROX-070814	7/8/2014	46.72 - 72.72	45.13	NE	0.0658 J	2.1		0.0094	0.0096	0.0039 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	0.0022	<0.002	<0.0005	<0.025 UJ	0.614

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-01	MW1-ROX-120511	12/5/2011	43.41 - 58.41	37.10	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0027	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0032	0.000079 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0031	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022	0.0001 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-102612	10/26/2012		41.22	NE																					
	MW1-ROX-121712	12/17/2012		41.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0015	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0012	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0049	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0013	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0018	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-070914	7/9/2014	48.80 - 58.80	42.09	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0035	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-02	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	<0.005		<0.005		0.128	<0.005	<0.001	0.0777	0.146	0.0328	<0.005	<0.005	<0.001		0.407	0.212	<0.005	0.747	0.0574	0.804
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.025	<0.025		<0.025		0.0832	<0.025	<0.005	0.0859	0.0993	0.0375	<0.025	<0.025	<0.005		0.388	0.162	<0.025	0.857	0.056	0.913
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.025	<0.025		<0.025		0.0886	<0.025	<0.005	0.0497	0.119	0.0445	<0.025	<0.025	<0.005		0.413	0.154	<0.025	1.14	0.0797	1.22
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.005	<0.005		<0.005		0.0818	<0.005	<0.001	0.0554	0.116	0.0374	<0.005	<0.005	<0.001		0.338	0.135	<0.005	1.27	0.0906	1.34
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.025	<0.025		<0.025		0.0764	<0.025	0.0115	0.0821	0.104	0.0216	<0.025	<0.025	<0.005		0.299	0.129	<0.025	0.878	0.052	0.93
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.01	<0.01		<0.01		0.0879	<0.01	<0.002	0.0768	0.121	0.0093	<0.01	<0.01	<0.002		0.219	0.105	<0.01	0.685	0.0287	0.713
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.025	<0.025		<0.025		0.085	<0.025	<0.005	0.0578	0.11	0.0073	<0.025	<0.025	<0.005		0.338	0.155	<0.025	1.01	0.0454	1.05
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.005	<0.005		<0.005 UJ		0.0931	<0.005	0.0062	0.114	0.127	0.11	<0.005	<0.005	<0.001		0.522	0.175	<0.005 UJ	1.88	0.174	1.88
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.005	<0.005		0.0079		0.0983	<0.005	0.0032	0.0939	0.132	0.0164	<0.005	<0.005	<0.001		0.368	0.174	0.0768	0.912	0.0519	0.912
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.005	<0.005		<0.005		0.102	<0.005	<0.001	0.0663	0.133	0.0099	<0.005	<0.005	<0.001		0.264	0.156	<0.005	0.486	0.0304	0.516
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.005	<0.005		<0.005		0.0816	<0.005	<0.001	0.0474	0.106	0.0072	<0.005	<0.005	<0.001		0.181	0.121	<0.005	0.444	0.0275	0.472
	MW2-ROX-071414	7/14/2014	49.87 - 59.87	43.13	NE	<0.005	<0.005		<0.005		0.0966 J	<0.005	<0.001	0.0792 J	0.112 J	0.0113 J	<0.005	<0.005	<0.001		0.341 J	0.15 J	<0.005	0.764	0.0845	0.804
MW-03	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0014	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0039	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.007	<0.001	<0.001	<0.001
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.005	<0.005		<0.005 UJ		0.0049 J	<0.005	0.0035	<0.005	0.0055	0.0013	<0.005	<0.005	<0.001		0.0013 J	<0.005	<0.005 UJ	0.0028	<0.001	0.0028
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00075 J	<0.005	0.0021 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.0197	0.0011	<0.001	0.0011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW3-ROX-071114	7/10/2014	34.67 - 44.67	29.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-04	MW4-ROX-121511	12/15/2011	42.63 - 57.63	33.99	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0073 J	0.00023	<0.005	0.0092	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0069	0.001	0.0079
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	0.0017 J	<0.005		<0.005		0.0061	<0.005	<0.001	<0.0001	0.0061	0.0283	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0148	0.0025	0.0173
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005	<0.005		<0.005		0.0038 J	<0.005	0.0174	<0.0001	<0.005	0.0255	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.016	0.003	0.0189
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.005	<0.005		<0.005		0.0036 J	<0.005	0.0162	<0.0001	0.0043 J	0.0252	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0151	0.0031	0.0182
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005	<0.005 UJ		<0.005		0.0061	<0.005	0.015	<0.0001	0.0071	0.0418	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0221	0.0042	0.0262
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.005	<0.005 UJ		<0.005		0.0063	<0.005	0.0154	<0.0001	0.0072	0.0427	<0.005	<0.005	<0.001		0.00068 J	0.0057	<0.005	0.0214	0.0043	0.0257
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.01	<0.01		<0.01		0.0029 J	<0.01	0.0324	<0.01	0.0033 J	0.0175	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0114	<0.002	0.0114
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.005	<0.005		<0.005		0.0012 J	<0.005	0.0654	<0.005	0.0026 J	0.0075	<0.005	<0.005	<0.001		0.0019 J	0.0024 J	<0.005	0.0056	<0.001	0.0056
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.005	<0.005		<0.005		0.0014 J	<0.005	0.0681	<0.005	0.003 J	0.0083	<0.005	<0.005	<0.001		0.0019 J	0.0026 J	<0.005	0.006	<0.001	0.006
	MW4-ROX-030413	3/4/2013		40.20	NE	<0.5	<0.5		<0.5		<0.5	<0.5	0.112	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.01	<0.01		<0.01		<0.01	<0.01	0.112	<0.01	<0.01	0.0057	<0.01	<0.01	<0.002		<0.01	<0.01	<0.01	0.0052	<0.002	0.0062
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.125	<0.005	0.004 J	0.0076	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0073	0.0011	0.0084
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.005	<0.005		0.0041 J		0.0067	<0.005	0.0559 J	<0.005	0.008	0.0381	<0.005	<0.005	0.00085 J		0.0012 J	<0.005	0.0392 J	0.0302	0.0052	0.0353
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.05 UJ	<0.05		<0.05		<0.05	<0.05	0.0333 J	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01		<0.05	<0.05	<0.05 UJ	<0.01	<0.01	0.0058 J
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.005	<0.005		<0.005		0.0021 J	<0.005	<0.001	<0.005	0.0026 J	0.0037	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0132	0.0049	0.0181
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.005	<0.005		<0.005		0.00059 J	<0.005	<0.001	<0.005	0.00081 J	0.00099 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0027	0.00039 J	0.0031
	MW4-ROX-071614	7/16/2014	46.06 - 56.06	40.18	NE	<0.005	<0.005		<0.005		<0.05	<0.005	<0.001	<0.05 UJ	<0.05	0.006 J	<0.005	<0.005	<0.001		<0.05	<0.05	<0.005	<0.01	<0.01	0.0055 J

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-05	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0069	<0.00014 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0187	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.00081 U
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	<0.005		<0.005		0.001 J	<0.005	0.022	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	<0.005 UJ		<0.005		0.0066	<0.005	0.013	0.00032	0.0018 J	0.0032	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.008	0.0017	0.0097
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.005	<0.005		<0.005		0.002 J	<0.005	0.0219	<0.005	<0.005	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0018	<0.001	0.0018
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.005	<0.005		<0.005		0.00086 J	<0.005	0.0295	<0.005	<0.005	0.0008 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.005	<0.005		<0.005		0.00085 J	<0.005	0.0427	<0.005	<0.005	0.002	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.001	<0.001	0.0014
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005		<0.005		0.0268	<0.005	0.0121	<0.005	0.0132	0.0029	<0.005	<0.005	0.0018		<0.005	<0.005	<0.005 UJ	0.0079	0.0018	0.0097
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.005	<0.005		<0.005		0.0045 J	<0.005	0.0221	<0.005	<0.005	0.002	<0.005	<0.005	<0.001		<0.005	<0.005	0.0129	0.0044	0.00097 J	0.0054
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.005	<0.005		<0.005		0.00097 J	<0.005	0.0282	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0081	0.0045	0.0127
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0344	0.001 J	<0.005	0.0013	<0.005	<0.005	<0.001		0.00052 J	<0.005	<0.005	0.0013	0.00095 J	0.0023
	MW5-ROX-071414	7/14/2014	33.97 - 43.97	28.59	NE	<0.005	<0.005		<0.005		0.00049 J	<0.005	<0.001	<0.005	<0.005	0.0016	<0.005	<0.005	<0.001		0.00033 J	<0.005	<0.005	0.002	0.00073 J	0.0027
MW-06A	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0169	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0181	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0185	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0019	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0027	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0025	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0131	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0132	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0108	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0103	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00086 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-071014	7/10/2014	34.83 - 44.83	30.75	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0148	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06B	MW6B-ROX-110311	11/3/2011	64.05 - 69.05	24.67	NE	<0.05	<0.05		<0.05		<0.05	<0.05	0.036 J	<0.0001	<0.05	<0.01	<0.05	<0.05	<0.01		<0.05	<0.05	<0.05	<0.01	<0.01	<0.01
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0049	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0115	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0122	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0091	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0166	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0132	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0113	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0069	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0047	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-071014	7/10/2014	64.05 - 69.05	30.81	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0054	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-06C	MW6C-ROX-110311	11/3/2011	84.95 - 89.95	24.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0039 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0012 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.00075 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00068 J	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-071014	7/10/2014	84.95 - 89.95	30.60	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)		0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06D	MW6D-ROX-110311	11/3/2011	104.72 - 109.72	24.31	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00016 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00061 J	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00094 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014	7/10/2014	104.72 - 109.72	31.47	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-07	MW-7-ROX-110211	11/2/2011	42.92 - 52.92	35.95	NE	<5	<5		<5		<5	<5	<1	0.0113	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.005	<0.005		<0.005		0.0101	<0.005	0.0022	0.0134	0.0135	0.158	<0.005	<0.005	<0.001		0.148	0.0341	<0.005	0.137	0.0527	0.19
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.005	<0.005		<0.005		0.01	<0.005	0.0024	0.0138	0.0138	0.156	<0.005	<0.005	<0.001		0.146	0.0332	<0.005	0.134	0.051	0.184
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	0.0158	<0.5	0.101	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.05	<0.05		<0.05		<0.05	<0.05	<0.01	0.0089	0.0102 J	0.0629	<0.05	<0.05	<0.01		0.1	0.021 J	<0.05	0.12	0.0486	0.169
	MW7-ROX-103012	10/30/2012		41.23	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-011513	1/15/2013		42.21	NE	<20	<20		<20		<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<20	<20		<20		<20	<20	<4	<20	<20	<4	<20	<20	<4		<20	<20	<20	<4	<4	<4
	MW7-ROX-041013	4/10/2013		42.70	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.005	<0.005		<0.005		0.0096 J	<0.005	0.0031 J	0.0185 J	0.0173 J	0.289 J	<0.005	<0.005	<0.001		0.117 J	0.0264 J	0.0094 J	0.455 J	0.183 J	0.639 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW7-ROX-013014	1/30/2014		42.94	NE	<13	<13		<13		<13	<13	<2.5	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW7-ROX-041614	4/16/2014		43.79	NE	<25	<25		<25		<25	<25	<5	<25	<25	<5	<25	<25	<5		<25	<25	<25	<5	<5	<5
	MW7-ROX-071614	7/16/2014	42.92 - 52.92	42.05	NE	<0.005	<0.005		<0.005		0.0127 J	<0.005	<0.001	0.0165 J	0.0197 J	0.224 J	<0.005	<0.005	<0.001		0.143 J	0.0324 J	<0.005	0.48 J	0.187 J	0.667 J
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.005	<0.005		<0.005		0.0131 J	<0.005	<0.001	0.0141 J	0.0194 J	0.222 J	<0.005	<0.005	<0.001		0.142 J	0.0318 J	<0.005	0.465 J	0.181 J	0.647 J
MW-08	MW-8-ROX-110211	11/2/2011	33.60 - 43.60	27.02	NE	<5	<5		<5		<5	<5	4.94 J	0.0282	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005	<0.005		<0.005		0.0162	<0.005	1.41 J	0.0239	0.0377	<2	<0.005	<0.005	<0.001		0.163	0.061	<0.005	0.574	0.219	0.794
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5	<0.5		<0.5		<0.5	<0.5	4.15	0.0186	<0.5	1.55	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.978	0.37	1.35
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	<0.5		<0.5		<0.5	<0.5	4.07	0.0188	<0.5	1.52	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.939	0.381	1.32
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.1	<0.1		<0.1		<0.1	<0.1	0.878	0.0164	0.0191 J	0.781	<0.1	<0.1	<0.02		0.104	0.0299 J	<0.1	0.623	0.246	0.868
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.05	<0.05		<0.05		<0.05	<0.05	0.885	0.0164	0.0176 J	0.729	<0.05	<0.05	<0.01		0.0921	0.0265 J	<0.05	0.598	0.235	0.833
	MW8-ROX-103012	10/30/2012		32.32	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	MW8-ROX-011513	1/15/2013		33.30	NE	<10	<10		<10		<10	<10	<2	<10	<10	2.09	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041013	4/10/2013		33.77	NE	<25	<25		<25		<25	<25	<5	<25	<25	<5	<25	<25	<5		<25	<25	<25	<5	<5	<5
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.005	<0.005		<0.005		0.0173	<0.005	0.197 J	0.0335	0.0374	0.348	<0.005	<0.005	<0.001		0.199	0.0598	<0.005 UJ	1.01	0.361	1.3
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.005	<0.005		<0.005		0.0174	<0.005	0.187 J	0.0347	0.0383	0.341	<0.005	<0.005	<0.001		0.203	0.0613	<0.005 UJ	0.818 J	0.364	1.05
	MW8-ROX-101613	10/16/2013		31.59	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	MW8-ROX-013014	1/30/2014		34.02	NE	<13	<13		<13		<13	<13	1.92 J	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<13	<13		<13		<13	<13	1.99 J	<13	<13	<2.5	<13	<13	<2.5		<13	<13	<13	<2.5	<2.5	<2.5
	MW8-ROX-041614	4/16/2014		34.73	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
	MW8-ROX-071614	7/16/2014	33.60 - 43.60	33.01	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0266 J	<0.005 UJ	0.392 J	0.0598 J	0.0606 J	0.108 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.226 J	0.0904 J	<0.005 UJ	0.377 J	0.141 J	0.518 J

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																				
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-09	MW9-ROX-110111	11/1/2011	46.45 - 56.45	37.78	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.000062 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-050312	5/3/2012		41.03	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-070914	7/9/2014	46.45 - 56.45	44.35	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-10	MW10-ROX-110111	11/1/2011	44.43 - 54.43	37.72	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.000047 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.000052 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW10-ROX-102612	10/26/2012		43.08	NE																					
	MW10-ROX-121712	12/17/2012		43.08	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	0.00058 J
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	0.016	<0.001	<0.001	<0.001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.005	<0.005	<0.02	<0.025		<0.005	<0.025	<0.002	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.005	<0.005		<0.005	1.9	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW10-ROX-070914	7/9/2014	44.43 - 54.43	44.35	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-11	MW-11-ROX-110211	11/2/2011	41.66 - 51.66	35.44	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00012	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW11-ROX-070914	7/9/2014	41.66 - 51.66	41.75	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-12	MW-12-ROX-110211	11/2/2011	41.92 - 51.92	35.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	0.00089 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW12-ROX-070914	7/9/2014	41.92 - 51.92	41.97	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
MW-13	MW13-ROX-110311	11/3/2011	25.57 - 35.57	22.85	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0156 J	0.00017	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0066 J	0.00021	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0083	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		<0.005 UJ	<0.005 UJ	0.0133 J	<0.0013 U	<0.005 UJ	<0.001 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ		<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0082	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	0.0094	<0.005	0.00064 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	0.0072	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.008 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0062	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-070714	7/7/2014	25.57 - 35.57	28.49	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0091 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005	<0.005		<0.005		0.0104	<0.005	<0.001	0.00099	0.0078	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0016	0.00041 J	0.002
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	<0.005		<0.005		0.0173	<0.005	<0.001	0.0013	0.0137	0.00093 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0033	0.00061 J	0.0039
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005	<0.005		<0.005		0.0161	<0.005	<0.001	<0.005	0.0121	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0024	<0.001	0.0024
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005	<0.005		<0.005		0.021	<0.005	<0.001	<0.005	0.0162	0.00097 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0026	<0.001	0.003
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.005	<0.005		<0.005		0.0346	<0.005	<0.001	<0.005	0.0206	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0038	<0.001	0.0043
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.005	<0.005 UJ		<0.005		0.0168	<0.005	<0.001	<0.005	0.0109	0.00059 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0026	<0.001	0.0029
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.005	<0.005		<0.005		0.0011 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.00088 J	0.0011 J	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.005	<0.005		<0.005		0.0036 J	<0.005	<0.001	<0.005	0.002 J	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW14-ROX-070714	7/7/2014	33.42 - 43.42	32.82	NE	<0.005	<0.005		<0.005		0.00073 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001 UJ	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW16-ROX-071014	7/10/2014	37.06 - 47.06	43.15	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.25	<0.25		<0.25		0.126 J	<0.25	<0.05	0.396	0.22 J	10.5	<0.25	<0.25	<0.05		1.23	0.288	<0.25 UJ	7.56	3.73	11.3
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.25	<0.25		<0.25		0.124 J	<0.25	<0.05	0.377	0.234 J	9.06	<0.25	<0.25	<0.05		1.26	0.291	<0.25 UJ	6.96	3.52	10.5
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.005	<0.005		<0.005		0.159 J	0.0124 J	<0.001	0.286 J	0.29 J	6.14	<0.005	<0.005	<0.001		0.931	0.379 J	<0.005	5.15	2.64	7.79
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.005	<0.005		<0.005 UJ		0.131	0.0102	<0.001	0.345	0.242	3.92	<0.005	<0.005	<0.001		0.864	0.309	<0.005 UJ	4.13	2.26	6.39
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.005	<0.005		<0.005 UJ		0.133	0.0103	<0.001	0.362	0.245	3.57	<0.005	<0.005	<0.001		0.754	0.311	<0.005 UJ	3.83	2.05	5.88
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.005	<0.005 UJ		<0.005		0.137	0.0101	<0.001	0.47	0.244	6.02	<0.005	<0.005	<0.001		1.37	0.357	<0.005	7.46	3.48	10.9
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.005	<0.005 UJ		<0.005		0.136	0.0084	<0.001	0.445	0.243	6.32	<0.005	<0.005	<0.001		1.43	0.343	<0.005	7.75	3.65	11.4
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.005	<0.005		0.0082		0.169	0.007	<0.001	0.287	0.287	5.33	<0.005	<0.005	<0.001		1.3	0.298	<0.005	5.65	2.65	8.29
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.005	<0.005		0.0088		0.169	0.007	<0.001	0.262	0.286	5.71	<0.005	<0.005	<0.001		1.37	0.398	<0.005	6.01	2.81	8.83
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.005	<0.005		<0.005		0.157	<0.005	<0.001	0.334	0.254	5.95	<0.005	<0.005	<0.001		1.1	0.384	<0.005	6.85	3.38	10.2
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.005	<0.005		<0.005		0.138	0.0082	<0.001	0.28	0.235	5.52	<0.005	<0.005	<0.001		1	0.35	<0.005	6.23	3.12	9.35
	MW22-ROX-071414	7/14/2014	37.88 - 47.88	41.85	NE	<0.005	<0.005		<0.005		0.153 J	<0.005	<0.001	0.282 J	0.205 J	3.14	<0.005	<0.005	<0.001		0.353 J	0.262 J	<0.005	3.78	1.85	5.64
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	0.0014	<0.005	<0.005	<0.001		0.00051 J	<0.005	<0.005	0.0021	0.0009 J	0.003
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW24-ROX-071114	7/10/2014	38.89 - 48.89	42.97	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																			
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																			
P-54	P54-ROX-110311	11/3/2011	38.00 - 63.00	35.49	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.000089 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-103012	10/30/2012		40.70	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-041013	4/10/2013		41.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050313	5/3/2013		41.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071113	7/11/2013		39.07	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011514	1/15/2014		42.20	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-040914	4/9/2014		42.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-071114	7/10/2014	38.00 - 63.00	41.71	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005 UJ	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0012	0.0015	<0.005	0.029	<0.005	<0.005	<0.001		0.0067	0.0056	<0.005	0.0466	0.0163	0.0629
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005	<0.005		<0.005		0.0105 J	<0.005	<0.001	0.0197	0.0173	0.0337	<0.005	<0.005	<0.001		0.017	0.009	<0.005	0.205	0.0663	0.271
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005	<0.005		<0.005		0.0105 J	<0.005	<0.001	0.0169	0.0176	0.0359	<0.005	<0.005	<0.001		0.0179	0.0097	<0.005	0.21	0.0649	0.275
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005	<0.005		<0.005		0.0392	<0.005	<0.001	0.0271	0.0699	0.227	<0.005	<0.005	<0.001		0.158	0.0368	<0.005	0.885	0.112	0.97
	P55-ROX-012113	1/21/2013	40.43 - 50.53	43.60	NE	<0.05	<0.01	0.276	<0.25		0.0678	<0.25	<0.02	0.079 J	0.14	0.189	<0.05	<0.01	<0.05	0.183	0.039 J	0.026 J	<0.1	0.279	0.347	
	P55-ROX-012113	1/21/2013		43.60	NE	<0.005	<0.005		<0.005		0.0937	<0.005	0.002	0.12	0.206	0.262	<0.005	<0.005	<0.001		0.046	0.0312	<0.005	0.356	0.382	0.738
	P55-ROX-041513	4/15/2013		43.63	NE	<0.01	<0.01		<0.01		0.068	<0.01	<0.002	0.0974 J	0.148	0.143	<0.01	<0.01	<0.002		0.0241	0.0229	<0.01	0.235	0.362	0.597
	P55-ROX-071613	7/16/2013		40.06	NE	<0.005	<0.005 UJ		<0.005	0.72	0.0884	<0.005	<0.001	0.0841	0.175	0.343	<0.005	<0.005	<0.001		0.073	0.0559	<0.005 UJ	0.535	0.558	1.11
	P55-ROX-101013	10/10/2013		41.67	NE	<0.005	<0.005		<0.005		0.0851	<0.005	0.001	0.121	0.167	0.601	<0.005	<0.005	<0.001		0.151	0.062	<0.005	0.739	0.639	1.38
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005	<0.005		<0.005		0.0512	<0.005	<0.001	0.067	0.0463	0.0422	<0.005	<0.005	<0.001		0.0962	0.0226	<0.005	0.476	0.0332	0.509
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005	<0.005		<0.005		0.0787 J	<0.005	<0.001	0.0596	0.0697	0.023	<0.005	<0.005	<0.001		0.0229	0.0077	<0.005	0.202	0.0161	0.218
	P56-ROX-050812	5/8/2012		43.09	NE	<0.005	<0.005		<0.005		0.0876	<0.005	<0.001	0.0667	0.111	0.197	<0.005	<0.005	<0.001		0.312	0.0708	<0.005	1.37	0.197	1.53
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025	<0.025		<0.025 UJ		0.0442	<0.025	<0.005	0.0197	0.0439	0.0109	<0.025 UJ	<0.025 UJ	<0.005		0.0131 J	0.005 J	<0.025 UJ	0.11	0.0083	0.118
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005	<0.005		<0.005		0.0752	<0.005	<0.001	0.167	0.105	0.187	<0.005	<0.005	<0.001		0.387	0.0901	<0.005	1.62	0.144	1.73
	P56-ROX-011713	1/17/2013		45.65	NE	<0.025	<0.025		<0.025		0.0398	<0.025	<0.005	0.0322	0.0456	0.0119	<0.025	<0.025	<0.005		0.0172 J	0.0092 J	<0.025	0.0745	<0.005	0.0745
	P56-ROX-041213	4/12/2013		46.12	NE	<0.01	<0.01		<0.01		0.0581	<0.01	<0.002	0.0964 J	0.0805	0.0799	<0.01	<0.01	<0.002		0.27	0.0486	<0.01	1	0.0243	1.03
	P56-ROX-071513	7/15/2013		43.25	NE	<0.005	<0.005		<0.005		0.0968	<0.005	<0.001	0.316	0.145	0.311	<0.005	<0.005	<0.001		0.551	0.134	<0.005	2.67	0.21	2.85
	P56-ROX-101013	10/10/2013		44.48	NE	<0.005	<0.005		<0.005		0.0822	<0.005	0.00058 J	0.156	0.105	0.157	<0.005	<0.005	<0.001		0.33	0.0714	<0.005	1.7	0.0617	1.76
	P56-ROX-012214	1/22/2014		46.35	NE	<0.005	<0.005		<0.005		0.0399	<0.005	<0.001	0.0566	0.0426	0.0263	<0.005	<0.005	<0.001		0.074	0.0172	<0.005	0.224	0.0093	0.233
	P56-ROX-041414	4/14/2014		47.32	NE	<0.005	<0.005		<0.005		0.0781	<0.005	<0.001	0.0836	0.0951	0.0669	<0.005	<0.005	<0.001		0.205	0.0472	<0.005	0.742	0.0156	0.758
	P56-ROX-070814	7/8/2014	40.82 - 65.82	45.97	NE	<0.005	<0.005		<0.005		0.106 J	<0.005	<0.001	0.156 J	0.133 J	0.288 J	<0.005	<0.005	<0.001		0.487 J	0.166 J	<0.005	2.04 J	0.122 J	2.09 J
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.5	<0.5		<0.5		<0.5	<0.5	0.221	0.152	<0.5	<0.1	<0.5	<0.5	<0.1		0.615	<0.5	<0.5	1.02	<0.1	1.02
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	0.271 J	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	0.502	<0.5	0.502
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5	<0.5		<0.5		<0.5	<0.5	0.453	0.0894	<0.5	<0.1	<0.5	<0.5	<0.1		0.632	0.159 J	<0.5	0.928	0.0563 J	0.984
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25	<0.25		<0.25 UJ		<0.25	<0.25	0.238	0.119	<0.25	0.0577	<0.25	<0.25	<0.05		0.506	0.123 J	<0.25 UJ	0.74	0.0328 J	0.773
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005	<0.005		<0.005 UJ		0.0432	<0.005	0.212	0.115	0.0519	0.0558	<0.005	<0.005	<0.001		0.505 E	0.137	<0.005 UJ	0.692	0.0348	0.727
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	1.53 J	<2.5	<0.5	<2.5	<2.5	<0.5		0.577 J	<2.5	<2.5	1.03	<0.5	1.03
	P57-ROX-012913	1/29/2013		45.92	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	0.331 J	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-041113	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		0.494 J	<2.5	<2.5	<0.5	<0.5	<0.5
	P57-ROX-071613	7/16/2013		43.38	NE	<0.005	<0.005 UJ		<0.005		0.0698 J	<0.005	0.112 J	0.203 J	0.0802 J	0.202 J	<0.005	<0.005	<0.001		<5	0.129 J	<0.005 UJ	1.81	0.256 J	2.01
	P57-ROX-101413	10/14/2013		44.38	NE	<0.005	<0.005		<0.005		0.0539	<0.005	0.107	0.206	0.0586	0.0421	<0.005	<0.005	<0.001		0.763 J	0.12	<0.005	0.468	0.0206	0.489
	P57-ROX-020314	2/3/2014		46.57	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P57-ROX-041514	4/15/2014		46.70	NE	<0.005	<0.005		0.0062		0.0492	<0.005	0.0563	0.272	0.0585	0.0248	0.0015 J	<0.005	<0.001		0.503 E J	0.114	<0.005	0.296	0.0143	0.311
	P57-ROX-070814	7/8/2014	40.46 - 65.46	45.95	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0656 J	<0.005 UJ	<0.001 UJ	0.128 J	0.0605 J	0.154 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.375 J	0.0913 J	<0.005 UJ	1.46	0.237	1.7
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0689 J	<0.005 UJ	<0.001 UJ	0.139 J	0.0633 J	0.16 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.392 J	0.0954 J	<0.005 UJ	1.56	0.234	1.79

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
			Screening Values (mg/L)				0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005	<0.005		<0.005		0.0734	<0.005	<0.001	0.204	0.0862	0.13	<0.005	<0.005	<0.001		<25	0.104	<0.005	0.575	0.101	0.677
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005	<0.005		0.0097		0.108 J	<0.005	0.0082	0.212	0.129 J	0.155 J	<0.005	<0.005	<0.001			0.14 J	0.0408 J	0.679	0.108	0.787
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005	<0.005		<0.005		0.0832 J	<0.005	0.0101 J	0.191 J	0.0993 J	0.119 J	<0.005	<0.005	<0.001		<5	0.11	<0.005 UJ	<1	<1	<1
	P58-ROX-050712	5/7/2012		40.90	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	0.112 J	0.106 J	0.137	<0.5	<0.5	<0.1		0.776	0.108 J	<0.5	0.666	0.0982 J	0.764
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	0.0697 J	0.108 J	0.145	<0.5	<0.5	<0.1		0.757	0.109 J	<0.5	0.636	0.0968 J	0.733
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1	<0.1		<0.1 UJ		0.0649 J	<0.1	<0.02	0.142	0.0909 J	0.117	<0.1	<0.1	<0.02		0.705	0.0955 J	<0.1 UJ	0.652	0.0976	0.749
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.05	<0.05		<0.05		0.0718	<0.05	<0.01	0.15	0.0996	0.128	<0.05	<0.05	<0.01		0.737	0.102	<0.05	0.656	0.104	0.759
	P58-ROX-110612	11/6/2012		43.09	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	0.124	<0.5	<0.5	<0.1		0.658	0.108 J	<0.5	0.544	0.0807 J	0.624
	P58-ROX-121012	12/10/2012		43.09	NE																					
	P58-ROX-012213	1/22/2013		44.21	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	0.728 J
	P58-ROX-041113	4/11/2013		44.40	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		0.926 J	<10	<10	<2	<2	<2
	P58-ROX-071613	7/16/2013		41.49	NE	<0.005	<0.005 UJ		<0.005		0.101	<0.005	<0.001	0.234	0.131	0.147	<0.005	<0.005	<0.001		0.634 J	0.13	<0.005 UJ	0.723	0.12	0.843
	P58-ROX-101413	10/14/2013		42.19	NE	<0.005	<0.005		<0.005		0.0999	0.0055	0.0015	0.234	0.135	0.2	<0.005	<0.005	<0.001		1.17 J	0.131	<0.005	0.74	0.112	0.852
	P58-ROX-020314	2/3/2014		44.66	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<5		<5	<5	<5	<1	<1	<1
	P58-ROX-041514	4/15/2014		45.66	NE	<0.005	<0.005		<0.005		0.0777 J	<0.005	<0.001	0.277 J	0.104 J	0.127 J	<0.005	<0.005	<0.001		0.53 E J	0.0992 J	<0.005	0.552 J	0.0908 J	0.643 J
	P58-ROX-071814	7/18/2014	40.21 - 65.21	43.80	NE	<10	<10		<10		<10	<10	<2	<10	<10	<2	<10	<10	<2		<10	<10	<10	<2	<2	<2
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.25	<0.25		<0.25		<0.25	<0.25	<0.05	0.0793	<0.25	0.321	<0.25	<0.25	<0.05		0.477	<0.25	<0.25	3.11	0.312	3.42
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005	<0.005		<0.005		0.0713	<0.005	<0.001	0.18	0.128	0.896	<0.005	<0.005	<0.001		0.483 J	0.198	<0.005	3.03	0.587	3.62
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005	<0.005		<0.005		0.0733	<0.005	<0.001	0.183	0.133	0.931	<0.005	<0.005	<0.001		0.536	0.203	<0.005	3.21	0.587	3.8
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25	<0.25		<0.25		0.0585 J	<0.25	<0.05	0.0925	0.123 J	2.35	<0.25	<0.25	<0.05		0.67	0.171 J	<0.25	4.56	1.08	5.64
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1	<0.1		<0.1		0.0452 J	<0.1	<0.02	0.0886	0.0974 J	0.506	<0.1	<0.1	<0.02		0.563	0.158	<0.1	4.35	0.376	4.73
	P59-ROX-110212	11/2/2012		45.98	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.105 J	1.09	<0.5	<0.5	<0.1		0.558	0.154 J	<0.5	4.49	0.686	5.17
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	0.111 J	1.1	<0.5	<0.5	<0.1		0.592	0.167 J	<0.5	4.68	0.721	5.4
	P59-ROX-013013	1/30/2013		46.60	NE	<0.25	<0.25		<0.25		0.0455 J	<0.25 UJ	<0.05 UJ	0.376	0.085 J	0.296	<0.25	<0.25	<0.05		0.563	0.0491 J	<0.25	4.19	0.264	4.45
	P59-ROX-041213	4/12/2013		46.95	NE	<0.25	<0.25		<0.25		0.062 J	<0.25	<0.05	0.664	0.136 J	0.523	<0.25	<0.25	<0.05		0.946	<0.25	<0.25	6.52	0.646	7.16
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.25	<0.25		<0.25		0.0543 J	<0.25	<0.05	0.547	0.117 J	0.463	<0.25	<0.25	<0.05		0.843	<0.25	<0.25	5.89	0.591	6.48
	P59-ROX-071613	7/16/2013		44.13	NE	<0.005	<0.005 UJ		<0.005		0.074 J	<0.005	<0.001	0.215 J	0.149 J	1.03	<0.005	<0.005	<0.001		0.784	0.219	<0.005 UJ	5.76	0.431	6.19
	P59-ROX-101013	10/10/2013		45.50	NE	<0.005	<0.005		<0.005		0.086	<0.005	0.0012	0.285	0.176	2.89	<0.005	<0.005	<0.001		1.14	0.273	<0.005	7.47	1.28	8.75
	P59-ROX-020314	2/3/2014		47.35	NE	<0.1	<0.1		<0.1		0.0409 J	<0.1	<0.02	0.0321 J	0.0824 J	0.66	<0.1	<0.1	<0.02		0.621	0.193	<0.1	3.79	0.438	4.23
	P59-ROX-041514	4/15/2014		48.60	NE	<0.005	<0.005		0.054		0.0495	<0.005	<0.001	0.196	0.0798	0.746	0.0027 J	<0.005	<0.001		0.385	0.214	<0.005	4.83	0.902	5.73
	P59-ROX-070814	7/8/2014	47.91 - 72.91	47.69	NE	<0.005	<0.005		<0.005		0.0948 J	<0.005	<0.001	0.228 J	0.16 J	1.55	<0.005	<0.005	<0.001		0.607	0.285 J	<0.005	4.48	0.929	5.41
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	<0.005		<0.005		0.158	<0.005	0.0845 J	0.0091	0.188	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	<0.005		<0.005		0.123	<0.005	0.0771	<0.0001	0.152	0.0021	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0012	0.0012	0.0024
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	<0.005		<0.005		0.0874	<0.005	0.103	0.0013	0.112	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0011	0.0011	0.0022
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	<0.005		<0.005		0.122	<0.005	0.0733	<0.005	0.156	0.0014	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-011813	1/18/2013		35.70	NE	<0.005	<0.005		<0.005		0.146	<0.005	0.104	<0.005	0.193	0.0015	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00093 J	0.00093 J
	P66-ROX-041113	4/11/2013		36.03	NE	<0.005	<0.005		<0.005		0.287	<0.005	0.086	<0.005	0.384	0.0012	<0.005	<0.005	<0.001		0.0041 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P66-ROX-071213	7/12/2013		33.20	NE	<0.005	<0.005 UJ		<0.005		0.191	<0.005	<0.001	<0.005	0.229	0.0018	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	0.001	0.0015
	P66-ROX-101013	10/10/2013		33.66	NE	<0.005	<0.005		<0.005		0.151	<0.005	0.085	0.0104	0.204	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00096 J	0.00096 J
	P66-ROX-110713	11/7/2013		33.66	NE	<0.005	<0.005		<0.005		0.0958	<0.005	0.0528	0.0057	0.0658	0.00086 J	<0.005	<0.005	0.0015		<0.005	<0.005	<0.005	<0.001	0.00057 J	0.00057 J
	P66-ROX-012914	1/29/2014		36.39	NE	<0.005	<0.005		<0.005		0.131	<0.005	<0.001	<0.005	0.157	0.0017	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.0045	0.0045
	P66-ROX-041114	4/11/2014		37.10	NE	<0.005	<0.005		<0.005		0.115	<0.005	<0.001	0.0014 J	0.136	0.0017	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	0.00072 J	0.0013
	P66-ROX-070714	7/7/2014	34.72 - 59.72	35.60	NE	<0.005	<0.005		<0.005		0.144	<0.005	<0.001	<0.005	0.102	0.0022	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.001	0.00099 J	0.002
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	<0.005		<0.005		0.0123	<0.005	0.0222	0.0673	0.0222	0.669	<0.005	<0.005	<0.001		0.587	0.162	<0.005	0.177	<0.1	0.177
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0158	0.0012 J	0.0038	<0.005	<0.005	<0.001		0.0292	0.0126	<0.005	0.0526	0.0262	0.0788
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00024	0.001 J	0.0017	<0.005	<0.005	<0.001		0.0155	0.0063	<0.005	0.0273	0.0093	0.0366
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05	<0.05		<0.05 UJ		<0.05	<0.05	<0.01	0.0177	<0.05	0.159	<0.05	<0.05	<0.01		0.187	0.0663	<0.05 UJ	0.388	0.125	0.512
	P74-ROX-110112	11/1/2012		41.72	NE	<0.1	<0.1		<0.1		<0.1	<0.1	<0.02	0.0834 J	<0.1	0.232	<0.1	<0.1	<0.02		0.125	0.0414 J	<0.1	0.246	0.0811	0.328
	P74-ROX-011713	1/17/2013		42.65	NE	<0.1	<0.1		<0.1		<0.1	<0.1	<0.02	0.141	<0.1	0.278	<0.1	<0.1	<0.02		0.249	0.0973 J	<0.1	0.547	<0.02	0.555
	P74-ROX-041113	4/11/2013		42.83	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0016 J	<0.005	0.003	<0.005	<0.005	<0.001		0.0184	0.0138	<0.005	0.0456	0.0146	0.0601
	P74-ROX-071513	7/15/2013		40.11	NE	<0.005	<0.005		<0.005		0.0031 J	<0.005	<0.001	0.024	0.0054	0.0064	<0.005	<0.005	<0.001		0.101	0.0365	<0.005	0.109	0.027	0.136
	P74-ROX-101413	10/14/2013		41.72	NE	<0.005	<0.005		<0.005		0.0052	0.0074	0.0011	0.0257	0.0094	0.0344	<0.005	<0.005	<0.001		0.192	0.0739	<0.005	0.237	0.0483	0.285
	P74-ROX-012414	1/24/2014		43.35	NE	<0.005	<0.005		<0.005		0.0058	<0.005	<0.001	0.0322	0.0112	0.153	<0.005	<0.005	<0.001		0.292	0.11	<0.005	0.316	0.0579	0.374
	P74-ROX-041514	4/15/2014		44.74	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00074 J	<0.005	0.00078 J	<0.005	<0.005	<0.001		0.0083	0.0039 J	<0.005	0.0193	0.0015	0.0208
	P74-ROX-070814	7/8/2014	44.43 - 69.43	43.02	NE	<0.005	<0.005		<0.005		0.0018 J J	<0.005	<0.001	0.0128	0.0036 J	0.0087	<0.005	<0.005	<0.001		0.117	0.0518	<0.005	0.121	0.0122	0.133

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)		0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-102611	10/26/2011	48.17 - 63.17	39.43	NE	<0.005	<0.005		<0.005		0.0189	<0.005	0.0405	0.108	0.0172	0.0438	<0.005 UJ	<0.005	<0.001		0.171	0.0399	<0.005	0.482	0.0614	0.543
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005	<0.005		0.0041 J		0.0134	<0.005	0.0604	0.059 J	0.0134	0.0196	<0.005	<0.005	<0.001		0.101	0.025	<0.005 UJ	0.292	0.0416	0.333
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0218 J	<0.005 UJ	0.0557 J	0.0472	0.0239 J	0.0407 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.194 J	0.0416 J	<0.005 UJ	0.647 J	0.0841 J	0.731 J
	P93A-ROX-080912	8/9/2012		43.66	NE	<0.005	<0.005		<0.005		0.0126	<0.005	0.0485	0.0496	0.0137	0.0091	<0.005	<0.005	<0.001		0.145	0.0273	<0.005	0.436	0.0642	0.5
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.43	0.076 J	0.506
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.404	0.073 J	0.477
	P93A-ROX-012313	1/23/2013		45.89	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5 UJ	<0.5	<0.5	<0.5
	P93A-ROX-041113	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.005	<0.005		<0.005		0.0101	<0.005	0.0054 J	0.0303	0.0113	0.0072	<0.005	<0.005	<0.001		0.0915	0.0116	<0.005 UJ	0.273	0.0426	0.316
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005		<0.005		0.0142	<0.005	0.0034	0.0621	0.015	0.0133	<0.005	<0.005	<0.001		0.146	0.0163	<0.005 UJ	0.451	0.0789	0.53
	P93A-ROX-012914	1/29/2014		46.53	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-041714	4/17/2014		47.41	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93A-ROX-071814	7/18/2014	48.17 - 63.17	45.70	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
P-93B	P93B-ROX-102611	10/26/2011	74.60 - 76.60	39.48	NE	<0.005	<0.005		<0.005		0.0292	<0.005	<0.001	0.012	0.0359	0.0859	<0.005 UJ	<0.005	<0.001		0.0303	0.0082	<0.005	0.167	0.0352	0.202
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005	<0.005		<0.005		0.022 J	<0.005	0.0063 J	0.0041 J J	0.0244 J	0.0678 J	<0.005	<0.005	<0.001		0.0114 J	0.0028 J J	<0.005 UJ	0.0598 J	0.0224 J	0.0822 J
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.005	<0.005		<0.005		0.0188 J	<0.005	<0.001	0.002	0.0272 J	0.0512 J	<0.005	<0.005	<0.001		0.0196 J	0.0054 J	<0.005	0.116 J	0.0251 J	0.141 J
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.005	<0.005		<0.005		0.0266	<0.005	<0.001	0.0049	0.0406	0.0786	<0.005	<0.005	<0.001		0.0372	0.0107	<0.005	0.245	0.0468	0.292
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	<0.1	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.0986 J	<0.1	0.0986 J
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5	<0.5		<0.5		<0.5	<0.5	<0.1	<0.5	<0.5	0.0719 J	<0.5	<0.5	<0.1		<0.5	<0.5	<0.5	0.237	<0.1	0.237
	P93B-ROX-012313	1/23/2013		45.89	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5 UJ	<1	<1	<1
	P93B-ROX-041113	4/11/2013		46.32	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.005	<0.005		<0.005		0.0247	<0.005	0.0035 J	0.0093	0.0357	0.0646	<0.005	<0.005	<0.001		0.025	0.0069	0.0176 J	0.195	0.0418	0.236
	P93B-ROX-101613	10/16/2013		44.43	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<10 UJ	<10		<10		<10	<10	<2 UJ	<10	<10	<2	<10	<10	<2		<10	<10	<10 UJ	<2	<2	<2
	P93B-ROX-012814	1/28/2014		46.58	NE	<5	<5		<5		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<5	<5		<5 UJ		<5	<5	<1	<5	<5	<1	<5	<5	<1		<5	<5	<5	<1	<1	<1
	P93B-ROX-041714	4/17/2014		47.46	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<2.5	<2.5		<2.5		<2.5	<2.5	<0.5	<2.5	<2.5	<0.5	<2.5	<2.5	<0.5		<2.5	<2.5	<2.5	<0.5	<0.5	<0.5
	P93B-ROX-071714	7/17/2014	74.60 - 76.60	45.75	NE	<0.005 UJ	<0.005 UJ		<0.005 UJ		0.0227 J	<0.005 UJ	<0.001 UJ	0.0053 J	0.0297 J	0.0129 J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.008 J	0.0037 J J	<0.005 UJ	0.0662 J	0.0047 J	0.0708
P-93C	P93C-ROX-102611	10/26/2011	94.26 - 96.26	39.36	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0096	<0.0001	<0.005	<0.001	<0.005 UJ	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.006	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.004	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0053	0.000065 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0056	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0044	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0045	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.005	<0.005		<0.005		0.002 J	<0.005	0.0049 J	<0.005	0.002 J	0.007	<0.005	<0.005	<0.001		0.0016 J	<0.005	<0.005 UJ	0.0076	0.0015	0.0091
	P93C-ROX-080813	8/8/2013		43.31	NE	<0.25	<0.25		<0.25		<0.25	<0.25	<0.05	<0.25	<0.25	<0.05	<0.25	<0.25	<0.05		<0.25	<0.25	<0.25	<0.05	<0.05	<0.05
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.005 UJ	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0047 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0043	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-071714	7/17/2014	94.26 - 96.26	45.61	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0061 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)		0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93D	P93D-ROX-102711	10/27/2011	125.75 - 127.75	39.59	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.004 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00016	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00077 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0092 U	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0023	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0015 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.005	<0.005 UJ		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005 UJ	<0.005		<0.005		<0.005	<0.005	0.00066 J J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0011	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0017 J	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-071714	7/17/2014	125.75 - 127.75	45.78	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0011 J	<0.005 UJ	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0036 J	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0035 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.00083 J	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001		0.00039 J	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0076 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	0.0013 J	<0.001	0.0013 J
	P114-ROX-012313	1/23/2013		30.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.003 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-041513	4/15/2013		31.80	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0051	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0023 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0022 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P114-ROX-101713	10/17/2013		29.43	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0036	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-012814	1/28/2014		32.11	NE	<0.005	<0.005		<0.005 UJ		<0.005	<0.005	0.0153	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-042114	4/21/2014		32.22	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0093	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P114-ROX-071814	7/18/2014	32.67 - 52.67	30.87	NE	<0.005	<0.005		<0.005		<0.005	<0.005	0.0037	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00048	0.00096 J	0.0038	<0.005	<0.005	<0.001		0.0095	0.0023 J	<0.005	0.0607	0.0151	0.0758
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.00038	<0.005	0.0015	<0.005	<0.005	<0.001		0.0042 J	0.0012 J	<0.005	0.0289	0.0074	0.0363
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.0026 J	<0.005	<0.005	0.0122	0.0037	0.0159
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005	<0.005		<0.005		0.0066	<0.005	<0.001	0.0076	0.0156	0.0016	<0.005	<0.005	<0.001		0.0786	0.022	<0.005 UJ	0.114	0.0159	0.13
	ROST3MW-ROX-040513	4/5/2013				<0.005	<0.005		<0.005		0.0032 J	<0.005	<0.001	0.132 J	0.0082	0.0076	<0.005	<0.005	<0.001		0.0531	0.0145	<0.005	0.0603	0.0126	0.0729
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.005	<0.005		<0.005 UJ		0.0146	<0.005	<0.001	0.0411	0.0279	0.014	<0.005	<0.005	<0.001		0.164	0.0373	<0.005 UJ	0.644	0.124	0.768
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.005	<0.005 UJ		<0.005		0.0017 J	<0.005	<0.001	0.0045 J	0.0029 J	0.0018	<0.005	<0.005	<0.001		0.0168	0.0035 J	<0.005	0.0422	0.0123	0.0546
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.005	<0.005		<0.005		0.00099 J	<0.005	<0.001	<0.005	0.002 J	0.0012	<0.005	<0.005	<0.001		0.0207	0.0057	<0.005	0.0377	0.0063	0.044
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.005	<0.005		<0.005		0.00043 J	<0.005	<0.001	0.00084 J	0.00082 J	0.0015	<0.005	<0.005	<0.001		0.0121	0.003 J	<0.005	0.0287	0.0028	0.0315
	ROST3MW-ROX-071414	7/14/2014	37.81 - 47.81	41.88	NE	<0.005	<0.005		<0.005		0.00053 J	<0.005	<0.001	0.0045 J	0.00098 J	0.0024	<0.005	<0.005	<0.001		0.0132	0.0032 J	<0.005	0.0371	0.0041	0.0412
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	0.0018	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	<0.005 UJ		<0.005		0.0036 J	<0.005	<0.001	0.0331	0.0059	0.0596	<0.005	<0.005	<0.001		0.0374	0.0076	<0.005	0.373	0.207	0.581
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0021	<0.001	0.0021
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001		0.002 J	0.0014 J	<0.005	0.0018	<0.001	0.0018
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.005	<0.005		<0.005 UJ		0.00061 J J	<0.005 UJ	<0.001	<0.005	0.0011 J	0.0006 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ		0.0016 J	<0.005	<0.005	<0.001 UJ	<0.001 UJ	<0.001 UJ
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.005	<0.005		<0.005 UJ		0.0025 J	<0.005	<0.001	0.0189	0.0041 J	0.041	<0.005	<0.005	<0.001		0.0194	0.0044 J	<0.005 UJ	0.126	0.0649	0.191
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.005	<0.005 UJ		<0.005		0.00066 J	<0.005	<0.001	0.0054	0.0012 J	0.0013	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0101	0.0054	0.0155
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	0.00073 J	0.0014	<0.005	<0.005	<0.001		0.0017 J	<0.005	<0.005	0.0124	0.0057	0.018
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.005	<0.005		<0.005		<0.005	<0.005	<0.001	<0.005	<0.005	0.00057 J	<0.005	<0.005	<0.001		<0.005	<0.005	<0.005	0.0015	0.0015	0.003
	ROST4C-ROX-071114	7/10/2014	34.95 - 44.95	42.22	NE	<0.005	<0.005		<0.005		0.00037 J	<0.005	<0.001	0.0104 J	<0.005	0.0421	<0.005 UJ	<0.005	<0.001		0.00082 J	<0.005	<0.005	0.0574	0.0815	0.139

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						VOCs																		
						Ethyl methacrylate	Hexachlorobutadiene	Hexane	2-Hexanone (Methyl N-Butyl Ketone)	Isopentane	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
					Screening Values (mg/L)		0.007 [3]	0.42 [3]	0.035 [3]		0.7 [1]	0.56 [3]	0.07 [1]	0.14 [1]	0.7 [3]	1.0 [1]	0.0056 [3]	0.07 [1]	0.005 [1]			0.07 [3]	7.0 [2]	10 [1]		10 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.05	<0.05		<0.05		<0.05	<0.05	<0.01	0.105	<0.05	0.233	<0.05	<0.05	<0.01		0.358	0.0527	<0.05	1.13	0.108	1.24
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005	<0.005		<0.005		0.022	<0.005	0.0016	0.132	0.03	0.175	<0.005	<0.005	<0.001		0.34	0.0715	0.0952	0.684	0.0399	0.724
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025	<0.025		<0.025		0.0572	<0.025	<0.005	0.0924	0.101	0.388	<0.025	<0.025	<0.005		0.476	0.0765	<0.025	2.87	0.251	3.12
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05	<0.05		<0.05		0.0297 J	<0.05	<0.01	0.0625	0.0486 J	0.197	<0.05	<0.05	<0.01		0.403	0.0474 J	<0.05	1.32	0.0709	1.39
	T12-ROX-110512	11/5/2012		43.91	NE	<0.05	<0.05		<0.05		0.0468 J	<0.05	<0.01	0.125	0.0831	0.322	<0.05	<0.05	<0.01		0.385	0.0543	<0.05	2.55	0.176	2.73
	T12-ROX-011813	1/18/2013		44.50	NE	<0.025	<0.025		<0.025		0.031	<0.025	<0.005	0.129	0.0466	0.184	<0.025	<0.025	<0.005		0.42	0.0407	<0.025	1.11	0.0252	1.13
	T12-ROX-041513	4/15/2013		44.99	NE	<0.05	<0.05		<0.05		0.0405 J	<0.05	<0.01	0.266 J	0.076	0.592	<0.05	<0.05	<0.01		0.309	<0.05	<0.05	1.2	0.104	1.3
	T12-ROX-071613	7/16/2013		42.33	NE	<0.005	<0.005 UJ		<0.005		0.0363 J	<0.005	<0.001	0.122 J	0.0627 J	0.186 J	<0.005	<0.005	<0.001		0.361 J	0.0238 J	<0.005 UJ	0.794 J	0.0145 J	0.808 J
	T12-ROX-101513	10/15/2013		43.73	NE	<0.025	<0.025		<0.025		0.0618	<0.025	<0.005	0.215 J	0.114	0.697	<0.025	<0.025	<0.005		0.575	0.0607	<0.025	2.43	0.139	2.57
	T12-ROX-012414	1/24/2014		45.26	NE	<0.005	<0.005		<0.005		0.0362	<0.005	<0.001	0.171	0.0676	0.421	<0.005	<0.005	<0.001		0.526	0.0507	<0.005	1.12	0.0469	1.23
	T12-ROX-041514	4/15/2014		46.72	NE	<0.005	<0.005		<0.005		0.0306	<0.005	<0.001	0.12	0.0534	0.406	<0.005	<0.005	<0.001		0.22 J	0.0339	<0.005	0.841	0.0401	0.864
	T12-ROX-070814	7/8/2014	46.72 - 72.72	45.13	NE	<0.005	<0.005		<0.005		0.0577 J	<0.005	<0.001	0.146	0.0912	0.686	<0.005	<0.005	<0.001		0.425	0.0589	<0.005	1.25	0.0909	1.3

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TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-120511	12/5/2011	43.41 - 58.41	37.10	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000056 U	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	0.000077 J	0.000035 J	<0.01	0.000062 J	0.00011	0.0001	0.00011	<0.00011 U	0.00012	<0.01 UJ	<0.01	<0.0051	<0.002	<0.00039 U	<0.01	<0.0051	0.00011	<0.00011 U	<0.0051	<0.01	<0.0051	<0.01
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00032 J	<0.011
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.00099 J	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW1-ROX-121712	12/17/2012		41.22	NE																						
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.000024 U	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0011 U	<0.011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.000026 U	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	0.000027 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00065 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.003 J J	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0057 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW1-ROX-070914	7/9/2014	48.80 - 58.80	42.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-02	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW2-ROX-011612	1/16/2012		38.89	NE	0.000057 J	<0.00011	<0.011	<0.00011	<0.000053	0.000033 J	0.00004 J	<0.000047 U	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.00083 U	<0.00047 U	<0.011	<0.0053	<0.00011	<0.000047 U	<0.0053	<0.011	<0.0053	0.0035 J
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	0.0055 J
	MW2-ROX-073012	7/30/2012		40.60	NE	0.000051 J	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00059 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00036 J	0.0045 J
	MW2-ROX-102612	10/26/2012		42.35	NE	0.000093 J	<0.00011	<0.011	<0.00011	0.00016	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0034 J
	MW2-ROX-011113	1/11/2013		42.94	NE	0.00016	0.000019 J	<0.011 UJ	<0.00011	<0.000056	0.000027 J	0.000039 J	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.005 J
	MW2-ROX-071113	7/11/2013		40.82	NE	0.000035 J	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.00063 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	0.005 J
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.00011	0.00018	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW2-ROX-071414	7/14/2014	49.87 - 59.87	43.13	NE	0.000084 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00037 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-03	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.0001	<0.0001	<0.01	0.000063 J	0.00011	0.00012	0.00013	<0.00013 U	0.00012	<0.01 UJ	<0.01	<0.0052	<0.0004 U	<0.00039 U	<0.01	<0.0052	0.000098 J	<0.00013 U	<0.0052	<0.01	<0.0052	<0.01
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.00067 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.00059 U	<0.01
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.0001	0.000023 J	<0.01 UJ	0.000037 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	MW3-ROX-071113	7/11/2013		26.32	NE	0.000028 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0038	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00038 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW3-ROX-071114	7/10/2014	34.67 - 44.67	29.05	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0054	0.0013 J	<0.0054	<0.011	<0.0054	0.000028 J	<0.0001	<0.0022	<0.011	<0.0054	<0.011
MW-04	MW4-ROX-121511	12/15/2011	46.06 - 56.06	33.99	NE	<0.0001	0.00011	<0.01 UJ	<0.0001	<0.000052	0.00012	<0.000087 U	<0.00063 U	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0028 U	<0.0052	<0.01	<0.0052	<0.0001	<0.00035 U	<0.0052	<0.01	<0.0052	<0.01
	MW4-ROX-011612	1/16/2012		36.00	NE	<0.0001	<0.0001	<0.01	0.00003 J	0.00012	0.00012	0.00013	<0.0002 U	0.00015	<0.01 UJ	<0.01	<0.0052	<0.0005 U	<0.00073 U	<0.01	<0.0052	0.00014	<0.00019 U	<0.0052	<0.01	<0.0052	<0.01
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0056 J	<0.01	<0.0051	<0.00079 U	0.00039 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.0014 J	<0.01
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000046 U	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.00069 U	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.0012 J	<0.01
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.00012	<0.00012	<0.012 UJ	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW4-ROX-030413	3/4/2013		40.20	NE																						
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.000036 U	<0.00011	<0.011	<0.00011	<0.000055	0.00004 J	0.000034 J	0.000061 J	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0055 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW4-ROX-071614	7/16/2014	46.06 - 56.06	40.18	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-05	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00079 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0015 U	<0.00049 U	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00064 U	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	0.0011 J	<0.01
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW5-ROX-011113	1/11/2013		28.75	NE	0.000071 J	0.000066 J	<0.011 UJ	0.000028 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.0001	<0.0001	<0.01	<0.0001	0.0001 J	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW5-ROX-071414	7/14/2014	33.97 - 43.97	28.59	NE	0.000075 J	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
MW-06A	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.0023	0.00077 J	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0011 J	0.00054 J	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000064 U	<0.00008 U	<0.00009 U	<0.00015 U	0.000094 J	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00014 U	<0.0054	<0.011	<0.0054	<0.011
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0029 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	0.000073 J	<0.0001	<0.01 UJ	<0.01	<0.0051	0.00054 J	<0.0051	<0.01	<0.0051	<0.0001	0.000066 J	<0.002	<0.01	<0.0051	<0.01
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	0.00052 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6A-ROX-100713	10/7/2013		28.87	NE	0.0001 J	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.00082 U	<0.011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	0.000093 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	0.00078 J	<0.011
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00057 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.00066 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6A-ROX-071014	7/10/2014	34.83 - 44.83	30.75	NE	<0.00011	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-06B	MW6B-ROX-110311	11/3/2011	64.05 - 69.05	24.67	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00015 U	<0.00011 U	<0.00028 U	0.0001 J	<0.011 UJ	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00027 U	<0.0055	<0.011	<0.0055	<0.011
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00049 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	0.00057 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.00057 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00084 U	<0.011
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	0.000051 J	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000042 J	<0.0022	<0.011	<0.0054	<0.011
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6B-ROX-071014	7/10/2014	64.05 - 69.05	30.81	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
MW-06C	MW6C-ROX-110311	11/3/2011	84.95 - 89.95	24.47	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00046 U	<0.011	<0.0054	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0001	<0.0001 UJ	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01 UJ	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.00056 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0013 U	<0.011
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000041 J	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW6C-ROX-071014	7/10/2014	84.95 - 89.95	30.60	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	0.000034 J	<0.00011	<0.000056	0.000035 J	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	0.000037 J	<0.00011	<0.0022	<0.011	<0.0056	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-06D	MW6D-ROX-110311	11/3/2011	104.72 - 109.72	24.31	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01 UJ
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0055	<0.011	<0.0055	<0.011
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0044 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.00022 J	<0.01
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.00011	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.001 U	<0.011
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW6D-ROX-071014	7/10/2014	104.72 - 109.72	31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-07	MW-7-ROX-110211	11/2/2011	42.92 - 52.92	35.95	NE	<0.00026 U	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01 UJ
	MW7-ROX-011812	1/18/2012		38.10	NE	0.00025	<0.0001	<0.01	<0.0001	<0.00005	<0.00024 U	<0.00005	<0.0001	<0.0001		<0.01 UJ	<0.005	<0.002	0.00049 J	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	0.00027	<0.00011	<0.011	<0.00011	<0.000056	<0.00003 U	<0.000056	<0.00011	<0.00011		<0.011 UJ	<0.0056	0.00044 J	0.00048 J	<0.011	<0.0056	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011
	MW7-ROX-050412	5/4/2012		39.19	NE	0.00028	<0.0001	<0.01	<0.0001	0.00011	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00071 J	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW7-ROX-080712	8/7/2012		39.50	NE	0.00024	0.000037 J	<0.01 UJ	0.000022 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0006 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.00058 U	<0.01
	MW7-ROX-103012	10/30/2012		41.23	NE	0.00031	<0.00012	<0.012 UJ	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	0.0015 J	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	0.00034	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.0007 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW7-ROX-011513	1/15/2013		42.21	NE	0.00073	0.00011	<0.011 UJ	0.000059 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00061 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	0.00066	0.000093 J	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00055 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-041013	4/10/2013		42.70	NE	0.0012	0.00015	<0.011	0.000089 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00083 J	<0.011	<0.0054	<0.011
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	0.0012	0.00016	<0.011	0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00088 J	<0.011	<0.0053	<0.011
	MW7-ROX-071713	7/17/2013		39.60	NE	0.00019	0.000031 J	<0.011	0.000028 J	0.00004 J	0.000044 J	0.000045 J	0.00008 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	0.000077 J	<0.0022	<0.011	<0.0054	<0.011
	MW7-ROX-101613	10/16/2013		40.64	NE	0.00035	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW7-ROX-013014	1/30/2014		42.94	NE	0.00028	<0.0001	<0.01	0.00029	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW7-ROX-041614	4/16/2014		43.79	NE	0.00034	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-071614	7/16/2014	42.92 - 52.92	42.05	NE	0.00024	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	0.00022	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
MW-08	MW-8-ROX-110211	11/2/2011	33.60 - 43.60	27.02	NE	<0.00023 U	<0.000095	<0.0095 UJ	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	0.0383 J
	MW8-ROX-011812	1/18/2012		29.15	NE	0.00038 J	<0.00053	<0.011	<0.00053	<0.00026	<0.00053	<0.00026	<0.00053	<0.00053		<0.011 UJ	<0.0053	0.00052 J	0.00042 J	<0.011	<0.0053	<0.00053	<0.00053	0.0006 J	<0.011	<0.0053	0.015
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0204	<0.011	<0.0053	0.00053 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00044 J	<0.011	<0.0053	0.0595
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.0001	<0.0001	<0.01	<0.0001	0.00012	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00047 J	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0557
	MW8-ROX-080712	8/7/2012		30.97	NE	0.00023	0.00013	<0.011 UJ	0.000055 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00051 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00035 J	<0.011	<0.0016 U	0.015
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	0.0002	0.00029	<0.011 UJ	0.000071 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.00043 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0004 J	<0.011	<0.0018 U	0.0158
	MW8-ROX-103012	10/30/2012		32.32	NE	0.00026	0.00011	<0.011 UJ	0.00044	<0.00087 U	0.00053 B	0.00057 B	0.00058 B	0.00064 B	<0.011	<0.011	<0.0053	0.0012 J	0.00086 J	<0.011	<0.0053	0.00066 B	0.00059 B	<0.0021	<0.011	<0.0053	0.0085 J
	MW8-ROX-011513	1/15/2013		33.30	NE	0.00017	0.000085 J	<0.011 UJ	0.000029 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00089 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.019
	MW8-ROX-041013	4/10/2013		33.77	NE	0.00018	0.000059 J	<0.011	0.000072 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0023	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0358
	MW8-ROX-071713	7/17/2013		30.43	NE	0.0002	<0.0001	<0.01	0.000049 J	<0.000052	0.000021 J	<0.000052	0.00004 J	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.009 J
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	0.00019	0.000056 J	<0.011	0.000061 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0004 J	<0.011	<0.0054	0.0089 J
	MW8-ROX-101613	10/16/2013		31.59	NE	0.00021	0.000089 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0005 J	<0.011	<0.0054	0.0066 J
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	0.0002	0.000058 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.0004 J	<0.012	<0.0059	0.0062 J
	MW8-ROX-013014	1/30/2014		34.02	NE	0.0002	0.000089 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00053 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.0005 J	<0.01	<0.0051	0.0124
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	0.00021	0.000083 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00072 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00053 J	<0.011	<0.0054	0.0121
	MW8-ROX-041614	4/16/2014		34.73	NE	0.00018	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0005 J	<0.011	<0.0056	<0.011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	0.00016	0.000063 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00045 J	<0.01	<0.0051	<0.01
	MW8-ROX-071614	7/16/2014	33.60 - 43.60	33.01	NE	0.00018	0.000068 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00038 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00041 J	<0.01	0.00057 J	<0.01

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-09	MW9-ROX-110111	11/1/2011	46.45 - 56.45	37.78	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	0.000058 J	0.000051 J	<0.000096 U	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.00085 U	<0.00037 U	<0.011	<0.0057	<0.00011	<0.000078 U	<0.0057	<0.011	<0.0057	<0.011
	MW9-ROX-050312	5/3/2012		41.03	NE													0.0016 J J	0.00045 JB J								
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00043 U	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW9-ROX-011113	1/11/2013		43.90	NE	0.000068 J	0.000064 J	<0.011 UJ	0.00006 J	<0.000054	<0.00011	0.000026 J	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0016 UJ	<0.01 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	0.000035 J	<0.00011	<0.00011		<0.011	<0.0056	<0.0022	<0.0056			<0.00011	<0.00011	<0.0022		<0.0056	
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.00011	<0.00011	<0.011	<0.00011	0.000024 J	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.00054 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW9-ROX-070914	7/9/2014	46.45 - 56.45	44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00036 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-10	MW10-ROX-110111	11/1/2011	44.43 - 54.43	37.72	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.00011	<0.00011	<0.011	0.000027 J	0.000037 J	0.000031 J	0.000043 J	<0.000042 U	<0.00011	<0.011 UJ	<0.011	<0.0053	0.0255	<0.0013 U	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.0001	<0.0001	<0.01 UJ	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00067 U	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-121712	12/17/2012		43.08	NE																						
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.0001	<0.0001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	<0.01	<0.01	<0.01	<0.01
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0018 U	<0.011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0027 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	0.000096 J	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00054 J	<0.0053	<0.011 UJ	<0.0054 UJ	<0.00011	0.000074 J	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0053	<0.00068 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW10-ROX-070914	7/9/2014	44.43 - 54.43	44.35	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00052 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-11	MW-11-ROX-110211	11/2/2011	41.66 - 51.66	35.44	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011 UJ
	MW11-ROX-011712	1/17/2012		37.44	NE				0.000022 J J									0.000065 J J									
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.00012	<0.00012	<0.012 UJ	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012 UJ	<0.00012	<0.012	<0.012	<0.0058	<0.00056 U	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00042 U	<0.011
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.002 UJ	<0.005 UJ	<0.01 UJ	<0.005 UJ	<0.0001 UJ	<0.0001 UJ	<0.002 UJ	<0.01 UJ	<0.005 UJ	<0.01 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0052 U	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0011 U	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0011 U	<0.011
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011 UJ	<0.0056	<0.0056 U	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW11-ROX-070914	7/9/2014	41.66 - 51.66	41.75	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
MW-12	MW-12-ROX-110211	11/2/2011	41.92 - 51.92	35.70	NE	<0.000095	<0.000095	<0.0095 UJ	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.000095	<0.000095	<0.0095 UJ	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095 UJ
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00016 U	<0.00013 U	<0.00021 U	0.00013	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.00029 U	<0.011	<0.0054	<0.00011	<0.00021 U	<0.0054	<0.011	<0.0054	<0.011
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.000039 U	<0.00004 U	<0.000067 U	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.00033 U	<0.011	<0.0056	<0.00011	<0.000051 U	<0.0056	<0.011	<0.0056	<0.011
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011 UJ	<0.00011	<0.011	<0.011	<0.0053	<0.0019 U	0.00029 J	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.00077 U	<0.011
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	0.000026 J	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.00011	<0.00011	<0.011	<0.00011	0.00012 J	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.00062 U	<0.011 UJ
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01 UJ	<0.0052 UJ	<0.0001	<0.0001	<0.0021	<0.01 UJ	<0.0052	<0.01 UJ
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.00011	<0.00011	<0.01	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.01	<0.01 UJ	<0.0051	<0.00039 U	<0.0051	<0.01	<0.0051	<0.00011	<0.00011	<0.002	<0.01	<0.0051	<0.01
	MW12-ROX-070914	7/9/2014	41.92 - 51.92	41.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-13	MW13-ROX-110311	11/3/2011	25.57 - 35.57	22.85	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011 UJ
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.00011	0.00014	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0087 J J	<0.011	<0.0053	<0.0007 U	<0.0007 U	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	MW13-ROX-080812	8/8/2012		26.67	NE	0.0001 J	0.00019	<0.011 UJ	0.000063 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.00011	<0.000063 U	<0.011	<0.000058 U	<0.00014 U	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00079 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW13-ROX-100913	10/9/2013		26.94	NE	0.000098 J	0.000071 J	<0.01	<0.0001	0.000022 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00068 J	<0.0052	<0.01	<0.0052	0.000034 J	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	MW13-ROX-041114	4/11/2014		30.15	NE	0.00013	0.000066 J	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	MW13-ROX-070714	7/7/2014	25.57 - 35.57	28.49	NE	<0.00011	0.000061 J	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.00011	<0.00011 UJ	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW14-ROX-051012	5/10/2012		NM	NE	0.00046	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00042 U	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	0.00084 J	<0.0052	<0.01
	MW14-ROX-080312	8/3/2012		NM	NE	0.00095	0.00015	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00049 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00076 J	0.00096 J	<0.0053	<0.011
	MW14-ROX-103112	10/31/2012		32.02	NE	0.00074	0.00008 J	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.0003 J	<0.01	<0.005	<0.01 UJ
	MW14-ROX-011813	1/18/2013		33.05	NE	0.00092	0.00013	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	MW14-ROX-041113	4/11/2013		33.31	NE	0.00068	0.000098 J	<0.011	<0.00011	0.00013	<0.00011	0.000054	0.000053 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW14-ROX-071213	7/12/2013		30.36	NE	0.00046 B	<0.000062 U	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00066 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW14-ROX-101013	10/10/2013		30.80	NE	0.00065	0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	0.00019 J	<0.011	<0.0057	<0.011
	MW14-ROX-012914	1/29/2014		33.67	NE	0.00062	0.00012	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00056 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	MW14-ROX-041114	4/11/2014		34.30	NE	0.00037	0.000089 J	<0.012	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.012	<0.012	<0.006	<0.00069 U	<0.006	<0.012	<0.006	<0.00011	<0.00011	<0.0024	<0.012	<0.006	<0.012
	MW14-ROX-070714	7/7/2014	33.42 - 43.42	32.82	NE	0.00033	0.000063 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00048 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0021 UJ	<0.0052 UJ	<0.01 UJ	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0021 UJ	<0.01 UJ	<0.0052 UJ	<0.01 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00061 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012
	MW16-ROX-071014	7/10/2014	37.06 - 47.06	43.15	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	0.00018	<0.0001	<0.01 UJ	0.00002 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	0.0031 J	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	0.0146
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	0.00018	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.0033 J	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	0.0149
	MW22-ROX-040513	4/5/2013		42.23	NE	0.00018	0.000049 J J	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0269
	MW22-ROX-071113	7/11/2013		39.35	NE	0.00026	0.00048	<0.011	0.000035 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0017 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.104
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	0.00018	0.00047	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.0021 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	0.0978
	MW22-ROX-100913	10/9/2013		40.39	NE	0.00019	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0863
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	0.00018	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0826
	MW22-ROX-012014	1/20/2014		42.49	NE	0.00015	<0.00011	<0.053	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.053	<0.053	<0.027	<0.011	<0.027	<0.053	<0.027	<0.00011	<0.00011	<0.011	<0.053	<0.027	0.0399 J
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	0.00014	<0.00011	<0.054	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.054	<0.054	<0.027	<0.011	<0.027	<0.054	<0.027	<0.00011	<0.00011	<0.011	<0.054	<0.027	0.0364 J
	MW22-ROX-041014	4/10/2014		43.15	NE	0.0001 J	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.0316 J
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	0.00012	<0.00011	<0.056	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.056 UJ	<0.056	<0.028	<0.011	<0.028	<0.056	<0.028	<0.00011	<0.00011	<0.011	<0.056	<0.028	0.032 J
	MW22-ROX-071414	7/14/2014	37.88 - 47.88	41.85	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00045 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0281
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0001	<0.0001 UJ	<0.01 UJ	<0.0001	<0.000052	<0.0001	0.000057	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	MW24-ROX-071113	7/11/2013		40.35	NE	0.000024 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	MW24-ROX-071114	7/10/2014	38.89 - 48.89	42.97	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-54	P54-ROX-110311	11/3/2011	38.00 - 63.00	35.49	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	P54-ROX-011712	1/17/2012		37.17	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.000024 U	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P54-ROX-050412	5/4/2012		38.77	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0045 J	<0.01	<0.0051	0.0133	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P54-ROX-080212	8/2/2012		38.95	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P54-ROX-011113	1/11/2013		41.56	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P54-ROX-041013	4/10/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P54-ROX-071113	7/11/2013		39.07	NE	0.000032 J	0.000016 J	<0.01	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00052 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P54-ROX-100813	10/8/2013		39.94	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
	P54-ROX-011514	1/15/2014		42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00058 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	P54-ROX-071114	7/10/2014	38.00 - 63.00	41.71	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0022	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	P55-ROX-011912	1/19/2012		41.09	NE	0.00017	<0.0001	<0.01	<0.0001	<0.000052	0.000022 J	<0.000052	<0.0001	<0.0001		<0.01 UJ	<0.0052	<0.0021	<0.00048 U	<0.01	<0.0052	<0.0001	<0.0001	0.00035 J	<0.01	<0.0052	<0.01
	P55-ROX-011912-D	1/19/2012		41.09	NE	0.00015	<0.00011	<0.011	<0.00011	<0.000054	0.000067 J	0.000061	0.00011	0.000071 J		<0.011 UJ	<0.0054	<0.0022	<0.00035 U	<0.011	<0.0054	<0.00011	0.000086 J	0.00033 J	<0.011	<0.0054	<0.011
	P55-ROX-050912	5/9/2012		42.44	NE	0.00036	0.000095 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P55-ROX-012113	1/21/2013	40.43 - 50.53	43.60	NE	0.00069	0.00019	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.05	<0.02	<0.01	<0.006	<0.01	<0.02	<0.01	<0.0001	<0.0001	0.001 J	<0.01	<0.01	0.004 J
	P55-ROX-012113	1/21/2013		43.60	NE	0.00054	0.00014	<0.01 UJ	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.001 J	<0.01	0.00073 J	0.0024 J
	P55-ROX-041513	4/15/2013		43.63	NE	0.00073	0.00021	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.0017 J	<0.01	<0.0052	<0.01
	P55-ROX-071613	7/16/2013		40.06	NE	0.00066	0.0002	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.00066 U	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	0.0024 J
	P55-ROX-101013	10/10/2013		41.67	NE	0.00071	0.00019	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	0.0006 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.0016 J	<0.011	<0.0055	0.0014 J
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	0.0007	0.00013	<0.01 UJ	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P56-ROX-011912	1/19/2012		41.81	NE	0.00064	<0.0001	<0.01	0.00011	<0.000051	0.000021 J	<0.000051	<0.0001	<0.0001		<0.01 UJ	<0.0051	<0.00066 U	<0.00053 U	<0.01	<0.0051	<0.0001	<0.0001	0.00064 J	<0.01	<0.0051	<0.01
	P56-ROX-050812	5/8/2012		43.09	NE	0.00057	0.0001	<0.01	<0.0001	<0.00011 U	<0.00012 U	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P56-ROX-080612	8/6/2012		43.60	NE	0.00058	0.000087 J		0.00013	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00051 J	<0.01	<0.0014 U	<0.01
	P56-ROX-103112	10/31/2012		44.80	NE	0.0011	<0.0001	<0.01 UJ	0.00012	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00066 J	<0.01	<0.0051	<0.01 UJ
	P56-ROX-011713	1/17/2013		45.65	NE	0.00039	0.000083 J	<0.01 UJ	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0044	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P56-ROX-041213	4/12/2013		46.12	NE	0.00053	0.000088 J	<0.011	0.0001 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P56-ROX-071513	7/15/2013		43.25	NE	0.00065	0.00013	<0.011	0.00014	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	<0.00011	<0.00011	0.00075 J	<0.011	<0.0055	0.0086 J
	P56-ROX-101013	10/10/2013		44.48	NE	0.0006	0.000092 J	<0.011	0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	0.00059 J	<0.011	<0.0055	0.0042 J
	P56-ROX-012214	1/22/2014		46.35	NE	0.00055	<0.0001	<0.01	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00047 J	<0.01	<0.0052	<0.01
	P56-ROX-041414	4/14/2014		47.32	NE	0.00051	0.000081 J	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	0.00067 J	<0.012	<0.0059	<0.012
	P56-ROX-070814	7/8/2014	40.82 - 65.82	45.97	NE	0.00035	0.000081 J	<0.011 UJ	0.0001 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00049 J	<0.011	<0.0056	<0.011
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	0.00055	<0.00054	<0.011 UJ	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00054	<0.00054	<0.0054	<0.011	<0.0054	<0.011
	P57-ROX-021312	2/13/2012		42.13	NE	0.00056	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00043 J	<0.00043 U	<0.01	<0.0051	<0.0001	<0.0001	0.00087 J	<0.01	<0.0051	0.0045 J
	P57-ROX-050712	5/7/2012		42.92	NE	0.00033	<0.0001	<0.01	<0.0001	0.00011	0.00012	<0.000052	<0.0001	<0.0001	<0.01	<0.01	0.0008 J	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P57-ROX-080612	8/6/2012		43.53	NE	0.00056	0.0001		0.000073 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.00079 J	<0.01	<0.00096 U	0.0029 J
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	0.00051	0.0001		0.000064 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.00073 J	<0.01	<0.001 U	0.0029 J
	P57-ROX-110512	11/5/2012		44.98	NE	0.00053	<0.0001	<0.01	0.000061 J	<0.00005	<0.0001	<0.00005	0.00005 J	<0.0001	<0.01 UJ	<0.01	<0.005	0.00052 J	<0.005	<0.01	<0.005	<0.0001	0.000049 J	0.0006 J	<0.01	<0.005	<0.01 UJ
	P57-ROX-012913	1/29/2013		45.92	NE	0.00061	0.00013	<0.012 UJ	0.000076 J	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	0.0023 J J
	P57-ROX-041113	4/11/2013		46.29	NE	0.00063	0.00012	<0.01	0.000073 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P57-ROX-071613	7/16/2013		43.38	NE	0.00047	0.0001 J	<0.011	0.000077 J	0.00012	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056 UJ	<0.0022	<0.0056	<0.011	<0.0056 UJ	<0.00011	<0.00011	0.00088 J	<0.011	<0.0056	0.002 J
	P57-ROX-101413	10/14/2013		44.38	NE	0.00045	0.000071 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0012 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00082 J	<0.011	<0.0054	0.0029 J
	P57-ROX-020314	2/3/2014		46.57	NE	0.00041	0.000075 J	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00067 J	<0.011	<0.0053	<0.011
	P57-ROX-041514	4/15/2014		46.70	NE	0.00036	0.000074 J	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0007 J	<0.011	<0.0056	<0.011 UJ
	P57-ROX-070814	7/8/2014	40.46 - 65.46	45.95	NE	0.00029	0.000069 J	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0007 J	<0.011	<0.0053	<0.011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	0.00029	0.000075 J	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00071 J	<0.011	<0.0054	<0.011

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	0.0011	<0.000097	<0.0097 UJ	<0.000097	<0.000049	<0.000097	<0.000049	<0.000097	<0.000097	<0.0097	<0.0097	<0.0049	0.003	<0.0049	<0.0097	<0.0049	<0.000097	<0.000097	<0.0049	<0.0097	<0.0049	<0.0097
	P58-ROX-011912	1/19/2012		39.73	NE	0.001	<0.00011	<0.011	<0.00011	0.000039 J	0.000051 J	0.000032 J	0.000047 J	<0.00011		<0.011 UJ	<0.0053	0.0361 J	<0.00059 U	<0.011	<0.0053	<0.00011	<0.00011	0.0026 J	<0.011	<0.0053	<0.011
	P58-ROX-011912-D	1/19/2012		39.73	NE	0.00092	<0.00011	<0.011	<0.00011	0.000036 J	0.000036 J	<0.000053	<0.00011	<0.00011		<0.011 UJ	<0.0053	0.024 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0023 J	<0.011	<0.0053	<0.011
	P58-ROX-050712	5/7/2012		40.90	NE	0.00059	0.00019	<0.01	0.00057 J	0.00017	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.0017 J	<0.01	<0.0051	<0.01
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	0.00044	0.00015	<0.01	<0.0001 UJ	0.00015	0.000032 J	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P58-ROX-080612	8/6/2012		41.63	NE	0.00086	0.00029		0.000094 J	0.00024	0.00011	0.000064	0.000043 J	<0.0001	<0.01	<0.01	<0.005	0.00043 J	<0.005	<0.01	<0.005	0.0001	<0.0001	0.0022	<0.01	<0.005	<0.01
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	0.00098	0.0003		0.00011	0.00021	0.000098 J	0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00042 J	<0.005	<0.01	<0.005	0.000099 J	<0.0001	0.0025	<0.01	<0.005	<0.01
	P58-ROX-110612	11/6/2012		43.09	NE																						
	P58-ROX-121012	12/10/2012		43.09	NE	0.00093	0.00024	<0.011	0.00083	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0103	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.002 J	<0.011	<0.0054	<0.011
	P58-ROX-012213	1/22/2013		44.21	NE	0.0011	0.0006	<0.011 UJ	<0.00011	0.00038	0.00022	0.00012	0.00012	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00039	0.000068 J	0.0038	<0.011	<0.0054	<0.011
	P58-ROX-041113	4/11/2013		44.40	NE	0.0015	0.0005	<0.011	<0.00011	0.0003	0.00019	0.000095	0.000074 J	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.00032	<0.00011	0.0044	<0.011	<0.0054	<0.011
	P58-ROX-071613	7/16/2013		41.49	NE	0.00076	0.00027	<0.011	0.000096 J	0.00018	0.000073 J	0.000045 J	<0.00011	<0.00011	<0.011	<0.011	<0.0055 UJ	<0.0022	<0.0055	<0.011	<0.0055 UJ	0.00012	<0.00011	0.0025	<0.011	<0.0055	<0.011
	P58-ROX-101413	10/14/2013		42.19	NE	0.00084	<0.00011	<0.011	<0.00011	<0.000054	0.000067 J	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0099	<0.0054	<0.011	<0.0054	0.000099 J	<0.00011	0.0024	<0.011	<0.0054	0.0016 J
	P58-ROX-020314	2/3/2014		44.66	NE	0.00061	0.00018	<0.01	<0.0001	0.000035 J	0.000047 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000079 J	<0.0001	0.0016 J	<0.01	<0.0052	<0.01
	P58-ROX-041514	4/15/2014		45.66	NE	0.0011	0.00072	0.0028 J	0.00071	0.00082	0.00063	0.00072	0.00071	0.00071	<0.011 UJ	0.0051 J	0.0015 J	<0.00099 U	0.00091 J	0.0044 J	0.0043 J	0.00073	0.00075	0.0023	<0.011 UJ	0.00077 J	<0.011 UJ
	P58-ROX-071814	7/18/2014	40.21 - 65.21	43.80	NE	0.00067	0.00021	<0.011	<0.00011	0.000083	0.000086 J	0.000045 J	0.000035 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	0.00015	<0.00011	0.0018 J	<0.011	<0.0055	<0.011
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	0.00077	0.00012	<0.011 UJ	0.00046	0.00019	<0.00011	0.000073	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0028	<0.0053	<0.011	<0.0053	0.00034	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	P59-ROX-011912	1/19/2012		42.88	NE	0.00036	<0.00011	<0.011	0.00025	0.000055 J	0.000038 J	0.000037 J	0.000052 J	<0.00011		0.0011 J	<0.0057	<0.00079 U	<0.0011 U	<0.011	<0.0057	0.000085 J	<0.00011	<0.0057	<0.011	<0.0057	0.0133
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	0.00037	<0.0001	<0.01	0.00015	0.00005 J	0.000029 J	0.000027 J	<0.0001	<0.0001		0.00091 J	<0.0051	<0.002	<0.00061 U	<0.01	<0.0051	0.000074 J	<0.0001	0.00042 J	<0.01	<0.0051	0.0108
	P59-ROX-050912	5/9/2012		44.11	NE	0.00022	<0.0001	<0.01	0.000095 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0161	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	0.0085 J
	P59-ROX-080212	8/2/2012		44.07	NE	0.00042	0.0001 J	<0.011 UJ	0.00014	0.00021	0.000036 J	0.000047 J	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00036 J	<0.011	<0.0053	0.0088 J
	P59-ROX-110212	11/2/2012		45.98	NE	0.00043	<0.00011	<0.011	0.000086 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00031 J	<0.011	<0.0053	0.0102 J J
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	0.00042	<0.0001	<0.01	0.000084 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00029 J	<0.01	<0.0052	0.0092 J J
	P59-ROX-013013	1/30/2013		46.60	NE	0.00047	<0.0001	<0.01 UJ	0.00012	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0041	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	0.0581
	P59-ROX-041213	4/12/2013		46.95	NE	0.00057	0.00013	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0831 J	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0919
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	0.00058	0.00012	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0518 J	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0914
	P59-ROX-071613	7/16/2013		44.13	NE	0.00035	0.000071 J	<0.011	0.000092 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054 UJ	<0.0022	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00041 J	<0.011	<0.0054	0.0583
	P59-ROX-101013	10/10/2013		45.50	NE	0.00055	0.000084 J	<0.011	0.00021	0.000068	<0.00011	0.000039 J	<0.00011	<0.00011	<0.011 UJ	0.0009 J	<0.0054	0.00069 J	<0.0054	<0.011	<0.0054	0.000088 J	<0.00011	<0.0022	<0.011	<0.0054	0.078
	P59-ROX-020314	2/3/2014		47.35	NE	0.00046	<0.0001	<0.01	0.00018	0.000035 J	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	0.000046 J	<0.0001	<0.0021	<0.01	<0.0052	0.147 J
	P59-ROX-041514	4/15/2014		48.60	NE	0.0013	<0.00011	<0.011	0.00018	0.00006	0.000042 J	0.000044 J	0.000035 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.0001 J	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ
	P59-ROX-070814	7/8/2014	47.91 - 72.91	47.69	NE	0.0015	0.000091 J	<0.011 UJ	0.00012	0.000029 J	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	0.000027 J	<0.00011	<0.0023	<0.011	<0.0057	0.17
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	0.0018	<0.0001	<0.01	<0.0001	<0.000095 U	<0.0001	<0.000088 U	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.00011 U	<0.0001	<0.005	<0.01	<0.005	<0.01
	P66-ROX-051012	5/10/2012		32.48	NE	0.00078	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	0.000024 J	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.00053 U	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.0018 J	<0.01	<0.005	<0.01
	P66-ROX-080312	8/3/2012		30.51	NE	0.00073	0.00025	<0.011 UJ	<0.00011	0.00018	0.000066 J	0.00008	0.000066 J	<0.00011	<0.011	<0.011	<0.0053	0.00075 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P66-ROX-103112	10/31/2012		34.75	NE	0.00078	0.00022	<0.01 UJ	0.0006	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.0019 J	<0.01	<0.005	<0.01 UJ
	P66-ROX-011813	1/18/2013		35.70	NE	0.00074	0.00034	<0.011 UJ	<0.000055 U	<0.000053	<0.00011	<0.000028 U	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0018 J	<0.011	<0.0053	<0.011
	P66-ROX-041113	4/11/2013		36.03	NE	0.0011	0.00028	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.0025	<0.011	<0.0053	<0.011
	P66-ROX-071213	7/12/2013		33.20	NE	0.00087	<0.00011	<0.011	<0.0002 U	0.00018 B	<0.00015 U	0.00017 B	<0.00019 U	0.00015	<0.011 UJ	<0.011	<0.0056	0.0124	<0.0056	<0.011	<0.0056	0.00017	0.00017	0.0016 J	<0.011	<0.0056	<0.011
	P66-ROX-101013	10/10/2013		33.66	NE	0.00066	0.0002	<0.011	<0.00011	0.000028 J	<0.00011	<0.000056	0.000036 J	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.0016 J	<0.011	<0.0056	<0.011
	P66-ROX-110713	11/7/2013		33.66	NE																						
	P66-ROX-012914	1/29/2014		36.39	NE	0.00099	0.00032	<0.011	<0.00011	0.000039 J	0.000044 J	0.000048 J	0.000052 J	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	0.000047 J	0.000035 J	0.0019 J	<0.011	<0.0053	<0.011
	P66-ROX-041114	4/11/2014		37.10	NE	0.00058	0.00017	<0.012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	<0.00068 U	<0.0058	<0.012	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012
	P66-ROX-070714	7/7/2014	34.72 - 59.72	35.60	NE	0.00033	0.00016	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	0.00033	0.00012	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	P74-ROX-011912	1/19/2012		38.77	NE	<0.000095	<0.000095	<0.0095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095		<0.0095 UJ	<0.0048	<0.0019	<0.00043 U	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095
	P74-ROX-050712	5/7/2012		39.92	NE	<0.0001	<0.0001	<0.01	<0.0001	0.00012	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P74-ROX-080612	8/6/2012		40.71	NE	0.00016	0.000056 J		0.000041 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.0012 U	0.0039 J
	P74-ROX-110112	11/1/2012		41.72	NE	0.00023	<0.0001	<0.01 UJ	0.000044 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00044 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00031 J	0.001 J	<0.0052	0.008 J J
	P74-ROX-011713	1/17/2013		42.65	NE	0.00019	0.0001	<0.01 UJ	0.000063 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	0.0028 J	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0021 J
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P74-ROX-071513	7/15/2013		40.11	NE	<0.000063 U	<0.00011	<0.011	0.000032 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	0.0013 J	<0.0054	<0.011
	P74-ROX-101413	10/14/2013		41.72	NE	0.0002	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00097 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.00033 J	0.0012 J	<0.0054	0.0019 J
	P74-ROX-012414	1/24/2014		43.35	NE	0.00023	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00063 J	0.00097 J	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P74-ROX-041514	4/15/2014		44.74	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.012	<0.012	<0.0059	<0.0024	<0.0059	<0.012	<0.0059	<0.00012	<0.00012	<0.0024	<0.012	<0.0059	<0.012 UJ
	P74-ROX-070814	7/8/2014	44.43 - 69.43	43.02	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
						Screening Values (mg/L)	0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93A	P93A-ROX-102611	10/26/2011	48.17 - 63.17	39.43	NE	0.00024	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0075	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	P93A-ROX-012012	1/20/2012		41.66	NE	0.00014	<0.000095	<0.0095 UJ	0.000032 J	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.006 U	<0.00053 U	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.0001 U	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0029	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93A-ROX-080912	8/9/2012		43.66	NE	0.00015	<0.00011	<0.011	0.000048 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0032 J	<0.011	<0.0054	0.0153	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.00022 U	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	0.00027 J	<0.01	<0.0052	<0.01
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	0.00029 B	<0.0001	<0.01	0.000061 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93A-ROX-012313	1/23/2013		45.89	NE	0.00016	<0.0001	<0.01 UJ	0.000028 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0099	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	0.00014	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.011	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052 UJ	<0.01
	P93A-ROX-041113	4/11/2013		46.29	NE	0.00023	<0.0001	<0.01	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	0.00021	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.00011	0.000032 J	<0.011	0.00003 J	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00024 J	<0.011	<0.0056	<0.011
	P93A-ROX-101113	10/11/2013		44.18	NE	0.00017	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93A-ROX-012914	1/29/2014		46.53	NE	0.00022	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P93A-ROX-041714	4/17/2014		47.41	NE	0.00013	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93A-ROX-071814	7/18/2014	48.17 - 63.17	45.70	NE	0.00017	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.0041	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.00037 U	<0.011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	0.00016	<0.00011	<0.011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	<0.0023	<0.0057	<0.011	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011
P-93B	P93B-ROX-102611	10/26/2011	74.60 - 76.60	39.48	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0103	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.000095	0.000028 J	<0.0095 UJ	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.0033 U	<0.00033 U	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.00011	0.000087 J	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0036	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.00051 U	<0.011
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0001	0.000073 JB	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0017 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.000047 U	0.000058 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00057 J	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93B-ROX-012313	1/23/2013		45.89	NE	0.00014	0.000072 J	<0.011 UJ	0.00013	0.00022	0.00011	0.00013	0.00012	0.00012	<0.011	<0.011	<0.0053	0.0055	0.0032 J	0.0013 J	<0.0053	0.00012	0.00012	<0.0021	<0.011	<0.0053 UJ	0.0021 J
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.0001	0.000065 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0001	0.000091 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-012814	1/28/2014		46.58	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.00072 J	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0012 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	0.0015 J	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00045 J	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93B-ROX-071714	7/17/2014	74.60 - 76.60	45.75	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
P-93C	P93C-ROX-102611	10/26/2011	94.26 - 96.26	39.36	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	0.000019 J	0.000027 J	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0096 U	<0.00037 U	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.00012 U	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.008	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	P93C-ROX-080912	8/9/2012		43.57	NE	0.000089 J	0.000022 J	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0043	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.00046 U	<0.01
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00081 J	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	0.0049	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055 UJ	<0.011
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.000045 U	<0.00011	<0.011	0.000021 J	<0.000056	0.00015	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93C-ROX-080813	8/8/2013		43.31	NE																						
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93C-ROX-071714	7/17/2014	94.26 - 96.26	45.61	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
			Screening Values (mg/L)			0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
P-93D	P93D-ROX-102711	10/27/2011	125.75 - 127.75	39.59	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.0001 U	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
	P93D-ROX-080812	8/8/2012		43.71	NE	0.00017	0.000051 J	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.0021 U	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93D-ROX-110812	11/8/2012		NM	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.000026 U	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	0.00057 J	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.01 UJ	<0.005 UJ	<0.0001	<0.0001	<0.002	<0.01 UJ	<0.005	<0.01 UJ
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0045	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0005 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P93D-ROX-071714	7/17/2014	125.75 - 127.75	45.78	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.000095	<0.000095	<0.0095 UJ	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	0.0053	<0.0048	<0.0095	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095
	P114-ROX-012012	1/20/2012		27.17	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000051	0.000055 J	0.00005 J	0.000058 J	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.0013 U	<0.00044 U	<0.01	<0.0051	<0.0001	0.000053 J	<0.0051	<0.01	<0.0051	<0.01
	P114-ROX-050912	5/9/2012		28.09	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0015 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0001	0.000029 J	<0.01	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0039	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0001	<0.0001	<0.01 UJ	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P114-ROX-012313	1/23/2013		30.22	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0059	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053 UJ	<0.011
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0001	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0052	0.0023	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	P114-ROX-071813	7/18/2013		27.22	NE	0.00013 B	<0.00011	<0.011	0.00011	0.000045 J	0.000034 J	0.000064	0.000067 J	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	0.000073 J	<0.0022	<0.011	<0.0055	<0.011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.00011	<0.00011	<0.011	0.00013	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P114-ROX-012814	1/28/2014		32.11	NE	<0.00011	<0.00011	<0.011	0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00066 J	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	P114-ROX-042114	4/21/2014		32.22	NE	0.00011	<0.0001	<0.01	0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P114-ROX-071814	7/18/2014	32.67 - 52.67	30.87	NE	0.000082 J	<0.0001	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	0.000023 J	<0.0001	<0.01	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00065 J	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	0.0016 J	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	0.0033 J	<0.011
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011 UJ
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	0.00025	0.000059 J	<0.01 UJ	0.000074 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005 UJ	<0.01
	ROST3MW-ROX-040513	4/5/2013				0.00016	<0.00011 UJ	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	0.00029	<0.00011	<0.011	0.000091 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.00061 J	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	0.00025 J	<0.011 UJ	<0.0054	0.0016 J J
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	0.0001 J	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.011 UJ	<0.0054 UJ	<0.00011	<0.00011	<0.0022	<0.011 UJ	<0.0054	<0.011 UJ
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.011 UJ	<0.0053 UJ	<0.00011	<0.00011	<0.0021	<0.011 UJ	<0.0053	<0.011 UJ
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.00006	<0.00012	<0.00006	<0.00012	<0.00012	<0.012 UJ	<0.012	<0.006	<0.0024	<0.006	<0.012	<0.006	<0.00012	<0.00012	<0.0024	<0.012	<0.006	<0.012
	ROST3MW-ROX-071414	7/14/2014	37.81 - 47.81	41.88	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	0.00027	0.000072 J	<0.01	0.00011	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.00027 J	<0.01	<0.005	<0.01
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	0.00039 B	<0.00011	<0.011	<0.00018 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	0.00042 J	<0.0053	<0.00051 U	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	0.00036 J	<0.011	0.0012 J	0.003 J
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	0.000054 J	<0.0001	<0.01 UJ	0.00005 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0045	<0.0052	<0.01	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.00011	<0.00011	<0.011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	0.000066 J	0.000018 J	<0.011	0.000033 J	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.011	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	0.00019	0.000073 J	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	0.0032	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	0.00012	<0.00011	<0.011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.00012	<0.00012	<0.012	<0.00012	<0.000059	<0.00012	<0.000059	<0.00012	<0.00012	<0.01 UJ	<0.012	<0.0059	<0.0024	<0.0059	<0.01 UJ	<0.005 UJ	<0.00012	<0.00012	<0.0024	<0.01 UJ	<0.0059	<0.01 UJ
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.00011	<0.00011	<0.011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011
	ROST4C-ROX-071114	7/10/2014	34.95 - 44.95	42.22	NE	<0.0001	<0.0001	<0.011	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.011	<0.011	<0.0053	0.0007 J	<0.0053	<0.011	<0.0053	<0.0001	<0.0001	<0.0021	<0.011	<0.0053	<0.011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Acenaphthene	Acenaphthylene	Aniline	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl alcohol	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	2-Chlorophenol	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
				Screening Values (mg/L)		0.42 [1]	0.21 [3]	0.023 [3]	2.1 [1]	0.00013 [1]	0.0002 [1]	0.00018 [1]	0.21 [3]	0.00017 [1]	28 [1]	0.7 [3]	0.01 [2]	0.006 [2]	1.4 [2]		0.035 [2]	0.012 [1]	0.0003 [1]	0.007 [3]	0.021 [2]	5.6 [1]	0.14 [2]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	0.00079	0.00012	<0.01 UJ	0.00017	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0025	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	0.0109
	T12-ROX-011912	1/19/2012		41.0	NE	0.00047	<0.00011	<0.011	0.00014	<0.000056	0.000032 J	0.000035 J	0.000069 J	<0.00011		<0.011 UJ	<0.0056	<0.0017 U	<0.00062 U	<0.011	<0.0056	<0.00011	0.00005 J	0.00029 J	<0.011	<0.0056	0.0095 J
	T12-ROX-050912	5/9/2012		42.62	NE	0.00032	<0.0001	<0.01	0.000081 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.01	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01
	T12-ROX-080212	8/2/2012		41.92	NE	0.00044	0.000082 J	<0.011 UJ	0.0001 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	0.0003 J	<0.011	<0.0054	0.0153
	T12-ROX-110512	11/5/2012		43.91	NE	0.00044	<0.0001	<0.01	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	0.00054 J	<0.005	<0.01	<0.005	<0.0001	<0.0001	0.00029 J	<0.01	<0.005	0.0028 J J
	T12-ROX-011813	1/18/2013		44.50	NE	0.0005	0.000093 J	<0.011 UJ	<0.00013 U	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.011	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	0.0065 J
	T12-ROX-041513	4/15/2013		44.99	NE	0.00063	0.00009 J	<0.01	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	0.00048 J	<0.01	<0.0051	<0.01
	T12-ROX-071613	7/16/2013		42.33	NE	0.00055	0.0001 J	<0.011	0.00015	0.00013	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	0.001 J	<0.0054 UJ	<0.0044 U	<0.0054	<0.011	<0.0054 UJ	<0.00011	<0.00011	0.00042 J	<0.011	<0.0054	0.0096 J
	T12-ROX-101513	10/15/2013		43.73	NE	0.00036	<0.00011	<0.011	0.00012	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	0.000028 J	<0.00011	0.00029 J	<0.011	<0.0054	0.0047 J
	T12-ROX-012414	1/24/2014		45.26	NE	0.0005	<0.0001	<0.01	0.00014	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.01	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	0.0073 J
	T12-ROX-041514	4/15/2014		46.72	NE	0.00037	<0.00011	<0.011	0.00012	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<0.0056	<0.011	<0.0056	<0.00011	<0.00011	0.00031 J	<0.011	<0.0056	<0.011 UJ
	T12-ROX-070814	7/8/2014	46.72 - 72.72	45.13	NE	0.00024	<0.00011	<0.011 UJ	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.011	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																					
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																					
MW-01	MW1-ROX-120511	12/5/2011	43.41 - 58.41	37.10	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW1-ROX-011612	1/16/2012	48.80 - 58.80	37.75	NE	<0.0051	<0.0051	<0.0051	<0.01	0.00011	0.000059 J	<0.0051		<0.00012 U	<0.0051	<0.0002	0.000098 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000098	<0.0051	0.00009 J
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.0051	<0.00054 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.0053	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J	<0.0053	<0.00011
	MW1-ROX-102612	10/26/2012		41.22	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW1-ROX-121712	12/17/2012		41.22	NE																						
	MW1-ROX-011013	1/10/2013		41.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000021 U	<0.0052	<0.0001
	MW1-ROX-040913	4/9/2013		42.55	NE	<0.0053 UJ	<0.0012 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW1-ROX-070813	7/8/2013		39.56	NE	<0.0051	<0.0051	<0.0051	<0.01	0.000033 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000043 U	<0.0051	<0.0001
	MW1-ROX-100313	10/3/2013		40.28	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW1-ROX-011414	1/14/2014		42.77	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000031 J	<0.0053 UJ	<0.00011
	MW1-ROX-040714	4/7/2014		43.28	NE	<0.0054	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000023 U	<0.0057 UJ	<0.00011
	MW1-ROX-070914	7/9/2014	48.80 - 58.80	42.09	NE	<0.0054	0.0016 JB	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.000085 J	0.00012 JB J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-02	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0141	0.0299	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005 UJ	<0.0001
	MW2-ROX-011612	1/16/2012		38.89	NE	<0.0053	0.00056 J	<0.0053	<0.011	<0.00011	0.000052 J	<0.0053		<0.000054 U	<0.0053	0.0107	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000066	<0.0053	<0.00011
	MW2-ROX-050112	5/1/2012		40.25	NE	<0.0052	<0.0005 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0105	0.021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW2-ROX-073012	7/30/2012		40.60	NE	<0.0053	<0.00047 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0097	0.0229	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00004 J	<0.0053	0.000039 J
	MW2-ROX-102612	10/26/2012		42.35	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000061 J	0.00011	<0.0054		<0.00011	<0.0054	0.0091	0.0182	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	<0.0054	0.000046 J
	MW2-ROX-011113	1/11/2013		42.94	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	0.00004 J	<0.00011	<0.0056		<0.00011	<0.0056	0.008	0.0162	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000044 J	<0.0056	0.000039 J
	MW2-ROX-040913	4/9/2013		43.70	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.012	0.0256	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-071113	7/11/2013		40.82	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0123 J	0.0249	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000051 U	<0.0055 UJ	<0.00011
	MW2-ROX-100813	10/8/2013		41.73	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.009	0.0201	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW2-ROX-012014	1/20/2014		44.00	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0094	0.0208	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000043 U	<0.0053	<0.00011
	MW2-ROX-041014	4/10/2014		44.66	NE	<0.006	<0.00046 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.0083	0.0193	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012
	MW2-ROX-071414	7/14/2014		43.13	NE	<0.0054	<0.00045 U	<0.0054	<0.011	0.00012	0.00014	<0.0054		<0.00011	<0.0054	0.01	0.0215	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00017 U	<0.0054	0.000096 J
MW-03	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW3-ROX-112911-DUP	11/29/2011		24.06	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW3-ROX-011612	1/16/2012		24.93	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000098 J	<0.0001	<0.0052		<0.00015 U	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000095	<0.0052	0.000078 J
	MW3-ROX-043012	4/30/2012		26.19	NE	<0.0052	<0.00047 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW3-ROX-072712	7/27/2012		26.60	NE	<0.0053	<0.00066 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW3-ROX-102512	10/25/2012		28.39	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW3-ROX-010913	1/9/2013		29.35	NE	<0.005	0.0025 J	<0.005	<0.01	0.000047 J	0.000052 J	<0.005		<0.0001	<0.005	<0.0002	0.000081 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000068	<0.005 UJ	0.000036 J
	MW3-ROX-040813	4/8/2013		29.74	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW3-ROX-071113	7/11/2013		26.32	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00044 J	0.00038	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	<0.000039 U	<0.0054 UJ	<0.000072 U
	MW3-ROX-100813	10/8/2013		27.38	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00013 J	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW3-ROX-011614	1/16/2014		29.91	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011
	MW3-ROX-040914	4/9/2014		30.50	NE	<0.0056	<0.00056 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000019 U	<0.0056	<0.00011
	MW3-ROX-071114	7/10/2014	34.67 - 44.67	29.05	NE	<0.0054	<0.00028 U	<0.0054	<0.011	<0.0001	<0.0001	<0.0054		<0.0001	<0.0054	0.000067 J	<0.0002	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00003 U	<0.0054	<0.0001
MW-04	MW4-ROX-121511	12/15/2011	42.63 - 57.63	33.99	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.00043 U	<0.0052	0.00028	0.00026	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.0052	0.00077 J	<0.0052	<0.01	0.000047 J	<0.0001	<0.0052		<0.00018 U	<0.0052	0.0006	0.00059	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000057	<0.0052	0.000065 J
	MW4-ROX-050312	5/3/2012		37.45	NE	<0.005	<0.00062 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00032	0.00025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-050312-DUP	5/3/2012		37.45	NE	<0.0051	<0.00061 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.0051	0.00075 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00054	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0018 J	<0.0001
	MW4-ROX-072512-Dup	7/25/2012		37.63	NE	<0.0051	0.00057 J	<0.0051	<0.01	<0.000047 U	<0.0001	<0.0051		<0.0001	<0.0051	0.00049	0.0004 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000031 U	0.0023 J	<0.0001
	MW4-ROX-102912	10/29/2012		39.45	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00025	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW4-ROX-011113	1/11/2013		40.20	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	0.0608	<0.00011
	MW4-ROX-011113-DUP	1/11/2013		40.20	NE	<0.006 UJ	<0.006	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	0.000099 J	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	0.0665	<0.00012
	MW4-ROX-030413	3/4/2013		40.20	NE																						
	MW4-ROX-040913	4/9/2013		40.90	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00022	0.000082 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000054	0.11	<0.00011
	MW4-ROX-040913-DUP	4/9/2013		40.90	NE	<0.0053 UJ	<0.00062 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000076 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.103	<0.00011
	MW4-ROX-071713	7/17/2013		37.61	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000052 J	<0.0055	0.00037	0.00023	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.00003 U	0.0661	<0.00011
	MW4-ROX-101613	10/16/2013		38.80	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00016 J	0.00015 J	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000054	0.0168 J	<0.00011
	MW4-ROX-013014	1/30/2014		41.09	NE	<0.0054	<0.0013 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00027	0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000022 U	0.0164 J	<0.00011
	MW4-ROX-041614	4/16/2014		41.91	NE	<0.0056	<0.00076 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000072 J	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW4-ROX-071614	7/16/2014	46.06 - 56.06	40.18	NE	<0.0052	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00024	0.00022	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000041 U	<0.0052	<0.0001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-05	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.0053	0.00052 J	<0.0053	<0.011	0.00041	<0.00011	<0.0053		<0.00011	<0.0053	0.00051 J	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0016	<0.00021	<0.011	<0.011	<0.011	<0.0053	0.00078 J	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.0051	<0.0005 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	0.00072 J	0.0117	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.0052	0.00057 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.003	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000025 U	0.0015 J	<0.0001
	MW5-ROX-102912	10/29/2012		28.16	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.0091	0.000084 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW5-ROX-011113	1/11/2013		28.75	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0043	0.000084 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000048 J	<0.0055	<0.00011
	MW5-ROX-040913	4/9/2013		29.41	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.004	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW5-ROX-070913	7/9/2013		26.04	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.00099 U	<0.005		<0.0001	<0.005	0.0015	<0.0002 UJ	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	<0.000074 U	<0.005	<0.0001
	MW5-ROX-100813	10/8/2013		26.97	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	0.0038	0.00009 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW5-ROX-011714	1/17/2014		29.59	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0035	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW5-ROX-041014	4/10/2014		30.09	NE	<0.0056	<0.00087 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.0038	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW5-ROX-071414	7/14/2014	33.97 - 43.97	28.59	NE	<0.0053	<0.00037 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00052 B	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000088 U	<0.0053	<0.00011
MW-06A	MW6A-ROX-112111	11/21/2011	34.83 - 44.83	25.49	NE	<0.0052	0.00053 J	0.00093 J	<0.01	<0.0001	<0.0001	<0.0052		0.0015 J	<0.0052	<0.00021 UJ	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<0.0051	0.00069 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001 UJ	<0.0051	<0.0002 UJ	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00015 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.00049 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6A-ROX-102412	10/24/2012		30.06	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW6A-ROX-011413	1/14/2013		31.00	NE	<0.0051 UJ	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000072 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	MW6A-ROX-040313	4/3/2013		31.62	NE	<0.0053	0.0018 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.000084	<0.0053 UJ	0.000053 J
	MW6A-ROX-070913	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-070913-DUP	7/9/2013		28.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6A-ROX-100713	10/7/2013		28.87	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6A-ROX-100713-DUP	10/7/2013		28.87	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6A-ROX-011614	1/16/2014		31.62	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6A-ROX-011614-DUP	1/16/2014		31.62	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6A-ROX-040814	4/8/2014		32.16	NE	<0.0056	<0.00075 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000054	<0.0056	<0.00011
	MW6A-ROX-040814-DUP	4/8/2014		32.16	NE	<0.0054	<0.00077 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000055	<0.0054	<0.00011
	MW6A-ROX-071014	7/10/2014	34.83 - 44.83	30.75	NE	<0.0054	<0.00026 U	<0.0054	<0.011	<0.00011	0.00013	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000046 J	<0.0054	<0.00011
MW-06B	MW6B-ROX-110311	11/3/2011	64.05 - 69.05	24.67	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.0055	0.00055 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00028 U	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	0.00039 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-080112	8/1/2012		28.39	NE	<0.0051	0.0007 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-102412	10/24/2012		30.11	NE	<0.0051	0.00079 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6B-ROX-011713	1/17/2013		31.11	NE	<0.005	0.0026 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6B-ROX-040313	4/3/2013		31.68	NE	<0.0054	0.0012 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.0002 J	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW6B-ROX-070913	7/9/2013		28.25	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6B-ROX-100713	10/7/2013		28.93	NE	<0.0054 UJ	<0.0054	<0.0054	0.0224	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6B-ROX-011614	1/16/2014		31.67	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		0.000043 J	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW6B-ROX-040814	4/8/2014		32.21	NE	<0.0053	<0.00043 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000018 J	<0.0053	<0.00011
	MW6B-ROX-071014	7/10/2014	64.05 - 69.05	30.81	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
MW-06C	MW6C-ROX-110311	11/3/2011	84.95 - 89.95	24.47	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00011 U	<0.005	<0.0001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.005	0.001 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-102412	10/24/2012		27.85	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6C-ROX-011713	1/17/2013		30.88	NE	<0.005	0.0022 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6C-ROX-040313	4/3/2013		31.41	NE	<0.0052	0.00077 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00016 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6C-ROX-070913	7/9/2013		28.03	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6C-ROX-100713	10/7/2013		28.72	NE	<0.0055 UJ	0.00043 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6C-ROX-011614	1/16/2014		31.48	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6C-ROX-040814	4/8/2014		32.01	NE	<0.0059	<0.0004 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012
	MW6C-ROX-071014	7/10/2014	84.95 - 89.95	30.60	NE	<0.0056	<0.00032 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		0.000035 J	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-06D	MW6D-ROX-110311	11/3/2011	104.72 - 109.72	24.31	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.0055	0.00047 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.000085 U	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.005	0.00047 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.0005 U	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000052	<0.005	<0.0001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW6D-ROX-102412	10/24/2012		29.71	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW6D-ROX-011713	1/17/2013		30.75	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW6D-ROX-040313	4/3/2013		31.27	NE	<0.0053	0.00069 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW6D-ROX-070913	7/9/2013		27.91	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-100713	10/7/2013		28.58	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW6D-ROX-011614	1/16/2014		31.33	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	MW6D-ROX-040814	4/8/2014		31.85	NE	<0.0055	<0.00039 U	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW6D-ROX-071014	7/10/2014	104.72 - 109.72	31.47	NE	<0.0056	<0.00027 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW6D-ROX-071014-DUP	7/10/2014		31.47	NE	<0.0054	<0.00029 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-07	MW-7-ROX-110211	11/2/2011	42.92 - 52.92	35.95	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.00028 U	<0.005		<0.0001	<0.005	<0.0043 U	<0.0059 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00033 U	0.0702	<0.0001
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.005	0.00045 J	<0.005	<0.01	<0.0001	0.00018	<0.005		<0.0001	<0.005	0.0055	0.0069	<0.01	<0.01	<0.01 UJ	<0.005	<0.005	<0.005	<0.01	0.00029	0.15	<0.000042 U
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.0002	<0.0056		<0.00011	<0.0056	0.0057	0.0071	<0.011	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00028	0.165	<0.000043 U
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.005	<0.00095 U	<0.005	<0.01	0.000039 J	0.00019	<0.005		<0.0001	<0.005	0.0075	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00028	0.0944	<0.0001
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00016	<0.0051		<0.0001	<0.0051	0.0055	0.0065	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00019	0.0576	<0.0001
	MW7-ROX-103012	10/30/2012		41.23	NE	<0.0058	<0.0058	<0.0058	<0.012	<0.00012	0.00023	<0.0058		<0.00012	<0.0058	0.0061 J	0.0077	<0.012	<0.012	<0.012	<0.0058	<0.0058 UJ	<0.0058	<0.012	0.00036	0.0615 J	<0.00005 U
	MW7-ROX-103012-DUP	10/30/2012		41.23	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.008 J	0.0098	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00037	0.0812 J	<0.00005 U
	MW7-ROX-011513	1/15/2013		42.21	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	0.00004 J	0.00061	<0.0053		<0.00011	<0.0053	0.0187	0.0224	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00086	0.0865 J	0.000089 J
	MW7-ROX-011513-DUP	1/15/2013		42.21	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00057	<0.0052		<0.0001	<0.0052	0.0173	0.0207	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00078	0.0735 J	0.000078 J
	MW7-ROX-041013	4/10/2013		42.70	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000039 J	0.00081	<0.0054		<0.00011	<0.0054	0.0271	0.0351	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.147	0.00015
	MW7-ROX-041013-DUP	4/10/2013		42.70	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000068 J	0.00087	<0.0053		<0.00011	<0.0053	0.0274	0.0357	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0015	0.148	0.00016
	MW7-ROX-071713	7/17/2013		39.60	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		0.000078 J	<0.0054	0.0043	0.006	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.118	0.000039 J
	MW7-ROX-101613	10/16/2013		40.64	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00022	<0.0055		<0.00011	<0.0055	0.0082	0.011	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00019	0.0849	<0.00011
	MW7-ROX-013014	1/30/2014		42.94	NE	<0.005	<0.0007 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.0059	0.0083	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00029	0.0314	<0.0001
	MW7-ROX-041614	4/16/2014		43.79	NE	<0.0052	<0.00071 U	<0.0052	<0.01	<0.0001	0.00026	<0.0052		<0.0001	<0.0052	0.0074	0.0103	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00033 B	0.0988	<0.0001
	MW7-ROX-071614	7/16/2014	42.92 - 52.92	42.05	NE	<0.0052	<0.00027 U	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0052	0.0079	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028	0.0618	<0.0001
	MW7-ROX-071614-DUP	7/16/2014		42.05	NE	<0.0052	<0.00038 U	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0052	0.0077	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00026	0.0638	<0.0001
MW-08	MW-8-ROX-110211	11/2/2011	33.60 - 43.60	27.02	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.00032 U	<0.0048		<0.000095	<0.0048	<0.0094 U	<0.0119 U	0.0152	0.0242	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.134	<0.000095
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00053	0.00074	<0.0053		<0.00053	<0.0053	0.0165	0.0204	0.0044 J	0.0121	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00041	0.375	<0.00053
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.0053	<0.00063 U	<0.0053	<0.011	<0.00011	0.00024	<0.0053		<0.00011	<0.0053	0.0085	0.0099	0.0302	0.0657	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00014	0.258 J	<0.00011
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0086	0.0102	0.0275	0.0569	<0.01	<0.005	<0.005	<0.005	<0.01	0.00014	0.12 J	<0.0001
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0091	0.0109	0.0075 J	0.0231	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015	0.136	<0.00011
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00026	<0.0056		<0.00011	<0.0056	0.0092	0.0111	0.0081 J	0.024	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00014	0.134	<0.00011
	MW8-ROX-103012	10/30/2012		32.32	NE	<0.0053	0.00082 J	0.00063 J	<0.011	0.00059 B	0.00053	<0.0053		0.00059 B	<0.0053	0.0097	0.0112	0.0058 J	0.0158	<0.011	<0.0053	<0.0053 UJ	0.00052 J	0.003 J	0.00057	0.165 J	0.00054 B
	MW8-ROX-011513	1/15/2013		33.30	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00011	0.00041	<0.0056		<0.00011	<0.0056	0.011	0.0129	0.0332	0.102	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00016	0.0997 J	<0.00011
	MW8-ROX-041013	4/10/2013		33.77	NE	<0.0053	0.0013 J	<0.0053	<0.011	0.000056 J	0.00032	<0.0053		<0.00011	<0.0053	0.0091	0.0113	0.0388	0.084	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00019	0.253 J	0.000042 J
	MW8-ROX-071713	7/17/2013		30.43	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0097 J	0.0113	0.0046 J	0.0106	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00015	0.328	0.000062 J
	MW8-ROX-071713-DUP	7/17/2013		30.43	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00036	<0.0054		<0.00011	<0.0054	0.0087 J	0.0098	0.0037 J	0.0091 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	0.303	<0.00011
	MW8-ROX-101613	10/16/2013		31.59	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0117	0.0136	0.0022 J	0.0052 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00011	0.0996	<0.00011
	MW8-ROX-101613-DUP	10/16/2013		31.59	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	0.00037	<0.0059		<0.00012	<0.0059	0.0108	0.0128	0.0019 J	0.0046 J	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.000097	0.108	<0.00012
	MW8-ROX-013014	1/30/2014		34.02	NE	<0.0051	<0.0011 U	<0.0051	<0.01	<0.0001	0.00054	<0.0051		<0.0001	<0.0051	0.0137	0.0123	0.0128	0.0198	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00018	0.105	<0.0001
	MW8-ROX-013014-DUP	1/30/2014		34.02	NE	<0.0054	<0.00092 U	<0.0054	<0.011	<0.00011	0.00052	<0.0054		<0.00011	<0.0054	0.0136	0.0123	0.0129	0.019	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.135	<0.00011
	MW8-ROX-041614	4/16/2014		34.73	NE	<0.0056	<0.00073 U	<0.0056	<0.011	<0.00011	0.00046	<0.0056		<0.00011	<0.0056	0.0142	0.0097	<0.011	0.0062 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00015 B J	0.135	<0.00011
	MW8-ROX-041614-DUP	4/16/2014		34.73	NE	<0.0051	<0.0006 U	<0.0051	<0.01	<0.0001	0.00043	<0.0051		<0.0001	<0.0051	0.0129	0.0086	<0.01	0.0053 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00016 B J	0.118	<0.0001
	MW8-ROX-071614	7/16/2014	33.60 - 43.60	33.01	NE	<0.0052	<0.00045 U	<0.0052	<0.01	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0125	0.0048	0.0037 J	0.0045 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002 B	0.111	<0.0001

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-09	MW9-ROX-110111	11/1/2011	46.45 - 56.45	37.78	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.0057	0.00048 J	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.000098 U	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW9-ROX-050312	5/3/2012		41.03	NE																						
	MW9-ROX-072712	7/27/2012		41.30	NE	<0.005	<0.00054 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-102912	10/29/2012		43.17	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW9-ROX-011113	1/11/2013		43.90	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	0.000066 J	0.00011	<0.0054		<0.00011	<0.0054	<0.00022	0.00014 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00012	<0.0054	0.000057 J
	MW9-ROX-040913	4/9/2013		44.67	NE	<0.0052 UJ	<0.0018 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW9-ROX-070813	7/8/2013		42.35	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022				<0.0056	<0.0056	<0.0056		<0.000028 U		<0.00011
	MW9-ROX-100313	10/3/2013		42.27	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW9-ROX-011414	1/14/2014		44.47	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	<0.000053	<0.0053 UJ	<0.00011
	MW9-ROX-040714	4/7/2014		44.99	NE	<0.0056	<0.00062 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	0.0001 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056 U	<0.0056	<0.00011
	MW9-ROX-070914	7/9/2014	46.45 - 56.45	44.35	NE	<0.0054	<0.0006 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-10	MW10-ROX-110111	11/1/2011	44.43 - 54.43	37.72	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.0053	0.00081 J	<0.0053	<0.011	0.000052 J	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000055 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000072	<0.0053	0.00005 J
	MW10-ROX-050112	5/1/2012		40.86	NE	<0.0052	<0.00041 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.000033 J	<0.0052 UJ	<0.0001
	MW10-ROX-072712	7/27/2012		41.21	NE	<0.005	<0.00043 U	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW10-ROX-102612	10/26/2012		43.08	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000052 J	0.000086 J	<0.0056		<0.00011	<0.0056	<0.00022	0.00009 J	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000076	<0.0056	0.00004 J
	MW10-ROX-121712	12/17/2012		43.08	NE																						
	MW10-ROX-011013	1/10/2013		44.10	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000021 U	<0.005	<0.0001
	MW10-ROX-012113	1/21/2013		44.10	NE	<0.01	<0.01	<0.01	<0.001	<0.0001	<0.0001	<0.002		<0.0001	<0.01		<0.01	<0.01	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	<0.0001	<0.005	<0.0001
	MW10-ROX-040913	4/9/2013		44.60	NE	<0.0054 UJ	<0.0019 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW10-ROX-070813	7/8/2013		42.27	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000021 U	<0.0056	<0.00011
	MW10-ROX-100313	10/3/2013		42.38	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW10-ROX-011514	1/15/2014		44.42	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		0.000072 J	<0.0053	<0.00021	<0.00021	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.000037 JB	<0.0054 UJ	<0.00011
	MW10-ROX-040714	4/7/2014		45.00	NE	<0.0053	<0.00085 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000042 U	<0.0053	<0.00011
	MW10-ROX-070914	7/9/2014	44.43 - 54.43	44.35	NE	<0.0054	<0.00065 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-11	MW-11-ROX-110211	11/2/2011	41.66 - 51.66	35.44	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW11-ROX-011712	1/17/2012		37.44	NE																						
	MW11-ROX-043012	4/30/2012		38.66	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW11-ROX-072712	7/27/2012		38.90	NE	<0.0058	<0.00057 U	<0.0058	<0.012	<0.00012	<0.00012	<0.0058		<0.00012	<0.0058	<0.00023	<0.00023	<0.012	<0.012 UJ	<0.012	<0.0058	<0.0058	<0.0058	<0.012	<0.000058	<0.0058	<0.00012
	MW11-ROX-102512	10/25/2012		40.59	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054 UJ	<0.00011
	MW11-ROX-011013	1/10/2013		41.43	NE	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.005 UJ		<0.0001 UJ	<0.005 UJ	<0.0002 UJ	<0.0002 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.01 UJ	<0.000015 UJ	<0.005 UJ	<0.0001 UJ
	MW11-ROX-040813	4/8/2013		42.02	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW11-ROX-070813	7/8/2013		39.24	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW11-ROX-100713	10/7/2013		39.95	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW11-ROX-011514	1/15/2014		42.16	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000026 U	<0.0055	<0.00011
	MW11-ROX-040714	4/7/2014		42.70	NE	<0.0056	<0.0007 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000023 U	<0.0056	<0.00011
	MW11-ROX-070914	7/9/2014	41.66 - 51.66	41.75	NE	<0.0057	<0.00042 U	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00003 J	<0.0057	<0.00011
MW-12	MW-12-ROX-110211	11/2/2011	41.92 - 51.92	35.70	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00023 U	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00007 U	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW12-ROX-072712	7/27/2012		39.22	NE	<0.0053	<0.00063 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW12-ROX-102512	10/25/2012		40.95	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
	MW12-ROX-011013	1/10/2013		41.83	NE	<0.0051 UJ	<0.0051	<0.0051	<0.01	0.000045 J	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000032 U	<0.0051	<0.0001
	MW12-ROX-040813	4/8/2013		42.46	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000044 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW12-ROX-070913	7/9/2013		39.28	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011 UJ	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW12-ROX-100713	10/7/2013		40.22	NE	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011 UJ	<0.011 UJ	<0.011	<0.0055	<0.0055	<0.0055	0.0018 J J	<0.000055	<0.0053 UJ	<0.00011
	MW12-ROX-011514	1/15/2014		42.54	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01 UJ	<0.01 UJ	<0.01	<0.0052	<0.0052	<0.0052	<0.01 UJ	<0.000022 U	<0.0052 UJ	<0.0001
	MW12-ROX-040814	4/8/2014		43.15	NE	<0.0051	<0.0006 U	<0.0051	<0.01	<0.00011	<0.00011	<0.0051		<0.00011	<0.0051	<0.00023	<0.00023	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.000021 J	<0.0051	<0.00011
	MW12-ROX-070914	7/9/2014	41.92 - 51.92	41.97	NE	<0.0056	<0.00098 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																			
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
MW-13	MW13-ROX-110311	11/3/2011	25.57 - 35.57	22.85	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00033 U	<0.0056		<0.00011	<0.0056	<0.00081 U	<0.0003 U	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00018 U
	MW13-ROX-012012	1/20/2012		24.77	NE	<0.0053	<0.00058 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00022	<0.00027 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0015 J	0.000065 J
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-080812	8/8/2012		26.67	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00021	<0.00014 UJ	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW13-ROX-110812	11/8/2012		25.30	NE	<0.005	0.00054 J	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW13-ROX-012313	1/23/2013		29.26	NE	<0.0055 UJ	0.0027 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	0.00011 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-041213	4/12/2013		29.44	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	MW13-ROX-071213	7/12/2013		25.67	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.000042	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.000067 U	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	<0.000076	<0.0054 UJ	<0.00004
	MW13-ROX-100913	10/9/2013		26.94	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW13-ROX-012914	1/29/2014		29.63	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.000096 U	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	MW13-ROX-041114	4/11/2014		30.15	NE	<0.006	<0.00079 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.000033 J	<0.006	<0.00012
	MW13-ROX-070714	7/7/2014	25.57 - 35.57	28.49	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW14-ROX-051012	5/10/2012		NM	NE	<0.0052	0.00043 J	<0.0052	<0.01	<0.0001	0.00022	<0.0052		<0.0001	<0.0052	0.0101	0.0015	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW14-ROX-080312	8/3/2012		NM	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00071	<0.0053		<0.00011	<0.0053	0.019	0.0038	<0.011	<0.011	<0.011	0.00032 J	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW14-ROX-103112	10/31/2012		32.02	NE	<0.005	0.00044 J	<0.005	<0.01	<0.0001	0.00029	<0.005		<0.0001	<0.005	0.0192	0.004	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.000051	<0.005 UJ	<0.0001
	MW14-ROX-011813	1/18/2013		33.05	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	0.00064	<0.005		<0.0001	<0.005	0.0215	0.0084	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW14-ROX-041113	4/11/2013		33.31	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000068 J	0.00016	<0.0054		<0.00011	<0.0054	0.0124	0.0018	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0001	<0.0054	0.000053 J
	MW14-ROX-071213	7/12/2013		30.36	NE	<0.0053 UJ	0.00043 J	<0.0053	<0.011	<0.00011	<0.000093 U	<0.0053		<0.00011	<0.0053	0.0127	0.0027	<0.011	<0.011	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000032 U	<0.0053 UJ	<0.000067 U
	MW14-ROX-101013	10/10/2013		30.80	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	0.00034	<0.0057		<0.00011	<0.0057	0.0184	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	MW14-ROX-012914	1/29/2014		33.67	NE	<0.0054	0.00045 J	<0.0054	<0.011	<0.00011	0.00041	<0.0054		<0.00011	<0.0054	0.0075	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	MW14-ROX-041114	4/11/2014		34.30	NE	<0.006	<0.00082 U	<0.006	<0.012	<0.00011	0.0003	<0.006		<0.00011	<0.006	0.0018	<0.00023	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.000057	<0.006	<0.00011
	MW14-ROX-070714	7/7/2014	33.42 - 43.42	32.82	NE	<0.0054	0.00031 J	<0.0054	<0.011	<0.00011	0.00024	<0.0054		<0.00011	<0.0054	0.0014	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00024 J	<0.0054	<0.00011
MW-16	MW16-ROX-012313	1/23/2013	37.06 - 47.06	43.05	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000085 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000025 J J	<0.0053	<0.00011
	MW16-ROX-040813	4/8/2013		43.39	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.000058 J	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	MW16-ROX-070813	7/8/2013		40.62	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000018 U	<0.0056	<0.00011
	MW16-ROX-100813	10/8/2013		41.62	NE	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052 UJ		<0.0001 UJ	<0.0052 UJ	<0.00021 UJ	<0.00021 UJ	<0.01 UJ	<0.01 UJ	<0.01 UJ	<0.0052 UJ	<0.0052 UJ	<0.0052 UJ	<0.01 UJ	<0.000052 UJ	<0.0052 UJ	<0.0001 UJ
	MW16-ROX-011514	1/15/2014		43.76	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000031 U	<0.0052	<0.0001
	MW16-ROX-040914	4/9/2014		44.63	NE	<0.0059	<0.00067 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	<0.000059	<0.0059	<0.00012
	MW16-ROX-071014	7/10/2014	37.06 - 47.06	43.15	NE	<0.0054	<0.00021 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
MW-22	MW22-ROX-012313	1/23/2013	37.88 - 47.88	41.80	NE	<0.0052 UJ	0.0024 J	<0.0052	<0.01	<0.0001	0.00018	<0.0052		<0.0001	<0.0052	0.0276	0.05	0.018	0.0322	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00019	0.0111	<0.0001
	MW22-ROX-012313-DUP	1/23/2013		41.80	NE	<0.0053 UJ	0.0024 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.028	0.0501	0.0187	0.0349	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	0.0122	<0.00011
	MW22-ROX-040513	4/5/2013		42.23	NE	<0.0053	0.00057 J	<0.0053	<0.011	<0.00011	0.00018	<0.0053		<0.00011	<0.0053	0.0241	0.0413	0.0236	0.0403	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.00019	0.0123 J	<0.00011
	MW22-ROX-071113	7/11/2013		39.35	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00027	<0.0054		<0.00011	<0.0054	0.0232 J	0.0393	0.0159	0.029	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.0002 B	0.0094 J	<0.00011
	MW22-ROX-071113-DUP	7/11/2013		39.35	NE	<0.0056	0.00052 J	<0.0056	<0.011	<0.00011	0.00017	<0.0056		<0.00011	<0.0056	0.0216 J	0.037	0.0147	0.0269	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.0002 B	0.0088 J	<0.00011
	MW22-ROX-100913	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00019	<0.0054		<0.00011	<0.0054	0.0276	0.0468	0.0152	0.0319	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00019	<0.0054	<0.00011
	MW22-ROX-100913-DUP	10/9/2013		40.39	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.0002	<0.0054		<0.00011	<0.0054	0.0265	0.0451	0.0139	0.0296	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00016	<0.0054	<0.00011
	MW22-ROX-012014	1/20/2014		42.49	NE	<0.027	<0.027	<0.027	<0.053	<0.00011	0.00017	<0.027		<0.00011	<0.027	0.0258	0.0459	0.0124 J	0.0313 J	<0.053	<0.027	<0.027	<0.027	<0.053	0.0002 B	0.0071 J	<0.00011
	MW22-ROX-012014-DUP	1/20/2014		42.49	NE	<0.027	<0.027	<0.027	<0.054	<0.00011	0.00015	<0.027		<0.00011	<0.027	0.0232	0.0416	0.0118 J	0.0296 J	<0.054	<0.027	<0.027	<0.027	<0.054	0.0002 B	0.007 J	<0.00011
	MW22-ROX-041014	4/10/2014		43.15	NE	<0.028	<0.0016 U	<0.028	<0.056	<0.00011	<0.00011	<0.028		<0.00011	<0.028	0.0174	0.0287	0.0156 J	0.035 J	<0.056	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011
	MW22-ROX-041014-DUP	4/10/2014		43.15	NE	<0.028	<0.0018 U	<0.028	<0.056	<0.00011	0.00012	<0.028		<0.00011	<0.028	0.0199	0.0322	0.0159 J	0.038 J	<0.056	<0.028	<0.028	<0.028	<0.056	0.0001	<0.028	<0.00011
	MW22-ROX-071414	7/14/2014	37.88 - 47.88	41.85	NE	<0.0054	<0.00057 U	<0.0054	<0.011	<0.00011	0.00015	<0.0054		<0.00011	<0.0054	0.0198	0.0355	0.0102 J	0.0204	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00018 U	<0.0054	<0.00011
MW-24	MW24-ROX-040513	4/5/2013	38.89 - 48.89	43.39	NE	<0.0052	0.00049 J	<0.0052	<0.01	0.000088 J	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	0.00015 J	<0.01	<0.01	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	<0.000052	<0.0052 UJ	0.000066 J
	MW24-ROX-071113	7/11/2013		40.35	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022 UJ	0.000062 J	<0.011 UJ	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	<0.000038 U	<0.0053 UJ	<0.00011
	MW24-ROX-100913	10/9/2013		41.27	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-011514	1/15/2014		43.47	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	MW24-ROX-040914	4/9/2014		44.13	NE	<0.0056	<0.00092 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	MW24-ROX-071114	7/10/2014	38.89 - 48.89	42.97	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011

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CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-54	P54-ROX-110311	11/3/2011	38.00 - 63.00	35.49	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P54-ROX-011712	1/17/2012		37.17	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.000081 U	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P54-ROX-050412	5/4/2012		38.77	NE	<0.0051	<0.00085 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0026 J	<0.0001
	P54-ROX-080212	8/2/2012		38.95	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P54-ROX-103012	10/30/2012		40.70	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	<0.000051	<0.0051 UJ	<0.0001
	P54-ROX-011113	1/11/2013		41.56	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000032 J	<0.0053	<0.00011
	P54-ROX-041013	4/10/2013		41.80	NE	<0.0057 UJ	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-050313	5/3/2013		41.80	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	<0.000056	<0.0056	<0.00011
	P54-ROX-071113	7/11/2013		39.07	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021 UJ	0.000083 J	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	<0.000049 U	<0.0052 UJ	<0.0001
	P54-ROX-100813	10/8/2013		39.94	NE	<0.0057	<0.0057	<0.0057	<0.011	<0.00011	<0.00011	<0.0057		<0.00011	<0.0057	<0.00023	<0.00023	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	<0.000057	<0.0057	<0.00011
	P54-ROX-011514	1/15/2014		42.20	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P54-ROX-040914	4/9/2014		42.80	NE	<0.006	<0.00062 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	<0.00024	<0.00024	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	<0.00006	<0.006	<0.00012
	P54-ROX-071114	7/10/2014	38.00 - 63.00	41.71	NE	<0.0054	<0.00028 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00011 J	0.00013 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000051 U	<0.0054	<0.00011
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.00065	0.00096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00016	<0.005	<0.0001
	P55-ROX-011912	1/19/2012		41.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00038	<0.0052		<0.0001	<0.0052	0.0048	0.0076	<0.01	<0.01	<0.01 UJ	<0.0052	<0.0052	<0.0052	<0.01	0.00039	<0.0052	<0.0001
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		0.00011	<0.0054	0.0046	0.0076	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00036	0.0029 J	<0.00011
	P55-ROX-050912	5/9/2012		42.44	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00069	<0.0051		<0.0001	<0.0051	0.0118	0.0179	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00066	<0.0051	<0.0001
	P55-ROX-012113	1/21/2013	40.43 - 50.53	43.60	NE	<0.01	<0.01	<0.01	<0.001	<0.0001	0.00133	<0.002		<0.0001	<0.01		0.042	<0.01	<0.01	<0.002	<0.004	<0.02	<0.003	<0.004	0.00211	0.004 J	<0.0001
	P55-ROX-012113	1/21/2013		43.60	NE	<0.0051	0.00069 J	<0.0051	<0.01	<0.0001	0.00093	<0.0051		<0.0001	<0.0051	0.0176	0.0254	<0.01	0.0018 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0017	0.0034 J	<0.0001
	P55-ROX-041513	4/15/2013		43.63	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.0013	<0.0052		<0.0001	<0.0052	0.0268	0.0389	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0021	<0.0052	<0.0001
	P55-ROX-071613	7/16/2013		40.06	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.0015	<0.0056		<0.00011	<0.0056	0.0244	0.0353	<0.011 UJ	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0019	0.0048 J J	<0.00011
	P55-ROX-101013	10/10/2013		41.67	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.0014	<0.0055		<0.00011	<0.0055	0.0279	0.0415	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0017	0.002 J	<0.00011
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00039	<0.0052		<0.0001	<0.0052	0.016	0.0224	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
	P56-ROX-011912	1/19/2012		41.81	NE	<0.0051	<0.00044 U	<0.0051	<0.01	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.0186	0.024	<0.01	<0.01	<0.01 UJ	<0.0051	<0.0051	<0.0051	<0.01	0.0012	<0.0051	0.000036 J
	P56-ROX-050812	5/8/2012		43.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00033	<0.0052		<0.0001	<0.0052	0.0186	0.0236	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0011	<0.0052	<0.0001
	P56-ROX-080612	8/6/2012		43.60	NE	<0.0051	<0.00075 U	<0.0051	<0.01	<0.0001	0.0003	<0.0051		<0.0001	<0.0051	0.0143	0.0178	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0013	<0.0051	<0.0001
	P56-ROX-103112	10/31/2012		44.80	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00046	<0.0051		<0.0001	<0.0051	0.024	0.0307	<0.01	0.0011 J	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	0.0013	<0.0051 UJ	<0.0001
	P56-ROX-011713	1/17/2013		45.65	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00032	<0.005		<0.0001	<0.005	0.0147	0.0131	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0012	0.0014 J	<0.0001
	P56-ROX-041213	4/12/2013		46.12	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00032	<0.0055		<0.00011	<0.0055	0.0208	0.0239	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0012	<0.0055	<0.00011
	P56-ROX-071513	7/15/2013		43.25	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00059	<0.0055		<0.00011	<0.0055	0.0315	0.0431	<0.011 UJ	0.0064 J	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0015	<0.0055 UJ	<0.00011
	P56-ROX-101013	10/10/2013		44.48	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.00044	<0.0055		<0.00011	<0.0055	0.0251	0.03	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.0013	<0.0055	<0.00011
	P56-ROX-012214	1/22/2014		46.35	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00035	<0.0052		<0.0001	<0.0052	0.0193	0.0228	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0012	<0.0052	<0.0001
	P56-ROX-041414	4/14/2014		47.32	NE	<0.0059	0.00051 J	<0.0059	<0.012	<0.00012	0.00038	<0.0059		<0.00012	<0.0059	0.0223	0.0269	<0.012	0.0008 J	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.0012	<0.0059	<0.00012
	P56-ROX-070814	7/8/2014	40.82 - 65.82	45.97	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00036	<0.0056		<0.00011	<0.0056	0.0181	0.0243	<0.011	0.0165	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.001	<0.0056	<0.00011
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00054	0.00076	<0.0054		<0.00054	<0.0054	0.0288	0.0388	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0006	0.286	<0.00054
	P57-ROX-021312	2/13/2012		42.13	NE	<0.0051	<0.00046 U	<0.0051	<0.01	<0.0001	0.00087	<0.0051		<0.0001	<0.0051		0.0403	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00051	0.297	<0.0001
	P57-ROX-050712	5/7/2012		42.92	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00045	<0.0052		<0.0001	<0.0052	0.0169	0.0212	<0.01	0.0023 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00035	0.141	<0.0001
	P57-ROX-080612	8/6/2012		43.53	NE	<0.005	<0.00087 U	<0.005	<0.01	<0.0001	0.0006	<0.005		<0.0001	<0.005	0.0244	0.0326	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0697 J	<0.0001
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005	<0.00089 U	<0.005	<0.01	<0.0001	0.00063	<0.005		<0.0001	<0.005	0.0242	0.0321	<0.01	0.0013 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00054	0.0921 J	<0.0001
	P57-ROX-110512	11/5/2012		44.98	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00062	<0.005		0.00005 J	<0.005	0.0249	0.0305	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00048	0.0547 J	<0.0001
	P57-ROX-012913	1/29/2013		45.92	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	0.00094	<0.0059		<0.00012	<0.0059	0.0369	0.0447	<0.012	<0.012	<0.012	<0.0059	<0.0059	<0.0059	<0.012	0.00074	<0.0059 UJ	<0.00012
	P57-ROX-041113	4/11/2013		46.29	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00076	<0.0051		<0.0001	<0.0051	0.0348	0.0453	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00074	0.146	<0.0001
	P57-ROX-071613	7/16/2013		43.38	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000038 J	0.0008	<0.0056		<0.00011	<0.0056	0.0267	0.0365	<0.011 UJ	0.0086 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00073	0.164 J	<0.000052 U
	P57-ROX-101413	10/14/2013		44.38	NE	<0.0054	0.00049 J	<0.0054	<0.011	<0.00011	0.00067	<0.0054		<0.00011	<0.0054	0.0252	0.0324	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00049	0.202	0.000047 J
	P57-ROX-020314	2/3/2014		46.57	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	0.00062	<0.0053		<0.00011	<0.0053	0.0234	0.0314	<0.011	0.0027 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00052	0.168 J	<0.00011
	P57-ROX-041514	4/15/2014		46.70	NE	<0.0056	<0.00058 U	<0.0056	<0.011	<0.00011	0.00061	<0.0056		<0.00011	<0.0056	0.0238	0.032	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00045 J	0.106 J	<0.00011
	P57-ROX-070814	7/8/2014	40.46 - 65.46	45.95	NE	<0.0053	0.00026 J	<0.0053	<0.011	<0.00011 UJ	0.00055	<0.0053	0.024 JN	<0.00011	<0.0053	0.022	0.0306	<0.011	0.0303	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00047	0.141	<0.00011
	P57-ROX-070814-DUP	7/8/2014		45.95	NE	<0.0054	0.00027 J	<0.0054	<0.011	<0.00011 UJ	0.00054	<0.0054	0.023 JN	<0.00011	<0.0054	0.022	0.03	<0.011	0.0299	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00048	0.136	<0.00011

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																		
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.0049	<0.0049	<0.0049	<0.0097	<0.000097	0.0016	<0.0049		<0.000097	<0.0049	0.049	0.0717	<0.0097	0.0347	<0.0097	<0.0049	<0.0049	<0.0049	<0.0097	0.00085	0.137	0.00012
	P58-ROX-011912	1/19/2012		39.73	NE	<0.0053	<0.00057 U	<0.0053	<0.011	0.000047 J	0.0017	<0.0053		<0.00011	<0.0053	0.0639	0.0904	<0.011	0.0171	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.00084	0.259	0.00012
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.0053	<0.00059 U	<0.0053	<0.011	0.000052 J	0.0018	<0.0053		<0.00011	<0.0053	0.0588	0.0821	<0.011	0.0156	<0.011 UJ	<0.0053	<0.0053	<0.0053	<0.011	0.0008	0.225	0.00012
	P58-ROX-050712	5/7/2012		40.90	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.0009 J	<0.0051		<0.0001	<0.0051	0.0351 J	0.0435 J	<0.01	0.0181	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00056 J	0.161	0.0001
	P58-ROX-050712-DUP	5/7/2012		40.90	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00067 J	<0.0052		<0.0001	<0.0052	0.0267 J	0.0338 J	<0.01	0.0122	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00041 J	0.147	0.000076 J
	P58-ROX-080612	8/6/2012		41.63	NE	<0.005	<0.00053 U	<0.005	<0.01	0.000068 J	0.0014	<0.005		<0.0001	<0.005	0.0524	0.0691	<0.01	0.0146	<0.01	<0.005	<0.005	<0.005	<0.01	0.001	0.15	<0.0001 UJ
	P58-ROX-080612-DUP	8/6/2012		41.63	NE	<0.005	<0.00063 U	<0.005	<0.01	0.000066 J	0.0015	<0.005		<0.0001	<0.005	0.0596	0.079	<0.01	0.0195	<0.01	<0.005	<0.005	<0.005	<0.01	0.0011	0.19	0.00021 J
	P58-ROX-110612	11/6/2012		43.09	NE																					
	P58-ROX-121012	12/10/2012		43.09	NE	<0.0054 UJ	<0.0054	<0.0054	<0.011	<0.00011	0.0014	<0.0054		<0.00011	<0.0054	0.0616	0.0807	<0.011	0.0124	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00085	0.178	0.00012
	P58-ROX-012213	1/22/2013		44.21	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00024	0.003	<0.0054		0.000072 J	<0.0054	0.068	0.0846	<0.011	0.0198	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0023	0.208	0.00077
	P58-ROX-041113	4/11/2013		44.40	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00019	0.0022	<0.0054		<0.00011	<0.0054	0.0692	0.0961	<0.011	0.014	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0021	0.0985	0.00055
	P58-ROX-071613	7/16/2013		41.49	NE	<0.0055	<0.0055	<0.0055	<0.011	0.000071 J	0.0013	<0.0055		<0.00011	<0.0055	0.0544	0.0708	<0.011 UJ	0.0359	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00099	0.247	<0.0002 U
	P58-ROX-101413	10/14/2013		42.19	NE	<0.0054	0.00058 J	<0.0054	<0.011	0.000066 J	0.0014	<0.0054		<0.00011	<0.0054	0.0488	0.0628	<0.011	0.0481	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00095	0.213	0.00021
	P58-ROX-020314	2/3/2014		44.66	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000058 J	0.0011	<0.0052		<0.0001	<0.0052	0.0353	0.0474	<0.01	0.0073 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00069	0.123 J	0.00014
	P58-ROX-041514	4/15/2014		45.66	NE	<0.0053 UJ	<0.0013 U	0.00072 J	<0.011 UJ	0.00079	0.0017	0.00088 J		0.00072	<0.0053 UJ	0.0284	0.0381	<0.011 UJ	0.0136 J	<0.011 UJ	<0.0053	0.0021 J J	<0.0053 UJ	<0.011 UJ	0.0013	0.123 J	0.00085
	P58-ROX-071814	7/18/2014	40.21 - 65.21	43.80	NE	<0.0055	<0.00032 U	<0.0055	<0.011	0.000062 J	0.0012	<0.0055		0.0005	<0.0055	0.0412	0.0554	<0.011	0.012	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00092	0.173	0.00022
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.0053	<0.0053	<0.0053	<0.011	0.00035	0.0012	<0.0053		<0.00011	<0.0053	0.0121	0.0184	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.002	0.0383	0.00057
	P59-ROX-011912	1/19/2012		42.88	NE	<0.0057	<0.0005 U	<0.0057	<0.011	0.000073 J	0.0008	<0.0057		<0.00011	<0.0057	0.0175	0.0279	0.0045 J	0.0092 J	<0.011 UJ	<0.0057	<0.0057	0.00079 J	<0.011	0.00081	0.0906 J	0.00013
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.0051	<0.00041 U	<0.0051	<0.01	0.000073 J	0.00063	<0.0051		<0.0001	<0.0051	0.0178	0.029	<0.01	0.0076 J	<0.01 UJ	<0.0051	<0.0051	0.00087 J	<0.01	0.00081	0.0646 J	0.00013
	P59-ROX-050912	5/9/2012		44.11	NE	<0.005	<0.005	<0.005	<0.01	0.000062 J	0.00034	<0.005	0.0056 JN	<0.0001	<0.005	0.0117	0.018	<0.01	0.0062 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00053	0.0241	0.000092 J
	P59-ROX-080212	8/2/2012		44.07	NE	<0.0053	<0.0053	<0.0053	<0.011	0.00015	0.00048	<0.0053		<0.00011	<0.0053	0.0136	0.0207	0.0018 J	0.0032 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.001	0.0419	0.00021
	P59-ROX-110212	11/2/2012		45.98	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000063 J	0.0005	<0.0053		<0.00011	<0.0053	0.0187	0.0282	0.0065 J	0.0137	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00075	0.0766 J	0.00009 J
	P59-ROX-110212-DUP	11/2/2012		45.98	NE	<0.0052	<0.0052	<0.0052	<0.01	0.000066 J	0.00048	<0.0052		<0.0001	<0.0052	0.0179	0.0268	0.0056 J	0.0116	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00073	0.0656 J	0.000093 J
	P59-ROX-013013	1/30/2013		46.60	NE	<0.0052 UJ	0.0022 J	<0.0052	<0.01	<0.000079 U	0.00069	<0.0052		<0.0001	<0.0052	0.0222	0.0305	0.154	0.107	<0.01 UJ	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.001	0.141 J	<0.00011 U
	P59-ROX-041213	4/12/2013		46.95	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000077 J	0.00064	<0.0054		<0.00011	<0.0054	0.0247	0.0369	0.174	0.0842	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0012	0.119	0.000098 J
	P59-ROX-041213-DUP	4/12/2013		46.95	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000078 J	0.00065	<0.0053		<0.00011	<0.0053	0.0265	0.0383	0.154	0.0794	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0012	0.101	0.0001 J
	P59-ROX-071613	7/16/2013		44.13	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000061 J	0.00063	<0.0054		<0.00011	<0.0054	0.0189	0.0302	0.17	0.042	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00087	0.121 J	<0.000078 U
	P59-ROX-101013	10/10/2013		45.50	NE	<0.0054	<0.0054	0.00091 J	<0.011	0.00015	0.0007	<0.0054		<0.00011	<0.0054	0.0192	0.0305	0.201	0.0528	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0014	0.0524	0.00028
	P59-ROX-020314	2/3/2014		47.35	NE	<0.0052	<0.0052	<0.0052	<0.01	0.00012	0.00067	<0.0052		<0.0001	<0.0052	0.0141	0.0214	0.31 J	0.0142	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0014	0.0444 J	0.00019
	P59-ROX-041514	4/15/2014		48.60	NE	<0.0053	<0.0053	<0.0053	<0.011	0.00015	0.00066	<0.0053		<0.00011	<0.0053	0.0233	0.0317	<0.011	0.0186 J	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	0.0016	0.13 J	0.0003
	P59-ROX-070814	7/8/2014	47.91 - 72.91	47.69	NE	<0.0057	0.00045 J	<0.0057	<0.011	0.000053 J J	0.00046	<0.0057		<0.00011	<0.0057	0.0181	0.0291	0.0793	0.0184	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.00088	<0.0057	0.0001 J
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	<0.005	<0.005	<0.01	0.00017	0.003	<0.005		<0.0001	<0.005	0.093	0.0295	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.0013	<0.005	0.00029
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	0.00054 J	<0.005	<0.01	0.000056 J	0.0015	<0.005		<0.0001	<0.005	0.0647	0.025	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00057	<0.005	0.000082 J
	P66-ROX-080312	8/3/2012		30.51	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000082 J	0.0011	<0.0053		<0.00011	<0.0053	0.0541	0.028	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00057	<0.0053	0.00013
	P66-ROX-103112	10/31/2012		34.75	NE	<0.005	<0.005	<0.005	<0.01	<0.000051 U	0.0017	<0.005		<0.0001	<0.005	0.0689	0.0268	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	0.00054	<0.005 UJ	<0.00007 U
	P66-ROX-011813	1/18/2013		35.70	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	0.000076 J	0.0019	<0.0053		<0.00011	<0.0053	0.0655	0.0315	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00082	0.0019 J	0.00011
	P66-ROX-041113	4/11/2013		36.03	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000072 J	0.0017	<0.0053		<0.00011	<0.0053	0.0681	0.0131	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00091	<0.0053	0.000087 J
	P66-ROX-071213	7/12/2013		33.20	NE	<0.0056 UJ	<0.0056	<0.0056	<0.011	<0.00019 U	0.0018	<0.0056		0.00017	<0.0056	0.0688	0.0642	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	0.00088	0.0035 J J	<0.0002 U
	P66-ROX-101013	10/10/2013		33.66	NE	<0.0056	<0.0056	<0.0056	<0.011	0.000052 J	0.0013	<0.0056		<0.00011	<0.0056	0.0571	0.0218	<0.011	0.0034 J	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.0005	<0.0056	0.00009 J
	P66-ROX-110713	11/7/2013		33.66	NE																					
	P66-ROX-012914	1/29/2014		36.39	NE	<0.0053	<0.0053	<0.0053	<0.011	0.000065 J	0.0016	<0.0053		0.000041 J	<0.0053	0.0701	0.0284	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00077	<0.0053	0.000099 J
	P66-ROX-041114	4/11/2014		37.10	NE	<0.0058	<0.00088 U	<0.0058	<0.012	<0.00012	0.0013	<0.0058		<0.00012	<0.0058	0.0649	0.023	<0.012	<0.012	<0.012	<0.0058	<0.0058	<0.0058	<0.012	0.00049	<0.0058	0.000049 J
	P66-ROX-070714	7/7/2014	34.72 - 59.72	35.60	NE	<0.0056	0.0003 J	<0.0056	<0.011	<0.00011	0.00078	<0.0056		<0.00011	<0.0056	0.0445	0.006	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00041 J	<0.0056	<0.00011
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00044	<0.005		<0.0001	<0.005	0.0177	0.0265	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00025	0.0127	<0.0001
	P74-ROX-011912	1/19/2012		38.77	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095 UJ	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.002 J	<0.000095
	P74-ROX-050712	5/7/2012		39.92	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.00016 J	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000047 J	0.0089	<0.0001
	P74-ROX-080612	8/6/2012		40.71	NE	<0.005	<0.00082 U	<0.005	<0.01	<0.0001	0.00021	<0.005		<0.0001	<0.005	0.009	0.0103	0.0014 J	0.001 J	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00012 U	0.0158	<0.0001
	P74-ROX-110112	11/1/2012		41.72	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.0003	<0.0052		<0.0001	<0.0052	0.0123	0.0136	0.0054 J	0.002 J	<0.01	<0.0052	<0.0052 UJ	<0.0052	<0.01	0.00013	0.0307 J	<0.0001
	P74-ROX-011713	1/17/2013		42.65	NE	<0.0051	<0.0051	<0.0051	<0.01	0.000038 J	0.00038	<0.0051		<0.0001	<0.0051	0.0156	0.0198	<0.01	0.001 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00023	0.0298	0.000048 J
	P74-ROX-041113	4/11/2013		42.83	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0046 U	<0.0001
	P74-ROX-071513	7/15/2013		40.11	NE	<0.0054	<0.0054	<0.0054	<0.011	0.00014	0.00011	<0.0054		<0.00011	<0.0054	0.0019	0.00019 J	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00008 U	0.008	0.000074 J
	P74-ROX-101413	10/14/2013		41.72	NE	<0.0054	0.00047 J	<0.0054	<0.011	0.00015	0.00025	<0.0054		<0.00011	<0.0054	0.0073	0.0079	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.000079	0.0125	0.000057 J
	P74-ROX-012414	1/24/2014		43.35	NE	<0.0051	0.00048 J	<0.0051	<0.01	0.000088 J	0.00028	<0.0051		<0.0001	<0.0051	0.0088	0.0106	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00014 U	0.0278	0.000049 J
	P74-ROX-041514	4/15/2014		44.74	NE	<0.0059	<0.0014 U	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.0017 J	0.0022 J	<0.012	<0.012	<0.012	<0.0059	<0.0059 UJ	<0.0059	<0.012	0.000054 JB J	<0.0059 UJ	<0.00012
	P74-ROX-070814	7/8/2014	44.43 - 69.43	43.02	NE	<0.0057	0.00039 J	<0.0057	<0.011	<0.00011	0.00011	<0.0057		<0.00011	<0.0057	0.0034	0.003	<0.011	<0.011	<0.011	<0.0057	<0.0057	<0.0057	<0.011	0.000054 J	<0.0057	<0.00011

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93A	P93A-ROX-102611	10/26/2011	48.17 - 63.17	39.43	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00033	<0.005		<0.0001	<0.005	0.0162	0.0258	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00032	0.193	<0.0001
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.0048	<0.00038 U	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	0.0133	0.0188	<0.0095	0.0029 J	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.00022 U	0.234	<0.000095
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00021	<0.0051		<0.0001	<0.0051	0.0121	0.0151	<0.01	0.0014 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.00021	<0.0051	<0.0001
	P93A-ROX-080912	8/9/2012		43.66	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00021	<0.0054		<0.00011	<0.0054	0.0097	0.013	<0.011	0.00096 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00025	0.208	<0.00011
	P93A-ROX-110712	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00029	<0.0052		<0.0001	<0.0052	0.015	0.0194	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00028 B	0.19	<0.0001
	P93A-ROX-110712-DUP	11/7/2012		45.00	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	0.00037	<0.0052		<0.0001	<0.0052	0.016	0.0206	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00034 B	0.217	<0.0001
	P93A-ROX-012313	1/23/2013		45.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00021	<0.0052		<0.0001	<0.0052	0.0096	0.0093	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00024	0.168	<0.0001
	P93A-ROX-012313-DUP	1/23/2013		45.89	NE	<0.0052 UJ	<0.0052	<0.0052	<0.01	<0.0001	0.00019	<0.0052		<0.0001	<0.0052	0.0094	0.009	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.00023	0.165	<0.0001
	P93A-ROX-041113	4/11/2013		46.29	NE	<0.005	<0.005	<0.005	<0.01	0.000046 J	0.0003	<0.005		<0.0001	<0.005	0.0146 J	0.0098	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00035	0.2	0.00004 J
	P93A-ROX-041113-DUP	4/11/2013		46.29	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00025	<0.005		<0.0001	<0.005	0.0146 J	0.0096	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00024	0.179	<0.0001
	P93A-ROX-071813	7/18/2013		43.25	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	0.00023	<0.0056		<0.00011	<0.0056	0.0089	0.0062	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00021	0.107	<0.00011
	P93A-ROX-101113	10/11/2013		44.18	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00028	<0.005		<0.0001	<0.005	0.0128	0.0085	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00013	0.0837 J	<0.0001
	P93A-ROX-012914	1/29/2014		46.53	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00032	<0.0054		<0.00011	<0.0054	0.0133	0.0072	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00022 B	0.105	<0.00011
	P93A-ROX-041714	4/17/2014		47.41	NE	<0.0056	<0.0012 U	<0.0056	<0.011	<0.00011	0.00027	<0.0056		<0.00011	<0.0056	0.0086	0.0048	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.00018 B J	0.0735	<0.00011
	P93A-ROX-071814	7/18/2014	48.17 - 63.17	45.70	NE	<0.0057	<0.00077 U	<0.0057	<0.011	<0.00011	0.00024	<0.0057		<0.00011	<0.0057	0.0084	0.0053	<0.011	<0.011	<0.011	0.0059	<0.0057	<0.0057	<0.011	0.00017 B	0.0355	<0.00011
	P93A-ROX-071814-DUP	7/18/2014		45.70	NE	<0.0057	<0.00041 U	<0.0057	<0.011	<0.00011	0.00025	<0.0057		<0.00011	<0.0057	0.0095	0.0062	<0.011	<0.011	<0.011	0.0052 J	<0.0057	<0.0057	<0.011	0.00017 B	0.0396	<0.00011
P-93B	P93B-ROX-102611	10/26/2011	74.60 - 76.60	39.48	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.122	<0.0001
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	0.107	<0.000095
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	0.178	<0.00011
	P93B-ROX-110712	11/7/2012		45.05	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	0.00026	0.00045 B	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.13	<0.0001
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	0.0003	0.0005 B	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.114	<0.0001
	P93B-ROX-012313	1/23/2013		45.89	NE	0.00024 J J	0.003 J	<0.0053	<0.011	0.00013	0.00012	0.00058 J		0.00012	<0.0053	<0.00021	0.00012 J	<0.011	0.0014 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00016	0.176	0.00013
	P93B-ROX-041113	4/11/2013		46.32	NE	<0.0051	0.0013 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.122	<0.0001
	P93B-ROX-071813	7/18/2013		43.30	NE	<0.0056	0.0005 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000034 J	0.151	<0.00011
	P93B-ROX-101613	10/16/2013		44.43	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.069	<0.0001
	P93B-ROX-101613-DUP	10/16/2013		44.43	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.082	<0.0001
	P93B-ROX-012814	1/28/2014		46.58	NE	<0.0055	0.00045 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000022 U	0.074	<0.00011
	P93B-ROX-012814-DUP	1/28/2014		46.58	NE	<0.0051	0.00048 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000024 U	0.0927	<0.0001
	P93B-ROX-041714	4/17/2014		47.46	NE	<0.0051	<0.0024 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.0719	<0.0001
	P93B-ROX-041714-DUP	4/17/2014		47.46	NE	<0.0053	<0.00098 U	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	0.0861	<0.00011
	P93B-ROX-071714	7/17/2014	74.60 - 76.60	45.75	NE	<0.0052	<0.00046 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000023 U	<0.0052 UJ	<0.0001
P-93C	P93C-ROX-102611	10/26/2011	94.26 - 96.26	39.36	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P93C-ROX-080912	8/9/2012		43.57	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P93C-ROX-110812	11/8/2012		45.12	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-012313	1/23/2013		45.78	NE	<0.0055 UJ	0.0025 J	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93C-ROX-041213	4/12/2013		46.21	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005 UJ	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93C-ROX-071813	7/18/2013		43.31	NE	<0.0056	<0.0056	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000026 J	0.0352	<0.00011
	P93C-ROX-080813	8/8/2013		43.31	NE																						
	P93C-ROX-101613	10/16/2013		44.31	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.005 J	<0.0001
	P93C-ROX-012414	1/24/2014		46.44	NE	<0.0051	0.00051 J	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93C-ROX-041714	4/17/2014		47.34	NE	<0.0052	<0.00048 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052 UJ	<0.0001
	P93C-ROX-071714	7/17/2014	94.26 - 96.26	45.61	NE	<0.0052	<0.00035 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000024 U	<0.0087 UJ	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			Screening Values (mg/L)				0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
P-93D	P93D-ROX-102711	10/27/2011	125.75 - 127.75	39.59	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00006 U	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P93D-ROX-050812	5/8/2012		42.96	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P93D-ROX-080812	8/8/2012		43.71	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	<0.00042 U	0.00076 J	0.0011 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000054	<0.0052	<0.0001
	P93D-ROX-110812	11/8/2012		NM	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		<0.00011	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	<0.000055	<0.0055	<0.00011
	P93D-ROX-012213	1/22/2013		44.21	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00027	0.00036	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000042 J	<0.0053	<0.00011
	P93D-ROX-041113	4/11/2013		46.37	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0087 U	<0.0001
	P93D-ROX-071213	7/12/2013		43.51	NE	<0.0056 UJ	0.00045 J	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	<0.00022	<0.000059 U	<0.011	<0.011	<0.011	<0.0056	<0.0056 UJ	<0.0056	<0.011	<0.000056	<0.0056 UJ	<0.00011
	P93D-ROX-101113	10/11/2013		44.24	NE	<0.005	<0.005	<0.005	<0.01	0.000087 J	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	<0.00005	<0.005 UJ	0.000084 J
	P93D-ROX-013114	1/31/2014		46.62	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000024 U	<0.0053	<0.00011
	P93D-ROX-041414	4/14/2014		47.54	NE	<0.0053	0.00036 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00003 U	<0.0053	<0.00011
	P93D-ROX-071714	7/17/2014	125.75 - 127.75	45.78	NE	<0.0052	<0.00025 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000022 U	<0.0052 UJ	<0.0001
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.0048	<0.0048	<0.0048	<0.0095	<0.000095	<0.000095	<0.0048		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048	<0.0048	<0.0095	<0.000048	<0.0048	<0.000095
	P114-ROX-012012	1/20/2012		27.17	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		0.000066 J	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	<0.0051	<0.0001
	P114-ROX-050912	5/9/2012		28.09	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.00005	<0.0052	<0.0001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	<0.0001	<0.005		<0.0001	<0.005	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	P114-ROX-110912	11/9/2012		30.90	NE	<0.0052	<0.0052	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-012313	1/23/2013		30.22	NE	<0.0053 UJ	0.0024 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000053	<0.0053	<0.00011
	P114-ROX-041513	4/15/2013		31.80	NE	<0.0052	0.00047 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-071813	7/18/2013		27.22	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	<0.00011	<0.0055		0.000071 J	<0.0055	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.000059	<0.0055	<0.00011
	P114-ROX-071813-DUP	7/18/2013		27.22	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	<0.00021	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.000052 J	<0.0053	<0.00011
	P114-ROX-101713	10/17/2013		29.43	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	P114-ROX-012814	1/28/2014		32.11	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00015 B	<0.0054	<0.00011
	P114-ROX-042114	4/21/2014		32.22	NE	<0.0051	0.0026 JB	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01 UJ	<0.000051	<0.0051	<0.0001
	P114-ROX-071814	7/18/2014	32.67 - 52.67	30.87	NE	<0.0051	<0.00028 U	<0.0051	<0.01	<0.0001	<0.0001	<0.0051		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.00012 U	<0.0051	<0.0001
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.0052	<0.00043 U	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0002 J	0.00017 J	<0.01	0.0087 J	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.000043 J	<0.0052	<0.0001
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.0054	0.0049 J	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00031	0.00038 J	<0.011	0.0056 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.000054	<0.0054	<0.00011
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.0053	0.0017 J	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.00028	0.00031	<0.011	0.0019 J	<0.011	<0.0053	<0.0053 UJ	<0.0053	<0.011	<0.000053	<0.0053 UJ	<0.00011
ROST-3-MW	ROST3MW-ROX-012313	1/23/2013	37.81 - 47.81	41.50	NE	<0.005 UJ	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0061	0.0087	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00068	<0.005	<0.0001
	ROST3MW-ROX-040513	4/5/2013				<0.0054	0.00044 J	<0.0054	<0.011	<0.00011	0.00017	<0.0054		<0.00011	<0.0054	0.0029	0.0039	<0.011	<0.011	<0.011	<0.0054	<0.0054 UJ	<0.0054	<0.011	0.00055	<0.0054 UJ	<0.00011
	ROST3MW-ROX-071113	7/11/2013		39.50	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00043	<0.0054		<0.00011	<0.0054	0.0105 J	0.0142	<0.011 UJ	<0.011 UJ	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00073	<0.0054 UJ	<0.000044 U
	ROST3-MW-ROX-100913	10/9/2013		40.16	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00012	<0.0054		<0.00011	<0.0054	0.0024	0.0026	<0.011 UJ	<0.011 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.011 UJ	0.00014	<0.0054 UJ	0.000044 J
	ROST3MW-ROX-011714	1/17/2014		42.20	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.0011	0.00099	<0.011 UJ	<0.011 UJ	<0.011	<0.0053	<0.0053	<0.0053	<0.011 UJ	0.0002	<0.0053 UJ	<0.00011
	ROST3MW-ROX-041014	4/10/2014		42.80	NE	<0.006	<0.00076 U	<0.006	<0.012	<0.00012	<0.00012	<0.006		<0.00012	<0.006	0.00075	0.0008	<0.012	<0.012	<0.012	<0.006	<0.006	<0.006	<0.012	0.0001	<0.006	<0.00012
	ROST3MW-ROX-071414	7/14/2014	37.81 - 47.81	41.88	NE	<0.0054	<0.0004 U	<0.0054	<0.011	<0.00011	<0.00011	<0.0054		<0.00011	<0.0054	0.00092	0.00097	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	<0.00016 U	<0.0054	<0.00011
ROST-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.005	<0.00058 U	<0.005	<0.01	<0.0001	0.00022	<0.005		<0.0001	<0.005	0.0044	0.0049	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.00082	<0.005	0.000041 J
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.0053	0.0015 J	<0.0053	<0.011	<0.000041 U	0.00032 B	<0.0053		<0.00011	<0.0053	0.0102	0.0136	<0.011	0.00098 J	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0014	0.0023 J	<0.000081 U
	ROST4PZC-ROX-102912	10/29/2012		40.75	NE	<0.0052	0.0018 J	<0.0052	<0.01	<0.0001	<0.0001	<0.0052		<0.0001	<0.0052	0.0004	0.00041	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	0.0002	<0.0052	<0.0001
	ROST4PZ(C)-ROX-011113	1/11/2013		41.42	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	<0.00021	0.000064 J	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00012	<0.0053	<0.00011
	ROST4PZC-ROX-041013	4/10/2013		42.27	NE	<0.0055	<0.0055	<0.0055	<0.011	<0.00011	0.000069 J	<0.0055		<0.00011	<0.0055	0.00062	0.000078 J	<0.011	<0.011	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00018	<0.0055 U	<0.00011
	ROST4PZC-ROX-071113	7/11/2013		40.18	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000099 J	0.00027	<0.0054		<0.00011	<0.0054	0.0027 J	0.0021	<0.011	<0.011	<0.011 UJ	<0.0054	<0.0054	<0.0054	<0.011	0.00052	0.00057 J J	<0.00009 U
	ROST4PZC-ROX-100913	10/9/2013		39.91	NE	<0.0053	<0.0053	<0.0053	<0.011	<0.00011	<0.00011	<0.0053		<0.00011	<0.0053	0.002	0.00095	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0002	<0.0053	<0.00011
	ROST4PZC-ROX-011714	1/17/2014		41.92	NE	<0.0059	<0.0059	<0.0059	<0.012	<0.00012	<0.00012	<0.0059		<0.00012	<0.0059	0.00019 J	<0.00024	<0.01 UJ	<0.01 UJ	<0.012	<0.0059	<0.0059	<0.0059	<0.01 UJ	0.000077	<0.005 UJ	<0.00012
	ROST4PZC-ROX-041014	4/10/2014		42.05	NE	<0.0056	<0.00038 U	<0.0056	<0.011	<0.00011	<0.00011	<0.0056		<0.00011	<0.0056	0.000065 J	<0.00022	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000051 J	<0.0056	<0.00011
	ROST4C-ROX-071114	7/10/2014	34.95 - 44.95	42.22	NE	<0.0053	<0.00031 U	<0.0053	<0.011	<0.0001	<0.0001	<0.0053		<0.0001	<0.0053	0.00021	<0.0002	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00012 U	<0.0053	<0.0001

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 3
CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

						SVOCs																				
						Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	2,6-Dinitrotoluene	Fluoranthene	Fluorene	Hexachlorobenzene	Indene	Indeno(1,2,3-cd)pyrene	Isophorone (3,5,5-trimethyl-2-cyclohexene-1-one)	1-Methylnaphthalene	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	3 & 4-Methylphenol (m & p-Cresol)	3-Nitroaniline	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					Screening Values (mg/L)		0.7 [1]	0.14 [2]	0.00031 [2]	0.28 [1]	0.28 [1]	0.00006 [2]		0.00043 [1]	1.4 [2]	0.49 [3]	0.028 [1]	0.35 [1]	0.35 [3]		0.014 [1]	0.0006 [3]	0.0032 [2]	0.001 [1]	0.21 [3]	0.1 [1]	0.21 [1]
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Product Thickness (ft)	Analytical Results (mg/L)																				
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.0006	<0.0051		<0.0001	<0.0051	0.0264	0.0415	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0015	0.0167	0.0001
	T12-ROX-011912	1/19/2012		41.0	NE	<0.0056	<0.00048 U	<0.0056	<0.011	0.000044 J	0.00043	<0.0056		0.000061 J	<0.0056	0.0158	0.0186	0.00091 J	<0.011	<0.011 UJ	<0.0056	<0.0056	<0.0056	<0.011	0.00054	0.0188	0.000067 J
	T12-ROX-050912	5/9/2012		42.62	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00024	<0.005		<0.0001	<0.005	0.0164	0.0254	<0.01	0.0026 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00062	0.0094	0.000039 J
	T12-ROX-080212	8/2/2012		41.92	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000046 J	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0294	0.0021 J	0.0027 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00089	0.042	0.000062 J
	T12-ROX-110512	11/5/2012		43.91	NE	<0.005	<0.005	<0.005	<0.01	<0.0001	0.00031	<0.005		<0.0001	<0.005	0.0232	0.0354	0.00096 J	0.0015 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00083	<0.005 UJ	0.000048 J
	T12-ROX-011813	1/18/2013		44.50	NE	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.00011	0.00046	<0.0053		<0.00011	<0.0053	0.0241	0.0322	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.0011	0.0265	0.000067 J
	T12-ROX-041513	4/15/2013		44.99	NE	<0.0051	<0.0051	<0.0051	<0.01	<0.0001	0.00037	<0.0051		<0.0001	<0.0051	0.0289	0.0444	0.0047 J	0.0042 J	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.0011	0.0149	0.000063 J
	T12-ROX-071613	7/16/2013		42.33	NE	<0.0054	<0.0054	<0.0054	<0.011	0.000044 J	0.00034	<0.0054		<0.00011	<0.0054	0.0236	0.0331	0.0029 J J	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.0011	0.0514 J	<0.00009 U
	T12-ROX-101513	10/15/2013		43.73	NE	<0.0054	<0.0054	<0.0054	<0.011	<0.00011	0.00029	<0.0054		<0.00011	<0.0054	0.0199	0.0319	0.0018 J	0.0032 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00077	0.0083	0.00009 J
	T12-ROX-012414	1/24/2014		45.26	NE	<0.0051	0.00044 J	<0.0051	<0.01	<0.0001	0.00035	<0.0051		<0.0001	<0.0051	0.0215	0.0326	0.0022 J	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	0.001	0.0498	0.00006 J
	T12-ROX-041514	4/15/2014		46.72	NE	<0.0056	<0.00034 U	<0.0056	<0.011	<0.00011	0.0003	<0.0056		<0.00011	<0.0056	0.0189	0.0283	<0.011	<0.011	<0.011	<0.0056	<0.056 UJ	<0.0056	<0.011	0.00078	0.0672 J	0.00005 J
	T12-ROX-070814	7/8/2014	46.72 - 72.72	45.13	NE	<0.0054	0.00038 J	<0.0054	<0.011	<0.00011	0.00022	<0.0054		<0.00011	<0.0054	0.015	0.0245	0.0092 J	0.0033 J	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00051	<0.0054	<0.00011

Notes:

1 Denotes screening critieria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening critieria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

4 Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historical results were reported by PAH analysis.

5 Beginning in 4Q13, professional judgment criteria used to review common laboratory contaminants was reevaluated. Acetone, 2-butanone, and methylene chloride are only U-qualified when present in the method blank.

6 The laboratory has been requested to perform a library search in all samples for butane, hexane, isopentane, 1,2,3-trimethy benzene, and indene, which are reported as Tentatively Identified Compounds (TICs), when identified.

LABORATORY QUALIFIERS
B = Target analyte or common lab contaminant was identified in the method blank indicating possible field or lab contamination.
D = The result is from a diluted sample.
J = The analyte was detected below the reporting limit. Result is estimated.
E = The value exceeds calibration range.
JN = Estimated value for tentatively identified compound (library search).

URS QUALIFIERS
J = The result is estimated.
UJ = Estimated non-detect.
U = Result is non-detect.

Indicates a historical exceedance or screening criteria.
Indicates a current exceedance or screening criteria.
Empty cell without a value indicates previous quarter analyte result was rejected or the analyte was not part of method list when sampled.

File: \\URSSTLOUIS.US.IE.URS\STLOUIS\PROJECTS\ENVIRONMENTAL\SHELL\ACCUTEST_DATA_REVIEW\1_DRAFT_DELIVERABLES\2014-10-10_ROXANA_3Q14_GW_RPT\FIGURES\FIGURE_5_3Q14_GROUNDWATER_ANALYTICAL_RESULTS_SUMMARY.DWG Last edited: APR 19, 17 @ 11:56 a.m. by: wendy.pennington

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER SAMPLING LOCATION
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED

NOTES:

1. PER DIRECTION FROM IEPA, ANALYTICAL RESULTS ARE SCREENED AGAINST CRITERIA OUTLINED IN THE WRR RCRA PART B PERMIT.
2. GROUNDWATER CLASS I SCREENING CRITERIA.

Analyte	Screening Criteria (mg/L)
Benzene	0.005
Ethylbenzene	0.7
MTBE	0.07
Naphthalene	0.14
Toluene	1.0
1,3,5-Trimethylbenzene	0.07
2,4-Dimethylphenol	0.14
Indeno(1,2,3-cd)pyrene	0.00043
2-Methylnaphthalene	0.028
Phenol	0.1

3. J = THE TARGET ANALYTE DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
4. MULTIPLE RESULTS (e.g., 1290/1390) INDICATE DUPLICATE SAMPLES.
5. WELLS IDENTIFIED IN BLUE WITH NO DATA BOX INDICATE THE RESULTS DID NOT EXCEED SCREENING CRITERIA.
6. WELLS P-55 AND P-68 WERE NOT SAMPLED DURING 2Q14 DUE TO THE PRESENCE OF LNAPL.

Sample Location	ROST-3-MW
Sampled 7/14/14	Result (mg/L)
Benzene	0.0058

Sample Location	ROST-4-PZ (C)
Sampled 7/10/14	Result (mg/L)
Benzene	0.0751

Sample Location	T-12
Sampled 7/8/14	Result (mg/L)
Benzene	2.1
Naphthalene	0.146

Sample Location	MW-22
Sampled 7/14/14	Result (mg/L)
Benzene	1.74
Ethylbenzene	1.93
Naphthalene	0.282 J
Toluene	3.14
1,3,5-Trimethylbenzene	0.262 J
2-Methylnaphthalene	0.0355

Sample Location	P-74
Sampled 7/8/14	Result (mg/L)
Benzene	0.309

Sample Location	P-56
Sampled 7/8/14	Result (mg/L)
Benzene	0.127 J
Ethylbenzene	1.71 J
Naphthalene	0.156 J
1,3,5-Trimethylbenzene	0.166 J

Sample Location	MW-2
Sampled 7/14/14	Result (mg/L)
Benzene	0.0102 J
Ethylbenzene	0.955
1,3,5-Trimethylbenzene	0.15 J

Sample Location	P-57
Sampled 7/8/14	Result (mg/L)
Benzene	378 / 371
Ethylbenzene	1.12 / 1.21
1,3,5-Trimethylbenzene	0.0913 J / 0.0954 J
2-Methylnaphthalene	0.0306 / 0.03
Phenol	0.141 / 0.136

Sample Location	P-59
Sampled 7/8/14	Result (mg/L)
Benzene	12.2
Ethylbenzene	1.92
Naphthalene	0.228 J
Toluene	1.55
1,3,5-Trimethylbenzene	0.285 J
2,4-Dimethylphenol	0.17
2-Methylnaphthalene	0.0291

Sample Location	P93A	P93B	P93C
Sampled 7/17/14, 7/18/14	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	170 / 174	172	1.52

Sample Location	MW-4
Sampled 7/16/14	Result (mg/L)
Benzene	1.86

Sample Location	MW-7
Sampled 7/16/14	Result (mg/L)
Benzene	1270 / 1370

Sample Location	P-58
Sampled 7/18/14	Result (mg/L)
Benzene	406
Indeno(1,2,3-cd)pyrene	0.0005
2-Methylnaphthalene	0.0554
Phenol	0.173

Sample Location	MW-8
Sampled 7/16/14	Result (mg/L)
Benzene	276
MTBE	0.392 J
1,3,5-Trimethylbenzene	0.0904 J
Phenol	0.111

Sample Location	P-66
Sampled 7/7/14	Result (mg/L)
Benzene	0.0429

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFEE ST
RAND AVENUE
1986 APPROXIMATE BENZENE RELEASE SITE
NORTH PROPERTY
VILLAGE OF ROXANA
WOOD RIVER REFINERY
WEST PROPERTY
MAIN PROPERTY
BP

MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-24, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6A, MW-6B, MW-6C, MW-6D, MW-7, MW-8, ROST-3-MW, ROST-4-PZ(A), ROST-4-PZ(B), ROST-4-PZ(C), ROST-4-PZ(D), ROST-4-PZ(E), ROST-4-PZ(F), ROST-4-PZ(G), ROST-4-PZ, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, ROST-21-PZ, P-54, P-55, P-56, P-57, P-58, P-59, P-60-S, P-60-12, P-60-12S, P-60-13, P-60-13S, P-66, P-68, P-69, P-73, P-74, P-75, P-93A, P-93B, P-93C, P-93D, P-114, T-6, T-12, T-24, A-27, A-28, W-71

0 200 SCALE FEET

N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562973
URS		REVISION 1 APRIL 2017
DRN. BY: djd October 2014 DSGN. BY: lr CHKD. BY: bbb	3Q14 Groundwater Monitoring Well Analytical Exceedances	FIG. NO. 5

File: \\URSSTLOUIS\STLOUIS\PROJECTS\ENVIRONMENTAL\SHELL\ACCUTEST DATA REVIEW\1. DRAFT DELIVERABLES\2014-10-10_ ROXANA 3Q14 GW RPT\FIGURES\FIGURE 6 DISSOLVED PHASE BENZENE CONCENTRATIONS IN GROUNDWATER (REVISED APRIL 2017).DWG Last edited: MAY 05, 17 @ 08:41 a.m. by: wendy.pennington

LEGEND

- GROUNDWATER MONITORING WELL SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
- GROUNDWATER MONITORING WELL LNAPL THICKNESS
- GROUNDWATER PIEZOMETER SAMPLING LOCATION
- GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- GROUNDWATER PIEZOMETER LNAPL THICKNESS
- LNAPL THICKNESS CONTOUR (FEET)
- EXTENT OF EVS MODEL DATA SET
- 50.0 GROUNDWATER CONCENTRATION BENZENE (mg/L)

NOTES:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. GROUNDWATER MONITORING WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA. SOME INTERPRETATION WAS COMPLETED UTILIZING PROFESSIONAL JUDGEMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. ALL RESULTS SHOWN IN mg/L.
3. ANALYTICAL REPORTING LIMITS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g., <0.0005 mg/L).
4. J = THE TARGET ANALYTE WAS DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.
   U = RESULTS IS NON-DETECT.
5. NON-DETECT VALUES ARE MODELED AT HALF THE REPORTING LIMIT.
6. MULTIPLE RESULTS (e.g. 1290/1390) INDICATE DUPLICATE SAMPLES.
7. CONTOUR LINES IN AREA OF P-55 ADJUSTED BASED ON AVAILABLE 3Q14 AND HISTORICAL ANALYTICAL DATA FROM WELLS IN THE AREA.

LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON JULY 1-3, 2014. REFER TO TABLE 1 FOR GROUNDWATER GAUGING INFORMATION.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
HIGHWAY 111 (S. CENTRAL AVE)
CHAFFER ST
RAND AVENUE
VILLAGE OF ROXANA
NORTH PROPERTY
WOOD RIVER REFINERY
MAIN PROPERTY
WEST PROPERTY
PUBLIC WORKS YARD
BP
1986 APPROXIMATE BENZENE RELEASE SITE

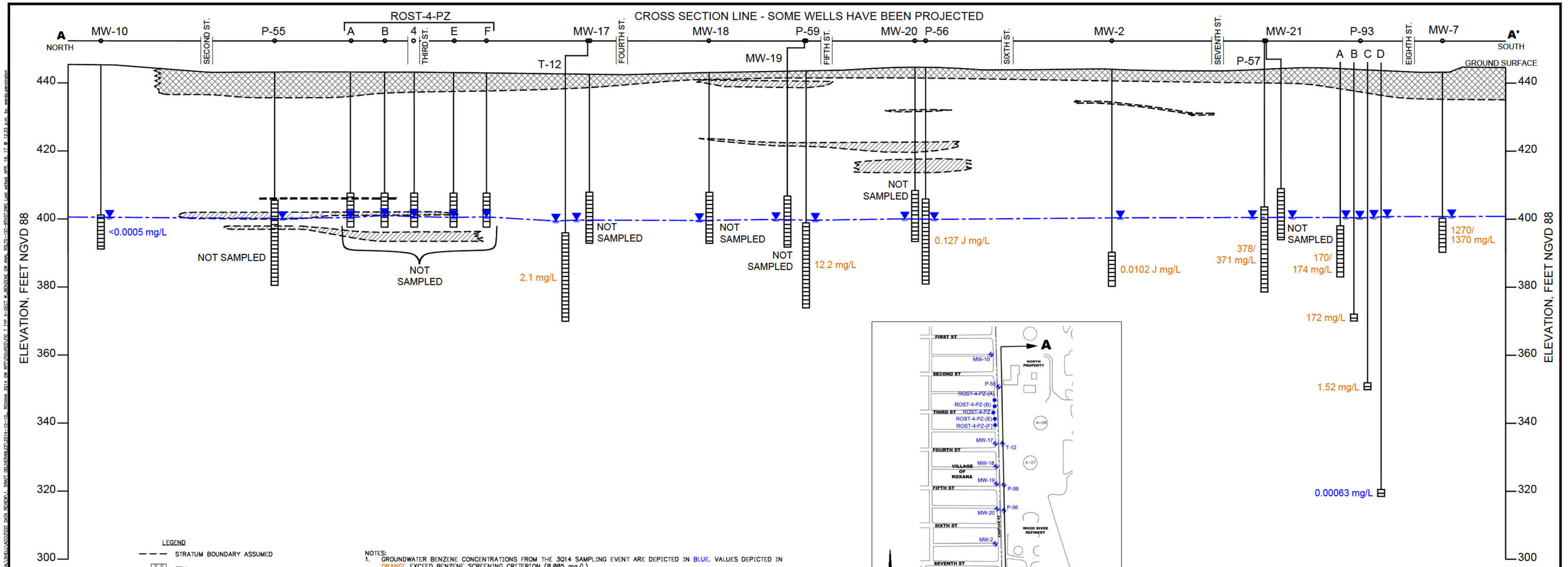
MW-9 <0.0005
MW-10 <0.0005
MW-11 <0.0005
MW-12 <0.0005
MW-13 <0.0005
MW-14 <0.0005
MW-16 <0.0005
MW-24 <0.0005
P-54 <0.0005
P-114 <0.0005
MW-22 1.74
MW-3 0.00062
MW-4 1.86
MW-5 0.001
MW-8 276
MW-1 <0.0005
MW-2 0.0102J
MW-7 1270/1370
P-58 406
P-59 12.2
P-55 0.13
P-60-11
P-60-S 0.02
P-60 0.08
P-68 0.05
P-74 0.309
P-61 0.74*
P-70 0.66*
P-56 0.127J
P-57 378/371
P-93A 170/174
P-93B 172
P-93C 1.52
P-93D 0.00063
P-66 0.0429
MW-6A <0.0005
MW-6B <0.0005
MW-6C <0.0005
MW-6D <0.0005/ <0.0005
T-12 2.1
T-24 0.17
ROST-3-MW 0.0058
ROST-4-PZ(A)
ROST-4-PZ(B)
ROST-4-PZ(C) 0.0751
ROST-4-PZ(D)
ROST-4-PZ(E)
ROST-4-PZ(F)
ROST-4-PZ(G)
A-28
A-27
P-69
P-75
P-73
P-116
P-115

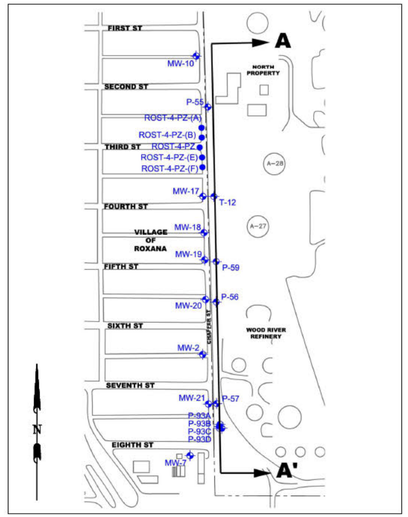
0.10 0.01 0.005 0.05 0.5 5.0 50.0 500.0

0 200 SCALE FEET

N

SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562973
URS		REVISION 1 APRIL 2017
DRN. BY: djd October 2014 DSGN. BY:nm/lr CHKD. BY:bbb	3Q14 Dissolved Phase Benzene Concentrations in Groundwater	FIG. NO. 6





KEYMAP
NOT TO SCALE

LEGEND

- STRATUM BOUNDARY ASSUMED
- FILL
- CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
- SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
- WELL SCREEN
- WATER LEVEL
- POTENTIOMETRIC SURFACE – ESTIMATED

NOTES:

1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 3Q14 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.005 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED JULY 1–3, 2014.
3. THIS CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2006 AND 2009 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON CPT LOGS GENERATED AT NEARBY LOCATIONS. THEREFORE, WELL SCREENS MAY APPEAR TO BE PARTIALLY WITHIN CLAY LAYERS OR SHALLOW/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS.
5. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-12.
6. J = THE TARGET ANALYTE WAS DETECTED BELOW THE REPORTING LIMIT AND THE RESULT IS ESTIMATED.

0 20
VERTICAL SCALE FEET

0 100
HORIZONTAL SCALE FEET

SHELL OIL PRODUCT US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562973
URS	REVISION 1 APRIL 2017
DRN. BY: djd October 2014 DSGN. BY: lr CHKD. BY: bbb	Cross-Section of Benzene 3Q14 Groundwater Analytical Results– Chaffer Street
	FIG. NO. 7

CROSS SECTION LINE - SOME WELLS HAVE BEEN PROJECTED

WEST B — B' EAST

MW-6D MW-6C MW-6B MW-6A SVE-27 MW-7 P-93A P-93B P-93C P-93D T-6

(S. CENTARL AVE) HIGHWAY 111 — EIGHTH ST — SEVENTH ST

GROUND SURFACE

ELEVATION, FEET NGVD 88

440 420 400 380 360 340 320

<0.0005 mg/L

<0.0005 mg/L

<0.0005 mg/L

<0.0005/<0.0005 mg/L

1270/
1370 mg/L

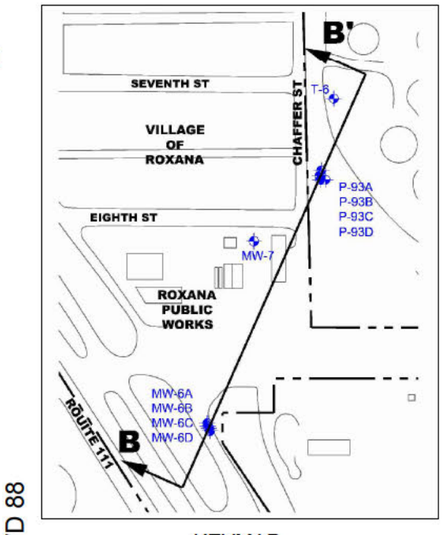
170/
174 mg/L

172 mg/L

1.52 mg/L

0.00063 mg/L

NOT SAMPLED



KEYMAP
NOT TO SCALE

LEGEND

- STRATUM BOUNDARY ASSUMED
- FILL
- CLAY PROJECTED BETWEEN POINTS (INCLUDES SILTY CLAY AND SANDY CLAY)
- SAND PROJECTED BETWEEN POINTS (INCLUDES SILTY SAND AND CLAYEY SAND)
- SILT
- SHALE
- WELL SCREEN
- WATER LEVEL
- POTENTIOMETRIC SURFACE – ESTIMATED

VERTICAL SCALE 0 20 FEET

HORIZONTAL SCALE 0 100 FEET

NOTES:
1. GROUNDWATER BENZENE CONCENTRATIONS FROM THE 3Q14 SAMPLING EVENT ARE DEPICTED IN BLUE. VALUES DEPICTED IN ORANGE EXCEED BENZENE SCREENING CRITERION (0.005 mg/L).
2. GROUNDWATER ELEVATIONS SHOWN ON THIS CROSS-SECTION ARE BASED ON GROUNDWATER GAUGING DATA COLLECTED JULY 1-3, 2014.
3. THIS CROSS-SECTION IS PRIMARILY BASED ON THE INTERPRETATION OF CPT DATA COLLECTED BY URS DURING THE 2006 AND 2009 INVESTIGATION ACTIVITIES. BORING LOGS DEVELOPED DURING OTHER DRILLING TECHNIQUES (E.G. AUGER AND GEOPROBE) WERE USED TO SUPPLEMENT CPT DATA.
4. THE DEPTH AND THICKNESS OF INDIVIDUAL STRATA DEPICTED MAY BE BASED ON CPT LOGS GENERATED AT NEARBY LOCATIONS. THEREFORE, WELL SCREENS MAY APPEAR TO BE PARTIALLY WITHIN CLAY LAYERS OR SHALLOW/DEEPER WITHIN A PERMEABLE STRATUM THAN ACTUAL CONDITIONS DUE TO MAP PROJECTIONS.
5. LITHOLOGICAL INFORMATION FROM SVE-27 WAS OBTAINED FROM BORING LOG TO SUPPLEMENT SITE GEOLOGY ONLY.
6. HISTORIC BORING LOG IS NOT AVAILABLE FOR T-6.

SHELL OIL PRODUCT US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS	PROJECT NO. 21562973
URS	REVISION 1 APRIL 2017
DRN. BY: djd October 2014 DSGN. BY: ir CHKD. BY: wmp	Cross-Section of Benzene 3Q14 Groundwater Analytical Results-Roxana Public Works Yard
	FIG. NO. 8

File: \\URSSTLOUIS.US.AE.URS.STOURS\PROJECTS\ENVIRONMENTAL\SHELL\ACCUTEST DATA REVIEW\1_DRAFT DELIVERABLES\2014-10-10_ROXANA 3Q14 GW RPT\FIGURES\FIG 8 TYP X-SECT W_BENZENE GW ANAL RSLTS-HWY111-CHAFFER.DWG Last edited: APR. 19, 17 @ 12:35 p.m. by: wendy.pennington

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC31918

Sampling Date: 07/07/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 83

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

November 02, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC31918

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC31918

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
MC31918-1	07/07/14	10:10	07/08/14	AQ	Ground Water	MW14-ROX-070714
MC31918-2	07/07/14	10:35	07/08/14	AQ	Equipment Blank	P66-ROX-070714-EB
MC31918-3	07/07/14	11:25	07/08/14	AQ	Ground Water	P66-ROX-070714
MC31918-3D	07/07/14	11:25	07/08/14	AQ	Ground Water	P66-ROX-070714
MC31918-3S	07/07/14	11:25	07/08/14	AQ	Ground Water	P66-ROX-070714
MC31918-4	07/07/14	14:10	07/08/14	AQ	Ground Water	MW13-ROX-070714
MC31918-5	07/07/14	00:00	07/08/14	AQ	Trip Blank Water	TB-070714-HCL
MC31918-6	07/07/14	00:00	07/08/14	AQ	Trip Blank Water	TB-070714-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3 9 8

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** /2/20 6 8:25:32 AM

4 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 07/07/20 4 and were rece ved at SGS Accutest New Eng and on 07/08/20 4 proper y preserved, at 2 9 Deg C and ntact These Samp es rece ved a job number of MC3 9 8 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 220

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for V ny ch or de, Acetone, Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for ,2-D ch oropropane, ,4-D oxane, 2-Ch oroethy v ny ether, Acetone, Benzene, Ch oroethane, Methy Tert Buty Ether, n-Buty benzene, Naphtha ene, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for ,2,4-Tr ch orobenzene, ,2-D ch oropropane, ,4-D oxane, Benzene, Acetone, Isopropy benzene, Methy Tert Buty Ether, Naphtha ene, V ny Acetate, 2-Ch oroethy v ny ether are outs de contro m ts H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- RPD(s) for MSD for 2-Ch oroethy v ny ether, Benzene are outs de contro m ts for samp e MC3 9 8-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC3 9 8-3MSD for Isopropy benzene, n-Propy benzene : Outs de contro m ts due to h gh eve n samp e re at ve to sp ke amount
- ,2-D ch oroethane, Methy Tert Buty Ether, Acetone: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased h gh
- 2-Ch oroethy v ny ether: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MSV 220-BS for V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC3 9 8-3MS for Isopropy benzene: Outs de contro m ts due to h gh eve n samp e re at ve to sp ke amount

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP38904

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 3,3'-D ch orobenz d ne, Hexach orocyc opentad ene are outs de contro m ts Probab e cause due to matr x nterference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38905

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP38952

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC3 9 8)

Summary of Hits

Job Number: MC31918
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31918-1	MW14-ROX-070714					
sec-Butylbenzene		0.42 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		0.47 J	5.0	0.39	ug/l	SW846 8260C
Isopropylbenzene		0.73 J	5.0	0.35	ug/l	SW846 8260C
Di-n-butyl phthalate		0.31 J	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.48 J	2.2	0.36	ug/l	SW846 8270D
Acenaphthene		0.33	0.11	0.075	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.063 J	0.11	0.054	ug/l	SW846 8270D BY SIM
Fluorene		0.24	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		1.4	0.22	0.054	ug/l	SW846 8270D BY SIM
Phenanthrene		0.24	0.054	0.014	ug/l	SW846 8270D BY SIM
MC31918-2	P66-ROX-070714-EB					
1-Methylnaphthalene		0.056 J	0.22	0.054	ug/l	SW846 8270D BY SIM
Phenanthrene		0.10	0.054	0.014	ug/l	SW846 8270D BY SIM
MC31918-3	P66-ROX-070714					
Benzene		42.9	0.50	0.32	ug/l	SW846 8260C
n-Butylbenzene		11.2	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		14.7	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		2.3 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		1.6	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		144	5.0	0.35	ug/l	SW846 8260C
n-Propylbenzene		102	5.0	0.49	ug/l	SW846 8260C
Toluene		2.2	1.0	0.33	ug/l	SW846 8260C
m,p-Xylene		1.0	1.0	0.93	ug/l	SW846 8260C
o-Xylene		0.99 J	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		2.0	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.30 J	5.6	0.19	ug/l	SW846 8270D
Acenaphthene		0.33	0.11	0.077	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.16	0.11	0.055	ug/l	SW846 8270D BY SIM
Fluorene		0.78	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		44.5	0.22	0.055	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		6.0	0.22	0.082	ug/l	SW846 8270D BY SIM
Phenanthrene		0.41	0.056	0.014	ug/l	SW846 8270D BY SIM
MC31918-4	MW13-ROX-070714					
Methyl Tert Butyl Ether [a]		9.1	1.0	0.51	ug/l	SW846 8260C
Acenaphthylene		0.061 J	0.11	0.054	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC31918
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31918-5	TB-070714-HCL					
No hits reported in this sample.						
MC31918-6	TB-070714-ST					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32981.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	0.42	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	0.47	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.73	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03492.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.31	5.4	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/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:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.48	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	83%		15-110%
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90645.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.33	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	0.063	0.11	0.054	ug/l	J
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.24	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	1.4	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.24	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW14-ROX-070714		
Lab Sample ID:	MC31918-1	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39532.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		36-173%
460-00-4	Bromofluorobenzene (S)	120%		36-173%

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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32977.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03493.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	55%		15-110%
4165-60-0	Nitrobenzene-d5	51%		30-130%
321-60-8	2-Fluorobiphenyl	48%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90646.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.056	0.22	0.054	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.10	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		30-130%
321-60-8	2-Fluorobiphenyl	41%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	P66-ROX-070714-EB		
Lab Sample ID:	MC31918-2	**Date Sampled:**	07/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/08/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39533.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	97%		36-173%
460-00-4	Bromofluorobenzene (S)	99%		36-173%

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:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	42.9	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	11.2	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	14.7	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	2.3	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	144	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	102	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	2.2	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	1.0	1.0	0.93	ug/l	
95-47-6	o-Xylene	0.99	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	2.0	1.0	0.36	ug/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:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03491.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.30	5.6	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90644.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.33	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	0.16	0.11	0.055	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	0.78	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	44.5	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	6.0	0.22	0.082	ug/l	
85-01-8	Phenanthrene	0.41	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

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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:	P66-ROX-070714		
Lab Sample ID:	MC31918-3	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39534.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	115%		36-173%

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:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32982.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	9.1	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03494.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.91	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.5	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.5	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.5	0.31	ug/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:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.33	ug/l	
78-59-1	Isophorone	ND	5.5	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90647.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.076	ug/l	
208-96-8	Acenaphthylene	0.061	0.11	0.054	ug/l	J
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.055	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.055	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.055	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-ROX-070714		
Lab Sample ID:	MC31918-4	**Date Sampled:**	07/07/14
Matrix:	AQ - Ground Water	**Date Received:**	07/08/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39535.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	35.4 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	122%		36-173%
460-00-4	Bromofluorobenzene (S)	96%		36-173%

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:	TB-070714-HCL		
Lab Sample ID:	MC31918-5	**Date Sampled:**	07/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32974.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-070714-HCL		
Lab Sample ID:	MC31918-5	**Date Sampled:**	07/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [a]	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-070714-HCL		
Lab Sample ID:	MC31918-5	**Date Sampled:**	07/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/08/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	TB-070714-ST		
Lab Sample ID:	MC31918-6	**Date Sampled:**	07/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/08/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39537.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	133%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

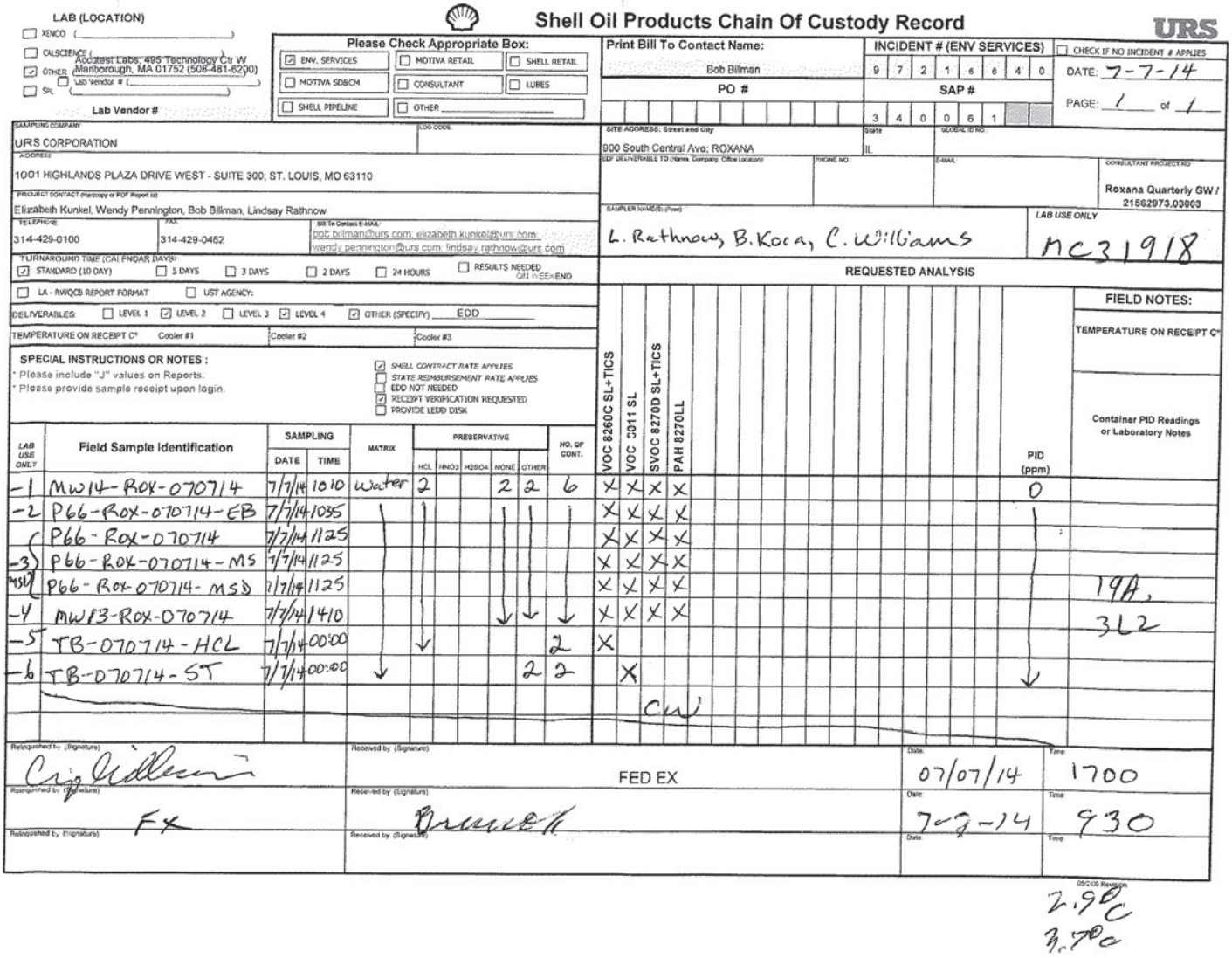
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7-7-14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
SAMPLER NAME(S) (Print): L. Rathnow, B. Koca, C. Williams
LAB USE ONLY: MC31918

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 5011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	MW14-ROX-070714	7/7/14	1010	Water	2			2	2	6	X	X	X	X	0	
-2	P66-ROX-070714-EB	7/7/14	1035								X	X	X	X		
	P66-ROX-070714	7/7/14	1125								X	X	X	X		
-3	P66-ROX-070714-MS	7/7/14	1125								X	X	X	X		
MSD	P66-ROX-070714-MSD	7/7/14	1125								X	X	X	X		19A, 3L2
-4	MW13-ROX-070714	7/7/14	1410								X	X	X	X		
-5	TB-070714-HCL	7/7/14	00:00						2	2	X					
-6	TB-070714-ST	7/7/14	00:00						2	2		X				
													C/W			

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	FED EX	07/07/14	1700
FX	[signature]	7-9-14	930

05C08 Revision

2.9°C
3.7°C

MC31918: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC31918 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/8/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: URS **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC31918: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31918

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31918-1 Collected: 07-JUL-14 10:10 By: MW14-ROX-070714			Received: 08-JUL-14	By: NT		
MC31918-1	SW846 8270D BY SIM	14-JUL-14 10:47	MR	10-JUL-14	FC	B8270SIMSL
MC31918-1	SW846 8011	15-JUL-14 18:37	NK	14-JUL-14	AW	V8011SL
MC31918-1	SW846 8270D	16-JUL-14 11:54	WK	10-JUL-14	FC	AB8270SL+
MC31918-1	SW846 8260C	18-JUL-14 14:45	AMY			V8260SL+
MC31918-2 Collected: 07-JUL-14 10:35 By: P66-ROX-070714-EB			Received: 08-JUL-14	By: NT		
MC31918-2	SW846 8270D BY SIM	14-JUL-14 11:10	MR	10-JUL-14	FC	B8270SIMSL
MC31918-2	SW846 8011	15-JUL-14 18:57	NK	14-JUL-14	AW	V8011SL
MC31918-2	SW846 8270D	16-JUL-14 12:15	WK	10-JUL-14	FC	AB8270SL+
MC31918-2	SW846 8260C	18-JUL-14 13:02	AMY			V8260SL+
MC31918-3 Collected: 07-JUL-14 11:25 By: P66-ROX-070714			Received: 08-JUL-14	By: NT		
MC31918-3	SW846 8270D BY SIM	14-JUL-14 10:23	MR	10-JUL-14	FC	B8270SIMSL
MC31918-3	SW846 8011	15-JUL-14 19:17	NK	14-JUL-14	AW	V8011SL
MC31918-3	SW846 8270D	16-JUL-14 11:34	WK	10-JUL-14	FC	AB8270SL+
MC31918-3	SW846 8260C	18-JUL-14 14:20	AMY			V8260SL+
MC31918-4 Collected: 07-JUL-14 14:10 By: MW13-ROX-070714			Received: 08-JUL-14	By: NT		
MC31918-4	SW846 8270D BY SIM	14-JUL-14 11:33	MR	10-JUL-14	FC	B8270SIMSL
MC31918-4	SW846 8011	15-JUL-14 19:37	NK	14-JUL-14	AW	V8011SL
MC31918-4	SW846 8270D	16-JUL-14 12:35	WK	10-JUL-14	FC	AB8270SL+
MC31918-4	SW846 8260C	18-JUL-14 15:12	AMY			V8260SL+
MC31918-5 Collected: 07-JUL-14 00:00 By: TB-070714-HCL			Received: 08-JUL-14	By: NT		
MC31918-5	SW846 8260C	18-JUL-14 11:43	AMY			V8260SL+
MC31918-6 Collected: 07-JUL-14 00:00 By: TB-070714-ST			Received: 08-JUL-14	By: NT		

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31918

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31918-6	SW846 8011	15-JUL-14 20:16	NK	14-JUL-14	AW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/08/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31918-1.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-1.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-1.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-1.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-1.1	Scott Parsick		09/25/14 16:08	Disposed
MC31918-1.4	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-1.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-1.5	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-1.5	Scott Parsick		09/25/14 16:08	Disposed
MC31918-2.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-2.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-2.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-2.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-2.1	Scott Parsick		09/25/14 16:08	Disposed
MC31918-2.2	VOC Ref #3	Amy Min Yang	07/20/14 11:15	Retrieve from Storage
MC31918-2.2	Amy Min Yang	GCMSH	07/20/14 11:15	Load on Instrument
MC31918-2.2	GCMSH	Amy Min Yang	07/22/14 09:51	Unload from Instrument
MC31918-2.2	Amy Min Yang	VOC Ref #3	07/22/14 09:51	Return to Storage
MC31918-2.2	Scott Parsick		09/25/14 16:08	Disposed
MC31918-2.3	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-2.3	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-2.6	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-2.6	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-3.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-3.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-3.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-3.1	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.6	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-3.6	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.7	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-3.7	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-3.7	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-3.7	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-3.7	Scott Parsick		09/25/14 16:08	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/08/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31918-3.8	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-3.8	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-3.8	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-3.8	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-3.8	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.9	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-3.9	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-3.9	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-3.9	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-3.9	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.11	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-3.11	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-3.13	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-3.13	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-3.14	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-3.14	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-3.16	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-3.16	Scott Parsick		09/25/14 16:08	Disposed
MC31918-3.17	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-3.17	Scott Parsick		09/25/14 16:08	Disposed
MC31918-4.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-4.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-4.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-4.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31918-4.1	Scott Parsick		09/25/14 16:08	Disposed
MC31918-4.4	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-4.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31918-4.5	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31918-4.5	Scott Parsick		09/25/14 16:08	Disposed
MC31918-5.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31918-5.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31918-5.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31918-5.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/08/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31918-5.1	Scott Parsick		09/25/14 16:08	Disposed
MC31918-6.1	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31918-6.1	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	70-130%
2037-26-5	Toluene-D8	91%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	28.1	56* [a]	70-130
107-02-8	Acrolein	250	259	104	70-130
107-13-1	Acrylonitrile	50	51.3	103	70-130
71-43-2	Benzene	50	51.5	103	70-130
108-86-1	Bromobenzene	50	50.9	102	70-130
74-97-5	Bromochloromethane	50	50.1	100	70-130
75-27-4	Bromodichloromethane	50	56.5	113	70-130
75-25-2	Bromoform	50	55.1	110	70-130
74-83-9	Bromomethane	50	74.7	149* [a]	70-130
78-93-3	2-Butanone (MEK)	50	38.4	77	70-130
104-51-8	n-Butylbenzene	50	53.6	107	70-130
135-98-8	sec-Butylbenzene	50	55.5	111	70-130
98-06-6	tert-Butylbenzene	50	54.5	109	70-130
75-15-0	Carbon disulfide	50	43.8	88	70-130
56-23-5	Carbon tetrachloride	50	60.6	121	70-130
108-90-7	Chlorobenzene	50	50.8	102	70-130
75-00-3	Chloroethane	50	77.1	154* [a]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	42.4	85	70-130
67-66-3	Chloroform	50	53.8	108	70-130
74-87-3	Chloromethane	50	73.1	146* [a]	70-130
95-49-8	o-Chlorotoluene	50	53.3	107	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	52.1	104	70-130
95-50-1	1,2-Dichlorobenzene	50	51.7	103	70-130
541-73-1	1,3-Dichlorobenzene	50	51.8	104	70-130
106-46-7	1,4-Dichlorobenzene	50	51.3	103	70-130
75-71-8	Dichlorodifluoromethane	50	49.7	99	70-130
75-34-3	1,1-Dichloroethane	50	57.8	116	70-130
107-06-2	1,2-Dichloroethane	50	56.4	113	70-130
75-35-4	1,1-Dichloroethene	50	53.7	107	70-130
156-59-2	cis-1,2-Dichloroethene	50	51.9	104	70-130
156-60-5	trans-1,2-Dichloroethene	50	57.1	114	70-130
78-87-5	1,2-Dichloropropane	50	48.4	97	70-130
142-28-9	1,3-Dichloropropane	50	49.4	99	70-130
594-20-7	2,2-Dichloropropane	50	60.6	121	70-130
563-58-6	1,1-Dichloropropene	50	54.8	110	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	70-130
10061-02-6	trans-1,3-Dichloropropene	50	58.2	116	70-130
123-91-1	1,4-Dioxane	250	246	98	70-130
97-63-2	Ethyl methacrylate	50	38.7	77	77-137
100-41-4	Ethylbenzene	50	53.8	108	70-130
87-68-3	Hexachlorobutadiene	50	46.7	93	70-130
591-78-6	2-Hexanone	50	35.5	71	70-130
98-82-8	Isopropylbenzene	50	57.1	114	70-130
99-87-6	p-Isopropyltoluene	50	55.2	110	70-130
1634-04-4	Methyl Tert Butyl Ether	50	54.6	109	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	43.6	87	70-130
74-95-3	Methylene bromide	50	49.7	99	70-130
75-09-2	Methylene chloride	50	54.7	109	70-130
91-20-3	Naphthalene	50	39.5	79	70-130
103-65-1	n-Propylbenzene	50	53.2	106	70-130
100-42-5	Styrene	50	50.5	101	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	56.9	114	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.5	101	70-130
127-18-4	Tetrachloroethene	50	50.9	102	70-130
108-88-3	Toluene	50	47.2	94	70-130
87-61-6	1,2,3-Trichlorobenzene	50	42.9	86	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.9	90	70-130
71-55-6	1,1,1-Trichloroethane	50	54.9	110	70-130
79-00-5	1,1,2-Trichloroethane	50	43.9	88	70-130
79-01-6	Trichloroethene	50	48.7	97	70-130
75-69-4	Trichlorofluoromethane	50	71.0	142* [a]	70-130
96-18-4	1,2,3-Trichloropropane	50	53.2	106	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	70-130
108-05-4	Vinyl Acetate	50	52.5	105	70-130
75-01-4	Vinyl chloride	50	70.9	142* [b]	70-130
	m,p-Xylene	100	106	106	70-130
95-47-6	o-Xylene	50	53.7	107	70-130
1330-20-7	Xylene (total)	150	160	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	66.5	133* [a]	50	66.1	132* [a]	1	70-130/30
107-02-8	Acrolein	ND		250	245	98	250	246	98	0	70-130/30
107-13-1	Acrylonitrile	ND		50	46.6	93	50	47.5	95	2	70-130/30
71-43-2	Benzene	42.9		50	205	324* [a]	50	126	166* [a]	48* [b]	70-130/30
108-86-1	Bromobenzene	ND		50	53.5	107	50	51.3	103	4	70-130/30
74-97-5	Bromochloromethane	ND		50	51.8	104	50	50.9	102	2	70-130/30
75-27-4	Bromodichloromethane	ND		50	57.7	115	50	57.9	116	0	70-130/30
75-25-2	Bromoform	ND		50	53.0	106	50	54.6	109	3	70-130/30
74-83-9	Bromomethane	ND		50	65.0	130	50	62.2	124	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	45.4	91	50	46.4	93	2	70-130/30
104-51-8	n-Butylbenzene	11.2		50	76.7	131* [a]	50	74.0	126	4	70-130/30
135-98-8	sec-Butylbenzene	14.7		50	79.1	129	50	75.5	122	5	70-130/30
98-06-6	tert-Butylbenzene	2.3	J	50	61.5	118	50	58.2	112	6	70-130/30
75-15-0	Carbon disulfide	ND		50	51.8	104	50	50.4	101	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	50.3	101	50	50.4	101	0	70-130/30
108-90-7	Chlorobenzene	ND		50	54.2	108	50	52.9	106	2	70-130/30
75-00-3	Chloroethane	ND		50	65.8	132* [a]	50	63.1	126	4	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	4.2	8* [a]	50	ND	0* [a]	200* [b]	70-130/30
67-66-3	Chloroform	ND		50	52.6	105	50	51.3	103	3	70-130/30
74-87-3	Chloromethane	ND		50	64.1	128	50	61.0	122	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	58.9	118	50	56.2	112	5	70-130/30
106-43-4	p-Chlorotoluene	ND		50	58.2	116	50	55.8	112	4	70-130/30
124-48-1	Dibromochloromethane	ND		50	49.4	99	50	49.9	100	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	61.2	122	50	60.3	121	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	56.3	113	50	55.1	110	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	56.2	112	50	54.7	109	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	41.4	83	50	39.6	79	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	62.7	125	50	61.0	122	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	46.7	93	50	46.2	92	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	63.7	127	50	61.4	123	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	60.0	120	50	57.8	116	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	65.1	130	50	63.1	126	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	66.0	132* [a]	50	65.4	131* [a]	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	55.1	110	50	54.1	108	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	65.0	130	50	63.1	126	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	54.3	109	50	53.7	107	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	60.4	121	50	60.7	121	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	64.2	128	50	64.9	130	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	327	131* a	250	334	134* a	2	70-130/30
97-63-2	Ethyl methacrylate	ND		50	62.5	125	50	63.2	126	1	72-139/30
100-41-4	Ethylbenzene	1.6		50	62.7	122	50	59.9	117	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	65.2	130	50	63.1	126	3	70-130/30
591-78-6	2-Hexanone	ND		50	48.8	98	50	49.7	99	2	70-130/30
98-82-8	Isopropylbenzene	144		50	173	58* c	50	164	40* c	5	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	64.4	129	50	61.8	124	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	96.4	193* a	50	97.1	194* a	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	55.7	111	50	57.2	114	3	70-130/30
74-95-3	Methylene bromide	ND		50	53.5	107	50	53.7	107	0	70-130/30
75-09-2	Methylene chloride	ND		50	63.0	126	50	61.1	122	3	70-130/30
91-20-3	Naphthalene	ND		50	77.9	156* a	50	72.0	144* a	8	70-130/30
103-65-1	n-Propylbenzene	102		50	139	74	50	133	62* c	4	70-130/30
100-42-5	Styrene	ND		50	56.3	113	50	55.3	111	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.0	112	50	55.6	111	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	57.3	115	50	56.5	113	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	56.7	113	50	54.3	109	4	70-130/30
108-88-3	Toluene	2.2		50	59.9	115	50	58.7	113	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	60.6	121	50	63.6	127	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	65.2	130	50	65.8	132* a	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	54.7	109	50	54.2	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.4	107	50	54.2	108	1	70-130/30
79-01-6	Trichloroethene	ND		50	51.3	103	50	49.8	100	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	56.4	113	50	54.2	108	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	56.0	112	50	55.7	111	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	62.1	124	50	58.5	117	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	62.0	124	50	58.5	117	6	70-130/30
108-05-4	Vinyl Acetate	ND		50	79.8	160* a	50	78.2	156* a	2	70-130/30
75-01-4	Vinyl chloride	ND		50	64.7	129	50	61.8	124	5	70-130/30
	m,p-Xylene	1.0		100	123	122	100	118	117	4	70-130/30
95-47-6	o-Xylene	0.99	J	50	63.6	125	50	61.4	121	4	70-130/30
1330-20-7	Xylene (total)	2.0		150	187	123	150	180	119	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-5

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
1868-53-7	Dibromofluoromethane	86%	87%	92%	70-130%
2037-26-5	Toluene-D8	98%	99%	102%	70-130%
460-00-4	4-Bromofluorobenzene	90%	89%	101%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1220-CC1177	**Injection Date:**	07/18/14
Lab File ID:	V32968.D	**Injection Time:**	09:06
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	517777	6.54	634373	7.73	220822	11.07	307127	13.28	91119	3.50
Upper Limit [a]	1035554	7.04	1268746	8.23	441644	11.57	614254	13.78	182238	4.00
Lower Limit [b]	258889	6.04	317187	7.23	110411	10.57	153564	12.78	45560	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1220-BS	480540	6.55	607660	7.73	209306	11.07	283291	13.28	80302	3.50
MSV1220-MB	341148	6.54	459492	7.73	177546	11.07	194914	13.28	66364	3.50
MC31918-5	313394	6.54	419580	7.73	166513	11.07	188656	13.28	66870	3.49
ZZZZZZ	328352	6.55	447829	7.73	175129	11.07	194073	13.28	65194	3.50
ZZZZZZ	307064	6.55	420438	7.73	166070	11.07	180053	13.28	60290	3.49
MC31918-2	498860	6.54	614602	7.73	180378	11.07	179224	13.28	173495	3.51
ZZZZZZ	328636	6.54	442659	7.73	172066	11.07	198871	13.28	83109	3.49
ZZZZZZ	297291	6.54	399750	7.73	157970	11.07	186378	13.28	67531	3.49
MC31918-3	452614	6.54	602828	7.73	226166	11.07	264564	13.28	115198	3.49
MC31918-1	489519	6.54	557457	7.73	203848	11.07	231181	13.28	107261	3.50
MC31918-4	434429	6.54	570271	7.73	205314	11.07	241064	13.28	93373	3.49
ZZZZZZ	517670	6.55	592051	7.73	210352	11.07	229122	13.28	94650	3.50
ZZZZZZ	408704	6.54	528454	7.73	194127	11.07	216187	13.28	91645	3.50
ZZZZZZ	385392	6.54	578415	7.73	190544	11.07	213838	13.28	89136	3.49
ZZZZZZ	561731	6.54	742229	7.73	252432	11.07	310148	13.28	136656	3.50
ZZZZZZ	1059510[c]	6.54	1349063[c]	7.73	417553	11.07	794902[c]	13.28	469621[c]	3.51
ZZZZZZ	730708	6.55	1266234	7.73	370126	11.07	600478	13.28	442776[d]	3.52
ZZZZZZ	954446	6.55	1753793[c]	7.73	513416[c]	11.07	760111[c]	13.28	389417[c]	3.52
ZZZZZZ	1211802[c]	6.67	1794648[c]	7.77	402127	11.07	644086[c]	13.28	448170[c]	3.55
ZZZZZZ	1106689[c]	6.65	1721039[c]	7.77	385607	11.07	601058	13.28	467721[c]	3.54
MC31918-3MS	620644	6.54	898986	7.73	314658	11.07	444228	13.28	139883	3.50
MC31918-3MSD	651086	6.54	923749	7.73	328793	11.07	477190	13.28	154193	3.50
ZZZZZZ	463882	6.54	596151	7.72	207598	11.07	234547	13.28	113031	3.49
ZZZZZZ	458633	6.54	580766	7.73	206498	11.07	240798	13.28	105162	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(d) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31918-1	V32981.D	85	91	100
MC31918-2	V32977.D	106	78	100
MC31918-3	V32980.D	92	102	101
MC31918-4	V32982.D	101	88	103
MC31918-5	V32974.D	113	93	97
MC31918-3MS	V32992.D	86	98	90
MC31918-3MSD	V32993.D	87	99	89
MSV1220-BS	V32969.D	98	90	94
MSV1220-MB	V32973.D	112	91	99

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MB	X03487.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MB	X03487.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: Method: SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-MB	I90649.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	91%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	75%	30-130%

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-BS	X03488.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	19.5	39	30-130
95-57-8	2-Chlorophenol	50	40.0	80	30-130
59-50-7	4-Chloro-3-methyl phenol	50	42.3	85	30-130
120-83-2	2,4-Dichlorophenol	50	42.8	86	30-130
105-67-9	2,4-Dimethylphenol	50	22.5	45	30-130
51-28-5	2,4-Dinitrophenol	50	25.5	51	30-130
534-52-1	4,6-Dinitro-o-cresol	50	33.7	67	30-130
95-48-7	2-Methylphenol	50	34.4	69	30-130
	3&4-Methylphenol	100	62.1	62	30-130
88-75-5	2-Nitrophenol	50	43.2	86	30-130
100-02-7	4-Nitrophenol	50	17.5	35	30-130
87-86-5	Pentachlorophenol	50	37.4	75	30-130
108-95-2	Phenol	50	17.4	35	30-130
95-95-4	2,4,5-Trichlorophenol	50	45.6	91	30-130
88-06-2	2,4,6-Trichlorophenol	50	45.2	90	30-130
62-53-3	Aniline	50	29.6	59	40-140
101-55-3	4-Bromophenyl phenyl ether	50	48.9	98	40-140
85-68-7	Butyl benzyl phthalate	50	48.9	98	40-140
100-51-6	Benzyl Alcohol	50	28.6	57	40-140
91-58-7	2-Chloronaphthalene	50	42.3	85	40-140
106-47-8	4-Chloroaniline	50	40.2	80	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	43.0	86	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.4	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	46.8	94	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.5	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	43.3	87	40-140
121-14-2	2,4-Dinitrotoluene	50	47.8	96	40-140
606-20-2	2,6-Dinitrotoluene	50	46.3	93	40-140
91-94-1	3,3'-Dichlorobenzidine	50	42.9	86	40-140
132-64-9	Dibenzofuran	50	39.4	79	40-140
84-74-2	Di-n-butyl phthalate	50	45.0	90	40-140
117-84-0	Di-n-octyl phthalate	50	59.0	118	40-140
84-66-2	Diethyl phthalate	50	46.9	94	40-140
131-11-3	Dimethyl phthalate	50	46.9	94	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	53.5	107	40-140
118-74-1	Hexachlorobenzene	50	46.7	93	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-BS	X03488.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	19.0	38* [a]	40-140
67-72-1	Hexachloroethane	50	30.6	61	40-140
78-59-1	Isophorone	50	40.5	81	40-140
88-74-4	2-Nitroaniline	50	47.7	95	40-140
99-09-2	3-Nitroaniline	50	43.8	88	40-140
100-01-6	4-Nitroaniline	50	42.7	85	40-140
98-95-3	Nitrobenzene	50	43.5	87	40-140
62-75-9	n-Nitrosodimethylamine	50	24.2	48	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	43.8	88	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.1	84	40-140
110-86-1	Pyridine	50	21.6	43	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	87%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-BS	I90641.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	33.6	67	40-140
208-96-8	Acenaphthylene	50	28.2	56	40-140
120-12-7	Anthracene	50	34.1	68	40-140
56-55-3	Benzo(a)anthracene	50	42.9	86	40-140
50-32-8	Benzo(a)pyrene	50	36.2	72	40-140
205-99-2	Benzo(b)fluoranthene	50	39.4	79	40-140
191-24-2	Benzo(g,h,i)perylene	50	38.3	77	40-140
207-08-9	Benzo(k)fluoranthene	50	36.8	74	40-140
218-01-9	Chrysene	50	40.0	80	40-140
53-70-3	Dibenzo(a,h)anthracene	50	38.8	78	40-140
206-44-0	Fluoranthene	50	33.9	68	40-140
86-73-7	Fluorene	50	43.8	88	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	31.3	63	40-140
90-12-0	1-Methylnaphthalene	50	33.4	67	40-140
91-57-6	2-Methylnaphthalene	50	34.8	70	40-140
85-01-8	Phenanthrene	50	35.8	72	40-140
129-00-0	Pyrene	50	35.4	71	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	96%	30-130%
321-60-8	2-Fluorobiphenyl	71%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MS	X03489.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
OP38904-MSD	X03490.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
MC31918-3	X03491.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: Method: SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		54.9	30.1	55	54.9	29.5	54	2	30-130/20
95-57-8	2-Chlorophenol	ND		54.9	39.6	72	54.9	34.8	63	13	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		54.9	42.8	78	54.9	40.4	74	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		54.9	43.7	80	54.9	38.5	70	13	30-130/20
105-67-9	2,4-Dimethylphenol	ND		54.9	43.5	79	54.9	39.2	71	10	30-130/20
51-28-5	2,4-Dinitrophenol	ND		54.9	29.4	54	54.9	29.2	53	1	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		54.9	36.7	67	54.9	35.9	65	2	30-130/20
95-48-7	2-Methylphenol	ND		54.9	38.0	69	54.9	33.5	61	13	30-130/20
	3&4-Methylphenol	ND		110	62.8	57	110	56.3	51	11	30-130/20
88-75-5	2-Nitrophenol	ND		54.9	44.5	81	54.9	37.9	69	16	30-130/20
100-02-7	4-Nitrophenol	ND		54.9	24.9	45	54.9	23.7	43	5	30-130/20
87-86-5	Pentachlorophenol	ND		54.9	43.0	78	54.9	39.6	72	8	30-130/20
108-95-2	Phenol	ND		54.9	19.5	35	54.9	18.0	33	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		54.9	47.1	86	54.9	41.2	75	13	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		54.9	44.3	81	54.9	39.2	71	12	30-130/20
62-53-3	Aniline	ND		54.9	25.4	46	54.9	27.3	50	7	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.9	48.1	88	54.9	42.7	78	12	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.9	48.7	89	54.9	45.0	82	8	40-140/20
100-51-6	Benzyl Alcohol	ND		54.9	27.1	49	54.9	26.3	48	3	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.9	43.8	80	54.9	37.5	68	15	40-140/20
106-47-8	4-Chloroaniline	ND		54.9	36.5	66	54.9	39.5	72	8	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.9	42.2	77	54.9	35.3	64	18	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.9	43.0	78	54.9	36.4	66	17	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.9	46.2	84	54.9	39.6	72	15	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.9	43.7	80	54.9	38.3	70	13	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		54.9	45.7	83	54.9	40.6	74	12	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.9	45.7	83	54.9	41.7	76	9	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.9	46.6	85	54.9	41.3	75	12	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.9	7.7	14* [a]	54.9	7.1	13* [a]	8	40-140/20
132-64-9	Dibenzofuran	ND		54.9	39.6	72	54.9	34.6	63	13	40-140/20
84-74-2	Di-n-butyl phthalate	0.30	J	54.9	44.1	80	54.9	40.4	73	9	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.9	60.6	110	54.9	55.7	101	8	40-140/20
84-66-2	Diethyl phthalate	ND		54.9	45.8	83	54.9	41.9	76	9	40-140/20
131-11-3	Dimethyl phthalate	ND		54.9	44.9	82	54.9	40.7	74	10	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.9	53.4	97	54.9	49.5	90	8	40-140/20
118-74-1	Hexachlorobenzene	ND		54.9	45.4	83	54.9	41.7	76	8	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MS	X03489.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
OP38904-MSD	X03490.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
MC31918-3	X03491.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: Method: SW846 8270D

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		54.9	21.1	38* b	54.9	17.9	33* b	16	40-140/20
67-72-1	Hexachloroethane	ND		54.9	35.9	65	54.9	30.5	56	16	40-140/20
78-59-1	Isophorone	ND		54.9	40.3	73	54.9	34.9	64	14	40-140/20
88-74-4	2-Nitroaniline	ND		54.9	46.2	84	54.9	41.8	76	10	40-140/20
99-09-2	3-Nitroaniline	ND		54.9	38.9	71	54.9	40.2	73	3	40-140/20
100-01-6	4-Nitroaniline	ND		54.9	35.7	65	54.9	34.0	62	5	40-140/20
98-95-3	Nitrobenzene	ND		54.9	47.6	87	54.9	40.3	73	17	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		54.9	24.9	45	54.9	23.6	43	5	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.9	42.9	78	54.9	36.6	67	16	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.9	42.7	78	54.9	38.7	70	10	40-140/20
110-86-1	Pyridine	ND		54.9	23.6	43	54.9	23.6	43	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
367-12-4	2-Fluorophenol	40%	36%	36%	15-110%
4165-62-2	Phenol-d5	28%	26%	25%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	73%	90%	15-110%
4165-60-0	Nitrobenzene-d5	80%	66%	71%	30-130%
321-60-8	2-Fluorobiphenyl	73%	62%	68%	30-130%
1718-51-0	Terphenyl-d14	81%	75%	89%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-MS	I90642.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
OP38905-MSD	I90643.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
MC31918-3	I90644.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC31918-1, MC31918-2, MC31918-3, MC31918-4

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.33		54.9	34.0	61	54.9	30.3	55	12	40-140/20
208-96-8	Acenaphthylene	0.16		54.9	28.3	51	54.9	24.9	45	13	40-140/20
120-12-7	Anthracene	ND		54.9	33.6	61	54.9	30.8	56	9	40-140/20
56-55-3	Benzo(a)anthracene	ND		54.9	43.8	80	54.9	39.5	72	10	40-140/20
50-32-8	Benzo(a)pyrene	ND		54.9	35.5	65	54.9	32.1	58	10	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		54.9	40.4	74	54.9	35.0	64	14	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		54.9	37.5	68	54.9	33.9	62	10	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.9	34.1	62	54.9	33.0	60	3	40-140/20
218-01-9	Chrysene	ND		54.9	39.4	72	54.9	35.7	65	10	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		54.9	37.8	69	54.9	34.1	62	10	40-140/20
206-44-0	Fluoranthene	ND		54.9	34.7	63	54.9	31.4	57	10	40-140/20
86-73-7	Fluorene	0.78		54.9	42.4	76	54.9	38.2	68	10	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		54.9	30.3	55	54.9	27.7	50	9	40-140/20
90-12-0	1-Methylnaphthalene	44.5		54.9	82.5	69	54.9	72.3	51	13	40-140/20
91-57-6	2-Methylnaphthalene	6.0		54.9	43.3	68	54.9	36.9	56	16	40-140/20
85-01-8	Phenanthrene	0.41		54.9	35.3	63	54.9	31.8	57	10	40-140/20
129-00-0	Pyrene	ND		54.9	36.2	66	54.9	32.8	60	10	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
4165-60-0	Nitrobenzene-d5	87%	73%	78%	30-130%
321-60-8	2-Fluorobiphenyl	64%	55%	59%	30-130%
1718-51-0	Terphenyl-d14	70%	64%	78%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3375-CC3320	**Injection Date:**	07/14/14
Lab File ID:	I90639.D	**Injection Time:**	08:27
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	462556	3.39	954441	4.41	569474	5.91	974997	7.23	637182	9.99	1748256	11.39
Upper Limit [a]	925112	3.89	1908882	4.91	1138948	6.41	1949994	7.73	1274364	10.49	3496512	11.89
Lower Limit [b]	231278	2.89	477221	3.91	284737	5.41	487499	6.73	318591	9.49	874128	10.89
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP38905-BS	526245	3.39	1095332	4.42	632313	5.92	1061342	7.23	718261	9.99	1880536	11.40
OP38905-MS	508238	3.39	1041213	4.42	602306	5.92	1000057	7.23	648293	10.00	1755578	11.40
OP38905-MSD	500503	3.37	1034532	4.41	603760	5.92	1003527	7.23	649074	10.00	1750521	11.40
MC31918-3	483582	3.39	996089	4.42	589657	5.92	977205	7.23	620975	9.99	1714098	11.39
MC31918-1	530101	3.39	1100334	4.41	641902	5.91	1074490	7.23	685385	9.99	1901638	11.39
MC31918-2	445157	3.39	925912	4.41	547444	5.91	919716	7.23	606598	9.98	1673547	11.39
MC31918-4	525430	3.39	1071920	4.41	614737	5.92	1036598	7.23	636921	9.99	1717712	11.40
ZZZZZZ	458487	3.39	952635	4.41	562640	5.91	950761	7.23	630211	9.99	1733165	11.39
OP38905-MB	500580	3.39	1043934	4.41	613985	5.91	1037318	7.23	676217	9.99	1846758	11.39
ZZZZZZ	497402	3.39	1022897	4.42	595283	5.91	992866	7.23	639343	9.99	1769986	11.39
ZZZZZZ	508768	3.39	1034747	4.42	582401	5.92	960844	7.23	592855	9.99	1635553	11.39
ZZZZZZ	492938	3.39	1019299	4.41	595164	5.91	1009168	7.23	649999	9.99	1765263	11.39
ZZZZZZ	480952	3.39	1011798	4.41	596512	5.91	1010071	7.23	660804	9.98	1806827	11.39

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX121-CC106	**Injection Date:**	07/16/14
Lab File ID:	X03482.D	**Injection Time:**	08:30
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	328847	3.99	1246051	5.04	662656	6.57	1030023	7.86	804495	10.42	599036	12.10
Upper Limit [a]	657694	4.49	2492102	5.54	1325312	7.07	2060046	8.36	1608990	10.92	1198072	12.60
Lower Limit [b]	164424	3.49	623026	4.54	331328	6.07	515012	7.36	402248	9.92	299518	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP38948-MB	296163	3.98	1095841	5.03	568725	6.57	812580	7.86	545899	10.41	405923	12.09
OP38948-BS	260776	3.98	918600	5.04	491876	6.57	723367	7.85	531423	10.41	441379	12.09
ZZZZZZ	226294	3.98	799031	5.04	398059	6.57	535605	7.86	377722[c]	10.45	259680[c]	12.14
ZZZZZZ	224975	3.98	828986	5.03	424914	6.56	613477	7.85	426536	10.40	345296	12.09
OP38904-MB	341026	3.98	1239217	5.04	649510	6.57	954996	7.86	714197	10.41	562323	12.09
OP38904-BS	344883	3.98	1242584	5.04	648886	6.57	993817	7.86	776080	10.41	621017	12.10
OP38904-MS	322426	3.98	1135051	5.04	602891	6.57	896381	7.86	696546	10.41	530117	12.10
OP38904-MSD	315128	3.98	1116556	5.04	607032	6.57	911053	7.86	713550	10.41	546041	12.10
MC31918-3	304500	3.98	1090059	5.04	578629	6.57	851332	7.86	647424	10.41	523014	12.10
MC31918-1	365863	3.98	1324915	5.04	701814	6.57	1029789	7.85	791409	10.41	629700	12.10
MC31918-2	295300	3.98	1058396	5.03	552873	6.57	811127	7.85	594802	10.41	468733	12.09
MC31918-4	326854	3.98	1182764	5.04	616133	6.57	899538	7.85	686895	10.41	526011	12.10
ZZZZZZ	297225	3.98	1083396	5.04	576413	6.57	855450	7.85	633488	10.41	508342	12.09
ZZZZZZ	312486	3.98	1136406	5.04	593444	6.57	884052	7.85	653593	10.41	533083	12.09
ZZZZZZ	301396	3.98	1122929	5.04	586294	6.57	855191	7.85	633412	10.41	518967	12.09
ZZZZZZ	291350	3.98	1053255	5.03	553933	6.57	815178	7.85	588737	10.41	450795	12.09
ZZZZZZ	308394	3.99	1097465	5.04	594326	6.57	890471	7.86	683205	10.41	529536	12.10
ZZZZZZ	283436	3.98	1035604	5.04	549331	6.57	805277	7.85	588290	10.41	485501	12.09
ZZZZZZ	312529	3.98	1125298	5.04	591670	6.57	861764	7.85	635481	10.41	531910	12.09
OP38931-MB	322546	3.98	1163915	5.04	597939	6.57	846511	7.86	601970	10.42	484287	12.11
OP38931-BS	258166	3.98	929660	5.04	494898	6.57	740175	7.86	572938	10.41	474314	12.10
ZZZZZZ	259314	3.98	919618	5.03	485310	6.57	704763	7.85	507789	10.40	389468	12.09
OP38966-MB	299946	3.98	1092618	5.03	567510	6.57	825596	7.85	600143	10.40	458125	12.09
OP38966-BS	280307	3.98	1005521	5.04	538132	6.57	811110	7.86	632229	10.41	514221	12.09
OP38966-MS	264921	3.98	943767	5.04	495987	6.57	724759	7.85	556330	10.41	465282	12.09
OP38966-MSD	264180	3.98	937027	5.04	495692	6.57	741487	7.85	564682	10.41	461048	12.09
MC32000-10	274922	3.98	998834	5.03	514627	6.57	752861	7.85	548502	10.40	415829	12.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX121-CC106	**Injection Date:**	07/16/14
Lab File ID:	X03482.D	**Injection Time:**	08:30
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC31918-1	X03492.D	43	30	83	82	77	87
MC31918-2	X03493.D	26	18	55	51	48	89
MC31918-3	X03491.D	36	25	90	71	68	89
MC31918-4	X03494.D	42	29	85	80	77	87
OP38904-BS	X03488.D	47	33	85	87	82	91
OP38904-MB	X03487.D	44	32	74	82	78	88
OP38904-MS	X03489.D	40	28	79	80	73	81
OP38904-MSD	X03490.D	36	26	73	66	62	75

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31918-1	I90645.D	91	67	77
MC31918-2	I90646.D	54	41	75
MC31918-3	I90644.D	78	59	78
MC31918-4	I90647.D	87	68	76
OP38905-BS	I90641.D	96	71	76
OP38905-MB	I90649.D	91	68	75
OP38905-MS	I90642.D	87	64	70
OP38905-MSD	I90643.D	73	55	64

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MB	BK39526.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

Blank Spike Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-BS	BK39527.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.10	71	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	114%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MS	BK39528.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
OP38952-MSD	BK39529.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
MC31918-3	BK39534.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31918-1, MC31918-2, MC31918-3, MC31918-4, MC31918-6

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.139	0.10	72	0.138	0.092	67	8	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.139	0.11	79	0.138	0.095	69	15	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
460-00-4	Bromofluorobenzene (S)	112%	112%	115%	36-173%
460-00-4	Bromofluorobenzene (S)	108%	117%	115%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC31918-1	BK39532.D	118	120
MC31918-2	BK39533.D	97	99
MC31918-3	BK39534.D	115	115
MC31918-4	BK39535.D	122	96
MC31918-6	BK39537.D	132	133
OP38952-BS	BK39527.D	114	103
OP38952-MB	BK39526.D	118	112
OP38952-MS	BK39528.D	112	108
OP38952-MSD	BK39529.D	112	117

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-ICC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39522.D	**Injection Time:**	15:19
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP38952-MB	BK39526.D	07/15/14	16:39	4.38	4.40
OP38952-BS	BK39527.D	07/15/14	16:58	4.38	4.40
OP38952-MS	BK39528.D	07/15/14	17:18	4.38	4.40
OP38952-MSD	BK39529.D	07/15/14	17:38	4.38	4.40
OP38952-MS1	BK39530.D	07/15/14	17:57	4.38	4.40
OP38952-MSD1	BK39531.D	07/15/14	18:17	4.38	4.40
MC31918-1	BK39532.D	07/15/14	18:37	4.38	4.40
MC31918-2	BK39533.D	07/15/14	18:57	4.38	4.40
MC31918-3	BK39534.D	07/15/14	19:17	4.38	4.40
MC31918-4	BK39535.D	07/15/14	19:37	4.38	4.40

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31918
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-CC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39536.D	**Injection Time:**	19:57
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC31918-6	BK39537.D	07/15/14	20:16	4.38	4.40
ZZZZZZ	BK39538.D	07/15/14	20:36	4.38	4.40
ZZZZZZ	BK39539.D	07/15/14	20:56	4.38	4.40
ZZZZZZ	BK39540.D	07/15/14	21:15	4.38	4.40
ZZZZZZ	BK39541.D	07/15/14	21:34	4.38	4.40
ZZZZZZ	BK39542.D	07/15/14	21:54	4.38	4.40
ZZZZZZ	BK39543.D	07/15/14	22:13	4.38	4.40
ZZZZZZ	BK39544.D	07/15/14	22:32	4.38	4.40
ZZZZZZ	BK39545.D	07/15/14	22:52	4.39	4.41
MC31999-1	BK39546.D	07/15/14	23:11	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC31956

Sampling Date: 07/08/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 165

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS ACCUTEST

October 7, 2016

Elizabeth Kunkel
AECOM, INC.
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110
Elizabeth.Kunkel@URS.com; bob.billman@urs.com

RE: SGS Accutest Job # MC31956

Dear Elizabeth Kunkel,

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC31956

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC31956-1	07/08/14	09:50	CWBK	07/09/14	AQ	Ground Water	P74-ROX-070814
MC31956-2	07/08/14	11:10	CWBK	07/09/14	AQ	Ground Water	P56-ROX-070814
MC31956-3	07/08/14	14:00	CWBK	07/09/14	AQ	Ground Water	T12-ROX-070814
MC31956-4	07/08/14	14:20	CWBK	07/09/14	AQ	Equipment Blank	P59-ROX-070814-EB
MC31956-5	07/08/14	15:06	CWBK	07/09/14	AQ	Ground Water	P59-ROX-070814
MC31956-6	07/08/14	16:15	CWBK	07/09/14	AQ	Ground Water	P57-ROX-070814
MC31956-7	07/08/14	16:15	CWBK	07/09/14	AQ	Ground Water	P57-ROX-070814-DUP
MC31956-8	07/08/14	00:00	CWBK	07/09/14	AQ	Trip Blank Water	TB-070814-HCL
MC31956-9	07/08/14	00:00	CWBK	07/09/14	AQ	Trip Blank Water	TB-070814-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3 956

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** 0/7/20 6 2:44:32 P

7 Samp e(s), 2 Tr p B ank(s) were co ected on 07/08/20 4 and were rece ved at SGS Accutest New Eng and on 07/09/20 4 proper y preserved, at 0 7 Deg C and ntact These Samp es rece ved a job number of MC3 956 A st ng of the Laborato y Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report 1-Chlorohexane, Benzenethiol, Dibenz(a,h)acridine, Indene, Quinoline were searched in the library search and reported only if detections were found.

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2247

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32208- MS, MC32208- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Matrix: AQ **Batch ID:** MSV 220

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recovery(s) for Acetone, Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MC3 9 8-3MS Recovery(s) for ,2-D ch oropropane, ,4-D oxane, 2-Ch oroethy v ny ether, Acetone, Benzene, Ch oroethane, Methy Tert Buty Ether, n-Buty benzene, Naphtha ene, V ny Acetate are outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference Refer to B ank Sp ke
- MC3 9 8-3MSD Recovery(s) for ,2,4-Tr ch orobenzene, ,2-D ch oropropane, ,4-D oxane, Acetone, Methy Te t Buty Ether, Naphtha ene, V ny Acetate, 2-Ch oroethy v ny ether are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether, Benzene are outs de contro m ts for samp e MC3 9 8-3MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC3 9 8-3MS/MSD Recovery(s) for Isopropy benzene, n-Propy benzene (MSD on y) are outs de contro m ts Outs de contro m ts due to h gh eve n samp e re at ve to sp ke amount
- Cont nu ng Ca brat on MSV 220-CC 77 for 2-Ch oroethy v ny ether exceed 20% d fference (b ased ow) Samp e resu t may be b ased ow
- Cont nu ng Ca brat on MSV 220-CC 77 for Acetone, methy tert buty ether, v ny acetate, 2,2-d ch oropropane, carbon tetrach or de, ,2-d ch oroethane, 2-hexanone exceed 20% d fference (b ased h gh) Samp e resu t may be b ased h gh (Acetone) or non-detect for these compounds
- MC3 956-6,7 for D bromof uoromethane: Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- MSV 220-BS for V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC3 956-2,5,6,7 has nterna standards outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- MC3 9 8-3 for Te t Buty A coho -D9: Outs de contro m ts Target ana ytes not assoc ated w th th s nterna standard
- In t a ca brat on ver f cat on MSV 77-ICV 77 for d ch orod f uoromethane exceed 30% D fference (response b as h gh) Assoc ated samp es are non-detect for th s compound

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP38904

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- OP38904-BS/MS/MSD Recovery(s) for Hexach orocyc opentad ene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- OP38904-MS/MSD Recovery(s) for 3,3'-D ch orobenz d ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38905

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP38952

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC3 9 8-3MS, MC3 9 8-3MSD were used as the QC samp es nd cated

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC3 956)

Summary of Hits

Job Number: MC31956
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31956-1	P74-ROX-070814					
Benzene		309	0.50	0.32	ug/l	SW846 8260C
n-Butylbenzene		13.8	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		1.4 J	5.0	0.42	ug/l	SW846 8260C
Ethylbenzene		37.4	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		1.8 J	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		1.8 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene		12.8	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		3.6 J	5.0	0.49	ug/l	SW846 8260C
Toluene		8.7	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		117	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		51.8	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		121	1.0	0.93	ug/l	SW846 8260C
o-Xylene		12.2	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		133	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.39 J	5.7	0.20	ug/l	SW846 8270D
Fluorene		0.11	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		3.4	0.23	0.057	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		3.0	0.23	0.084	ug/l	SW846 8270D BY SIM
Phenanthrene		0.054 J	0.057	0.014	ug/l	SW846 8270D BY SIM
MC31956-2	P56-ROX-070814					
Acetone [a]		62.6	10	2.5	ug/l	SW846 8260C
Benzene		127	0.50	0.32	ug/l	SW846 8260C
2-Butanone (MEK)		13.2	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		15.9	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		7.3	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		3.4 J	5.0	0.39	ug/l	SW846 8260C
1,1-Dichloroethane		1.8	1.0	0.36	ug/l	SW846 8260C
Ethylbenzene		1710	50	19	ug/l	SW846 8260C
Isopropylbenzene		106	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		5.8	5.0	0.37	ug/l	SW846 8260C
Naphthalene		156	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		133	5.0	0.49	ug/l	SW846 8260C
Toluene		288	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		487	250	16	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		166	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		2040	50	47	ug/l	SW846 8260C
o-Xylene		122	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		2090	50	18	ug/l	SW846 8260C
3&4-Methylphenol		16.5	11	0.52	ug/l	SW846 8270D
Dibenzofuran		0.49 J	2.2	0.29	ug/l	SW846 8270D
Acenaphthene		0.35	0.11	0.077	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC31956
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthylene		0.081 J	0.11	0.055	ug/l	SW846 8270D BY SIM
Anthracene		0.10 J	0.11	0.10	ug/l	SW846 8270D BY SIM
Fluorene		0.36	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		18.1	0.22	0.055	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		24.3	0.22	0.082	ug/l	SW846 8270D BY SIM
Phenanthrene		1.0	0.056	0.014	ug/l	SW846 8270D BY SIM
MC31956-3	**T12-ROX-070814**					
Acetone [a]		65.8	10	2.5	ug/l	SW846 8260C
Benzene		2100	5.0	3.2	ug/l	SW846 8260C
2-Butanone (MEK)		9.4	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		9.6	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		3.9 J	5.0	0.42	ug/l	SW846 8260C
1,1-Dichloroethane		2.2	1.0	0.36	ug/l	SW846 8260C
Ethylbenzene		614	10	3.8	ug/l	SW846 8260C
Isopropylbenzene		57.7	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		2.4 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene		146	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		91.2	5.0	0.49	ug/l	SW846 8260C
Toluene		686	10	3.3	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		425	50	3.2	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		58.9	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		1250	10	9.3	ug/l	SW846 8260C
o-Xylene		90.9	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		1300	10	3.6	ug/l	SW846 8260C
2-Methylphenol		9.2 J	11	0.24	ug/l	SW846 8270D
3&4-Methylphenol		3.3 J	11	0.50	ug/l	SW846 8270D
Di-n-butyl phthalate		0.38 J	5.4	0.19	ug/l	SW846 8270D
Acenaphthene		0.24	0.11	0.074	ug/l	SW846 8270D BY SIM
Fluorene		0.22	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		15.0	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		24.5	0.22	0.080	ug/l	SW846 8270D BY SIM
Phenanthrene		0.51	0.054	0.014	ug/l	SW846 8270D BY SIM
MC31956-4	**P59-ROX-070814-EB**					
No hits reported in this sample.						
MC31956-5	**P59-ROX-070814**					
Acetone [a]		57.0	10	2.5	ug/l	SW846 8260C
Benzene		12200	25	16	ug/l	SW846 8260C
2-Butanone (MEK)		16.9	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		25.1	5.0	1.1	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31956
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
sec-Butylbenzene		7.3	5.0	0.42	ug/l	SW846 8260C
Ethylbenzene		1920	50	19	ug/l	SW846 8260C
Isopropylbenzene		94.8	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		4.6 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene		228	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		160	5.0	0.49	ug/l	SW846 8260C
Toluene		1550	50	17	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		607	250	16	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		285	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		4480	50	47	ug/l	SW846 8260C
o-Xylene		929	50	18	ug/l	SW846 8260C
Xylene (total)		5410	50	18	ug/l	SW846 8260C
2,4-Dimethylphenol		170	57	3.2	ug/l	SW846 8270D
2-Methylphenol		79.3	11	0.26	ug/l	SW846 8270D
3&4-Methylphenol		18.4	11	0.54	ug/l	SW846 8270D
Di-n-butyl phthalate		0.45 J	5.7	0.20	ug/l	SW846 8270D
Acenaphthene		1.5	0.11	0.079	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.091 J	0.11	0.057	ug/l	SW846 8270D BY SIM
Anthracene		0.12	0.11	0.11	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.029 J	0.057	0.022	ug/l	SW846 8270D BY SIM
Chrysene		0.027 J	0.11	0.027	ug/l	SW846 8270D BY SIM
Fluoranthene		0.053 J	0.11	0.047	ug/l	SW846 8270D BY SIM
Fluorene		0.46	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		18.1	0.23	0.057	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		29.1	0.23	0.085	ug/l	SW846 8270D BY SIM
Phenanthrene		0.88	0.057	0.014	ug/l	SW846 8270D BY SIM
Pyrene		0.10 J	0.11	0.044	ug/l	SW846 8270D BY SIM
MC31956-6	**P57-ROX-070814**					
Acetone [a]		49.7	10	2.5	ug/l	SW846 8260C
Benzene		378000	2500	1600	ug/l	SW846 8260C
n-Butylbenzene		11.0	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		9.1	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		6.6	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		1120	100	38	ug/l	SW846 8260C
Isopropylbenzene		65.6	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		8.1	5.0	0.37	ug/l	SW846 8260C
Naphthalene		128	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		60.5	5.0	0.49	ug/l	SW846 8260C
Toluene		154	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		375	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		91.3	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		1460	100	93	ug/l	SW846 8260C
o-Xylene		237	100	36	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31956
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Xylene (total)		1700	100	36	ug/l	SW846 8260C
3&4-Methylphenol		30.3	11	0.50	ug/l	SW846 8270D
Phenol		141	5.3	0.32	ug/l	SW846 8270D
Dibenzofuran		0.70 J	2.1	0.28	ug/l	SW846 8270D
Di-n-butyl phthalate		0.26 J	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.29	0.11	0.073	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.069 J	0.11	0.053	ug/l	SW846 8270D BY SIM
Fluorene		0.55	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		22.0	0.21	0.053	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		30.6	0.21	0.079	ug/l	SW846 8270D BY SIM
Phenanthrene		0.47	0.053	0.013	ug/l	SW846 8270D BY SIM
Total TIC, Semi-Volatile		24 J			ug/l	
MC31956-7	P57-ROX-070814-DUP					
Acetone [a]		44.1	10	2.5	ug/l	SW846 8260C
Benzene		371000	2500	1600	ug/l	SW846 8260C
2-Butanone (MEK)		8.6	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		11.4	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		9.7	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		7.0	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		1210	100	38	ug/l	SW846 8260C
Isopropylbenzene		68.9	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		8.5	5.0	0.37	ug/l	SW846 8260C
Naphthalene		139	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		63.3	5.0	0.49	ug/l	SW846 8260C
Toluene		160	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		392	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		95.4	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		1560	100	93	ug/l	SW846 8260C
o-Xylene		234	100	36	ug/l	SW846 8260C
Xylene (total)		1790	100	36	ug/l	SW846 8260C
3&4-Methylphenol		29.9	11	0.51	ug/l	SW846 8270D
Phenol		136	5.4	0.33	ug/l	SW846 8270D
Dibenzofuran		0.71 J	2.2	0.28	ug/l	SW846 8270D
Di-n-butyl phthalate		0.27 J	5.4	0.19	ug/l	SW846 8270D
Acenaphthene		0.29	0.11	0.075	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.075 J	0.11	0.054	ug/l	SW846 8270D BY SIM
Fluorene		0.54	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		22.0	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		30.0	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.48	0.054	0.014	ug/l	SW846 8270D BY SIM
Total TIC, Semi-Volatile		23 J			ug/l	

Summary of Hits

Job Number: MC31956
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31956-8	TB-070814-HCL					
No hits reported in this sample.						
MC31956-9	TB-070814-ST					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32986.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	309	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	13.8	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	1.4	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	37.4	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	1.8	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	1.8	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	12.8	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	3.6	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	8.7	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	117	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	51.8	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	121	1.0	0.93	ug/l	
95-47-6	o-Xylene	12.2	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	133	1.0	0.36	ug/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:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	88%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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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:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03495.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.53	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.7	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.20	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.39	5.7	0.20	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.34	ug/l	
78-59-1	Isophorone	ND	5.7	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.22	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	76%		30-130%
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90648.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.078	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.056	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.044	ug/l	
218-01-9	Chrysene	ND	0.11	0.027	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.036	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.046	ug/l	
86-73-7	Fluorene	0.11	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
90-12-0	1-Methylnaphthalene	3.4	0.23	0.057	ug/l	
91-57-6	2-Methylnaphthalene	3.0	0.23	0.084	ug/l	
85-01-8	Phenanthrene	0.054	0.057	0.014	ug/l	J
129-00-0	Pyrene	ND	0.11	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P74-ROX-070814		
Lab Sample ID:	MC31956-1	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39538.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	132%		36-173%

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:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32987.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2	V32995.D	50	07/18/14	AMY	n/a	n/a	MSV1220

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	62.6	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	127	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	13.2	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	15.9	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	7.3	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	3.4	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	1.8	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1710 [c]	50	19	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	106	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	5.8	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	156	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	133	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	288	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	487 [c]	250	16	ug/l	
108-67-8	1,3,5-Trimethylbenzene	166	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	2040 [c]	50	47	ug/l	
95-47-6	o-Xylene	122	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	2090 [c]	50	18	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	74%	84%	70-130%
2037-26-5	Toluene-D8	86%	90%	70-130%
460-00-4	4-Bromofluorobenzene	95%	101%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03496.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	16.5	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	0.49	2.2	0.29	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.6	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/l	

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Report of Analysis

Client Sample ID:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90650.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.35	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	0.081	0.11	0.055	ug/l	J
120-12-7	Anthracene	0.10	0.11	0.10	ug/l	J
56-55-3	Benzo(a)anthracene	ND	0.056	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	0.36	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	18.1	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	24.3	0.22	0.082	ug/l	
85-01-8	Phenanthrene	1.0	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	58%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P56-ROX-070814		
Lab Sample ID:	MC31956-2	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39539.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	106%		36-173%
460-00-4	Bromofluorobenzene (S)	125%		36-173%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32988.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2	H67600.D	10	07/20/14	AMY	n/a	n/a	MSH2247

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	65.8	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	2100 [b]	5.0	3.2	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	9.4	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	9.6	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	3.9	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [c]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	2.2	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	614 [b]	10	3.8	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	57.7	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	2.4	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	146	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	91.2	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	686 [b]	10	3.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	425 [b]	50	3.2	ug/l	
108-67-8	1,3,5-Trimethylbenzene	58.9	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	1250 [b]	10	9.3	ug/l	
95-47-6	o-Xylene	90.9	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	1300 [b]	10	3.6	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%	109%	70-130%
2037-26-5	Toluene-D8	74%	107%	70-130%
460-00-4	4-Bromofluorobenzene	95%	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Result is from Run# 2
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03497.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	9.2	11	0.24	ug/l	J
	3&4-Methylphenol	3.3	11	0.50	ug/l	J
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.57	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.38	5.4	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/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:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	75%		15-110%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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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:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90651.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.24	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.22	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	15.0	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	24.5	0.22	0.080	ug/l	
85-01-8	Phenanthrene	0.51	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T12-ROX-070814		
Lab Sample ID:	MC31956-3	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39540.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	116%		36-173%
460-00-4	Bromofluorobenzene (S)	119%		36-173%

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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32979.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03498.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	860 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	12	2.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.8	0.36	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	12	0.96	ug/l	
120-83-2	2,4-Dichlorophenol	ND	12	0.46	ug/l	
105-67-9	2,4-Dimethylphenol	ND	12	0.65	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	12	2.2	ug/l	
95-48-7	2-Methylphenol	ND	12	0.26	ug/l	
	3&4-Methylphenol	ND	12	0.54	ug/l	
88-75-5	2-Nitrophenol	ND	12	3.4	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.62	ug/l	
87-86-5	Pentachlorophenol	ND	12	1.3	ug/l	
108-95-2	Phenol	ND	5.8	0.35	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	12	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	12	0.20	ug/l	
62-53-3	Aniline	ND	12	0.74	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.8	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.8	0.62	ug/l	
100-51-6	Benzyl Alcohol	ND	12	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.8	0.36	ug/l	
106-47-8	4-Chloroaniline	ND	12	0.65	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.8	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.8	0.41	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.8	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.8	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.8	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	12	0.53	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	12	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.8	0.31	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.8	0.20	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.8	0.33	ug/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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.8	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	5.8	0.40	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.39	ug/l	
118-74-1	Hexachlorobenzene	ND	5.8	0.34	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	12	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.8	0.35	ug/l	
78-59-1	Isophorone	ND	5.8	0.52	ug/l	
88-74-4	2-Nitroaniline	ND	12	0.46	ug/l	
99-09-2	3-Nitroaniline	ND	12	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	12	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.8	0.45	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.8	1.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.8	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.8	0.22	ug/l	
110-86-1	Pyridine	ND	12	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	59%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	93%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90803.D	1	07/18/14	MR	07/10/14	OP38905	MSI3380
Run #2							

	Initial Volume	Final Volume
Run #1	860 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.12	0.080	ug/l	
208-96-8	Acenaphthylene	ND	0.12	0.058	ug/l	
120-12-7	Anthracene	ND	0.12	0.11	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.058	0.023	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.12	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.058	0.037	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.12	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.12	0.045	ug/l	
218-01-9	Chrysene	ND	0.12	0.028	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.12	0.037	ug/l	
206-44-0	Fluoranthene	ND	0.12	0.047	ug/l	
86-73-7	Fluorene	ND	0.12	0.12	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.12	0.036	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.23	0.058	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.23	0.086	ug/l	
85-01-8	Phenanthrene	ND	0.058	0.015	ug/l	
129-00-0	Pyrene	ND	0.12	0.045	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		30-130%
321-60-8	2-Fluorobiphenyl	50%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-070814-EB		
Lab Sample ID:	MC31956-4	**Date Sampled:**	07/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39541.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		36-173%
460-00-4	Bromofluorobenzene (S)	114%		36-173%

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:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32989.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2	H67601.D	50	07/20/14	AMY	n/a	n/a	MSH2247

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	57.0	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	12200 [b]	25	16	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	16.9	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	25.1	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	7.3	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [c]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1920 [b]	50	19	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	94.8	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	4.6	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	228	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	160	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	1550 [b]	50	17	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	607 [b]	250	16	ug/l	
108-67-8	1,3,5-Trimethylbenzene	285	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	4480 [b]	50	47	ug/l	
95-47-6	o-Xylene	929 [b]	50	18	ug/l	
1330-20-7	Xylene (total)	5410 [b]	50	18	ug/l	

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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:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%	108%	70-130%
2037-26-5	Toluene-D8	74%	106%	70-130%
460-00-4	4-Bromofluorobenzene	102%	113%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Result is from Run# 2
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03499.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2	F74785.D	5	07/23/14	WK	07/10/14	OP38904	MSF3294

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2	870 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.36	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.46	ug/l	
105-67-9	2,4-Dimethylphenol	170 [a]	57	3.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	79.3	11	0.26	ug/l	
	3&4-Methylphenol	18.4	11	0.54	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.7	0.35	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.20	ug/l	
62-53-3	Aniline	ND	11	0.73	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.61	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.36	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.64	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.31	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	0.45	5.7	0.20	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/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:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.35	ug/l	
78-59-1	Isophorone	ND	5.7	0.52	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.46	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.45	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.22	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%	48%	15-110%
4165-62-2	Phenol-d5	30%	26%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	79%	15-110%
4165-60-0	Nitrobenzene-d5	87%	66%	30-130%
321-60-8	2-Fluorobiphenyl	72%	68%	30-130%
1718-51-0	Terphenyl-d14	86%	72%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(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:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90804.D	1	07/18/14	MR	07/10/14	OP38905	MSI3380
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.5	0.11	0.079	ug/l	
208-96-8	Acenaphthylene	0.091	0.11	0.057	ug/l	J
120-12-7	Anthracene	0.12	0.11	0.11	ug/l	
56-55-3	Benzo(a)anthracene	0.029	0.057	0.022	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.11	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.044	ug/l	
218-01-9	Chrysene	0.027	0.11	0.027	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.037	ug/l	
206-44-0	Fluoranthene	0.053	0.11	0.047	ug/l	J
86-73-7	Fluorene	0.46	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
90-12-0	1-Methylnaphthalene	18.1	0.23	0.057	ug/l	
91-57-6	2-Methylnaphthalene	29.1	0.23	0.085	ug/l	
85-01-8	Phenanthrene	0.88	0.057	0.014	ug/l	
129-00-0	Pyrene	0.10	0.11	0.044	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P59-ROX-070814		
Lab Sample ID:	MC31956-5	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39542.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	99%		36-173%
460-00-4	Bromofluorobenzene (S)	91%		36-173%

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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32990.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2	H67602.D	100	07/20/14	AMY	n/a	n/a	MSH2247
Run #3	H67604.D	5000	07/20/14	AMY	n/a	n/a	MSH2247

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	49.7	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	378000 [b]	2500	1600	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	11.0	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	9.1	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	6.6	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [c]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1120 [d]	100	38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	65.6	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	8.1	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	128	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	60.5	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	154	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	375	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	91.3	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	1460 [d]	100	93	ug/l	
95-47-6	o-Xylene	237 [d]	100	36	ug/l	
1330-20-7	Xylene (total)	1700 [d]	100	36	ug/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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	69% [e]	107%	109%	70-130%
2037-26-5	Toluene-D8	75%	104%	106%	70-130%
460-00-4	4-Bromofluorobenzene	101%	112%	114%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Result is from Run# 3
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(d) Result is from Run# 2
(e) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03500.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	30.3	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.57	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	141	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	0.70	2.1	0.28	ug/l	J
84-74-2	Di-n-butyl phthalate	0.26	5.3	0.18	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-13-6	Indene	4.21	24	ug/l	JN
	Total TIC, Semi-Volatile		24	ug/l	J

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:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90805.D	1	07/18/14	MR	07/10/14	OP38905	MSI3380
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.29	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	0.069	0.11	0.053	ug/l	J
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	0.55	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	22.0	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	30.6	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.47	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-070814		
Lab Sample ID:	MC31956-6	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39543.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	96%		36-173%
460-00-4	Bromofluorobenzene (S)	118%		36-173%

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:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32991.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2	H67603.D	100	07/20/14	AMY	n/a	n/a	MSH2247
Run #3	H67605.D	5000	07/20/14	AMY	n/a	n/a	MSH2247

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	44.1	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	371000 [b]	2500	1600	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	8.6	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	11.4	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	9.7	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	7.0	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [c]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/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:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1210 [d]	100	38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	68.9	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	8.5	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	139	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	63.3	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	160	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	392	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	95.4	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	1560 [d]	100	93	ug/l	
95-47-6	o-Xylene	234 [d]	100	36	ug/l	
1330-20-7	Xylene (total)	1790 [d]	100	36	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	68% [e]	107%	108%	70-130%
2037-26-5	Toluene-D8	74%	105%	104%	70-130%
460-00-4	4-Bromofluorobenzene	102%	114%	115%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(b) Result is from Run# 3
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.
(d) Result is from Run# 2
(e) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03501.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	29.9	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	136	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	0.71	2.2	0.28	ug/l	J
84-74-2	Di-n-butyl phthalate	0.27	5.4	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

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Report of Analysis

Client Sample ID:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-13-6	Indene	4.21	23	ug/l	JN
	Total TIC, Semi-Volatile		23	ug/l	J

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90806.D	1	07/18/14	MR	07/10/14	OP38905	MSI3380
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.29	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	0.075	0.11	0.054	ug/l	J
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.54	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	22.0	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	30.0	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.48	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P57-ROX-070814-DUP		
Lab Sample ID:	MC31956-7	**Date Sampled:**	07/08/14
Matrix:	AQ - Ground Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39544.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	130%		36-173%

ND = Not detected MDL = Method Detection Limit
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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:	TB-070814-HCL		
Lab Sample ID:	MC31956-8	**Date Sampled:**	07/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V32976.D	1	07/18/14	AMY	n/a	n/a	MSV1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-070814-HCL		
Lab Sample ID:	MC31956-8	**Date Sampled:**	07/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-070814-HCL		
Lab Sample ID:	MC31956-8	**Date Sampled:**	07/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/09/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	TB-070814-ST		
Lab Sample ID:	MC31956-9	**Date Sampled:**	07/08/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/09/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39545.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	34.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	103%		36-173%
460-00-4	Bromofluorobenzene (S)	105%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

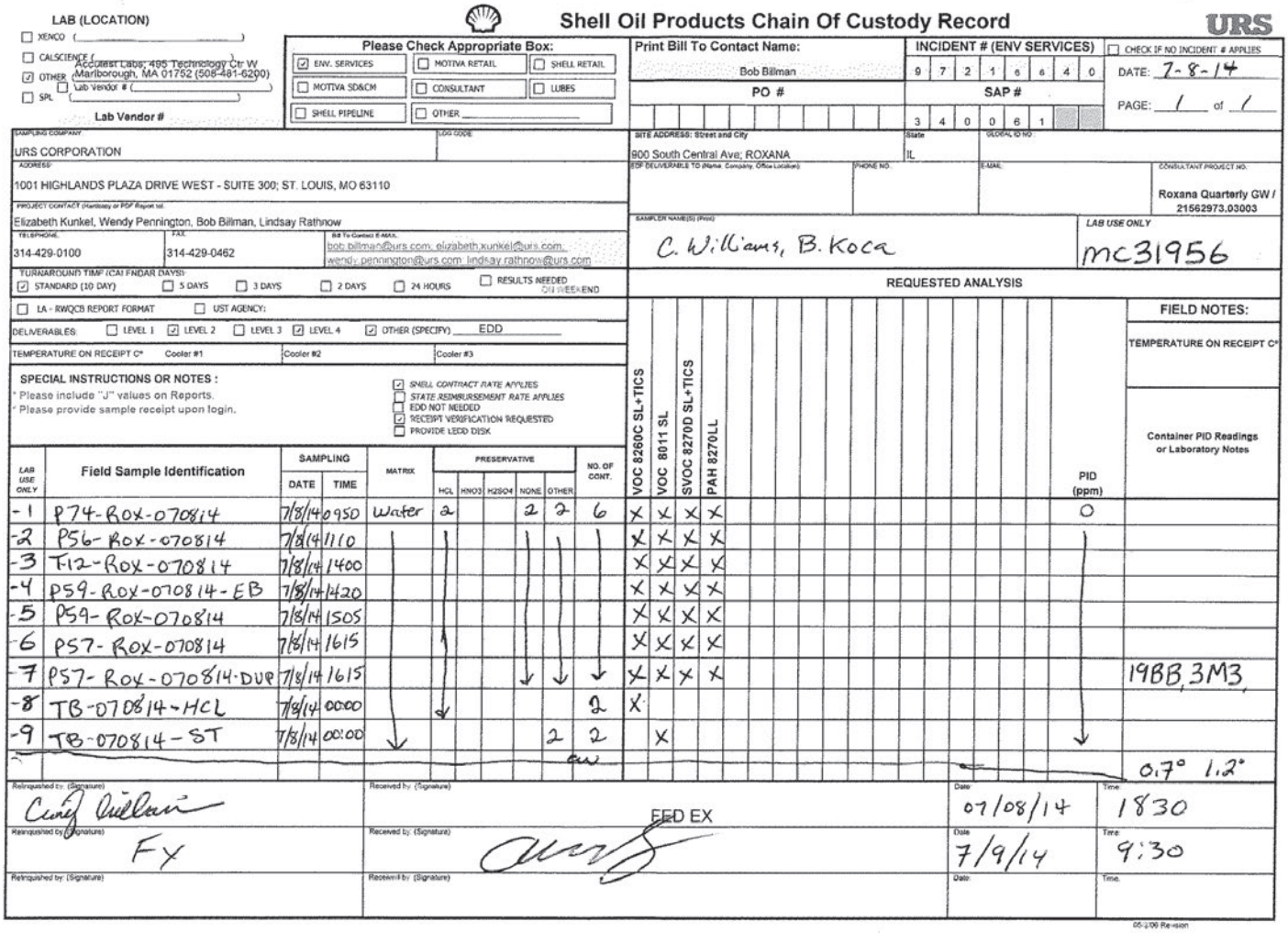
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER Accutest Labs, 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7-8-14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
ESP DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): C. Williams, B. Koca
LAB USE ONLY: MC31956
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P74-ROX-070814	7/8/14	0950	Water	2			2	2	6	X	X	X	X	0	
-2	P56-ROX-070814	7/8/14	1110								X	X	X	X		
-3	T12-ROX-070814	7/8/14	1400								X	X	X	X		
-4	P59-ROX-070814-EB	7/8/14	1420								X	X	X	X		
-5	P59-ROX-070814	7/8/14	1505								X	X	X	X		
-6	P57-ROX-070814	7/8/14	1615								X	X	X	X		
-7	P57-ROX-070814-DUP	7/8/14	1615								X	X	X	X		19BB, 3M3,
-8	TB-070814-HCL	7/8/14	0000							2	X					
-9	TB-070814-ST	7/8/14	0000						2	2		X				
																0.7° 1.2°

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Cindy Williams	FED EX	07/08/14	1830
FX		7/9/14	9:30

05-2.00 Revision

MC31956: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC31956 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/9/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC31956: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC31956 **Sample:** MSH2244-ICC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67478.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Response Factor Report MSH

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Calibration Files
0.25=h67472.d 0.5 =h67473.d 1 =h67474.d 5 =h67475.d
10 =h67476.d 25 =h67477.d 50 =h67478.d 100 =h67479.d
200 =h67480.d 400 =h67481.d = =

Compound

	0.25	0.5	1	5	10	25	50	100	200	400	Avg	%RSD
1) I 1,4-difluorobenzene	----------ISTD----------											
2) benzene	1.475	1.213	1.387	1.287	1.345	1.193	1.180	1.069	1.022		1.241	11.86
3) I 1,4-dichlorobenzene-d	----------ISTD----------											
4) 1,1,2,2-tetrachloroethane	1.087	0.899	1.040	0.836	0.849	0.774	0.744	0.688	0.598		0.835	18.91

---- Quadratic regression ---- Coefficient = 0.9990
Response Ratio = 0.00415 + 0.80280 *A + -0.02603 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

h140716wx.m Mon Oct 19 11:30:13 2015

Initial Calibration Verification

Job Number: MC31956 **Sample:** MSH2244-ICV2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67492.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140717\h67492.d Vial: 4
Acq On : 17 Jul 2014 1:41 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32302,msh2244,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.49
2	p	benzene	1.241	1.231	0.8	106	0.00	9.29
3	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
			Amount	Calc.	%Drift			
4	P	1,1,2,2-tetrachloroethane	50.000	49.981	0.0	105	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Mon Oct 19 15:42:36 2015

Continuing Calibration Summary

Job Number: MC31956 **Sample:** MSH2247-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67581.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140720\h67581.d Vial: 2
Acq On : 20 Jul 2014 9:22 am Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32319,msh2247,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	9.49
2 p	benzene	1.241	1.211	2.4	108	0.00	9.28
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	49.053	1.9	103	0.00	13.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 08:59:26 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

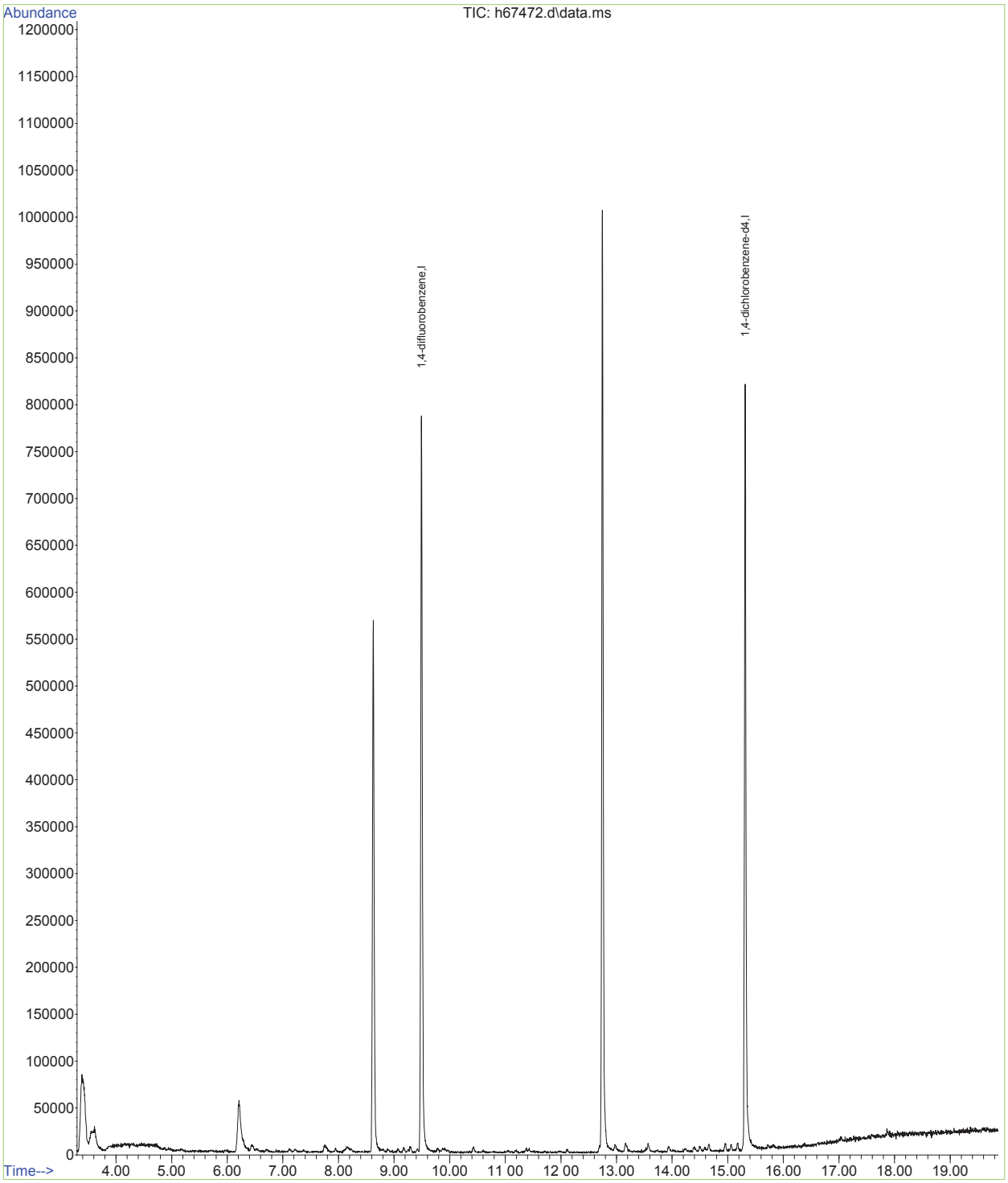
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	684493	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	236246	50.00	ug/L	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

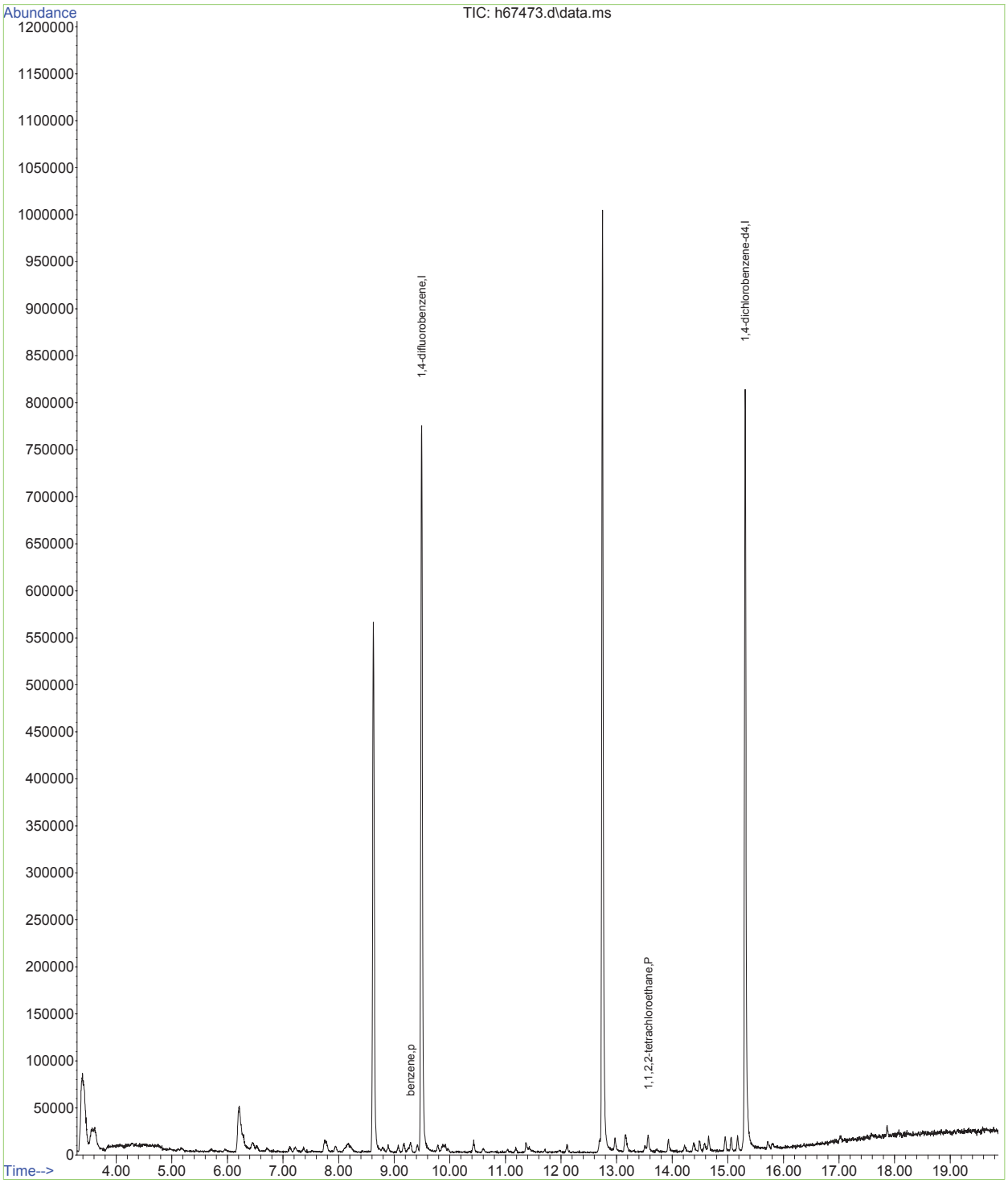
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	677191	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	233786	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.292	78	9988m	0.62	ug/L	
4) 1,1,2,2-tetrachloroethane	13.572	83	2541	0.70	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

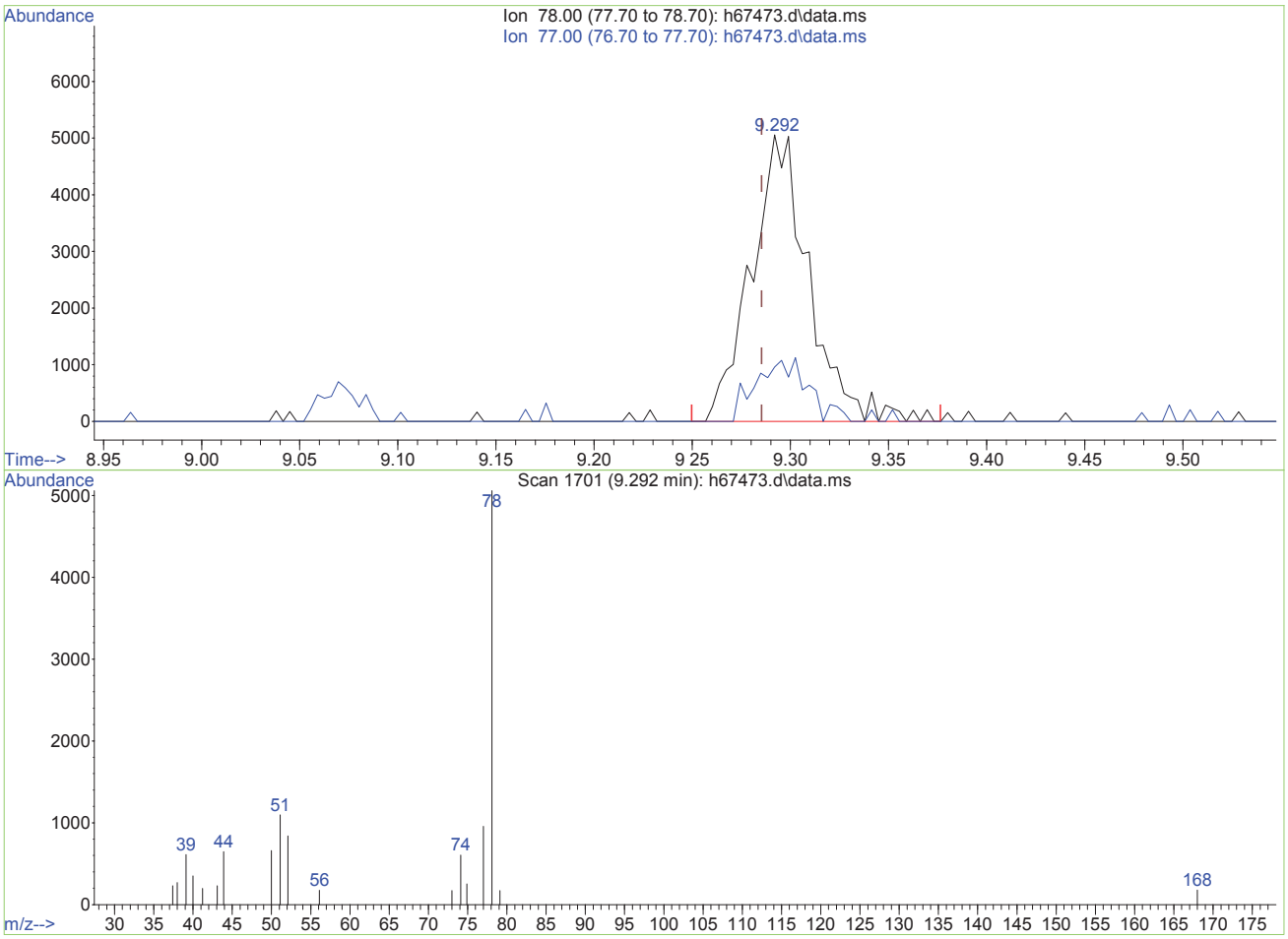
Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:19:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:18:16 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.64ug/L

response 10328

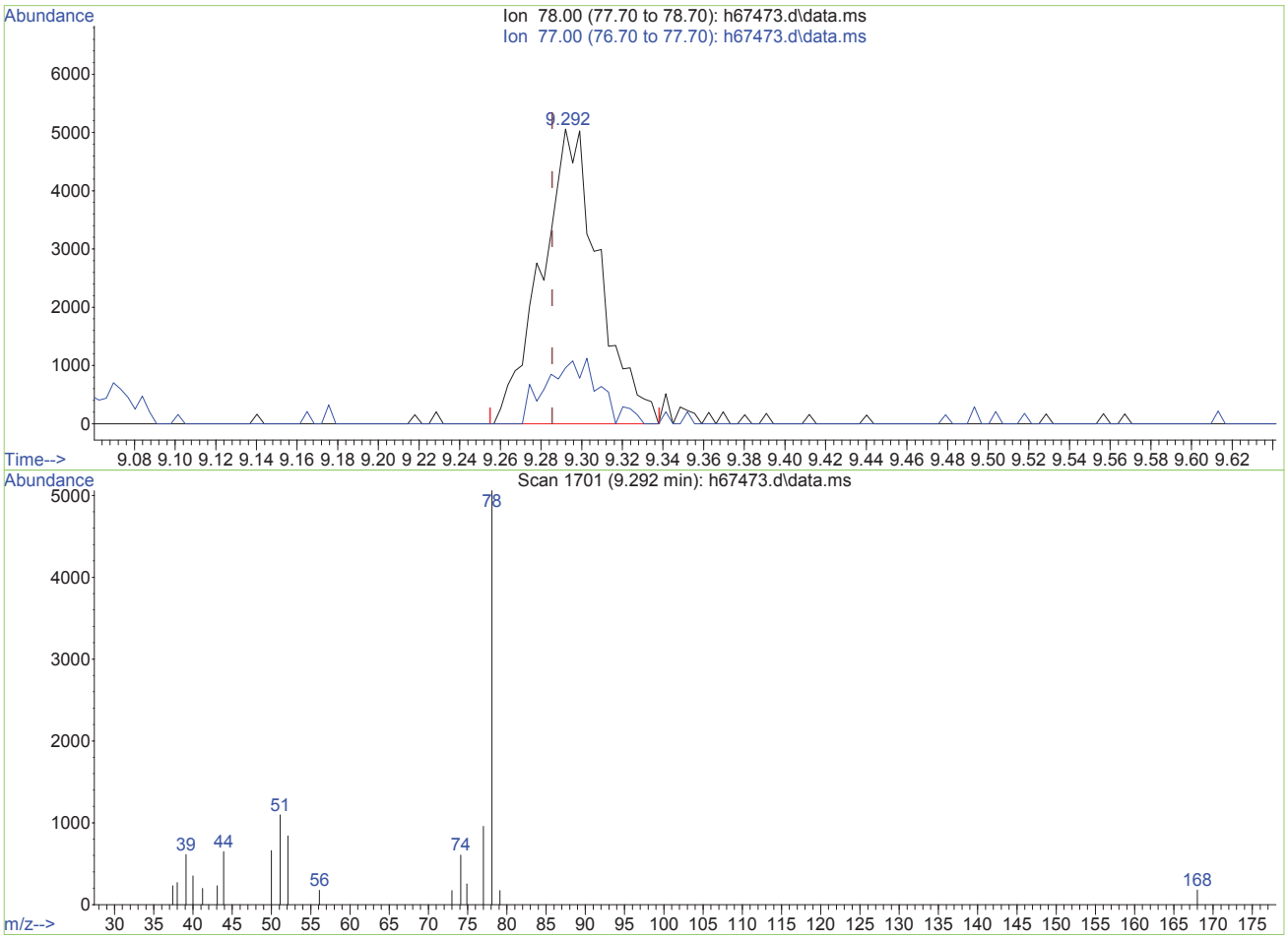
Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.62ug/L m

response 9988

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

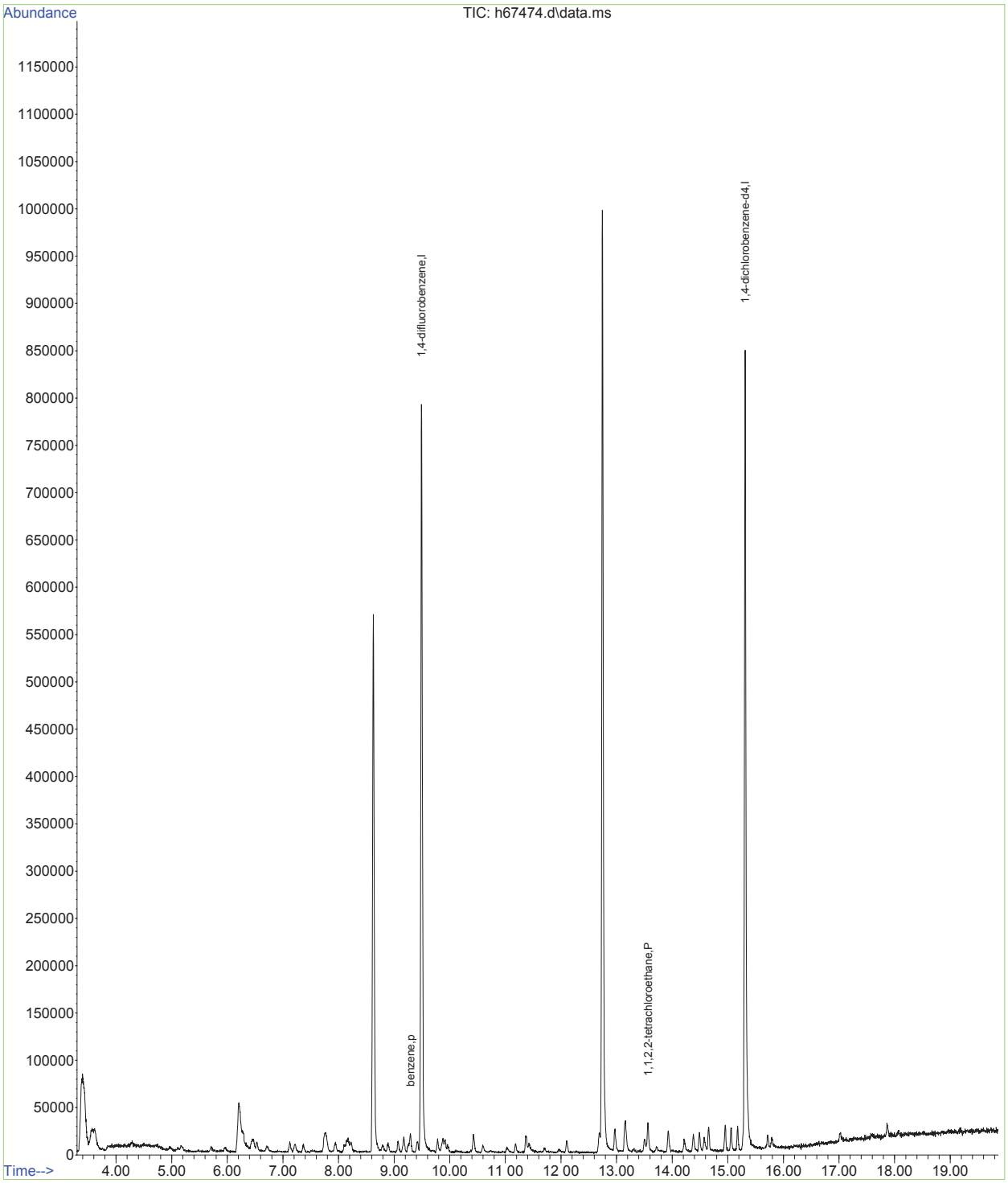
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	687264	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	240259	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.291	78	16672	1.02	ug/L	95
4) 1,1,2,2-tetrachloroethane	13.565	83	4319	1.16	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

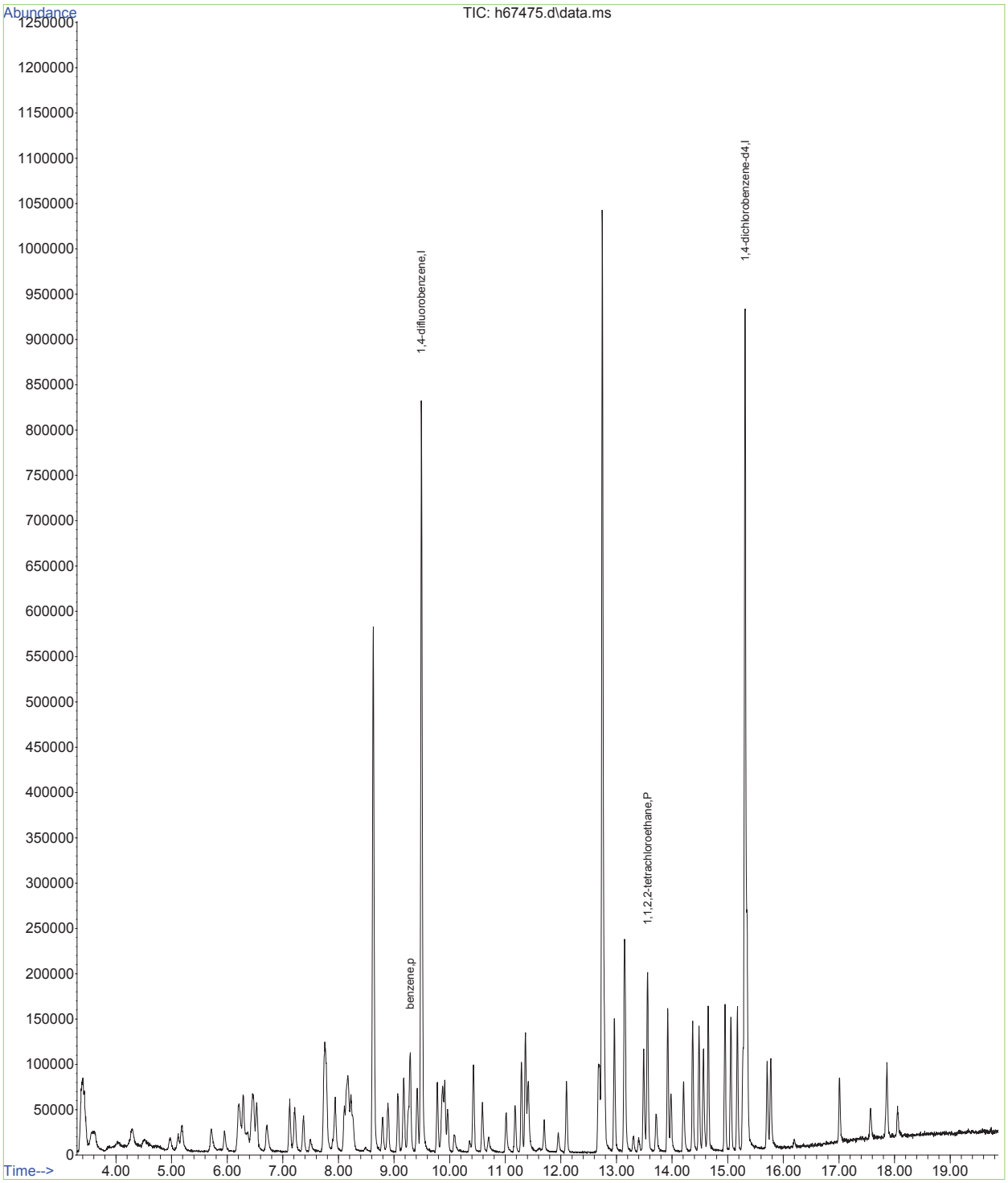
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699432	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	259949	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	97018	5.81	ug/L	93
4) 1,1,2,2-tetrachloroethane	13.559	83	27040	6.72	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

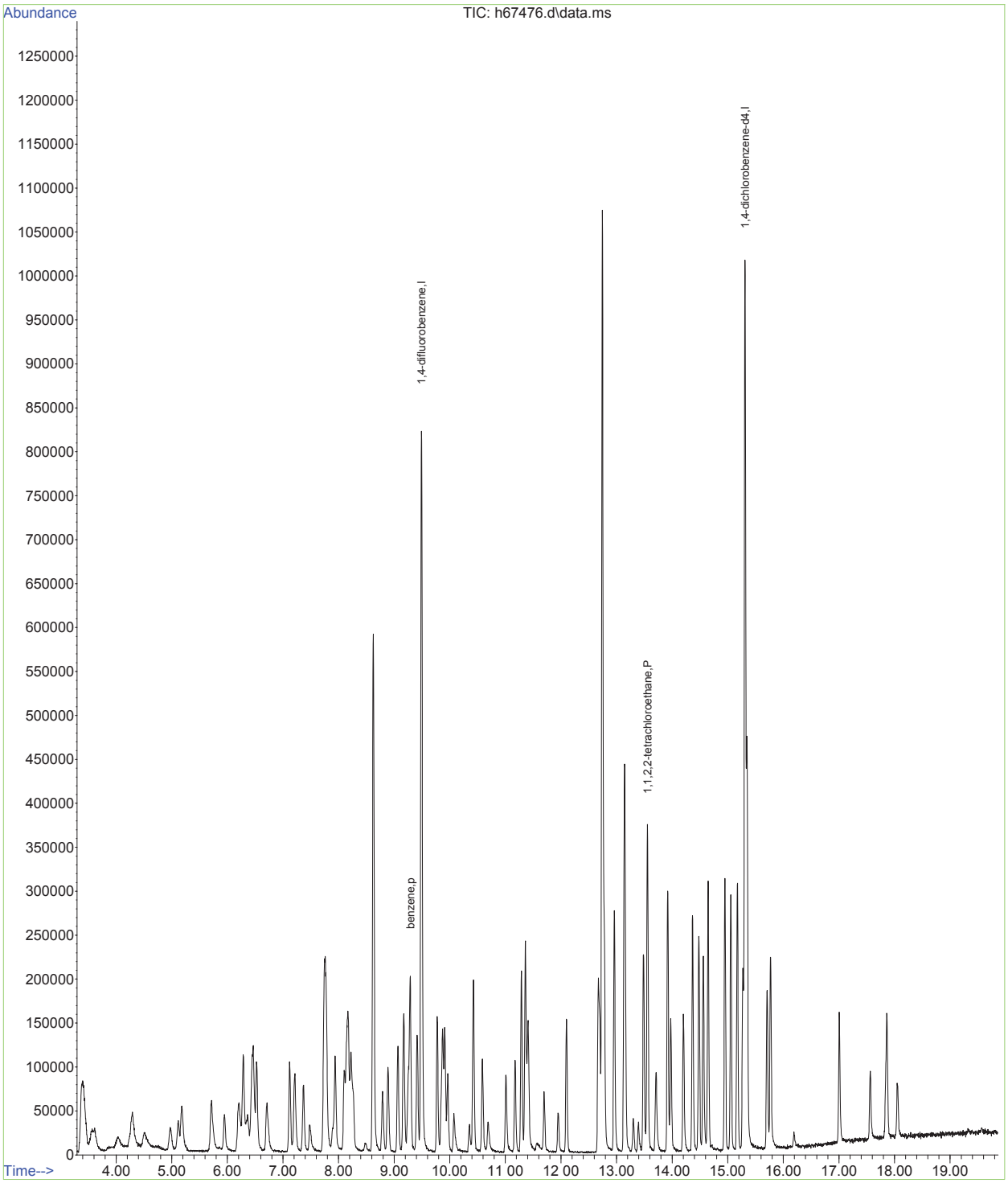
Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	695845	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	274980	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	179063	10.79	ug/L	99
4) 1,1,2,2-tetrachloroethane	13.560	83	45957	10.80	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

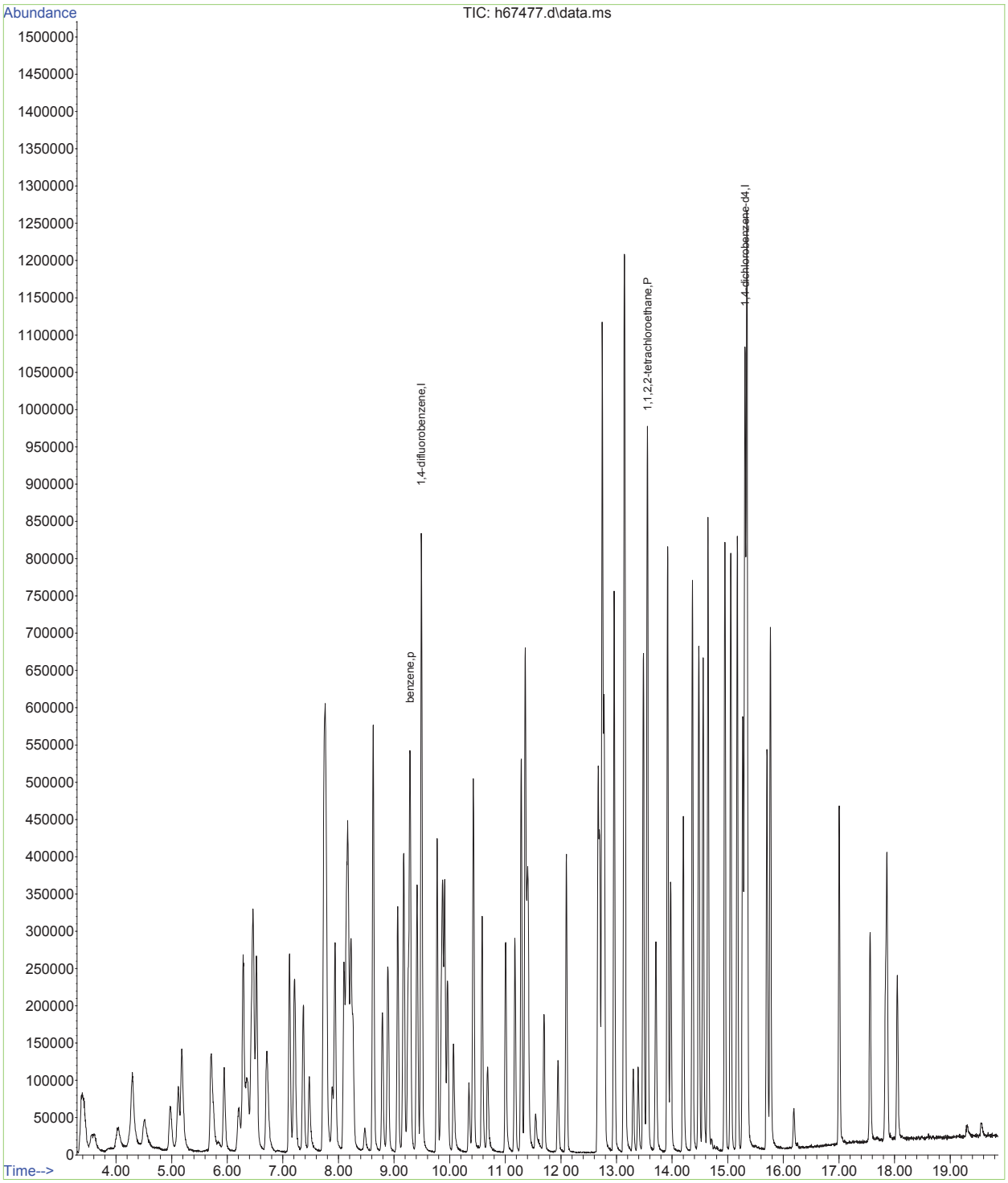
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699612	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	289791	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	470565	28.19	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.558	83	122945	27.42	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

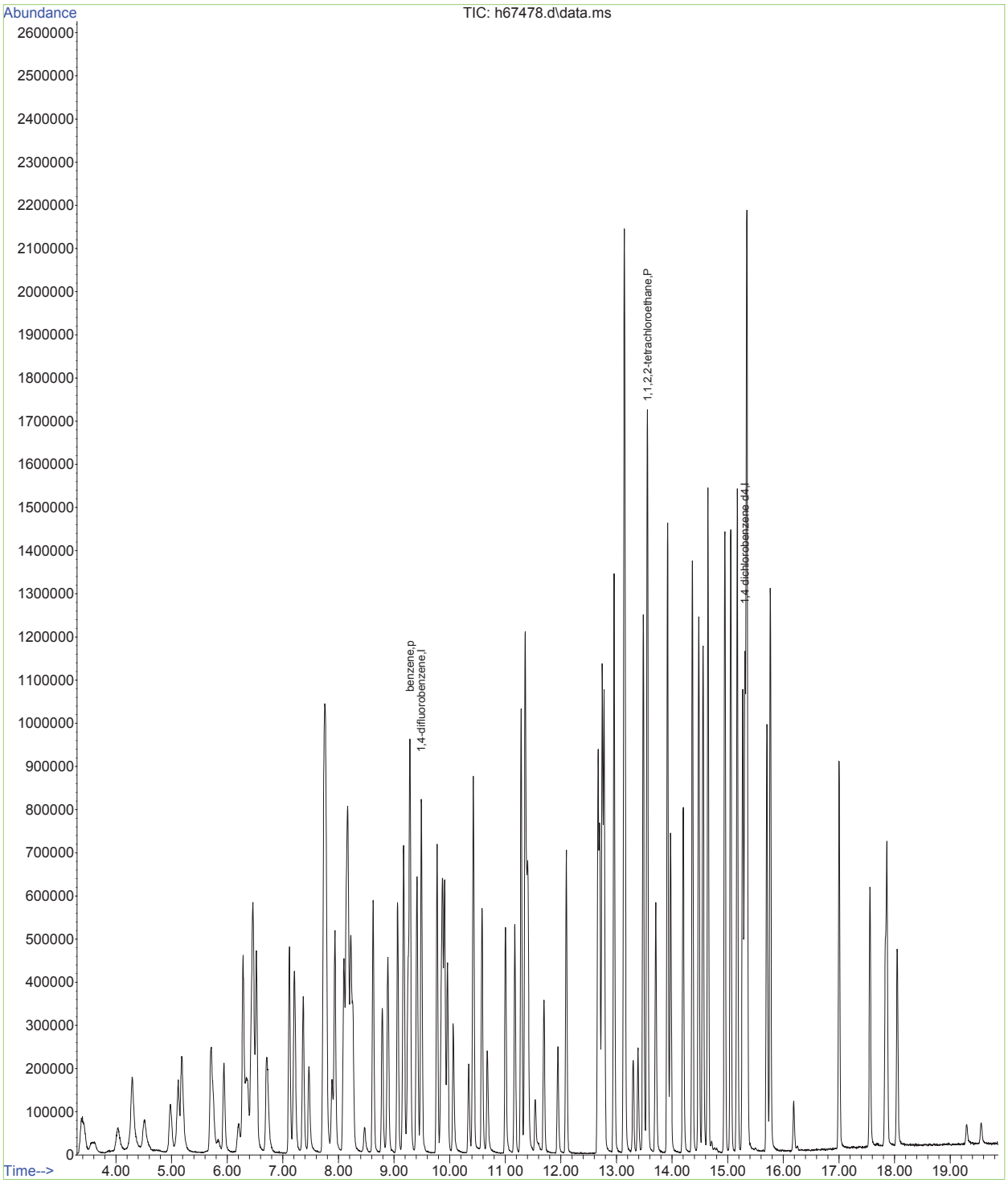
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	694753	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	295278	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	828803	50.00	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.559	83	228425	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

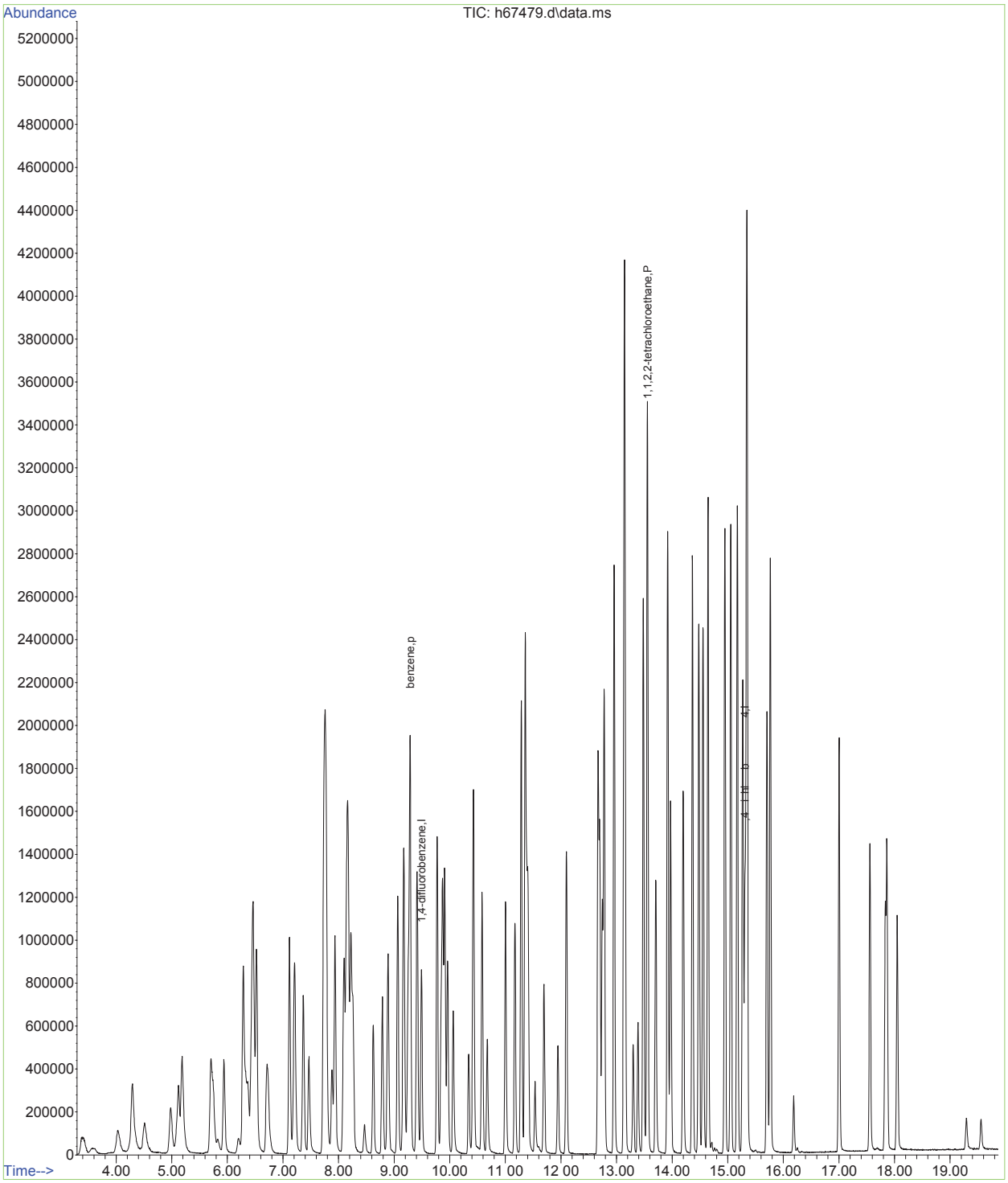
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	708246	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	308032	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1672064	98.95	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.559	83	458386	96.18	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

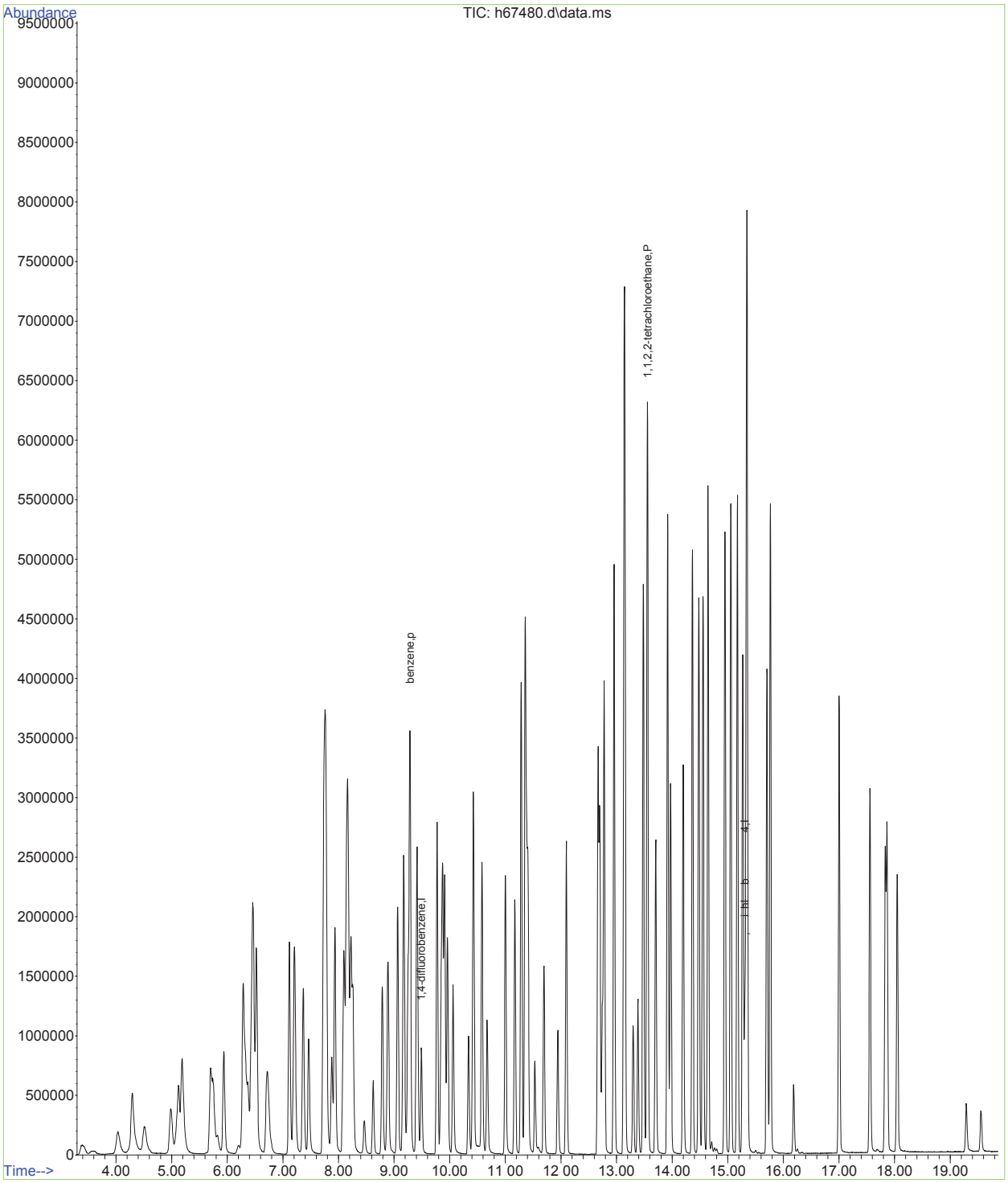
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	716390	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	313007	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	3064468	179.29	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	861357	177.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

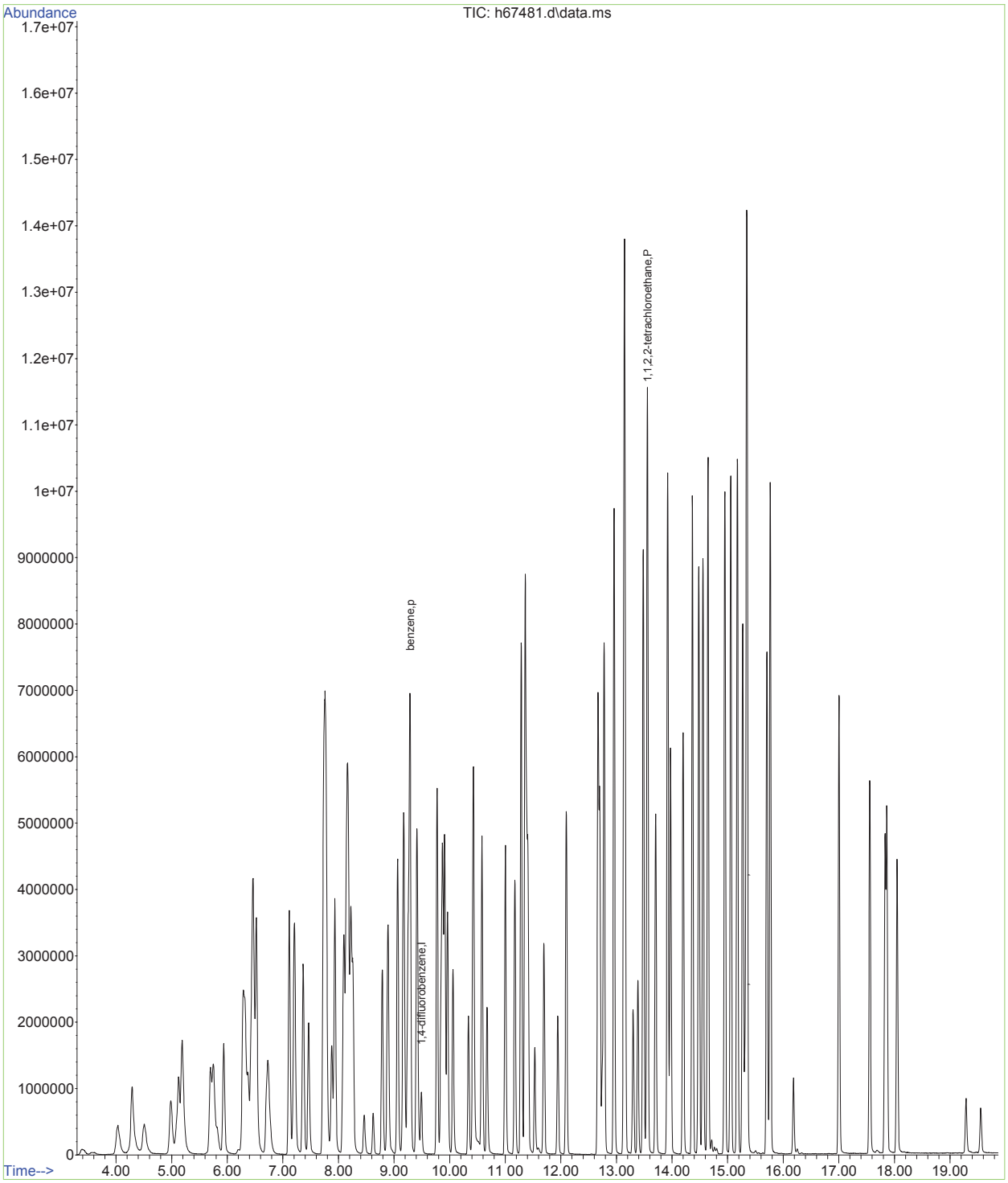
Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	739850	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	313899	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	6047226	342.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.561	83	1502858	309.45	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

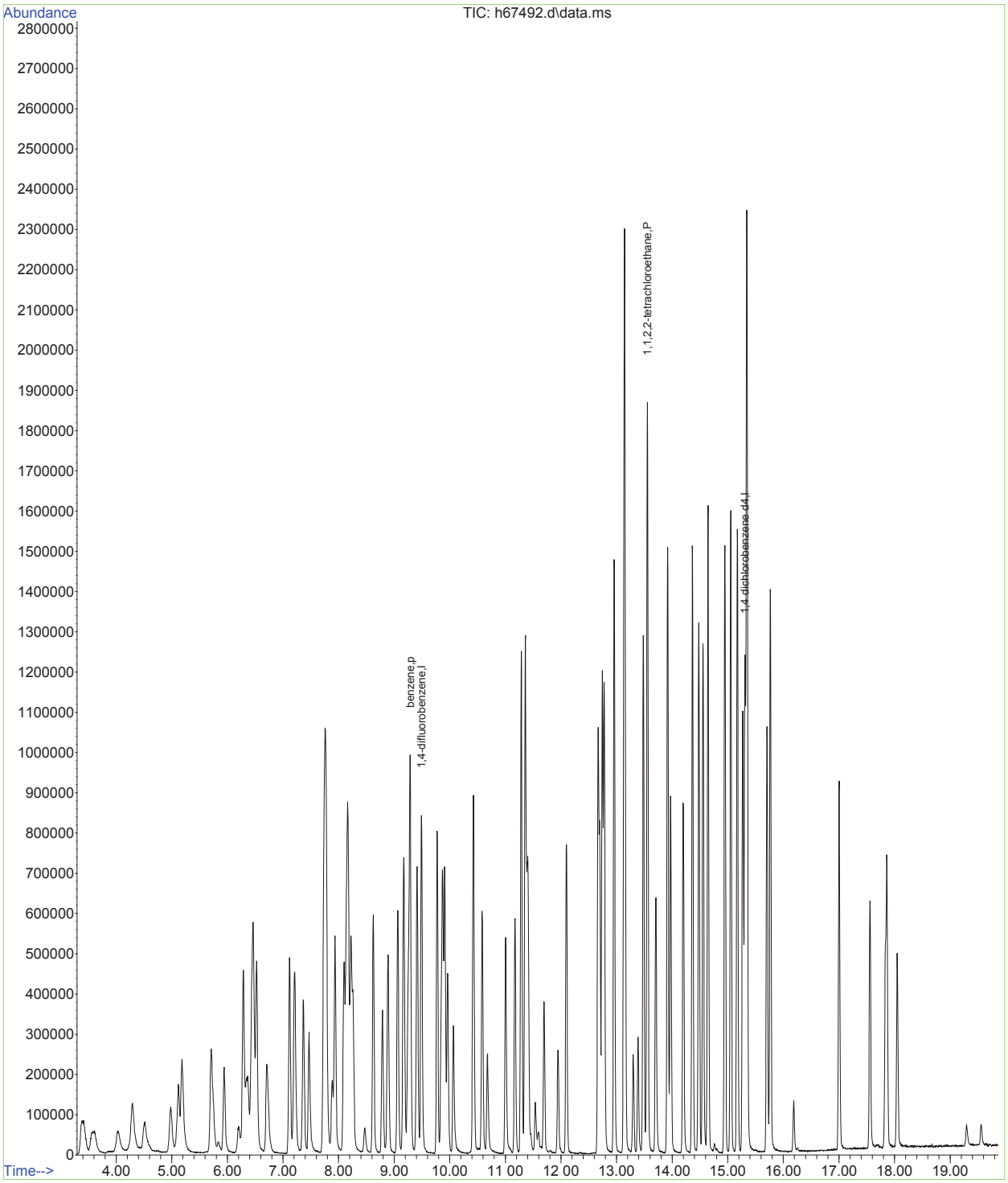
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	710770	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	307965	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	874815	49.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	240411	49.98	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67581.d
Acq On : 20 Jul 2014 9:22 am
Operator : amym
Sample : cc2244-50
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:58:21 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	737083	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	306197	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	892465	48.77	ug/L	96
4) 1,1,2,2-tetrachloroethane	13.555	83	234762	49.05	ug/L	98

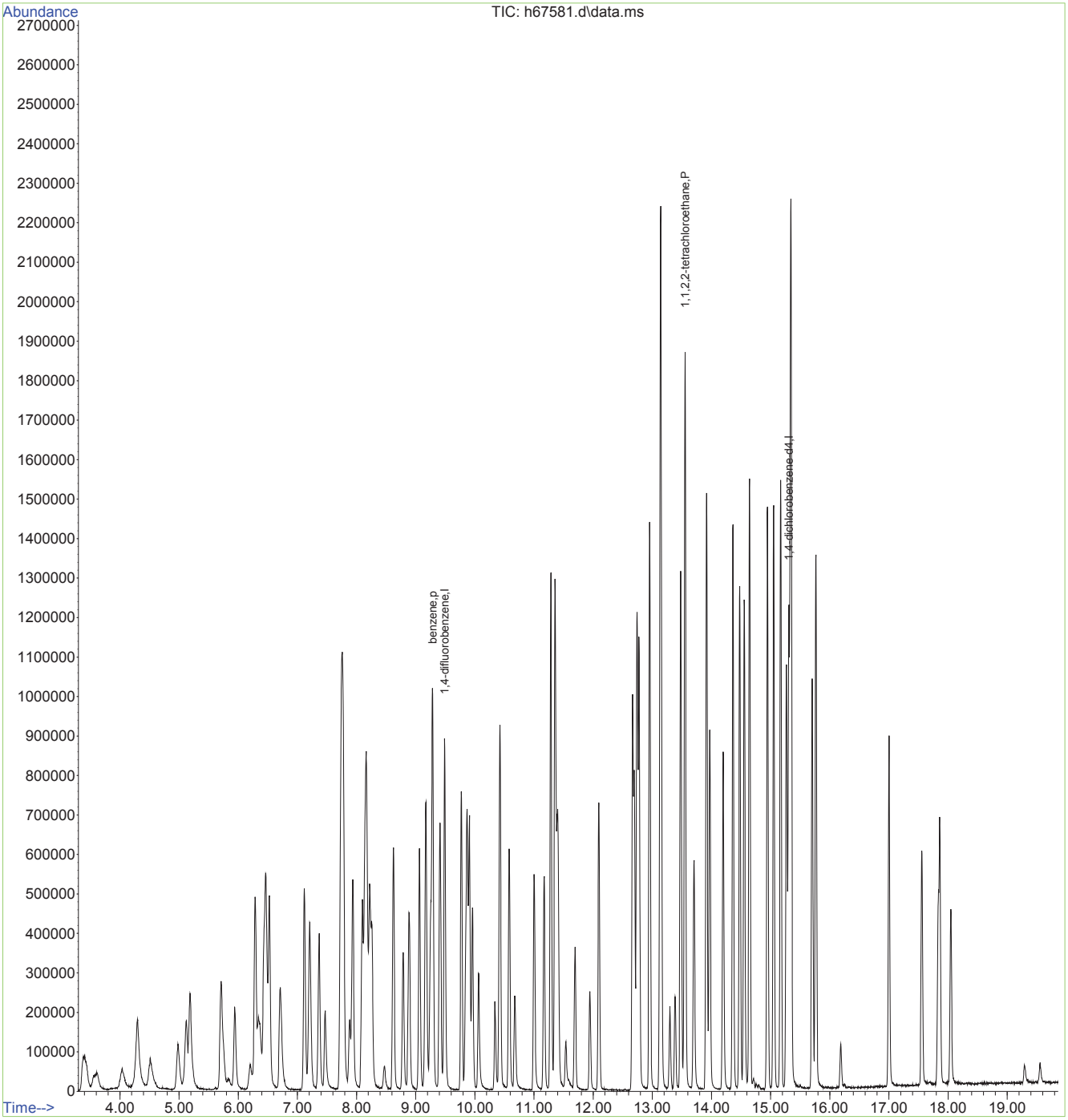
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC31956

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67581.d
Acq On : 20 Jul 2014 9:22 am
Operator : amym
Sample : cc2244-50
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:58:21 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67600.d
Acq On : 20 Jul 2014 6:18 pm
Operator : amym
Sample : mc31956-3
Misc : ms32314,msh2247,,,,5,10
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 08:58:49 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

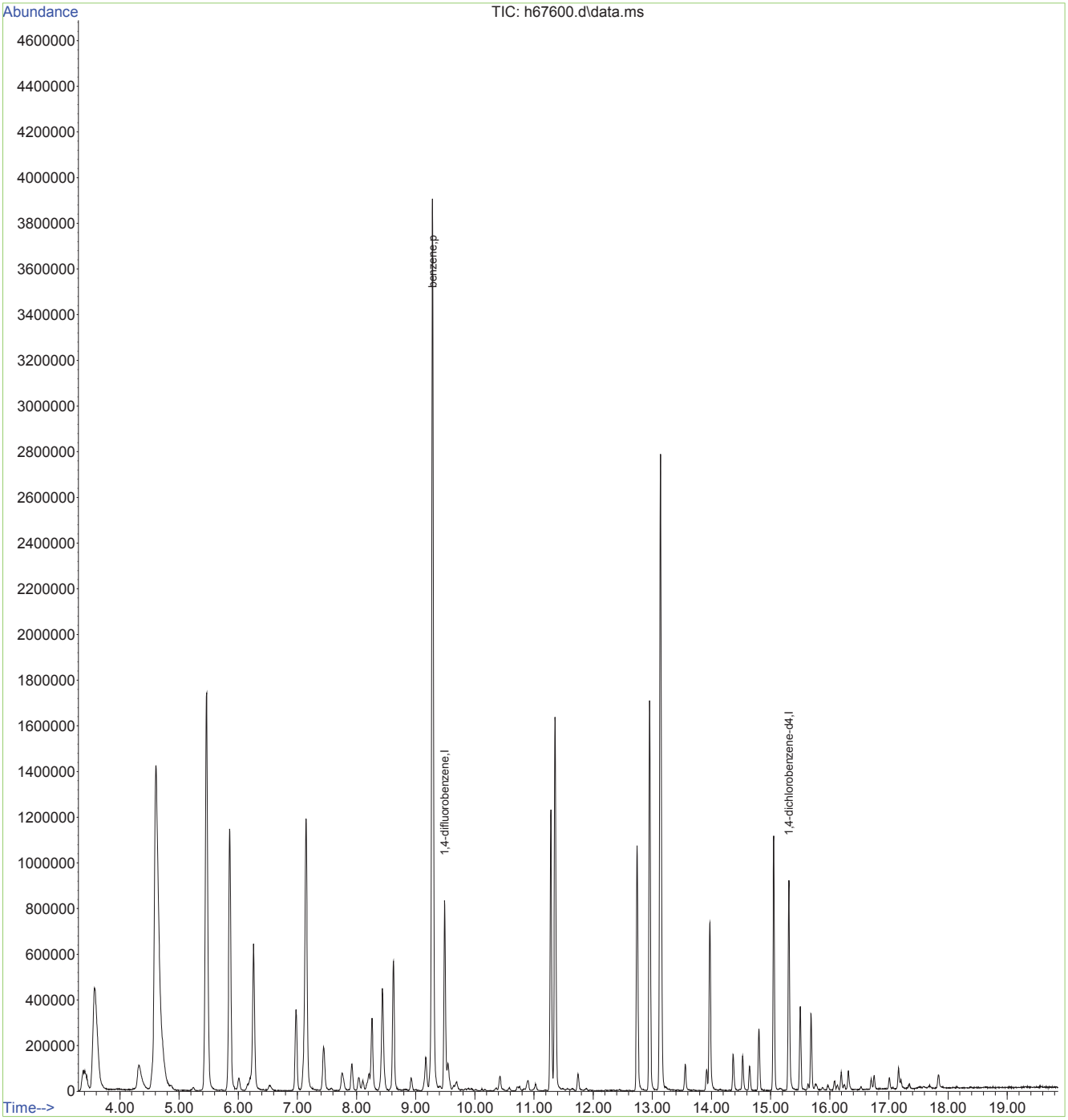
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	684379	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	246588	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	3571135	210.19	ug/L	98

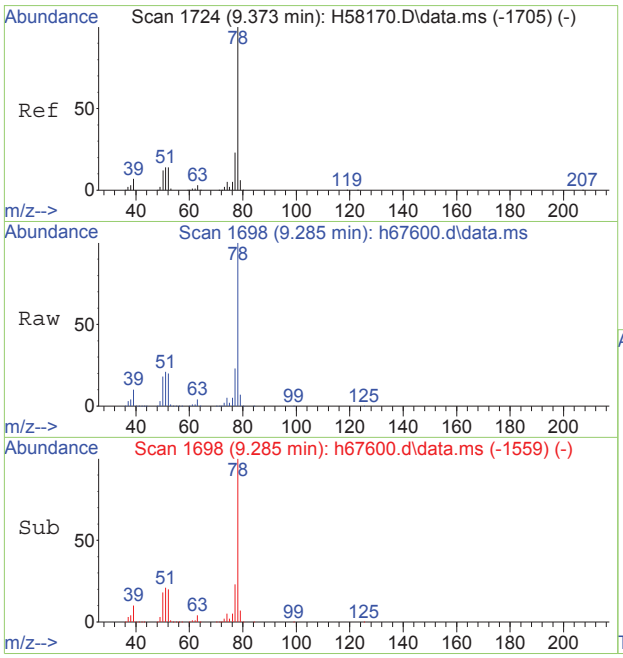
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67600.d
Acq On : 20 Jul 2014 6:18 pm
Operator : amym
Sample : mc31956-3
Misc : ms32314,msh2247,,,,5,10
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 08:58:49 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

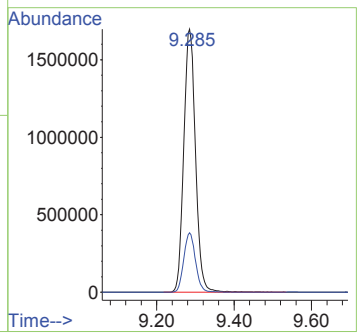




#2
benzene
Concen: 210.19 ug/L
RT: 9.285 min Scan# 1698
Delta R.T. -0.000 min
Lab File: h67600.d
Acq: 20 Jul 2014 6:18 pm

Tgt Ion: 78 Resp: 3571135

Ion	Ratio	Lower	Upper
78	100		
77	22.6	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67601.d
Acq On : 20 Jul 2014 6:46 pm
Operator : amym
Sample : mc31956-5
Misc : ms32314,msh2247,,,,5,50
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 08:58:51 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

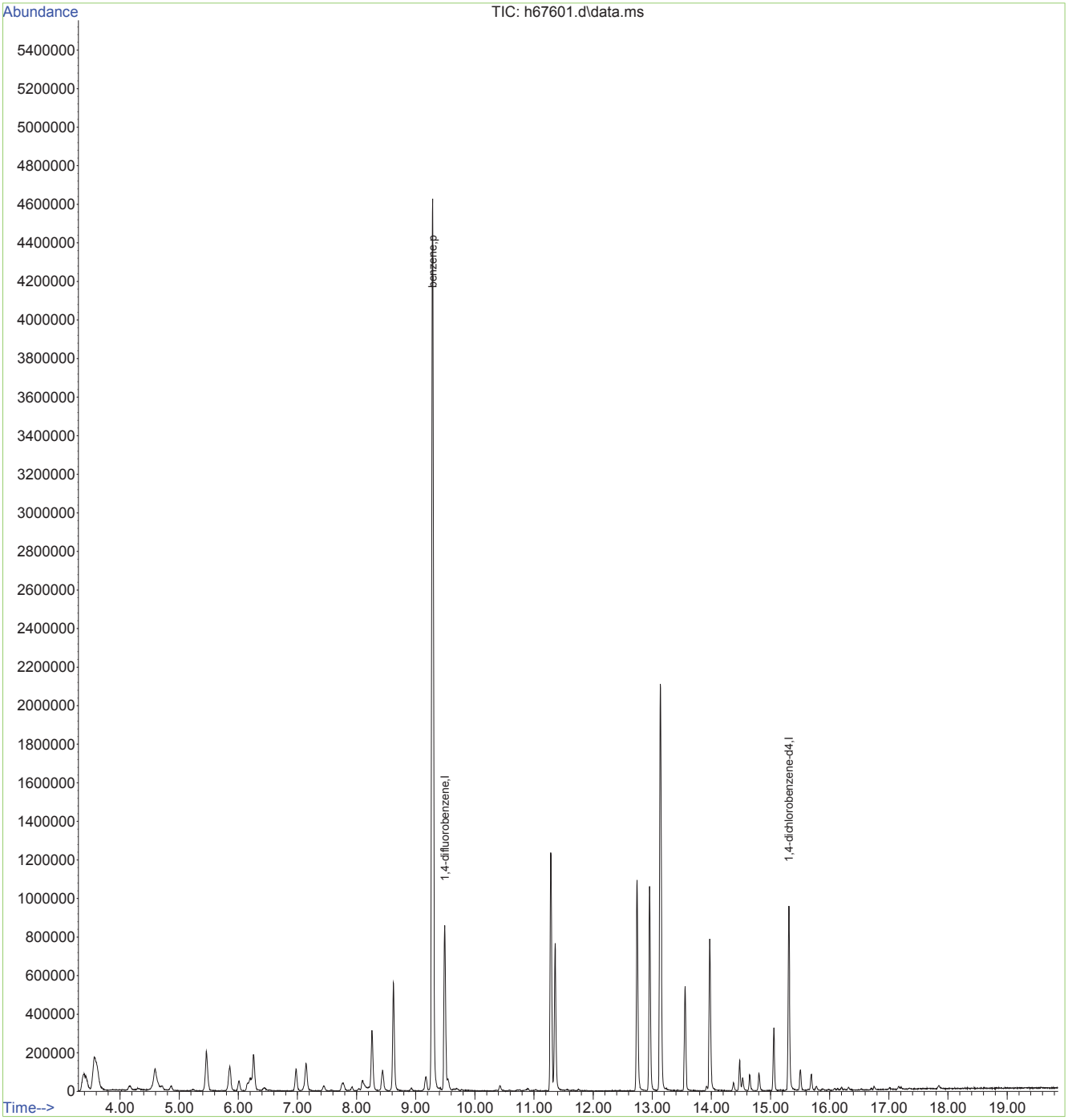
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	708306	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	249191	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	4286450	243.77	ug/L	97

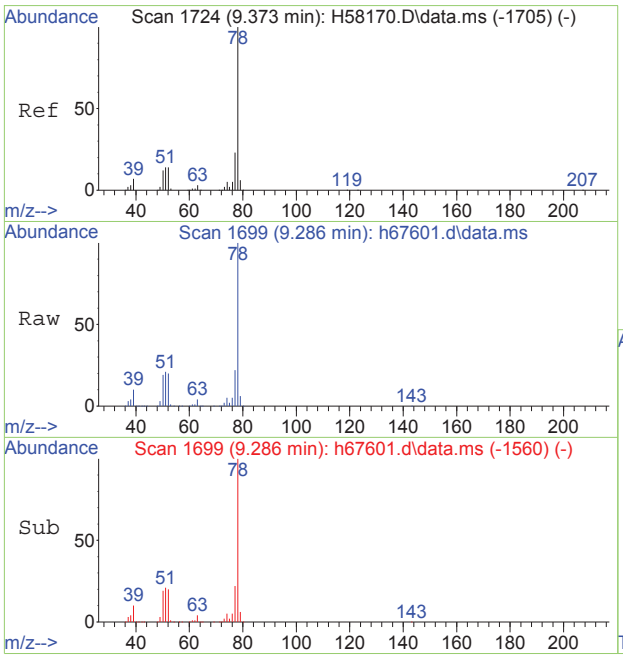
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67601.d
Acq On : 20 Jul 2014 6:46 pm
Operator : amym
Sample : mc31956-5
Misc : ms32314,msh2247,,,,5,50
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 08:58:51 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

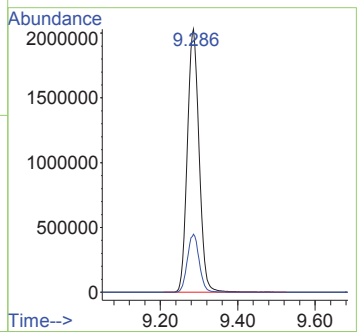




#2
benzene
Concen: 243.77 ug/L
RT: 9.286 min Scan# 1699
Delta R.T. 0.001 min
Lab File: h67601.d
Acq: 20 Jul 2014 6:46 pm

Tgt Ion: 78 Resp: 4286450

Ion	Ratio	Lower	Upper
78	100		
77	22.1	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67604.d
Acq On : 20 Jul 2014 8:11 pm
Operator : amym
Sample : mc31956-6
Misc : ms32314,msh2247,,,,5,5000
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 08:58:53 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

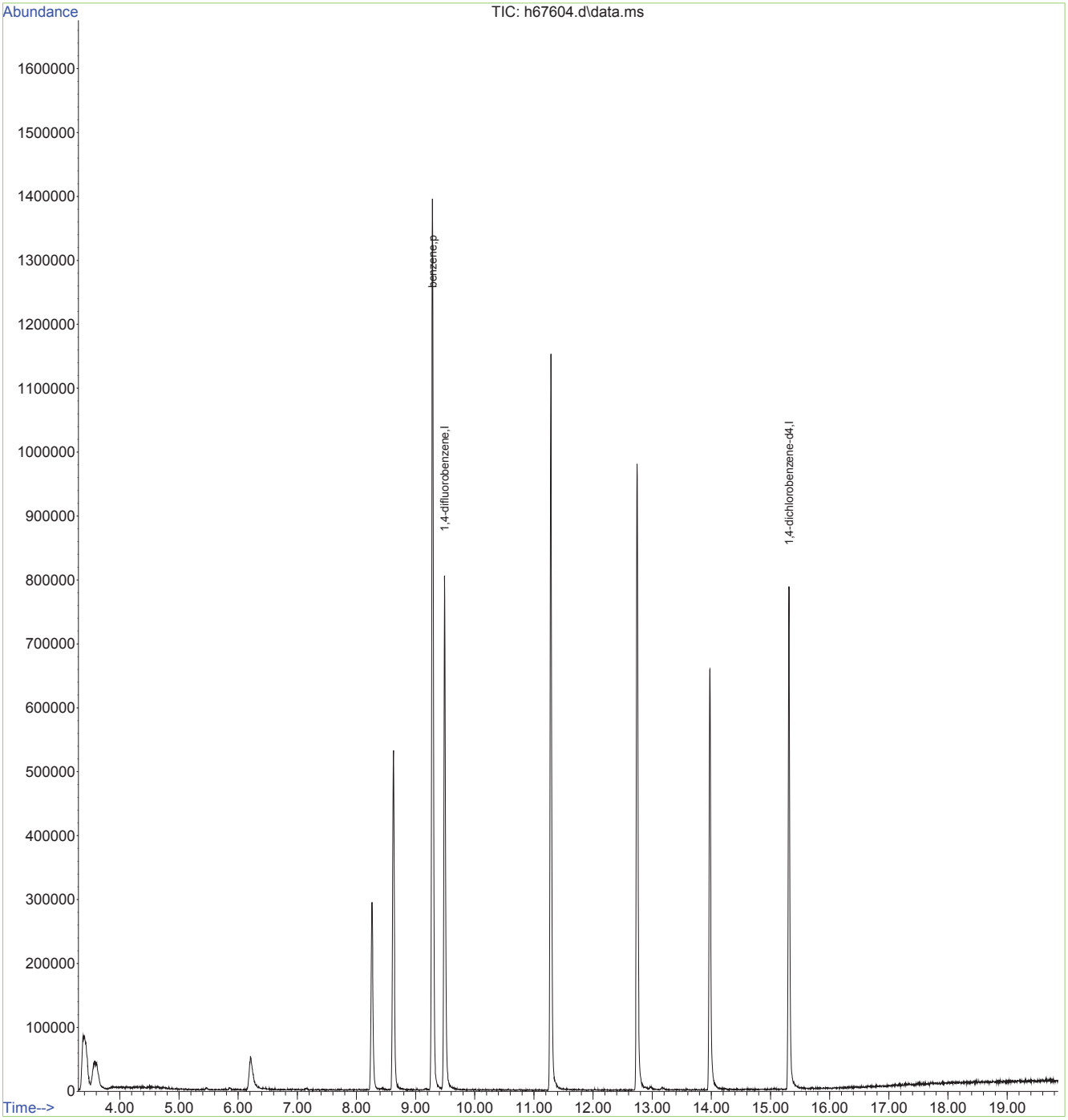
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	661807	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	216192	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	1243366	75.68	ug/L	99

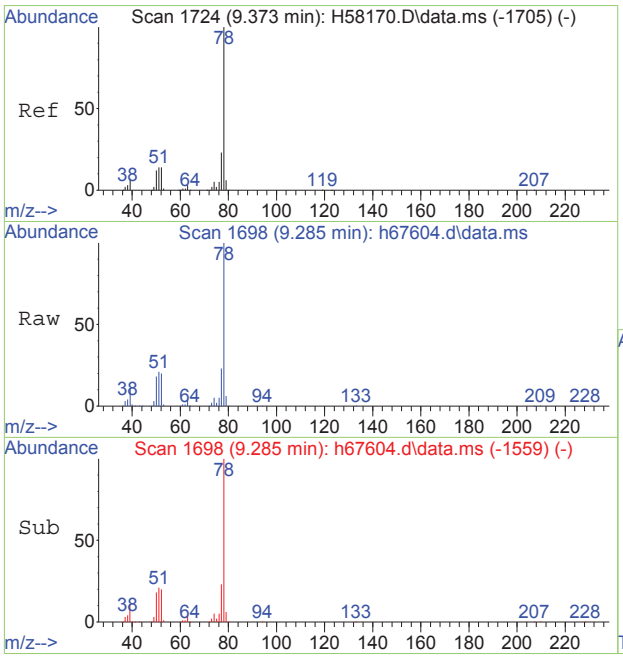
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67604.d
Acq On : 20 Jul 2014 8:11 pm
Operator : amym
Sample : mc31956-6
Misc : ms32314,msh2247,,,,5,5000
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 08:58:53 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

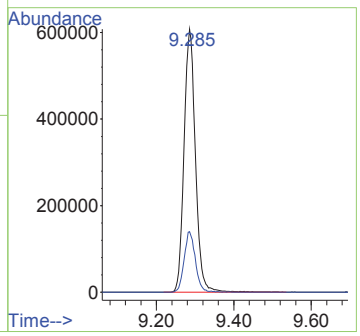




#2
benzene
Concen: 75.68 ug/L
RT: 9.285 min Scan# 1698
Delta R.T. 0.000 min
Lab File: h67604.d
Acq: 20 Jul 2014 8:11 pm

Tgt Ion: 78 Resp: 1243366

Ion	Ratio	Lower	Upper
78	100		
77	23.0	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67605.d
Acq On : 20 Jul 2014 8:39 pm
Operator : amym
Sample : mc31956-7
Misc : ms32314,msh2247,,,,5,5000
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 08:58:55 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

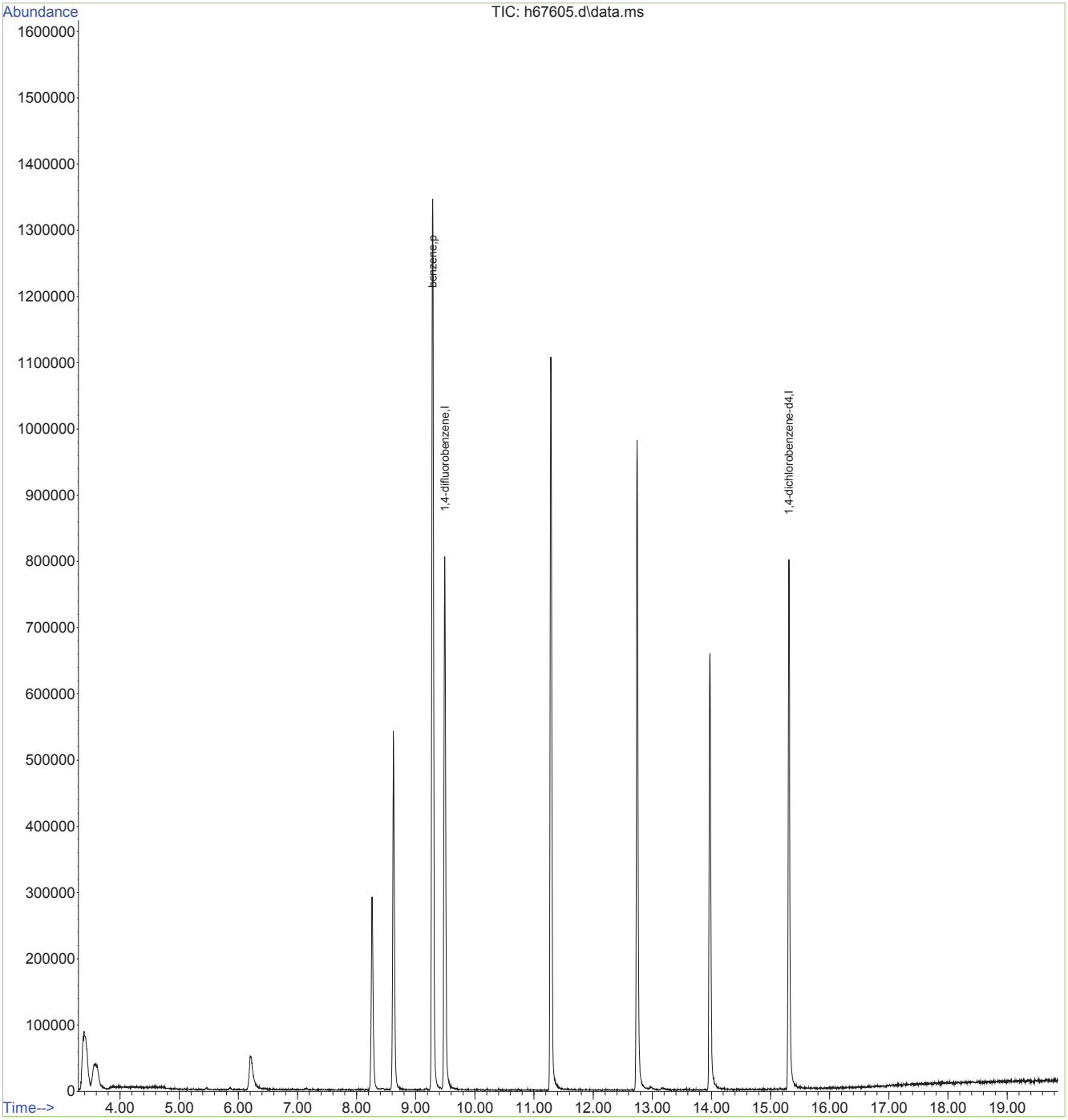
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	659736	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	216204	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1216775	74.29	ug/L	98

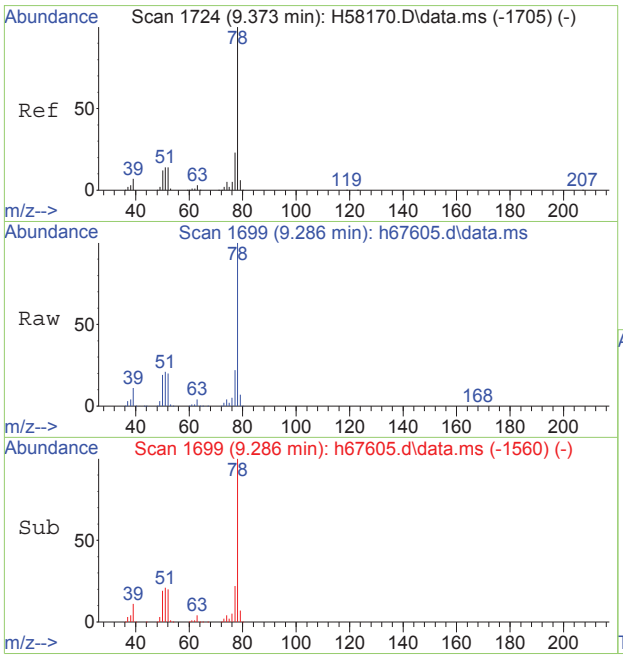
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67605.d
Acq On : 20 Jul 2014 8:39 pm
Operator : amym
Sample : mc31956-7
Misc : ms32314,msh2247,,,,5,5000
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 08:58:55 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

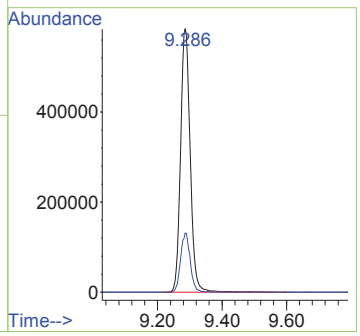




#2
benzene
Concen: 74.29 ug/L
RT: 9.286 min Scan# 1699
Delta R.T. 0.001 min
Lab File: h67605.d
Acq: 20 Jul 2014 8:39 pm

Tgt Ion: 78 Resp: 1216775

Ion	Ratio	Lower	Upper
78	100		
77	22.5	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67582.d
Acq On : 20 Jul 2014 9:50 am
Operator : amym
Sample : bs
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 08:58:23 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

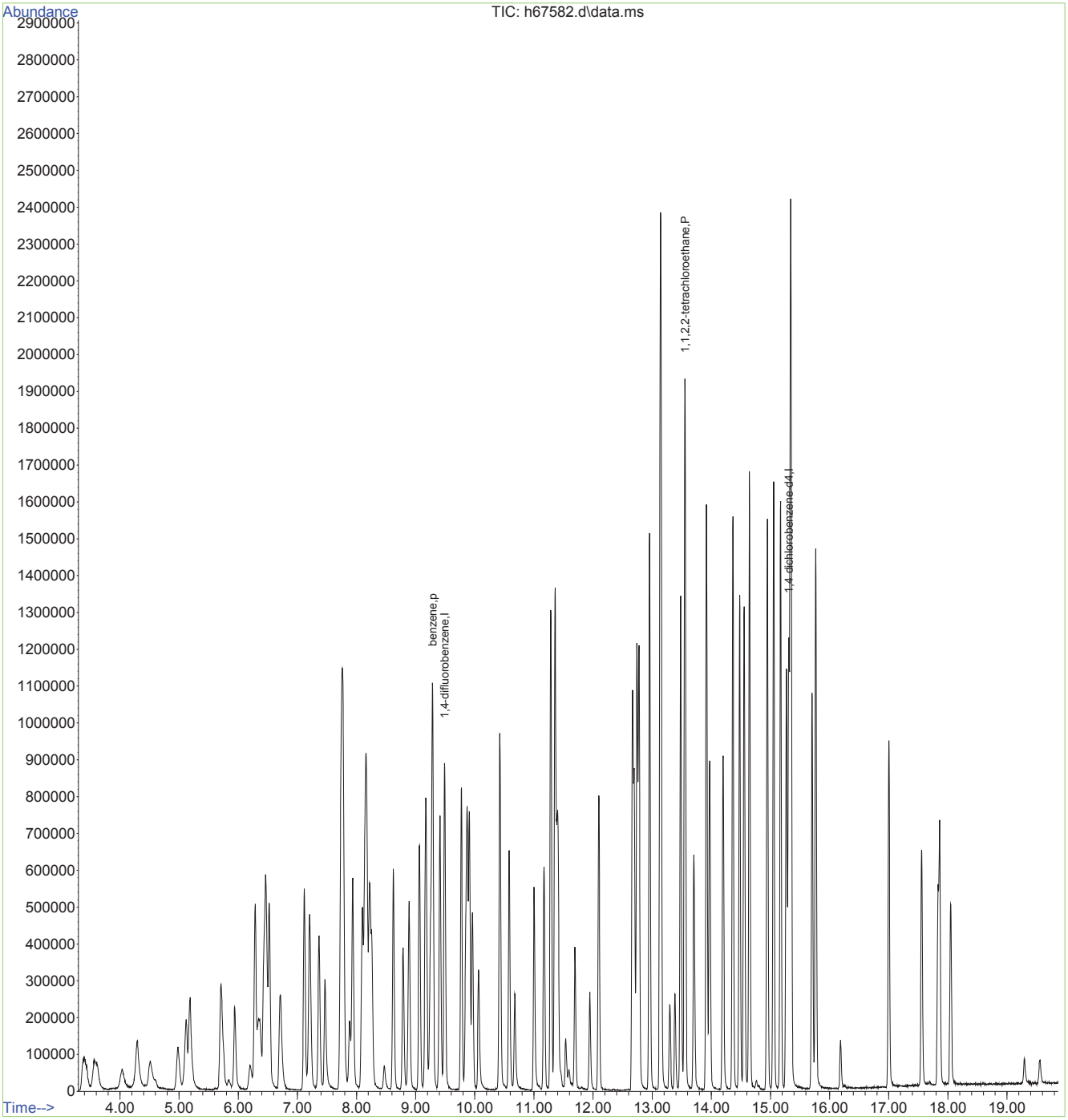
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.488	114	729064	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.307	152	302760	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.287	78	943293	52.12	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.557	83	246632	52.25	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67582.d
Acq On : 20 Jul 2014 9:50 am
Operator : amym
Sample : bs
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 08:58:23 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67583.d
Acq On : 20 Jul 2014 10:18 am
Operator : amym
Sample : bsd
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 08:58:25 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

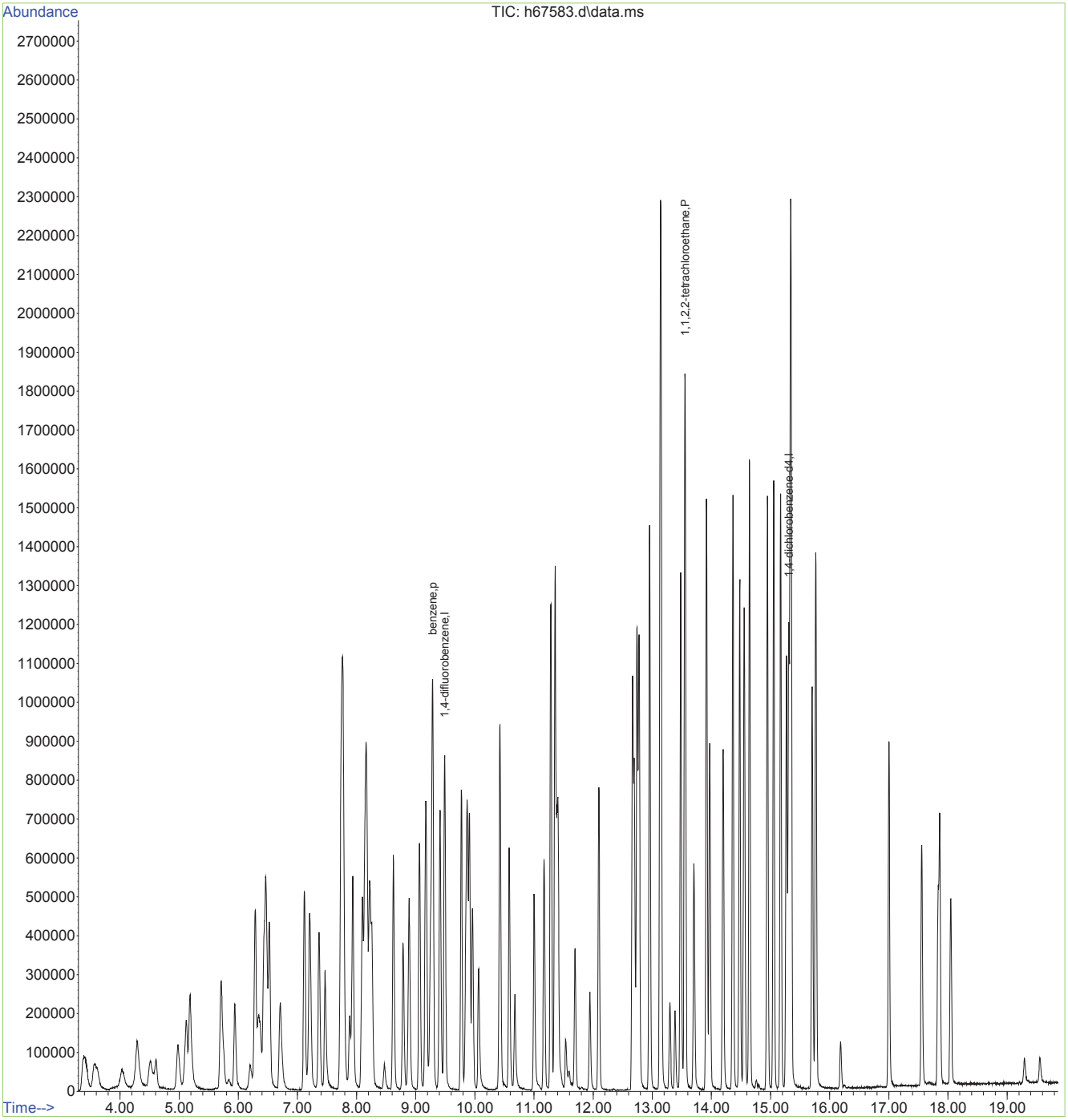
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.487	114	718985	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	296241	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	921666	51.64	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.556	83	235879	51.02	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67583.d
Acq On : 20 Jul 2014 10:18 am
Operator : amym
Sample : bsd
Misc : ms32319,msh2247,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 08:58:25 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67585.d
Acq On : 20 Jul 2014 11:15 am
Operator : amym
Sample : mb
Misc : ms32314,msh2247,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 08:58:27 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	710697	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	256705	50.00	ug/L	0.00

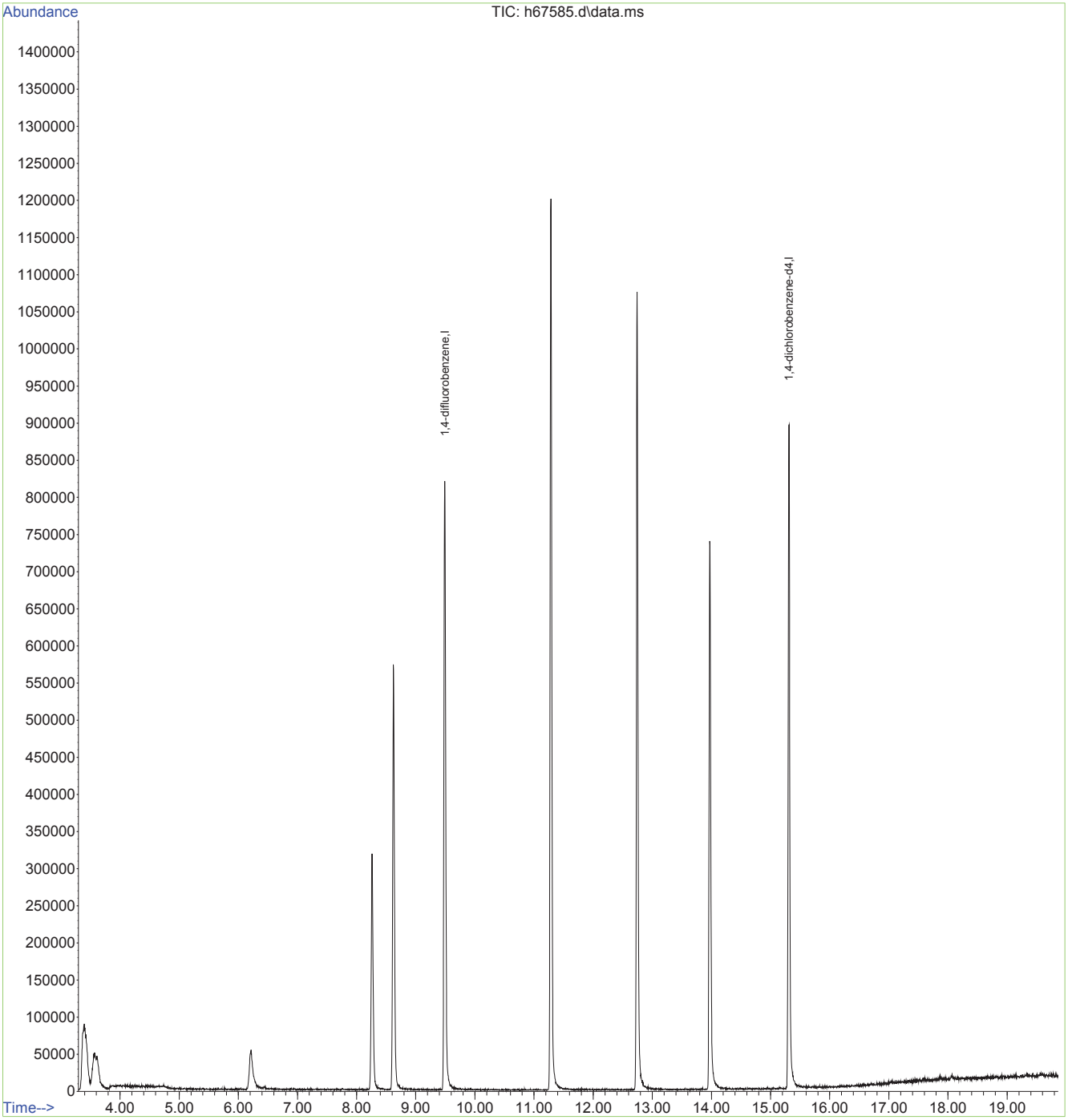
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67585.d
Acq On : 20 Jul 2014 11:15 am
Operator : amym
Sample : mb
Misc : ms32314,msh2247,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 08:58:27 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67590.d
Acq On : 20 Jul 2014 1:36 pm
Operator : amym
Sample : mc32208-1ms
Misc : ms32321,msh2247,,,,5,5
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 08:58:38 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

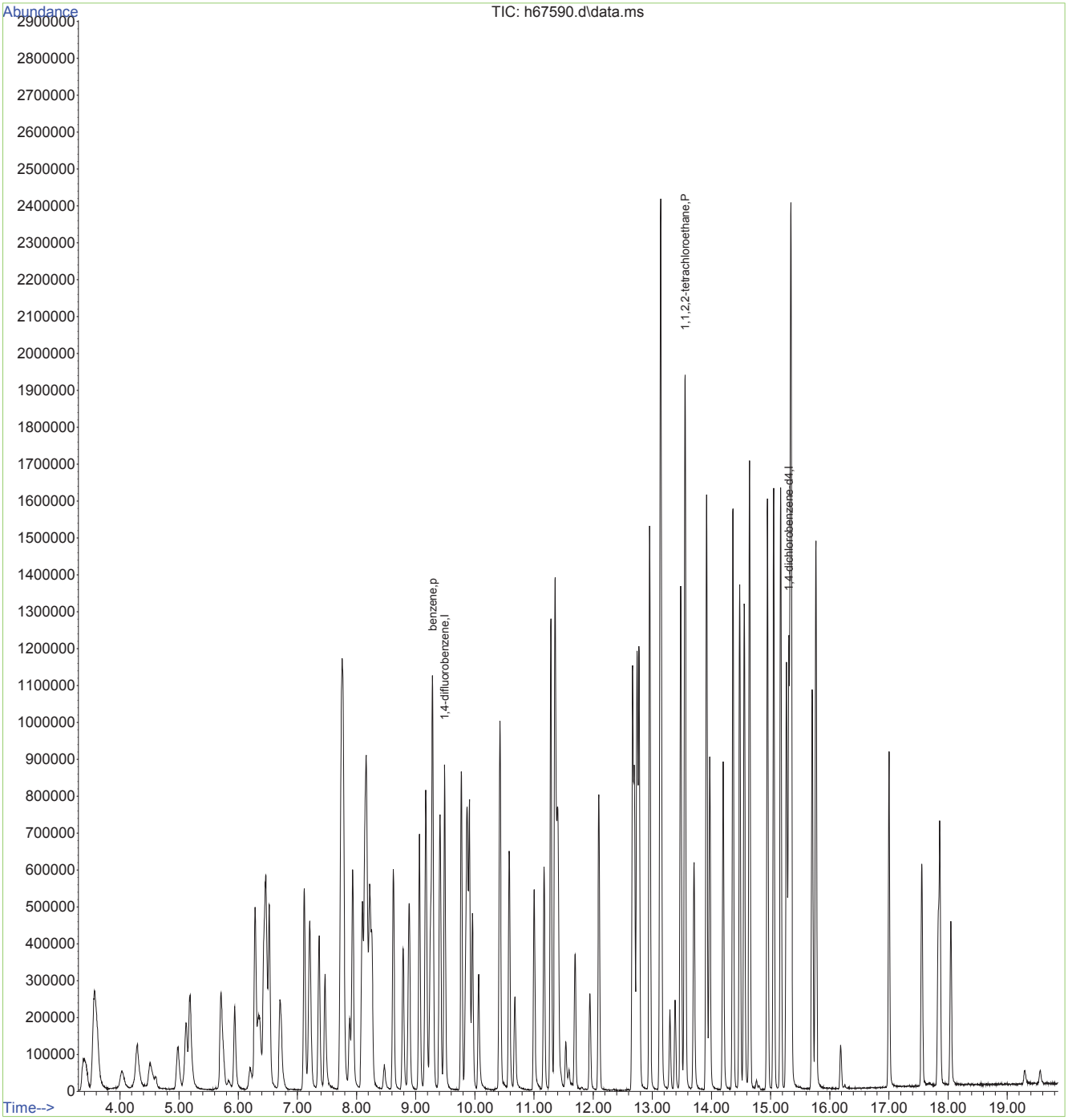
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	724838	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	297010	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.284	78	966162	53.69	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.554	83	247958	53.60	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67590.d
Acq On : 20 Jul 2014 1:36 pm
Operator : amym
Sample : mc32208-1ms
Misc : ms32321,msh2247,,,,5,5
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 08:58:38 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67591.d
Acq On : 20 Jul 2014 2:04 pm
Operator : amym
Sample : mc32208-1msd
Misc : ms32321,msh2247,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 08:58:40 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

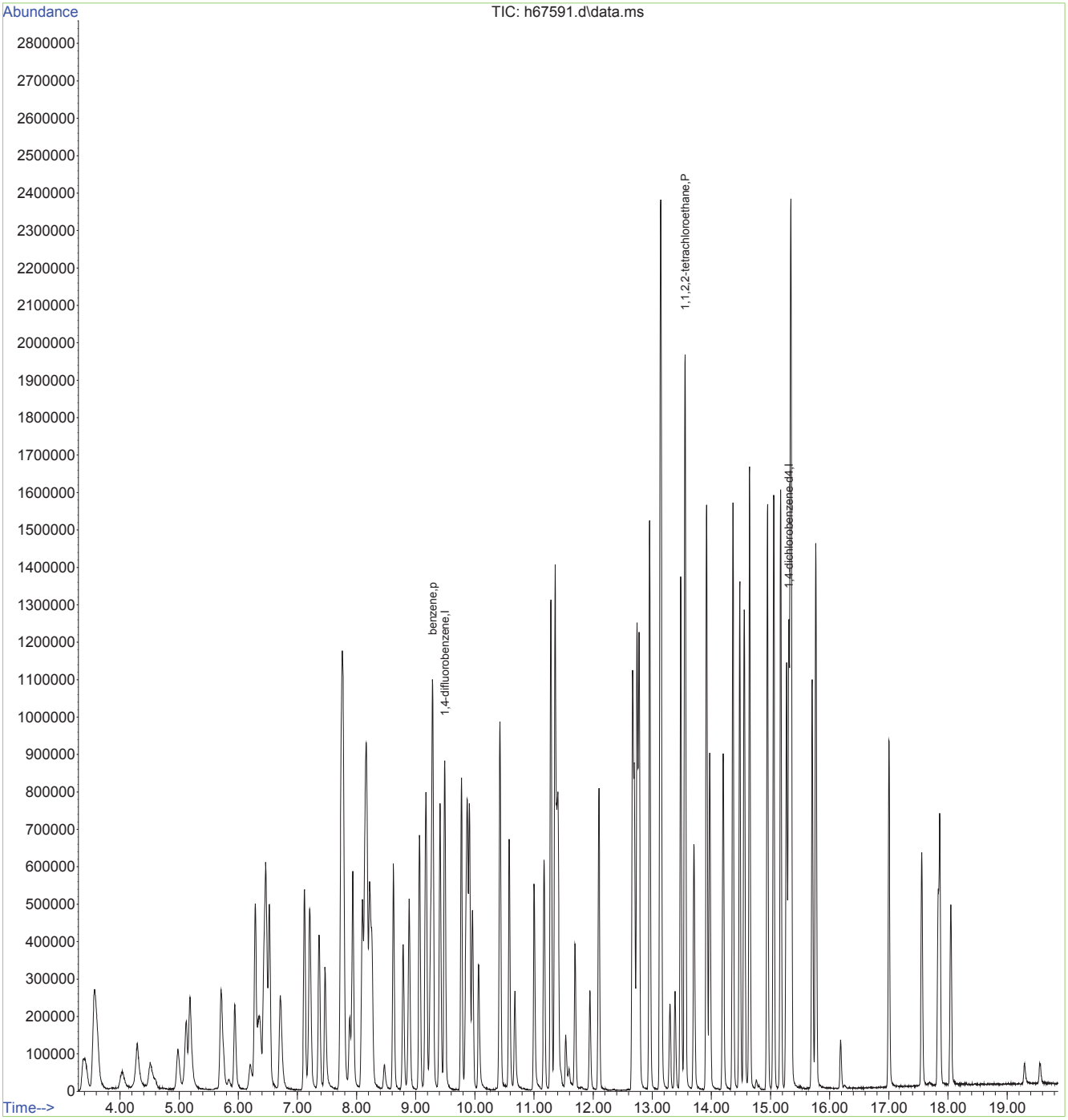
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	736710	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.306	152	304038	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.282	78	976080	53.37	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.556	83	257448	54.40	ug/L	98

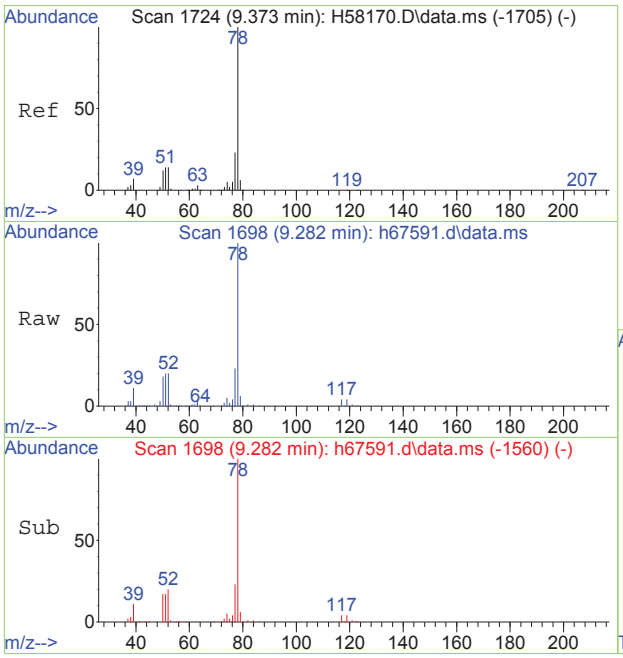
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140720\
Data File : h67591.d
Acq On : 20 Jul 2014 2:04 pm
Operator : amym
Sample : mc32208-1msd
Misc : ms32321,msh2247,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 08:58:40 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

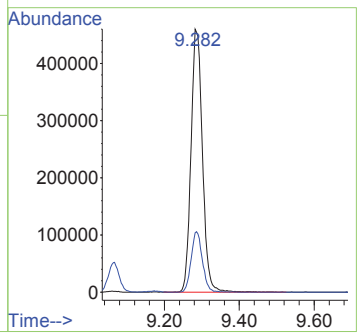


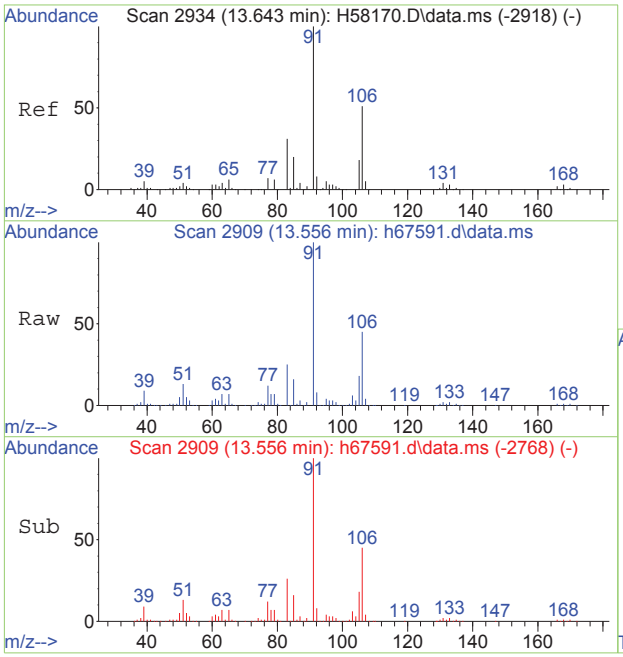


#2
benzene
Concen: 53.37 ug/L
RT: 9.282 min Scan# 1698
Delta R.T. -0.003 min
Lab File: h67591.d
Acq: 20 Jul 2014 2:04 pm

Tgt Ion: 78 Resp: 976080

Ion	Ratio	Lower	Upper
78	100		
77	22.6	0.0	53.7

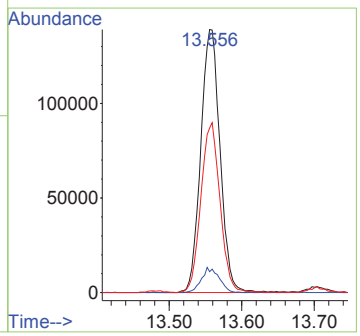




#4
1,1,2,2-tetrachloroethane
Concen: 54.40 ug/L
RT: 13.556 min Scan# 2909
Delta R.T. -0.003 min
Lab File: h67591.d
Acq: 20 Jul 2014 2:04 pm

Tgt Ion: 83 Resp: 257448

Ion	Ratio	Lower	Upper
83	100		
131	7.9	0.0	40.6
85	62.5	33.4	93.4



SGS ACCUTEST
MC31956

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31956

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31956-1 Collected: 08-JUL-14 09:50 By: CWBK Received: 09-JUL-14 By: P74-ROX-070814						
MC31956-1	SW846 8270D BY SIM	14-JUL-14 11:56	MR	10-JUL-14	FC	B8270SIMSL
MC31956-1	SW846 8011	15-JUL-14 20:36	NK	14-JUL-14	AW	V8011SL
MC31956-1	SW846 8270D	16-JUL-14 12:56	WK	10-JUL-14	FC	AB8270SL+
MC31956-1	SW846 8260C	18-JUL-14 16:56	AMY			V8260SL+
MC31956-2 Collected: 08-JUL-14 11:10 By: CWBK Received: 09-JUL-14 By: P56-ROX-070814						
MC31956-2	SW846 8270D BY SIM	14-JUL-14 12:42	MR	10-JUL-14	FC	B8270SIMSL
MC31956-2	SW846 8011	15-JUL-14 20:56	NK	14-JUL-14	AW	V8011SL
MC31956-2	SW846 8270D	16-JUL-14 13:16	WK	10-JUL-14	FC	AB8270SL+
MC31956-2	SW846 8260C	18-JUL-14 17:23	AMY			V8260SL+
MC31956-2	SW846 8260C	18-JUL-14 20:51	AMY			V8260SL+
MC31956-3 Collected: 08-JUL-14 14:00 By: CWBK Received: 09-JUL-14 By: T12-ROX-070814						
MC31956-3	SW846 8270D BY SIM	14-JUL-14 13:07	MR	10-JUL-14	FC	B8270SIMSL
MC31956-3	SW846 8011	15-JUL-14 21:15	NK	14-JUL-14	AW	V8011SL
MC31956-3	SW846 8270D	16-JUL-14 13:37	WK	10-JUL-14	FC	AB8270SL+
MC31956-3	SW846 8260C	18-JUL-14 17:48	AMY			V8260SL+
MC31956-3	SW846 8260C	20-JUL-14 18:18	AMY			V8260SL+
MC31956-4 Collected: 08-JUL-14 14:20 By: CWBK Received: 09-JUL-14 By: P59-ROX-070814-EB						
MC31956-4	SW846 8011	15-JUL-14 21:34	NK	14-JUL-14	AW	V8011SL
MC31956-4	SW846 8270D	16-JUL-14 13:57	WK	10-JUL-14	FC	AB8270SL+
MC31956-4	SW846 8270D BY SIM	18-JUL-14 08:27	MR	10-JUL-14	FC	B8270SIMSL
MC31956-4	SW846 8260C	18-JUL-14 13:54	AMY			V8260SL+
MC31956-5 Collected: 08-JUL-14 15:06 By: CWBK Received: 09-JUL-14 By: P59-ROX-070814						
MC31956-5	SW846 8011	15-JUL-14 21:54	NK	14-JUL-14	AW	V8011SL
MC31956-5	SW846 8270D	16-JUL-14 14:18	WK	10-JUL-14	FC	AB8270SL+
MC31956-5	SW846 8270D BY SIM	18-JUL-14 08:50	MR	10-JUL-14	FC	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31956

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31956-5	SW846 8260C	18-JUL-14 18:15	AMY			V8260SL+
MC31956-5	SW846 8260C	20-JUL-14 18:46	AMY			V8260SL+
MC31956-5	SW846 8270D	23-JUL-14 12:01	WK	10-JUL-14	FC	AB8270SL+
MC31956-6 Collected: 08-JUL-14 16:15 By: CWBK Received: 09-JUL-14 By: P57-ROX-070814						
MC31956-6	SW846 8011	15-JUL-14 22:13	NK	14-JUL-14	AW	V8011SL
MC31956-6	SW846 8270D	16-JUL-14 14:38	WK	10-JUL-14	FC	AB8270SL+
MC31956-6	SW846 8270D BY SIM	18-JUL-14 09:14	MR	10-JUL-14	FC	B8270SIMSL
MC31956-6	SW846 8260C	18-JUL-14 18:41	AMY			V8260SL+
MC31956-6	SW846 8260C	20-JUL-14 19:14	AMY			V8260SL+
MC31956-6	SW846 8260C	20-JUL-14 20:11	AMY			V8260SL+
MC31956-7 Collected: 08-JUL-14 16:15 By: CWBK Received: 09-JUL-14 By: P57-ROX-070814-DUP						
MC31956-7	SW846 8011	15-JUL-14 22:32	NK	14-JUL-14	AW	V8011SL
MC31956-7	SW846 8270D	16-JUL-14 14:59	WK	10-JUL-14	FC	AB8270SL+
MC31956-7	SW846 8270D BY SIM	18-JUL-14 09:39	MR	10-JUL-14	FC	B8270SIMSL
MC31956-7	SW846 8260C	18-JUL-14 19:07	AMY			V8260SL+
MC31956-7	SW846 8260C	20-JUL-14 19:42	AMY			V8260SL+
MC31956-7	SW846 8260C	20-JUL-14 20:39	AMY			V8260SL+
MC31956-8 Collected: 08-JUL-14 00:00 By: CWBK Received: 09-JUL-14 By: TB-070814-HCL						
MC31956-8	SW846 8260C	18-JUL-14 12:35	AMY			V8260SL+
MC31956-9 Collected: 08-JUL-14 00:00 By: CWBK Received: 09-JUL-14 By: TB-070814-ST						
MC31956-9	SW846 8011	15-JUL-14 22:52	NK	14-JUL-14	AW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/09/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31956-1.2	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-1.2	Scott Parsick		09/25/14 16:09	Disposed
MC31956-1.3	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-1.3	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-1.3	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-1.3	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-1.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-1.5	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-1.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-2.1	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-2.1	Scott Parsick		09/25/14 16:09	Disposed
MC31956-2.3	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-2.3	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-2.3	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-2.3	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-2.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-2.6	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-2.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-3.2	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-3.2	Scott Parsick		09/25/14 16:09	Disposed
MC31956-3.3	VOC Ref #3	Amy Min Yang	07/20/14 11:15	Retrieve from Storage
MC31956-3.3	Amy Min Yang	GCMSH	07/20/14 11:15	Load on Instrument
MC31956-3.3	GCMSH	Amy Min Yang	07/22/14 09:51	Unload from Instrument
MC31956-3.3	Amy Min Yang	VOC Ref #3	07/22/14 09:51	Return to Storage
MC31956-3.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-3.4	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-3.4	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-3.4	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-3.4	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-3.4	Scott Parsick		09/25/14 16:09	Disposed
MC31956-3.6	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-3.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-4.2	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-4.2	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/09/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31956-4.3	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-4.3	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-4.3	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-4.3	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-4.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-4.5	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-4.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-5.2	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-5.2	Scott Parsick		09/25/14 16:09	Disposed
MC31956-5.3	VOC Ref #3	Amy Min Yang	07/20/14 11:15	Retrieve from Storage
MC31956-5.3	Amy Min Yang	GCMSH	07/20/14 11:15	Load on Instrument
MC31956-5.3	GCMSH	Amy Min Yang	07/22/14 09:51	Unload from Instrument
MC31956-5.3	Amy Min Yang	VOC Ref #3	07/22/14 09:51	Return to Storage
MC31956-5.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-5.4	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-5.4	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-5.4	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-5.4	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-5.4	Scott Parsick		09/25/14 16:09	Disposed
MC31956-5.5	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-5.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-6.1	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-6.1	Scott Parsick		09/25/14 16:09	Disposed
MC31956-6.3	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-6.3	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-6.3	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-6.3	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-6.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-6.4	VOC Ref #3	Amy Min Yang	07/20/14 11:15	Retrieve from Storage
MC31956-6.4	Amy Min Yang	GCMSH	07/20/14 11:15	Load on Instrument
MC31956-6.4	GCMSH	Amy Min Yang	07/22/14 09:51	Unload from Instrument
MC31956-6.4	Amy Min Yang	VOC Ref #3	07/22/14 09:51	Return to Storage
MC31956-6.4	Scott Parsick		09/25/14 16:09	Disposed
MC31956-6.6	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/09/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31956-6.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-7.2	Walk In Ref #22	Michael DiBuono	07/10/14 16:14	Retrieve from Storage
MC31956-7.2	Scott Parsick		09/25/14 16:09	Disposed
MC31956-7.3	VOC Ref #3	Amy Min Yang	07/20/14 11:15	Retrieve from Storage
MC31956-7.3	Amy Min Yang	GCMSH	07/20/14 11:15	Load on Instrument
MC31956-7.3	GCMSH	Amy Min Yang	07/22/14 09:51	Unload from Instrument
MC31956-7.3	Amy Min Yang	VOC Ref #3	07/22/14 09:51	Return to Storage
MC31956-7.3	Scott Parsick		09/25/14 16:09	Disposed
MC31956-7.4	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-7.4	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-7.4	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-7.4	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-7.4	Scott Parsick		09/25/14 16:09	Disposed
MC31956-7.5	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-7.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31956-8.1	VOC Ref #3	Amy Min Yang	07/18/14 10:26	Retrieve from Storage
MC31956-8.1	Amy Min Yang	GCMSV	07/18/14 10:26	Load on Instrument
MC31956-8.1	GCMSV	Amy Min Yang	07/21/14 11:41	Unload from Instrument
MC31956-8.1	Amy Min Yang	VOC Ref #3	07/21/14 11:41	Return to Storage
MC31956-8.1	Scott Parsick		09/25/14 16:09	Disposed
MC31956-9.2	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31956-9.2	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-MB	V32973.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	112%	70-130%
2037-26-5	Toluene-D8	91%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2247-MB	H67585.D	1	07/20/14	AMY	n/a	n/a	MSH2247

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

MC31956-3, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	28.1	56* [a]	70-130
107-02-8	Acrolein	250	259	104	70-130
107-13-1	Acrylonitrile	50	51.3	103	70-130
71-43-2	Benzene	50	51.5	103	70-130
108-86-1	Bromobenzene	50	50.9	102	70-130
74-97-5	Bromochloromethane	50	50.1	100	70-130
75-27-4	Bromodichloromethane	50	56.5	113	70-130
75-25-2	Bromoform	50	55.1	110	70-130
74-83-9	Bromomethane	50	74.7	149* [a]	70-130
78-93-3	2-Butanone (MEK)	50	38.4	77	70-130
104-51-8	n-Butylbenzene	50	53.6	107	70-130
135-98-8	sec-Butylbenzene	50	55.5	111	70-130
98-06-6	tert-Butylbenzene	50	54.5	109	70-130
75-15-0	Carbon disulfide	50	43.8	88	70-130
56-23-5	Carbon tetrachloride	50	60.6	121	70-130
108-90-7	Chlorobenzene	50	50.8	102	70-130
75-00-3	Chloroethane	50	77.1	154* [a]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	42.4	85	70-130
67-66-3	Chloroform	50	53.8	108	70-130
74-87-3	Chloromethane	50	73.1	146* [a]	70-130
95-49-8	o-Chlorotoluene	50	53.3	107	70-130
106-43-4	p-Chlorotoluene	50	54.2	108	70-130
124-48-1	Dibromochloromethane	50	52.1	104	70-130
95-50-1	1,2-Dichlorobenzene	50	51.7	103	70-130
541-73-1	1,3-Dichlorobenzene	50	51.8	104	70-130
106-46-7	1,4-Dichlorobenzene	50	51.3	103	70-130
75-71-8	Dichlorodifluoromethane	50	49.7	99	70-130
75-34-3	1,1-Dichloroethane	50	57.8	116	70-130
107-06-2	1,2-Dichloroethane	50	56.4	113	70-130
75-35-4	1,1-Dichloroethene	50	53.7	107	70-130
156-59-2	cis-1,2-Dichloroethene	50	51.9	104	70-130
156-60-5	trans-1,2-Dichloroethene	50	57.1	114	70-130
78-87-5	1,2-Dichloropropane	50	48.4	97	70-130
142-28-9	1,3-Dichloropropane	50	49.4	99	70-130
594-20-7	2,2-Dichloropropane	50	60.6	121	70-130
563-58-6	1,1-Dichloropropene	50	54.8	110	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	70-130
10061-02-6	trans-1,3-Dichloropropene	50	58.2	116	70-130
123-91-1	1,4-Dioxane	250	246	98	70-130
97-63-2	Ethyl methacrylate	50	38.7	77	77-137
100-41-4	Ethylbenzene	50	53.8	108	70-130
87-68-3	Hexachlorobutadiene	50	46.7	93	70-130
591-78-6	2-Hexanone	50	35.5	71	70-130
98-82-8	Isopropylbenzene	50	57.1	114	70-130
99-87-6	p-Isopropyltoluene	50	55.2	110	70-130
1634-04-4	Methyl Tert Butyl Ether	50	54.6	109	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	43.6	87	70-130
74-95-3	Methylene bromide	50	49.7	99	70-130
75-09-2	Methylene chloride	50	54.7	109	70-130
91-20-3	Naphthalene	50	39.5	79	70-130
103-65-1	n-Propylbenzene	50	53.2	106	70-130
100-42-5	Styrene	50	50.5	101	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	56.9	114	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.5	101	70-130
127-18-4	Tetrachloroethene	50	50.9	102	70-130
108-88-3	Toluene	50	47.2	94	70-130
87-61-6	1,2,3-Trichlorobenzene	50	42.9	86	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.9	90	70-130
71-55-6	1,1,1-Trichloroethane	50	54.9	110	70-130
79-00-5	1,1,2-Trichloroethane	50	43.9	88	70-130
79-01-6	Trichloroethene	50	48.7	97	70-130
75-69-4	Trichlorofluoromethane	50	71.0	142* [a]	70-130
96-18-4	1,2,3-Trichloropropane	50	53.2	106	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	70-130
108-05-4	Vinyl Acetate	50	52.5	105	70-130
75-01-4	Vinyl chloride	50	70.9	142* [b]	70-130
	m,p-Xylene	100	106	106	70-130
95-47-6	o-Xylene	50	53.7	107	70-130
1330-20-7	Xylene (total)	150	160	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1220-BS	V32969.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	90%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2247-BS	H67582.D	1	07/20/14	AMY	n/a	n/a	MSH2247
MSH2247-BSD	H67583.D	1	07/20/14	AMY	n/a	n/a	MSH2247

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

MC31956-3, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	52.1	104	51.6	103	1	70-130/25
100-41-4	Ethylbenzene	50	49.8	100	49.0	98	2	70-130/25
108-88-3	Toluene	50	53.1	106	51.9	104	2	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	52.5	105	51.4	103	2	70-130/25
	m,p-Xylene	100	98.5	99	96.7	97	2	70-130/25
95-47-6	o-Xylene	50	47.5	95	47.6	95	0	70-130/25
1330-20-7	Xylene (total)	150	146	97	144	96	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	107%	70-130%
2037-26-5	Toluene-D8	109%	108%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	66.5	133* [a]	50	66.1	132* [a]	1	70-130/30
107-02-8	Acrolein	ND		250	245	98	250	246	98	0	70-130/30
107-13-1	Acrylonitrile	ND		50	46.6	93	50	47.5	95	2	70-130/30
71-43-2	Benzene	42.9		50	205	324* [a]	50	126	166* [a]	48* [b]	70-130/30
108-86-1	Bromobenzene	ND		50	53.5	107	50	51.3	103	4	70-130/30
74-97-5	Bromochloromethane	ND		50	51.8	104	50	50.9	102	2	70-130/30
75-27-4	Bromodichloromethane	ND		50	57.7	115	50	57.9	116	0	70-130/30
75-25-2	Bromoform	ND		50	53.0	106	50	54.6	109	3	70-130/30
74-83-9	Bromomethane	ND		50	65.0	130	50	62.2	124	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	45.4	91	50	46.4	93	2	70-130/30
104-51-8	n-Butylbenzene	11.2		50	76.7	131* [a]	50	74.0	126	4	70-130/30
135-98-8	sec-Butylbenzene	14.7		50	79.1	129	50	75.5	122	5	70-130/30
98-06-6	tert-Butylbenzene	2.3	J	50	61.5	118	50	58.2	112	6	70-130/30
75-15-0	Carbon disulfide	ND		50	51.8	104	50	50.4	101	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	50.3	101	50	50.4	101	0	70-130/30
108-90-7	Chlorobenzene	ND		50	54.2	108	50	52.9	106	2	70-130/30
75-00-3	Chloroethane	ND		50	65.8	132* [a]	50	63.1	126	4	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	4.2	8* [a]	50	ND	0* [a]	200* [b]	70-130/30
67-66-3	Chloroform	ND		50	52.6	105	50	51.3	103	3	70-130/30
74-87-3	Chloromethane	ND		50	64.1	128	50	61.0	122	5	70-130/30
95-49-8	o-Chlorotoluene	ND		50	58.9	118	50	56.2	112	5	70-130/30
106-43-4	p-Chlorotoluene	ND		50	58.2	116	50	55.8	112	4	70-130/30
124-48-1	Dibromochloromethane	ND		50	49.4	99	50	49.9	100	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	61.2	122	50	60.3	121	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	56.3	113	50	55.1	110	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	56.2	112	50	54.7	109	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	41.4	83	50	39.6	79	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	62.7	125	50	61.0	122	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	46.7	93	50	46.2	92	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	63.7	127	50	61.4	123	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	60.0	120	50	57.8	116	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	65.1	130	50	63.1	126	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	66.0	132* [a]	50	65.4	131* [a]	1	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	55.1	110	50	54.1	108	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	65.0	130	50	63.1	126	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	54.3	109	50	53.7	107	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	60.4	121	50	60.7	121	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	64.2	128	50	64.9	130	1	70-130/30
123-91-1	1,4-Dioxane	ND		250	327	131* a	250	334	134* a	2	70-130/30
97-63-2	Ethyl methacrylate	ND		50	62.5	125	50	63.2	126	1	72-139/30
100-41-4	Ethylbenzene	1.6		50	62.7	122	50	59.9	117	5	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	65.2	130	50	63.1	126	3	70-130/30
591-78-6	2-Hexanone	ND		50	48.8	98	50	49.7	99	2	70-130/30
98-82-8	Isopropylbenzene	144		50	173	58* c	50	164	40* c	5	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	64.4	129	50	61.8	124	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	96.4	193* a	50	97.1	194* a	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	55.7	111	50	57.2	114	3	70-130/30
74-95-3	Methylene bromide	ND		50	53.5	107	50	53.7	107	0	70-130/30
75-09-2	Methylene chloride	ND		50	63.0	126	50	61.1	122	3	70-130/30
91-20-3	Naphthalene	ND		50	77.9	156* a	50	72.0	144* a	8	70-130/30
103-65-1	n-Propylbenzene	102		50	139	74	50	133	62* c	4	70-130/30
100-42-5	Styrene	ND		50	56.3	113	50	55.3	111	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.0	112	50	55.6	111	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	57.3	115	50	56.5	113	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	56.7	113	50	54.3	109	4	70-130/30
108-88-3	Toluene	2.2		50	59.9	115	50	58.7	113	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	60.6	121	50	63.6	127	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	65.2	130	50	65.8	132* a	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	54.7	109	50	54.2	108	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	53.4	107	50	54.2	108	1	70-130/30
79-01-6	Trichloroethene	ND		50	51.3	103	50	49.8	100	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	56.4	113	50	54.2	108	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	56.0	112	50	55.7	111	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	62.1	124	50	58.5	117	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	62.0	124	50	58.5	117	6	70-130/30
108-05-4	Vinyl Acetate	ND		50	79.8	160* a	50	78.2	156* a	2	70-130/30
75-01-4	Vinyl chloride	ND		50	64.7	129	50	61.8	124	5	70-130/30
	m,p-Xylene	1.0		100	123	122	100	118	117	4	70-130/30
95-47-6	o-Xylene	0.99	J	50	63.6	125	50	61.4	121	4	70-130/30
1330-20-7	Xylene (total)	2.0		150	187	123	150	180	119	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31918-3MS	V32992.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3MSD	V32993.D	1	07/18/14	AMY	n/a	n/a	MSV1220
MC31918-3	V32980.D	1	07/18/14	AMY	n/a	n/a	MSV1220

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

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-8

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
1868-53-7	Dibromofluoromethane	86%	87%	92%	70-130%
2037-26-5	Toluene-D8	98%	99%	102%	70-130%
460-00-4	4-Bromofluorobenzene	90%	89%	101%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32208-1MS	H67590.D	5	07/20/14	AMY	n/a	n/a	MSH2247
MC32208-1MSD	H67591.D	5	07/20/14	AMY	n/a	n/a	MSH2247
MC32208-1	H67588.D	1	07/20/14	AMY	n/a	n/a	MSH2247

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

MC31956-3, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	MC32208-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	268	107	250	267	107	0	70-130/30
100-41-4	Ethylbenzene	ND		250	255	102	250	246	98	4	70-130/30
108-88-3	Toluene	ND		250	270	108	250	264	106	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	265	106	250	256	102	3	70-130/30
	m,p-Xylene	ND		500	499	100	500	483	97	3	70-130/30
95-47-6	o-Xylene	ND		250	247	99	250	238	95	4	70-130/30
1330-20-7	Xylene (total)	ND		750	746	99	750	720	96	4	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32208-1	Limits
1868-53-7	Dibromofluoromethane	109%	109%	104%	70-130%
2037-26-5	Toluene-D8	108%	109%	107%	70-130%
460-00-4	4-Bromofluorobenzene	103%	103%	111%	70-130%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSH2247-CC2244	**Injection Date:**	07/20/14
Lab File ID:	H67581.D	**Injection Time:**	09:22
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	430437	8.62	737083	9.49	415358	12.74	306197	15.31	122837	6.20
Upper Limit [a]	860874	9.12	1474166	9.99	830716	13.24	612394	15.81	245674	6.70
Lower Limit [b]	215219	8.12	368542	8.99	207679	12.24	153099	14.81	61419	5.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2247-BS	420877	8.62	729064	9.49	412775	12.74	302760	15.31	126928	6.20
MSH2247-BSD	417937	8.63	718985	9.49	407882	12.74	296241	15.31	114294	6.20
MSH2247-MB	413656	8.62	710697	9.49	381311	12.74	256705	15.31	111453	6.22
ZZZZZZ	413193	8.62	705355	9.49	375530	12.74	254530	15.31	94093	6.21
ZZZZZZ	402474	8.63	698970	9.49	379091	12.74	252260	15.31	100118	6.22
MC32208-1	399857	8.63	699759	9.49	380990	12.74	249660	15.31	102718	6.22
ZZZZZZ	402964	8.63	709303	9.49	379561	12.74	251783	15.31	107538	6.20
MC32208-1MS	415851	8.62	724838	9.49	409666	12.74	297010	15.31	111296	6.21
MC32208-1MSD	422382	8.62	736710	9.49	422143	12.74	304038	15.31	126303	6.21
ZZZZZZ	410200	8.63	728192	9.49	388580	12.74	258157	15.31	116403	6.20
ZZZZZZ	404869	8.62	706473	9.49	385203	12.74	250717	15.31	112938	6.20
ZZZZZZ	411183	8.63	735541	9.49	391892	12.74	246607	15.31	117191	6.21
ZZZZZZ	409172	8.62	723210	9.49	376180	12.74	244973	15.31	109981	6.21
ZZZZZZ	393726	8.63	701144	9.49	377376	12.74	229940	15.31	115245	6.21
ZZZZZZ	387204	8.63	694570	9.49	375746	12.74	232009	15.31	108077	6.21
ZZZZZZ	385972	8.62	698919	9.49	370159	12.75	230711	15.31	111265	6.20
MC31956-3	386380	8.62	684379	9.49	366125	12.74	246588	15.31	113120	6.21
MC31956-5	389899	8.63	708306	9.49	372145	12.74	249191	15.31	120779	6.20
MC31956-6	386814	8.63	708087	9.49	364584	12.74	237328	15.31	118931	6.21
MC31956-7	370878	8.62	677496	9.49	355786	12.74	224201	15.31	110486	6.21
MC31956-6	363537	8.63	661807	9.49	349927	12.74	216192	15.31	107846	6.21
MC31956-7	359340	8.62	659736	9.49	347020	12.74	216204	15.31	103741	6.20
ZZZZZZ	349596	8.62	620775	9.49	335363	12.74	208775	15.31	94051	6.21

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1220-CC1177	**Injection Date:**	07/18/14
Lab File ID:	V32968.D	**Injection Time:**	09:06
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	517777	6.54	634373	7.73	220822	11.07	307127	13.28	91119	3.50
Upper Limit [a]	1035554	7.04	1268746	8.23	441644	11.57	614254	13.78	182238	4.00
Lower Limit [b]	258889	6.04	317187	7.23	110411	10.57	153564	12.78	45560	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1220-BS	480540	6.55	607660	7.73	209306	11.07	283291	13.28	80302	3.50
MSV1220-MB	341148	6.54	459492	7.73	177546	11.07	194914	13.28	66364	3.50
ZZZZZZ	313394	6.54	419580	7.73	166513	11.07	188656	13.28	66870	3.49
ZZZZZZ	328352	6.55	447829	7.73	175129	11.07	194073	13.28	65194	3.50
MC31956-8	307064	6.55	420438	7.73	166070	11.07	180053	13.28	60290	3.49
ZZZZZZ	498860	6.54	614602	7.73	180378	11.07	179224	13.28	173495	3.51
ZZZZZZ	328636	6.54	442659	7.73	172066	11.07	198871	13.28	83109	3.49
MC31956-4	297291	6.54	399750	7.73	157970	11.07	186378	13.28	67531	3.49
MC31918-3	452614	6.54	602828	7.73	226166	11.07	264564	13.28	115198	3.49
ZZZZZZ	489519	6.54	557457	7.73	203848	11.07	231181	13.28	107261	3.50
ZZZZZZ	434429	6.54	570271	7.73	205314	11.07	241064	13.28	93373	3.49
ZZZZZZ	517670	6.55	592051	7.73	210352	11.07	229122	13.28	94650	3.50
ZZZZZZ	408704	6.54	528454	7.73	194127	11.07	216187	13.28	91645	3.50
ZZZZZZ	385392	6.54	578415	7.73	190544	11.07	213838	13.28	89136	3.49
MC31956-1	561731	6.54	742229	7.73	252432	11.07	310148	13.28	136656	3.50
MC31956-2	1059510[c]	6.54	1349063[c]	7.73	417553	11.07	794902[c]	13.28	469621[c]	3.51
MC31956-3	730708	6.55	1266234	7.73	370126	11.07	600478	13.28	442776[d]	3.52
MC31956-5	954446	6.55	1753793[c]	7.73	513416[c]	11.07	760111[c]	13.28	389417[c]	3.52
MC31956-6	1211802[c]	6.67	1794648[c]	7.77	402127	11.07	644086[c]	13.28	448170[c]	3.55
MC31956-7	1106689[c]	6.65	1721039[c]	7.77	385607	11.07	601058	13.28	467721[c]	3.54
MC31918-3MS	620644	6.54	898986	7.73	314658	11.07	444228	13.28	139883	3.50
MC31918-3MSD	651086	6.54	923749	7.73	328793	11.07	477190	13.28	154193	3.50
ZZZZZZ	463882	6.54	596151	7.72	207598	11.07	234547	13.28	113031	3.49
MC31956-2	458633	6.54	580766	7.73	206498	11.07	240798	13.28	105162	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(d) Outside control limits. Target analytes not associated with this internal standard.

Volatile Surrogate Recovery Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31956-1	V32986.D	92	88	94
MC31956-2	V32995.D	84	90	101
MC31956-2	V32987.D	74	86	95
MC31956-3	H67600.D	109	107	108
MC31956-3	V32988.D	84	74	95
MC31956-4	V32979.D	110	93	95
MC31956-5	H67601.D	108	106	113
MC31956-5	V32989.D	80	74	102
MC31956-6	H67602.D	107	104	112
MC31956-6	H67604.D	109	106	114
MC31956-6	V32990.D	69* [a]	75	101
MC31956-7	H67603.D	107	105	114
MC31956-7	H67605.D	108	104	115
MC31956-7	V32991.D	68* [a]	74	102
MC31956-8	V32976.D	116	94	100
MC31918-3MS	V32992.D	86	98	90
MC31918-3MSD	V32993.D	87	99	89
MC32208-1MS	H67590.D	109	108	103
MC32208-1MSD	H67591.D	109	109	103
MSH2247-BS	H67582.D	106	109	101
MSH2247-BSD	H67583.D	107	108	102
MSH2247-MB	H67585.D	103	107	111
MSV1220-BS	V32969.D	98	90	94
MSV1220-MB	V32973.D	112	91	99

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MB	X03487.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.17	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MB	X03487.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	82%	30-130%
321-60-8	2-Fluorobiphenyl	78%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-MB	I90649.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	91%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	75%	30-130%

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-BS	X03488.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	19.5	39	30-130
95-57-8	2-Chlorophenol	50	40.0	80	30-130
59-50-7	4-Chloro-3-methyl phenol	50	42.3	85	30-130
120-83-2	2,4-Dichlorophenol	50	42.8	86	30-130
105-67-9	2,4-Dimethylphenol	50	22.5	45	30-130
51-28-5	2,4-Dinitrophenol	50	25.5	51	30-130
534-52-1	4,6-Dinitro-o-cresol	50	33.7	67	30-130
95-48-7	2-Methylphenol	50	34.4	69	30-130
	3&4-Methylphenol	100	62.1	62	30-130
88-75-5	2-Nitrophenol	50	43.2	86	30-130
100-02-7	4-Nitrophenol	50	17.5	35	30-130
87-86-5	Pentachlorophenol	50	37.4	75	30-130
108-95-2	Phenol	50	17.4	35	30-130
95-95-4	2,4,5-Trichlorophenol	50	45.6	91	30-130
88-06-2	2,4,6-Trichlorophenol	50	45.2	90	30-130
62-53-3	Aniline	50	29.6	59	40-140
101-55-3	4-Bromophenyl phenyl ether	50	48.9	98	40-140
85-68-7	Butyl benzyl phthalate	50	48.9	98	40-140
100-51-6	Benzyl Alcohol	50	28.6	57	40-140
91-58-7	2-Chloronaphthalene	50	42.3	85	40-140
106-47-8	4-Chloroaniline	50	40.2	80	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	43.0	86	40-140
111-44-4	bis(2-Chloroethyl)ether	50	43.4	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	46.8	94	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	43.5	87	40-140
122-66-7	1,2-Diphenylhydrazine	50	43.3	87	40-140
121-14-2	2,4-Dinitrotoluene	50	47.8	96	40-140
606-20-2	2,6-Dinitrotoluene	50	46.3	93	40-140
91-94-1	3,3'-Dichlorobenzidine	50	42.9	86	40-140
132-64-9	Dibenzofuran	50	39.4	79	40-140
84-74-2	Di-n-butyl phthalate	50	45.0	90	40-140
117-84-0	Di-n-octyl phthalate	50	59.0	118	40-140
84-66-2	Diethyl phthalate	50	46.9	94	40-140
131-11-3	Dimethyl phthalate	50	46.9	94	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	53.5	107	40-140
118-74-1	Hexachlorobenzene	50	46.7	93	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-BS	X03488.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	19.0	38* [a]	40-140
67-72-1	Hexachloroethane	50	30.6	61	40-140
78-59-1	Isophorone	50	40.5	81	40-140
88-74-4	2-Nitroaniline	50	47.7	95	40-140
99-09-2	3-Nitroaniline	50	43.8	88	40-140
100-01-6	4-Nitroaniline	50	42.7	85	40-140
98-95-3	Nitrobenzene	50	43.5	87	40-140
62-75-9	n-Nitrosodimethylamine	50	24.2	48	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	43.8	88	40-140
86-30-6	N-Nitrosodiphenylamine	50	42.1	84	40-140
110-86-1	Pyridine	50	21.6	43	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	15-110%
4165-60-0	Nitrobenzene-d5	87%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	91%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-BS	I90641.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	33.6	67	40-140
208-96-8	Acenaphthylene	50	28.2	56	40-140
120-12-7	Anthracene	50	34.1	68	40-140
56-55-3	Benzo(a)anthracene	50	42.9	86	40-140
50-32-8	Benzo(a)pyrene	50	36.2	72	40-140
205-99-2	Benzo(b)fluoranthene	50	39.4	79	40-140
191-24-2	Benzo(g,h,i)perylene	50	38.3	77	40-140
207-08-9	Benzo(k)fluoranthene	50	36.8	74	40-140
218-01-9	Chrysene	50	40.0	80	40-140
53-70-3	Dibenzo(a,h)anthracene	50	38.8	78	40-140
206-44-0	Fluoranthene	50	33.9	68	40-140
86-73-7	Fluorene	50	43.8	88	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	31.3	63	40-140
90-12-0	1-Methylnaphthalene	50	33.4	67	40-140
91-57-6	2-Methylnaphthalene	50	34.8	70	40-140
85-01-8	Phenanthrene	50	35.8	72	40-140
129-00-0	Pyrene	50	35.4	71	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	96%	30-130%
321-60-8	2-Fluorobiphenyl	71%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MS	X03489.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
OP38904-MSD	X03490.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
MC31918-3	X03491.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: Method: SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		54.9	30.1	55	54.9	29.5	54	2	30-130/20
95-57-8	2-Chlorophenol	ND		54.9	39.6	72	54.9	34.8	63	13	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		54.9	42.8	78	54.9	40.4	74	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		54.9	43.7	80	54.9	38.5	70	13	30-130/20
105-67-9	2,4-Dimethylphenol	ND		54.9	43.5	79	54.9	39.2	71	10	30-130/20
51-28-5	2,4-Dinitrophenol	ND		54.9	29.4	54	54.9	29.2	53	1	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		54.9	36.7	67	54.9	35.9	65	2	30-130/20
95-48-7	2-Methylphenol	ND		54.9	38.0	69	54.9	33.5	61	13	30-130/20
	3&4-Methylphenol	ND		110	62.8	57	110	56.3	51	11	30-130/20
88-75-5	2-Nitrophenol	ND		54.9	44.5	81	54.9	37.9	69	16	30-130/20
100-02-7	4-Nitrophenol	ND		54.9	24.9	45	54.9	23.7	43	5	30-130/20
87-86-5	Pentachlorophenol	ND		54.9	43.0	78	54.9	39.6	72	8	30-130/20
108-95-2	Phenol	ND		54.9	19.5	35	54.9	18.0	33	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		54.9	47.1	86	54.9	41.2	75	13	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		54.9	44.3	81	54.9	39.2	71	12	30-130/20
62-53-3	Aniline	ND		54.9	25.4	46	54.9	27.3	50	7	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		54.9	48.1	88	54.9	42.7	78	12	40-140/20
85-68-7	Butyl benzyl phthalate	ND		54.9	48.7	89	54.9	45.0	82	8	40-140/20
100-51-6	Benzyl Alcohol	ND		54.9	27.1	49	54.9	26.3	48	3	40-140/20
91-58-7	2-Chloronaphthalene	ND		54.9	43.8	80	54.9	37.5	68	15	40-140/20
106-47-8	4-Chloroaniline	ND		54.9	36.5	66	54.9	39.5	72	8	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		54.9	42.2	77	54.9	35.3	64	18	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		54.9	43.0	78	54.9	36.4	66	17	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		54.9	46.2	84	54.9	39.6	72	15	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		54.9	43.7	80	54.9	38.3	70	13	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		54.9	45.7	83	54.9	40.6	74	12	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		54.9	45.7	83	54.9	41.7	76	9	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		54.9	46.6	85	54.9	41.3	75	12	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		54.9	7.7	14* [a]	54.9	7.1	13* [a]	8	40-140/20
132-64-9	Dibenzofuran	ND		54.9	39.6	72	54.9	34.6	63	13	40-140/20
84-74-2	Di-n-butyl phthalate	0.30	J	54.9	44.1	80	54.9	40.4	73	9	40-140/20
117-84-0	Di-n-octyl phthalate	ND		54.9	60.6	110	54.9	55.7	101	8	40-140/20
84-66-2	Diethyl phthalate	ND		54.9	45.8	83	54.9	41.9	76	9	40-140/20
131-11-3	Dimethyl phthalate	ND		54.9	44.9	82	54.9	40.7	74	10	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		54.9	53.4	97	54.9	49.5	90	8	40-140/20
118-74-1	Hexachlorobenzene	ND		54.9	45.4	83	54.9	41.7	76	8	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38904-MS	X03489.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
OP38904-MSD	X03490.D	1	07/16/14	WK	07/10/14	OP38904	MSX121
MC31918-3	X03491.D	1	07/16/14	WK	07/10/14	OP38904	MSX121

The QC reported here applies to the following samples: Method: SW846 8270D

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		54.9	21.1	38* b	54.9	17.9	33* b	16	40-140/20
67-72-1	Hexachloroethane	ND		54.9	35.9	65	54.9	30.5	56	16	40-140/20
78-59-1	Isophorone	ND		54.9	40.3	73	54.9	34.9	64	14	40-140/20
88-74-4	2-Nitroaniline	ND		54.9	46.2	84	54.9	41.8	76	10	40-140/20
99-09-2	3-Nitroaniline	ND		54.9	38.9	71	54.9	40.2	73	3	40-140/20
100-01-6	4-Nitroaniline	ND		54.9	35.7	65	54.9	34.0	62	5	40-140/20
98-95-3	Nitrobenzene	ND		54.9	47.6	87	54.9	40.3	73	17	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		54.9	24.9	45	54.9	23.6	43	5	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		54.9	42.9	78	54.9	36.6	67	16	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		54.9	42.7	78	54.9	38.7	70	10	40-140/20
110-86-1	Pyridine	ND		54.9	23.6	43	54.9	23.6	43	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
367-12-4	2-Fluorophenol	40%	36%	36%	15-110%
4165-62-2	Phenol-d5	28%	26%	25%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	73%	90%	15-110%
4165-60-0	Nitrobenzene-d5	80%	66%	71%	30-130%
321-60-8	2-Fluorobiphenyl	73%	62%	68%	30-130%
1718-51-0	Terphenyl-d14	81%	75%	89%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38905-MS	I90642.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
OP38905-MSD	I90643.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375
MC31918-3	I90644.D	1	07/14/14	MR	07/10/14	OP38905	MSI3375

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.33		54.9	34.0	61	54.9	30.3	55	12	40-140/20
208-96-8	Acenaphthylene	0.16		54.9	28.3	51	54.9	24.9	45	13	40-140/20
120-12-7	Anthracene	ND		54.9	33.6	61	54.9	30.8	56	9	40-140/20
56-55-3	Benzo(a)anthracene	ND		54.9	43.8	80	54.9	39.5	72	10	40-140/20
50-32-8	Benzo(a)pyrene	ND		54.9	35.5	65	54.9	32.1	58	10	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		54.9	40.4	74	54.9	35.0	64	14	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		54.9	37.5	68	54.9	33.9	62	10	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		54.9	34.1	62	54.9	33.0	60	3	40-140/20
218-01-9	Chrysene	ND		54.9	39.4	72	54.9	35.7	65	10	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		54.9	37.8	69	54.9	34.1	62	10	40-140/20
206-44-0	Fluoranthene	ND		54.9	34.7	63	54.9	31.4	57	10	40-140/20
86-73-7	Fluorene	0.78		54.9	42.4	76	54.9	38.2	68	10	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		54.9	30.3	55	54.9	27.7	50	9	40-140/20
90-12-0	1-Methylnaphthalene	44.5		54.9	82.5	69	54.9	72.3	51	13	40-140/20
91-57-6	2-Methylnaphthalene	6.0		54.9	43.3	68	54.9	36.9	56	16	40-140/20
85-01-8	Phenanthrene	0.41		54.9	35.3	63	54.9	31.8	57	10	40-140/20
129-00-0	Pyrene	ND		54.9	36.2	66	54.9	32.8	60	10	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
4165-60-0	Nitrobenzene-d5	87%	73%	78%	30-130%
321-60-8	2-Fluorobiphenyl	64%	55%	59%	30-130%
1718-51-0	Terphenyl-d14	70%	64%	78%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3294-CC3270	**Injection Date:**	07/23/14
Lab File ID:	F74779.D	**Injection Time:**	09:40
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	180471	3.38	602357	4.41	420839	5.91	739683	7.16	967542	9.51	859365	11.03
Upper Limit [a]	360942	3.88	1204714	4.91	841678	6.41	1479366	7.66	1935084	10.01	1718730	11.53
Lower Limit [b]	90236	2.88	301179	3.91	210420	5.41	369842	6.66	483771	9.01	429683	10.53

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP38997-MB	246325	3.38	830984	4.41	561678	5.91	1052846	7.16	1204158	9.51	1149995	11.03
OP38997-BS	231498	3.38	796776	4.41	555329	5.91	998407	7.16	1270498	9.51	1150215	11.03
ZZZZZZ	267434	3.38	893138	4.41	603694	5.91	1114097	7.16	1291047	9.51	1247054	11.03
ZZZZZZ	233198	3.38	792528	4.41	533327	5.91	999469	7.16	1212629	9.51	1222112	11.03
ZZZZZZ	239878	3.38	802770	4.41	540634	5.91	1005404	7.16	1131487	9.51	1086318	11.03
MC31956-5	211138	3.38	705631	4.41	477664	5.91	895722	7.16	1042879	9.51	1033224	11.03
ZZZZZZ	201642	3.38	689788	4.41	485947	5.91	991281	7.17	1008138	9.56	1392234	11.10
ZZZZZZ	281108	3.38	939480	4.41	640027	5.91	1280228	7.17	1071313	9.58	1564885	11.13
ZZZZZZ	272332	3.38	898171	4.41	618311	5.91	1122114	7.16	1320479	9.51	1379082	11.03

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3375-CC3320	**Injection Date:**	07/14/14
Lab File ID:	I90639.D	**Injection Time:**	08:27
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	462556	3.39	954441	4.41	569474	5.91	974997	7.23	637182	9.99	1748256	11.39
Upper Limit [a]	925112	3.89	1908882	4.91	1138948	6.41	1949994	7.73	1274364	10.49	3496512	11.89
Lower Limit [b]	231278	2.89	477221	3.91	284737	5.41	487499	6.73	318591	9.49	874128	10.89
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP38905-BS	526245	3.39	1095332	4.42	632313	5.92	1061342	7.23	718261	9.99	1880536	11.40
OP38905-MS	508238	3.39	1041213	4.42	602306	5.92	1000057	7.23	648293	10.00	1755578	11.40
OP38905-MSD	500503	3.37	1034532	4.41	603760	5.92	1003527	7.23	649074	10.00	1750521	11.40
MC31918-3	483582	3.39	996089	4.42	589657	5.92	977205	7.23	620975	9.99	1714098	11.39
ZZZZZZ	530101	3.39	1100334	4.41	641902	5.91	1074490	7.23	685385	9.99	1901638	11.39
ZZZZZZ	445157	3.39	925912	4.41	547444	5.91	919716	7.23	606598	9.98	1673547	11.39
ZZZZZZ	525430	3.39	1071920	4.41	614737	5.92	1036598	7.23	636921	9.99	1717712	11.40
MC31956-1	458487	3.39	952635	4.41	562640	5.91	950761	7.23	630211	9.99	1733165	11.39
OP38905-MB	500580	3.39	1043934	4.41	613985	5.91	1037318	7.23	676217	9.99	1846758	11.39
MC31956-2	497402	3.39	1022897	4.42	595283	5.91	992866	7.23	639343	9.99	1769986	11.39
MC31956-3	508768	3.39	1034747	4.42	582401	5.92	960844	7.23	592855	9.99	1635553	11.39
ZZZZZZ	492938	3.39	1019299	4.41	595164	5.91	1009168	7.23	649999	9.99	1765263	11.39
ZZZZZZ	480952	3.39	1011798	4.41	596512	5.91	1010071	7.23	660804	9.98	1806827	11.39

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3380-CC3320	**Injection Date:**	07/18/14
Lab File ID:	I90802.D	**Injection Time:**	08:04
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	392999	3.25	820345	4.28	495538	5.77	857804	7.07	663250	9.82	1710034	11.21
Upper Limit [a]	785998	3.75	1640690	4.78	991076	6.27	1715608	7.57	1326500	10.32	3420068	11.71
Lower Limit [b]	196500	2.75	410173	3.78	247769	5.27	428902	6.57	331625	9.32	855017	10.71
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
MC31956-4	448139	3.25	921309	4.28	550592	5.77	941866	7.07	738297	9.82	1955382	11.21
MC31956-5	414411	3.26	866050	4.28	536597	5.78	881273	7.08	649549	9.82	1712697	11.21
MC31956-6	296475	3.26	608700	4.28	356416	5.77	622780	7.07	455702	9.82	1253554	11.20
MC31956-7	296216	3.25	614646	4.28	363295	5.77	630111	7.07	477476	9.82	1270583	11.20
ZZZZZZ	207902	3.25	437519	4.28	260764	5.77	447607	7.07	339220	9.81	904768	11.20
ZZZZZZ	212562	3.25	440624	4.28	262042	5.77	448356	7.07	339611	9.81	906367	11.20
MC32000-6	66154*	3.26	141537*	4.28	82001*	5.77	146082*	7.07	104754*	9.81	278199*	11.19

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX121-CC106	**Injection Date:**	07/16/14
Lab File ID:	X03482.D	**Injection Time:**	08:30
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	328847	3.99	1246051	5.04	662656	6.57	1030023	7.86	804495	10.42	599036	12.10
Upper Limit [a]	657694	4.49	2492102	5.54	1325312	7.07	2060046	8.36	1608990	10.92	1198072	12.60
Lower Limit [b]	164424	3.49	623026	4.54	331328	6.07	515012	7.36	402248	9.92	299518	11.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP38948-MB	296163	3.98	1095841	5.03	568725	6.57	812580	7.86	545899	10.41	405923	12.09
OP38948-BS	260776	3.98	918600	5.04	491876	6.57	723367	7.85	531423	10.41	441379	12.09
ZZZZZZ	226294	3.98	799031	5.04	398059	6.57	535605	7.86	377722[c]	10.45	259680[c]	12.14
ZZZZZZ	224975	3.98	828986	5.03	424914	6.56	613477	7.85	426536	10.40	345296	12.09
OP38904-MB	341026	3.98	1239217	5.04	649510	6.57	954996	7.86	714197	10.41	562323	12.09
OP38904-BS	344883	3.98	1242584	5.04	648886	6.57	993817	7.86	776080	10.41	621017	12.10
OP38904-MS	322426	3.98	1135051	5.04	602891	6.57	896381	7.86	696546	10.41	530117	12.10
OP38904-MSD	315128	3.98	1116556	5.04	607032	6.57	911053	7.86	713550	10.41	546041	12.10
MC31918-3	304500	3.98	1090059	5.04	578629	6.57	851332	7.86	647424	10.41	523014	12.10
ZZZZZZ	365863	3.98	1324915	5.04	701814	6.57	1029789	7.85	791409	10.41	629700	12.10
ZZZZZZ	295300	3.98	1058396	5.03	552873	6.57	811127	7.85	594802	10.41	468733	12.09
ZZZZZZ	326854	3.98	1182764	5.04	616133	6.57	899538	7.85	686895	10.41	526011	12.10
MC31956-1	297225	3.98	1083396	5.04	576413	6.57	855450	7.85	633488	10.41	508342	12.09
MC31956-2	312486	3.98	1136406	5.04	593444	6.57	884052	7.85	653593	10.41	533083	12.09
MC31956-3	301396	3.98	1122929	5.04	586294	6.57	855191	7.85	633412	10.41	518967	12.09
MC31956-4	291350	3.98	1053255	5.03	553933	6.57	815178	7.85	588737	10.41	450795	12.09
MC31956-5	308394	3.99	1097465	5.04	594326	6.57	890471	7.86	683205	10.41	529536	12.10
MC31956-6	283436	3.98	1035604	5.04	549331	6.57	805277	7.85	588290	10.41	485501	12.09
MC31956-7	312529	3.98	1125298	5.04	591670	6.57	861764	7.85	635481	10.41	531910	12.09
OP38931-MB	322546	3.98	1163915	5.04	597939	6.57	846511	7.86	601970	10.42	484287	12.11
OP38931-BS	258166	3.98	929660	5.04	494898	6.57	740175	7.86	572938	10.41	474314	12.10
ZZZZZZ	259314	3.98	919618	5.03	485310	6.57	704763	7.85	507789	10.40	389468	12.09
OP38966-MB	299946	3.98	1092618	5.03	567510	6.57	825596	7.85	600143	10.40	458125	12.09
OP38966-BS	280307	3.98	1005521	5.04	538132	6.57	811110	7.86	632229	10.41	514221	12.09
OP38966-MS	264921	3.98	943767	5.04	495987	6.57	724759	7.85	556330	10.41	465282	12.09
OP38966-MSD	264180	3.98	937027	5.04	495692	6.57	741487	7.85	564682	10.41	461048	12.09
MC32000-10	274922	3.98	998834	5.03	514627	6.57	752861	7.85	548502	10.40	415829	12.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX121-CC106	**Injection Date:**	07/16/14
Lab File ID:	X03482.D	**Injection Time:**	08:30
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC31956-1	X03495.D	42	30	84	81	76	93
MC31956-2	X03496.D	33	24	80	66	67	89
MC31956-3	X03497.D	36	25	75	71	67	82
MC31956-4	X03498.D	30	22	69	59	57	93
MC31956-5	F74785.D	48	26	79	66	68	72
MC31956-5	X03499.D	19	30	90	87	72	86
MC31956-6	X03500.D	44	29	85	84	78	89
MC31956-7	X03501.D	41	28	85	84	79	90
OP38904-BS	X03488.D	47	33	85	87	82	91
OP38904-MB	X03487.D	44	32	74	82	78	88
OP38904-MS	X03489.D	40	28	79	80	73	81
OP38904-MSD	X03490.D	36	26	73	66	62	75

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31956-1	I90648.D	91	67	80
MC31956-2	I90650.D	73	58	77
MC31956-3	I90651.D	78	60	72
MC31956-4	I90803.D	59	50	73
MC31956-5	I90804.D	84	65	69
MC31956-6	I90805.D	77	71	71
MC31956-7	I90806.D	72	70	70
OP38905-BS	I90641.D	96	71	76
OP38905-MB	I90649.D	91	68	75
OP38905-MS	I90642.D	87	64	70
OP38905-MSD	I90643.D	73	55	64

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MB	BK39526.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-9

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

Blank Spike Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-BS	BK39527.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.10	71	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	114%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MS	BK39528.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
OP38952-MSD	BK39529.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
MC31918-3	BK39534.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31956-1, MC31956-2, MC31956-3, MC31956-4, MC31956-5, MC31956-6, MC31956-7, MC31956-9

CAS No.	Compound	MC31918-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.139	0.10	72	0.138	0.092	67	8	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.139	0.11	79	0.138	0.095	69	15	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC31918-3	Limits
460-00-4	Bromofluorobenzene (S)	112%	112%	115%	36-173%
460-00-4	Bromofluorobenzene (S)	108%	117%	115%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC31956-1	BK39538.D	132	132
MC31956-2	BK39539.D	106	125
MC31956-3	BK39540.D	116	119
MC31956-4	BK39541.D	117	114
MC31956-5	BK39542.D	99	91
MC31956-6	BK39543.D	96	118
MC31956-7	BK39544.D	111	130
MC31956-9	BK39545.D	103	105
OP38952-BS	BK39527.D	114	103
OP38952-MB	BK39526.D	118	112
OP38952-MS	BK39528.D	112	108
OP38952-MSD	BK39529.D	112	117

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-ICC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39522.D	**Injection Time:**	15:19
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP38952-MB	BK39526.D	07/15/14	16:39	4.38	4.40
OP38952-BS	BK39527.D	07/15/14	16:58	4.38	4.40
OP38952-MS	BK39528.D	07/15/14	17:18	4.38	4.40
OP38952-MSD	BK39529.D	07/15/14	17:38	4.38	4.40
OP38952-MS1	BK39530.D	07/15/14	17:57	4.38	4.40
OP38952-MSD1	BK39531.D	07/15/14	18:17	4.38	4.40
ZZZZZZ	BK39532.D	07/15/14	18:37	4.38	4.40
ZZZZZZ	BK39533.D	07/15/14	18:57	4.38	4.40
MC31918-3	BK39534.D	07/15/14	19:17	4.38	4.40
ZZZZZZ	BK39535.D	07/15/14	19:37	4.38	4.40

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31956
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-CC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39536.D	**Injection Time:**	19:57
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK39537.D	07/15/14	20:16	4.38	4.40
MC31956-1	BK39538.D	07/15/14	20:36	4.38	4.40
MC31956-2	BK39539.D	07/15/14	20:56	4.38	4.40
MC31956-3	BK39540.D	07/15/14	21:15	4.38	4.40
MC31956-4	BK39541.D	07/15/14	21:34	4.38	4.40
MC31956-5	BK39542.D	07/15/14	21:54	4.38	4.40
MC31956-6	BK39543.D	07/15/14	22:13	4.38	4.40
MC31956-7	BK39544.D	07/15/14	22:32	4.38	4.40
MC31956-9	BK39545.D	07/15/14	22:52	4.39	4.41
MC31999-1	BK39546.D	07/15/14	23:11	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC31999



Sampling Date: 07/09/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 89

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Sample Summary

Shell Oil

Job No: MC31999

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC31999-1	07/09/14	09:50	BKCW	07/10/14	AQ	Ground Water	MW1-ROX-070914
MC31999-1D	07/09/14	09:50	BKCW	07/10/14	AQ	Water Dup/MSD	MW1-ROX-070914
MC31999-1S	07/09/14	09:50	BKCW	07/10/14	AQ	Water Matrix Spike	MW1-ROX-070914
MC31999-2	07/09/14	11:00	BKCW	07/10/14	AQ	Ground Water	MW12-ROX-070914
MC31999-3	07/09/14	12:10	BKCW	07/10/14	AQ	Ground Water	MW11-ROX-070914
MC31999-4	07/09/14	14:50	BKCW	07/10/14	AQ	Ground Water	MW10-ROX-070914
MC31999-5	07/09/14	15:40	BKCW	07/10/14	AQ	Ground Water	MW9-ROX-070914
MC31999-6	07/09/14	00:00	BKCW	07/10/14	AQ	Trip Blank Water	TB-070914-HCL
MC31999-7	07/09/14	00:00	BKCW	07/10/14	AQ	Trip Blank Water	TB-070914-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3 999

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** /2/20 6 0:26: 8 A

5 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 07/09/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 0/20 4 proper y preserved, at 2 9 Deg C and ntact These Samp es rece ved a job number of MC3 999 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 22

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Ch oroethane, V ny ch or de, Acetone, Bromomethane, Ch oromethane, Tr ch orof uoromethane are outs de contro m ts Assoc ated samp es are non-detect for Ch oroethane and V ny ch or de
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Bromomethane, Carbon tetrach or de, Ch oromethane, Tr ch orof uoromethane, Ch oroethane, V ny ch or de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane, V ny ch or de are outs de contro m ts Probab e cause due to matr x nterference
- 2-Hexanone: Acetone, 2-Butanone (MEK), 2-Ch oroethy v ny ether, Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP3892

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- Samp e(s) MC3 999- , MC3 999-2, MC3 999-3, MC3 999-4 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recove y(s) for 2,4-D n tropheno , Hexach orocyc opentad ene are outs de contro m ts
- RPD(s) for MSD for 3,3'-D ch orobenz d ne are outs de contro m ts for samp e OP3892 -MSD H gh RPD due to poss b e matr x nterference and/or samp e heterogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38922

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- Samp e(s) MC3 999- have compound(s) repo ted w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP38952

- A samp es were extracted& ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC3 999)

Summary of Hits

Job Number: MC31999
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/09/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31999-1	MW1-ROX-070914					
Methyl Tert Butyl Ether		3.5	1.0	0.51	ug/l	SW846 8260C
Di-n-butyl phthalate		1.6 JB	5.4	0.19	ug/l	SW846 8270D
1-Methylnaphthalene		0.085 J	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.12 JB	0.22	0.081	ug/l	SW846 8270D BY SIM
MC31999-2	MW12-ROX-070914					
Di-n-butyl phthalate		0.98 JB	5.6	0.19	ug/l	SW846 8270D
MC31999-3	MW11-ROX-070914					
Di-n-butyl phthalate		0.42 JB	5.7	0.20	ug/l	SW846 8270D
Phenanthrene		0.030 J	0.057	0.014	ug/l	SW846 8270D BY SIM
MC31999-4	MW10-ROX-070914					
Di-n-butyl phthalate		0.65 JB	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.52 J	2.2	0.36	ug/l	SW846 8270D
MC31999-5	MW9-ROX-070914					
Di-n-butyl phthalate		0.60 J	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.36 J	2.2	0.36	ug/l	SW846 8270D
MC31999-6	TB-070914-HCL					
No hits reported in this sample.						
MC31999-7	TB-070914-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.5	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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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:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03882.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	1.6	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

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Report of Analysis

Client Sample ID:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	89%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39477.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.085	0.22	0.054	ug/l	J
91-57-6	2-Methylnaphthalene	0.12	0.22	0.081	ug/l	JB
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-070914		
Lab Sample ID:	MC31999-1	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39546.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		36-173%
460-00-4	Bromofluorobenzene (S)	124%		36-173%

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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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33071.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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Report of Analysis

Client Sample ID:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03883.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.98	5.6	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	76%		15-110%
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39478.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.055	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		30-130%
321-60-8	2-Fluorobiphenyl	52%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	MW12-ROX-070914		
Lab Sample ID:	MC31999-2	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39548.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	111%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33072.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03884.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.36	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.46	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.54	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	ND	5.7	0.35	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.20	ug/l	
62-53-3	Aniline	ND	11	0.73	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.61	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.36	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.64	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.31	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	0.42	5.7	0.20	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.35	ug/l	
78-59-1	Isophorone	ND	5.7	0.52	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.46	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	ND	5.7	0.45	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.22	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	78%		15-110%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39479.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.057	ug/l	
120-12-7	Anthracene	ND	0.11	0.11	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.044	ug/l	
218-01-9	Chrysene	ND	0.11	0.027	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.037	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.047	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.23	0.057	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.23	0.085	ug/l	
85-01-8	Phenanthrene	0.030	0.057	0.014	ug/l	J
129-00-0	Pyrene	ND	0.11	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	MW11-ROX-070914		
Lab Sample ID:	MC31999-3	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39549.D	1	07/16/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	105%		36-173%
460-00-4	Bromofluorobenzene (S)	103%		36-173%

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:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33073.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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Report of Analysis

Client Sample ID:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03885.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.57	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.65	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/l	

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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:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.52	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39480.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-070914		
Lab Sample ID:	MC31999-4	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39550.D	1	07/16/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	106%		36-173%
460-00-4	Bromofluorobenzene (S)	108%		36-173%

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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33074.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03886.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.60	5.4	0.19	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.36	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39481.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW9-ROX-070914		
Lab Sample ID:	MC31999-5	**Date Sampled:**	07/09/14
Matrix:	AQ - Ground Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39551.D	1	07/16/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	34.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	103%		36-173%

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:	TB-070914-HCL		
Lab Sample ID:	MC31999-6	**Date Sampled:**	07/09/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33059.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-070914-HCL		
Lab Sample ID:	MC31999-6	**Date Sampled:**	07/09/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-070914-HCL		
Lab Sample ID:	MC31999-6	**Date Sampled:**	07/09/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/10/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	TB-070914-ST		
Lab Sample ID:	MC31999-7	**Date Sampled:**	07/09/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/10/14
Method:	SW846 8011 SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39552.D	1	07/16/14	NK	07/14/14	OP38952	GBK1283
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		36-173%
460-00-4	Bromofluorobenzene (S)	88%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

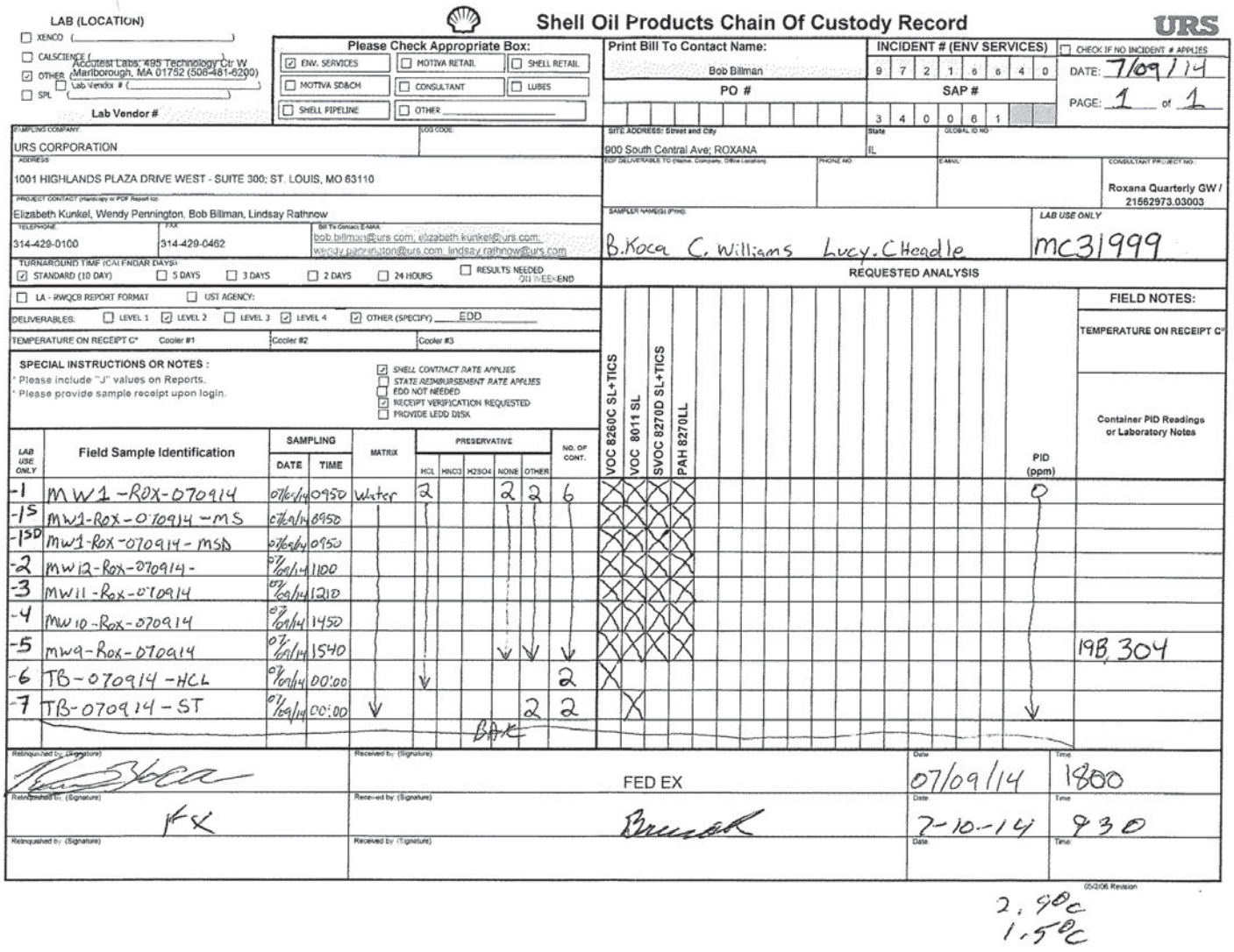
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #
☐ Lab Vendor # (_____)

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 0 6 4 0
SAP #: 3 4 0 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7/09/14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): B.Koca C. Williams Lucy. CHeadle
LAB USE ONLY: MC31999
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

FIELD NOTES:
TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW1-ROX-070914	07/09/14	0950	Water	2			2	2	6	X	X	X	X	0	
-1S	MW1-ROX-070914-MS	07/09/14	0950								X	X	X	X		
-1D	MW1-ROX-070914-MSD	07/09/14	0950								X	X	X	X		
-2	MW12-ROX-070914-	07/09/14	1100								X	X	X	X		
-3	MW11-ROX-070914	07/09/14	1210								X	X	X	X		
-4	MW10-ROX-070914	07/09/14	1450								X	X	X	X		
-5	MW9-ROX-070914	07/09/14	1540								X	X	X	X		19B, 304
-6	TB-070914-HCL	07/09/14	00:00							2	X					
-7	TB-070914-ST	07/09/14	00:00						2	2		X				

BAK

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FED EX	07/09/14	1800
FX		7-10-14	930

05/2/06 Revision

2.9°C
1.5°C

MC31999: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC31999 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/10/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC31999: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31999

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31999-1 Collected: 09-JUL-14 09:50 By: BKCW Received: 10-JUL-14 By: MW1-ROX-070914						
MC31999-1	SW846 8011	15-JUL-14 23:11	NK	14-JUL-14	AW	V8011SL
MC31999-1	SW846 8260C	21-JUL-14 12:49	AMY			V8260SL+
MC31999-1	SW846 8270D	23-JUL-14 16:55	WK	11-JUL-14	MD	AB8270SL+
MC31999-1	SW846 8270D BY SIM	23-JUL-14 22:27	WK	11-JUL-14	MD	B8270SIMSL
MC31999-2 Collected: 09-JUL-14 11:00 By: BKCW Received: 10-JUL-14 By: MW12-ROX-070914						
MC31999-2	SW846 8011	15-JUL-14 23:50	NK	14-JUL-14	AW	V8011SL
MC31999-2	SW846 8260C	21-JUL-14 17:18	AMY			V8260SL+
MC31999-2	SW846 8270D	23-JUL-14 17:16	WK	11-JUL-14	MD	AB8270SL+
MC31999-2	SW846 8270D BY SIM	23-JUL-14 22:52	WK	11-JUL-14	MD	B8270SIMSL
MC31999-3 Collected: 09-JUL-14 12:10 By: BKCW Received: 10-JUL-14 By: MW11-ROX-070914						
MC31999-3	SW846 8011	16-JUL-14 00:09	NK	14-JUL-14	AW	V8011SL
MC31999-3	SW846 8260C	21-JUL-14 17:44	AMY			V8260SL+
MC31999-3	SW846 8270D	23-JUL-14 17:37	WK	11-JUL-14	MD	AB8270SL+
MC31999-3	SW846 8270D BY SIM	23-JUL-14 23:18	WK	11-JUL-14	MD	B8270SIMSL
MC31999-4 Collected: 09-JUL-14 14:50 By: BKCW Received: 10-JUL-14 By: MW10-ROX-070914						
MC31999-4	SW846 8011	16-JUL-14 00:29	NK	14-JUL-14	AW	V8011SL
MC31999-4	SW846 8260C	21-JUL-14 18:10	AMY			V8260SL+
MC31999-4	SW846 8270D	23-JUL-14 17:57	WK	11-JUL-14	MD	AB8270SL+
MC31999-4	SW846 8270D BY SIM	23-JUL-14 23:43	WK	11-JUL-14	MD	B8270SIMSL
MC31999-5 Collected: 09-JUL-14 15:40 By: BKCW Received: 10-JUL-14 By: MW9-ROX-070914						
MC31999-5	SW846 8011	16-JUL-14 00:48	NK	14-JUL-14	AW	V8011SL
MC31999-5	SW846 8260C	21-JUL-14 18:36	AMY			V8260SL+
MC31999-5	SW846 8270D	23-JUL-14 18:18	WK	11-JUL-14	MD	AB8270SL+
MC31999-5	SW846 8270D BY SIM	24-JUL-14 00:08	WK	11-JUL-14	MD	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC31999

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31999-6 Collected: 09-JUL-14 00:00 By: BKCW Received: 10-JUL-14 By: TB-070914-HCL						
MC31999-6	SW846 8260C	21-JUL-14 11:30	AMY			V8260SL+
MC31999-7 Collected: 09-JUL-14 00:00 By: BKCW Received: 10-JUL-14 By: TB-070914-ST						
MC31999-7	SW846 8011	16-JUL-14 01:08	NK	14-JUL-14	AW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/10/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31999-1.2	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-1.2	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.5	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-1.5	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.6	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-1.6	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.7	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-1.7	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-1.9	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-1.9	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-1.12	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-1.12	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-1.13	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-1.13	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-1.13	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-1.13	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-1.13	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.14	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-1.14	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-1.14	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-1.14	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-1.14	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.15	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-1.15	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-1.15	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-1.15	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-1.15	Scott Parsick		09/25/14 16:09	Disposed
MC31999-1.16	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-1.16	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-1.16	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-1.16	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-1.16	Scott Parsick		09/25/14 16:09	Disposed
MC31999-2.2	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-2.2	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/10/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31999-2.4	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-2.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-2.6	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-2.6	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-2.6	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-2.6	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-2.6	Scott Parsick		09/25/14 16:09	Disposed
MC31999-3.2	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-3.2	Scott Parsick		09/25/14 16:09	Disposed
MC31999-3.3	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-3.3	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-3.6	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-3.6	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-3.6	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-3.6	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-3.6	Scott Parsick		09/25/14 16:09	Disposed
MC31999-4.2	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-4.2	Scott Parsick		09/25/14 16:09	Disposed
MC31999-4.3	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-4.3	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-4.5	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-4.5	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-4.5	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-4.5	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-4.5	Scott Parsick		09/25/14 16:09	Disposed
MC31999-5.1	Walk In Ref #22	Michael DiBuono	07/11/14 15:53	Retrieve from Storage
MC31999-5.1	Scott Parsick		09/25/14 16:09	Disposed
MC31999-5.4	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-5.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC31999-5.5	VOC Ref #3	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC31999-5.5	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC31999-5.5	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-5.5	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/10/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31999-5.5	Scott Parsick		09/25/14 16:09	Disposed
MC31999-6.1	VOC Ref #3	Amy Min Yang	07/21/14 10:27	Retrieve from Storage
MC31999-6.1	Amy Min Yang	GCMSV	07/21/14 10:27	Load on Instrument
MC31999-6.1	GCMSV	Amy Min Yang	07/22/14 15:18	Unload from Instrument
MC31999-6.1	Amy Min Yang	VOC Ref #3	07/22/14 15:18	Return to Storage
MC31999-6.1	Scott Parsick		09/25/14 16:09	Disposed
MC31999-7.1	VOC Ref #3	Marc Tahtamoni	07/14/14 16:33	Retrieve from Storage
MC31999-7.1	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	31.2	62* [a]	70-130
107-02-8	Acrolein	250	262	105	70-130
107-13-1	Acrylonitrile	50	55.5	111	70-130
71-43-2	Benzene	50	53.1	106	70-130
108-86-1	Bromobenzene	50	50.6	101	70-130
74-97-5	Bromochloromethane	50	50.2	100	70-130
75-27-4	Bromodichloromethane	50	55.1	110	70-130
75-25-2	Bromoform	50	50.9	102	70-130
74-83-9	Bromomethane	50	80.5	161* [a]	70-130
78-93-3	2-Butanone (MEK)	50	38.5	77	70-130
104-51-8	n-Butylbenzene	50	56.0	112	70-130
135-98-8	sec-Butylbenzene	50	58.3	117	70-130
98-06-6	tert-Butylbenzene	50	55.7	111	70-130
75-15-0	Carbon disulfide	50	44.8	90	70-130
56-23-5	Carbon tetrachloride	50	62.8	126	70-130
108-90-7	Chlorobenzene	50	51.0	102	70-130
75-00-3	Chloroethane	50	82.9	166* [b]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	39.0	78	70-130
67-66-3	Chloroform	50	54.5	109	70-130
74-87-3	Chloromethane	50	83.4	167* [a]	70-130
95-49-8	o-Chlorotoluene	50	54.9	110	70-130
106-43-4	p-Chlorotoluene	50	55.5	111	70-130
124-48-1	Dibromochloromethane	50	49.1	98	70-130
95-50-1	1,2-Dichlorobenzene	50	52.7	105	70-130
541-73-1	1,3-Dichlorobenzene	50	52.5	105	70-130
106-46-7	1,4-Dichlorobenzene	50	51.4	103	70-130
75-71-8	Dichlorodifluoromethane	50	52.9	106	70-130
75-34-3	1,1-Dichloroethane	50	60.0	120	70-130
107-06-2	1,2-Dichloroethane	50	56.9	114	70-130
75-35-4	1,1-Dichloroethene	50	56.3	113	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.0	106	70-130
156-60-5	trans-1,2-Dichloroethene	50	58.8	118	70-130
78-87-5	1,2-Dichloropropane	50	50.7	101	70-130
142-28-9	1,3-Dichloropropane	50	50.5	101	70-130
594-20-7	2,2-Dichloropropane	50	64.7	129	70-130
563-58-6	1,1-Dichloropropene	50	56.3	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.1	108	70-130
10061-02-6	trans-1,3-Dichloropropene	50	59.1	118	70-130
123-91-1	1,4-Dioxane	250	250	100	70-130
97-63-2	Ethyl methacrylate	50	41.5	83	77-137
100-41-4	Ethylbenzene	50	54.8	110	70-130
87-68-3	Hexachlorobutadiene	50	48.1	96	70-130
591-78-6	2-Hexanone	50	36.5	73	70-130
98-82-8	Isopropylbenzene	50	59.7	119	70-130
99-87-6	p-Isopropyltoluene	50	58.1	116	70-130
1634-04-4	Methyl Tert Butyl Ether	50	59.1	118	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.3	95	70-130
74-95-3	Methylene bromide	50	49.7	99	70-130
75-09-2	Methylene chloride	50	57.2	114	70-130
91-20-3	Naphthalene	50	41.7	83	70-130
103-65-1	n-Propylbenzene	50	56.9	114	70-130
100-42-5	Styrene	50	50.9	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.8	112	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	53.3	107	70-130
127-18-4	Tetrachloroethene	50	50.7	101	70-130
108-88-3	Toluene	50	50.0	100	70-130
87-61-6	1,2,3-Trichlorobenzene	50	45.1	90	70-130
120-82-1	1,2,4-Trichlorobenzene	50	46.4	93	70-130
71-55-6	1,1,1-Trichloroethane	50	58.0	116	70-130
79-00-5	1,1,2-Trichloroethane	50	48.8	98	70-130
79-01-6	Trichloroethene	50	48.4	97	70-130
75-69-4	Trichlorofluoromethane	50	70.9	142* [a]	70-130
96-18-4	1,2,3-Trichloropropane	50	55.3	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	55.7	111	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.7	111	70-130
108-05-4	Vinyl Acetate	50	55.9	112	70-130
75-01-4	Vinyl chloride	50	77.9	156* [b]	70-130
	m,p-Xylene	100	107	107	70-130
95-47-6	o-Xylene	50	54.7	109	70-130
1330-20-7	Xylene (total)	150	162	108	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	34.6	69* [a]	50	37.4	75	8	70-130/30
107-02-8	Acrolein	ND		250	271	108	250	282	113	4	70-130/30
107-13-1	Acrylonitrile	ND		50	59.6	119	50	59.0	118	1	70-130/30
71-43-2	Benzene	ND		50	53.6	107	50	52.7	105	2	70-130/30
108-86-1	Bromobenzene	ND		50	48.7	97	50	48.7	97	0	70-130/30
74-97-5	Bromochloromethane	ND		50	50.2	100	50	50.1	100	0	70-130/30
75-27-4	Bromodichloromethane	ND		50	56.6	113	50	54.7	109	3	70-130/30
75-25-2	Bromoform	ND		50	54.1	108	50	51.8	104	4	70-130/30
74-83-9	Bromomethane	ND		50	88.6	177* [a]	50	85.1	170* [a]	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	37.0	74	50	37.3	75	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	52.4	105	50	51.2	102	2	70-130/30
135-98-8	sec-Butylbenzene	ND		50	54.5	109	50	53.5	107	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50	51.2	102	50	50.4	101	2	70-130/30
75-15-0	Carbon disulfide	ND		50	46.2	92	50	45.5	91	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	67.0	134* [a]	50	63.1	126	6	70-130/30
108-90-7	Chlorobenzene	ND		50	51.3	103	50	49.9	100	3	70-130/30
75-00-3	Chloroethane	ND		50	94.7	189* [b]	50	91.5	183* [b]	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	55.5	111	50	54.0	108	3	70-130/30
74-87-3	Chloromethane	ND		50	87.3	175* [a]	50	82.6	165* [a]	6	70-130/30
95-49-8	o-Chlorotoluene	ND		50	53.1	106	50	52.1	104	2	70-130/30
106-43-4	p-Chlorotoluene	ND		50	54.1	108	50	53.4	107	1	70-130/30
124-48-1	Dibromochloromethane	ND		50	51.1	102	50	49.3	99	4	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.3	103	50	49.9	100	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	50.7	101	50	49.4	99	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.8	100	50	48.8	98	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	55.7	111	50	56.9	114	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	60.6	121	50	60.5	121	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	59.3	119	50	57.3	115	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	57.6	115	50	57.0	114	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	51.1	102	50	52.0	104	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	59.9	120	50	59.5	119	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	50.9	102	50	49.8	100	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	49.6	99	50	49.3	99	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	64.8	130	50	62.3	125	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	56.5	113	50	55.0	110	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.9	98	50	48.9	98	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	58.5	117	50	57.6	115	2	70-130/30
123-91-1	1,4-Dioxane	ND		250	250	100	250	243	97	3	70-130/30
97-63-2	Ethyl methacrylate	ND		50	40.6	81	50	40.8	82	0	72-139/30
100-41-4	Ethylbenzene	ND		50	54.7	109	50	52.9	106	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	43.0	86	50	43.0	86	0	70-130/30
591-78-6	2-Hexanone	ND		50	38.8	78	50	37.9	76	2	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.3	111	50	55.7	111	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	53.8	108	50	53.2	106	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	3.5		50	60.8	115	50	61.8	117	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	48.1	96	50	46.3	93	4	70-130/30
74-95-3	Methylene bromide	ND		50	51.4	103	50	49.4	99	4	70-130/30
75-09-2	Methylene chloride	ND		50	58.8	118	50	58.1	116	1	70-130/30
91-20-3	Naphthalene	ND		50	36.8	74	50	39.3	79	7	70-130/30
103-65-1	n-Propylbenzene	ND		50	54.1	108	50	53.3	107	1	70-130/30
100-42-5	Styrene	ND		50	51.6	103	50	49.9	100	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.1	112	50	54.2	108	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.3	107	50	52.2	104	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.7	99	50	48.3	97	3	70-130/30
108-88-3	Toluene	ND		50	49.8	100	50	48.1	96	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	38.6	77	50	40.9	82	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	40.5	81	50	41.9	84	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	57.8	116	50	55.2	110	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	49.4	99	50	47.8	96	3	70-130/30
79-01-6	Trichloroethene	ND		50	48.7	97	50	47.6	95	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	88.1	176* [a]	50	80.8	162* [a]	9	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	55.3	111	50	54.3	109	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	52.8	106	50	52.0	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	53.2	106	50	52.0	104	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	56.4	113	50	56.1	112	1	70-130/30
75-01-4	Vinyl chloride	ND		50	84.4	169* [b]	50	82.7	165* [b]	2	70-130/30
	m,p-Xylene	ND		100	108	108	100	104	104	4	70-130/30
95-47-6	o-Xylene	ND		50	53.9	108	50	52.7	105	2	70-130/30
1330-20-7	Xylene (total)	ND		150	162	108	150	157	105	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-6

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	123%	70-130%
2037-26-5	Toluene-D8	93%	91%	93%	70-130%
460-00-4	4-Bromofluorobenzene	93%	95%	101%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1221-CC1177	**Injection Date:**	07/21/14
Lab File ID:	V33055.D	**Injection Time:**	09:46
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	401863	6.54	508277	7.72	184048	11.07	244887	13.28	79484	3.49
Upper Limit [a]	803726	7.04	1016554	8.22	368096	11.57	489774	13.78	158968	3.99
Lower Limit [b]	200932	6.04	254139	7.22	92024	10.57	122444	12.78	39742	2.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1221-BS	401863	6.54	508277	7.72	184048	11.07	244887	13.28	79484	3.49
MSV1221-MB	261400	6.54	352622	7.72	137832	11.07	153595	13.28	66613	3.49
ZZZZZZ	251792	6.54	345190	7.73	136035	11.07	146350	13.28	56539	3.50
MC31999-6	224181	6.54	307907	7.73	126393	11.07	137932	13.28	54585	3.49
ZZZZZZ	247145	6.55	342825	7.73	137598	11.07	145735	13.28	54548	3.50
ZZZZZZ	232857	6.55	320962	7.73	132249	11.07	141046	13.28	54085	3.50
MC31999-1	245453	6.55	340370	7.73	133722	11.07	142451	13.28	59640	3.50
ZZZZZZ	239403	6.55	421084	7.73	142954	11.07	150830	13.28	53260	3.50
MC31999-1MS	382051	6.54	468165	7.73	171760	11.07	240391	13.28	80781	3.50
MC31999-1MSD	423651	6.54	520451	7.73	187320	11.07	253886	13.28	89238	3.50
MC31990-2MS	628980	6.54	786539	7.73	270930	11.07	386051	13.29	130817	3.50
MC31990-2MSD	532245	6.55	674442	7.73	238491	11.07	322234	13.29	114781	3.50
ZZZZZZ	353028	6.55	496011	7.73	178385	11.07	192723	13.29	85884	3.51
MC31990-2	324944	6.55	446696	7.73	169610	11.07	180998	13.29	81707	3.50
MC31999-2	292005	6.55	399118	7.73	150485	11.07	161632	13.29	78470	3.50
MC31999-3	267761	6.55	361190	7.73	141603	11.07	150939	13.29	71105	3.50
MC31999-4	316441	6.55	397464	7.73	152322	11.07	158016	13.29	87209	3.50
MC31999-5	242532	6.54	337194	7.73	136864	11.07	147838	13.29	64160	3.49
ZZZZZZ	247791	6.55	345214	7.73	135933	11.07	146403	13.29	66260	3.50
ZZZZZZ	231514	6.54	323287	7.73	130269	11.07	140531	13.29	59277	3.49
ZZZZZZ	213270	6.54	300029	7.73	122023	11.07	131468	13.29	55721	3.49
ZZZZZZ	232827	6.55	329910	7.73	132578	11.07	142506	13.29	58381	3.50
ZZZZZZ	248706	6.55	343424	7.73	133658	11.07	146520	13.28	64230	3.50
ZZZZZZ	227439	6.54	313942	7.73	122940	11.07	131023	13.28	54322	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31999-1	V33062.D	123	93	101
MC31999-2	V33071.D	115	90	103
MC31999-3	V33072.D	117	93	101
MC31999-4	V33073.D	106	93	105
MC31999-5	V33074.D	121	94	101
MC31999-6	V33059.D	117	95	100
MC31999-1MS	V33065.D	101	93	93
MC31999-1MSD	V33066.D	100	91	95
MSV1221-BS	V33055.D	98	92	94
MSV1221-MB	V33057.D	113	93	101

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MB	X03878.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.24	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MB	X03878.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-MB	R39473.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	0.075	0.20	0.074	ug/l	J
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	87%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	61%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-BS	X03879.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	16.1	32	30-130
95-57-8	2-Chlorophenol	50	43.1	86	30-130
59-50-7	4-Chloro-3-methyl phenol	50	44.4	89	30-130
120-83-2	2,4-Dichlorophenol	50	45.5	91	30-130
105-67-9	2,4-Dimethylphenol	50	42.3	85	30-130
51-28-5	2,4-Dinitrophenol	50	14.1	28* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	50	22.4	45	30-130
95-48-7	2-Methylphenol	50	38.3	77	30-130
	3&4-Methylphenol	100	69.2	69	30-130
88-75-5	2-Nitrophenol	50	46.0	92	30-130
100-02-7	4-Nitrophenol	50	17.9	36	30-130
87-86-5	Pentachlorophenol	50	38.2	76	30-130
108-95-2	Phenol	50	21.5	43	30-130
95-95-4	2,4,5-Trichlorophenol	50	48.3	97	30-130
88-06-2	2,4,6-Trichlorophenol	50	47.6	95	30-130
62-53-3	Aniline	50	33.3	67	40-140
101-55-3	4-Bromophenyl phenyl ether	50	51.3	103	40-140
85-68-7	Butyl benzyl phthalate	50	48.7	97	40-140
100-51-6	Benzyl Alcohol	50	33.6	67	40-140
91-58-7	2-Chloronaphthalene	50	45.0	90	40-140
106-47-8	4-Chloroaniline	50	41.9	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	44.7	89	40-140
111-44-4	bis(2-Chloroethyl)ether	50	45.5	91	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	43.9	88	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	47.5	95	40-140
122-66-7	1,2-Diphenylhydrazine	50	47.6	95	40-140
121-14-2	2,4-Dinitrotoluene	50	50.9	102	40-140
606-20-2	2,6-Dinitrotoluene	50	50.9	102	40-140
91-94-1	3,3'-Dichlorobenzidine	50	46.9	94	40-140
132-64-9	Dibenzofuran	50	42.2	84	40-140
84-74-2	Di-n-butyl phthalate	50	45.0	90	40-140
117-84-0	Di-n-octyl phthalate	50	55.7	111	40-140
84-66-2	Diethyl phthalate	50	49.1	98	40-140
131-11-3	Dimethyl phthalate	50	49.2	98	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.7	105	40-140
118-74-1	Hexachlorobenzene	50	50.0	100	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-BS	X03879.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	18.8	38* [a]	40-140
67-72-1	Hexachloroethane	50	33.6	67	40-140
78-59-1	Isophorone	50	41.7	83	40-140
88-74-4	2-Nitroaniline	50	50.1	100	40-140
99-09-2	3-Nitroaniline	50	45.4	91	40-140
100-01-6	4-Nitroaniline	50	43.9	88	40-140
98-95-3	Nitrobenzene	50	45.9	92	40-140
62-75-9	n-Nitrosodimethylamine	50	23.1	46	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	46.7	93	40-140
86-30-6	N-Nitrosodiphenylamine	50	44.2	88	40-140
110-86-1	Pyridine	50	21.3	43	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	15-110%
4165-60-0	Nitrobenzene-d5	87%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-BS	R39474.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	41.7	83	40-140
208-96-8	Acenaphthylene	50	37.1	74	40-140
120-12-7	Anthracene	50	42.9	86	40-140
56-55-3	Benzo(a)anthracene	50	47.1	94	40-140
50-32-8	Benzo(a)pyrene	50	48.2	96	40-140
205-99-2	Benzo(b)fluoranthene	50	50.0	100	40-140
191-24-2	Benzo(g,h,i)perylene	50	51.4	103	40-140
207-08-9	Benzo(k)fluoranthene	50	49.8	100	40-140
218-01-9	Chrysene	50	43.6	87	40-140
53-70-3	Dibenzo(a,h)anthracene	50	52.3	105	40-140
206-44-0	Fluoranthene	50	42.8	86	40-140
86-73-7	Fluorene	50	48.6	97	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	53.2	106	40-140
90-12-0	1-Methylnaphthalene	50	43.2	86	40-140
91-57-6	2-Methylnaphthalene	50	42.4	85	40-140
85-01-8	Phenanthrene	50	42.4	85	40-140
129-00-0	Pyrene	50	41.7	83	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MS	X03880.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
OP38921-MSD	X03881.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
MC31999-1	X03882.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: Method: SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		55.6	23.1	42	55.6	22.4	40	3	30-130/20
95-57-8	2-Chlorophenol	ND		55.6	45.1	81	55.6	45.8	82	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		55.6	48.5	87	55.6	45.6	82	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		55.6	48.5	87	55.6	47.2	85	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		55.6	48.0	86	55.6	46.8	84	3	30-130/20
51-28-5	2,4-Dinitrophenol	ND		55.6	25.3	46	55.6	27.1	49	7	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		55.6	35.7	64	55.6	35.9	65	1	30-130/20
95-48-7	2-Methylphenol	ND		55.6	40.9	74	55.6	40.5	73	1	30-130/20
	3&4-Methylphenol	ND		111	72.7	65	111	74.3	67	2	30-130/20
88-75-5	2-Nitrophenol	ND		55.6	48.4	87	55.6	47.6	86	2	30-130/20
100-02-7	4-Nitrophenol	ND		55.6	21.2	38	55.6	22.0	40	4	30-130/20
87-86-5	Pentachlorophenol	ND		55.6	46.4	84	55.6	44.3	80	5	30-130/20
108-95-2	Phenol	ND		55.6	22.5	41	55.6	23.0	41	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		55.6	54.5	98	55.6	49.6	89	9	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		55.6	51.3	92	55.6	49.7	89	3	30-130/20
62-53-3	Aniline	ND		55.6	35.5	64	55.6	32.3	58	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		55.6	57.5	104	55.6	54.8	99	5	40-140/20
85-68-7	Butyl benzyl phthalate	ND		55.6	53.5	96	55.6	49.8	90	7	40-140/20
100-51-6	Benzyl Alcohol	ND		55.6	33.8	61	55.6	35.7	64	5	40-140/20
91-58-7	2-Chloronaphthalene	ND		55.6	50.3	91	55.6	49.3	89	2	40-140/20
106-47-8	4-Chloroaniline	ND		55.6	47.4	85	55.6	40.9	74	15	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		55.6	47.2	85	55.6	45.6	82	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		55.6	47.7	86	55.6	46.5	84	3	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		55.6	46.9	84	55.6	46.1	83	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		55.6	54.2	98	55.6	50.1	90	8	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		55.6	53.4	96	55.6	46.7	84	13	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		55.6	57.2	103	55.6	52.1	94	9	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		55.6	55.9	101	55.6	52.9	95	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		55.6	44.1	79	55.6	32.9	59	29* [a]	40-140/20
132-64-9	Dibenzofuran	ND		55.6	47.1	85	55.6	44.0	79	7	40-140/20
84-74-2	Di-n-butyl phthalate	1.6	JB	55.6	50.7	88	55.6	49.2	86	3	40-140/20
117-84-0	Di-n-octyl phthalate	ND		55.6	62.3	112	55.6	59.2	107	5	40-140/20
84-66-2	Diethyl phthalate	ND		55.6	54.7	98	55.6	50.6	91	8	40-140/20
131-11-3	Dimethyl phthalate	ND		55.6	55.5	100	55.6	51.6	93	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		55.6	58.2	105	55.6	54.8	99	6	40-140/20
118-74-1	Hexachlorobenzene	ND		55.6	57.5	104	55.6	53.7	97	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MS	X03880.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
OP38921-MSD	X03881.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
MC31999-1	X03882.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		55.6	23.3	42	55.6	24.1	43	3	40-140/20
67-72-1	Hexachloroethane	ND		55.6	46.4	84	55.6	47.4	85	2	40-140/20
78-59-1	Isophorone	ND		55.6	44.6	80	55.6	42.5	77	5	40-140/20
88-74-4	2-Nitroaniline	ND		55.6	56.3	101	55.6	51.8	93	8	40-140/20
99-09-2	3-Nitroaniline	ND		55.6	51.5	93	55.6	47.2	85	9	40-140/20
100-01-6	4-Nitroaniline	ND		55.6	48.2	87	55.6	44.2	80	9	40-140/20
98-95-3	Nitrobenzene	ND		55.6	48.5	87	55.6	47.0	85	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		55.6	26.6	48	55.6	27.1	49	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		55.6	49.3	89	55.6	47.8	86	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		55.6	49.9	90	55.6	47.4	85	5	40-140/20
110-86-1	Pyridine	ND		55.6	24.2	44	55.6	22.5	41	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
367-12-4	2-Fluorophenol	45%	46%	48%	15-110%
4165-62-2	Phenol-d5	32%	32%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	84%	89%	15-110%
4165-60-0	Nitrobenzene-d5	83%	80%	86%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	80%	30-130%
1718-51-0	Terphenyl-d14	87%	79%	88%	30-130%

(a) High RPD due to possible matrix interference and/or sample heterogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-MS	R39475.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
OP38922-MSD	R39476.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
MC31999-1	R39477.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		55.6	45.9	83	55.6	43.2	78	6	40-140/20
208-96-8	Acenaphthylene	ND		55.6	40.9	74	55.6	38.4	69	6	40-140/20
120-12-7	Anthracene	ND		55.6	47.9	86	55.6	44.3	80	8	40-140/20
56-55-3	Benzo(a)anthracene	ND		55.6	51.4	93	55.6	48.4	87	6	40-140/20
50-32-8	Benzo(a)pyrene	ND		55.6	51.9	93	55.6	48.9	88	6	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		55.6	53.9	97	55.6	49.7	89	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		55.6	59.4	107	55.6	53.7	97	10	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		55.6	55.1	99	55.6	50.0	90	10	40-140/20
218-01-9	Chrysene	ND		55.6	48.3	87	55.6	44.9	81	7	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		55.6	60.4	109	55.6	54.8	99	10	40-140/20
206-44-0	Fluoranthene	ND		55.6	45.5	82	55.6	44.6	80	2	40-140/20
86-73-7	Fluorene	ND		55.6	54.2	98	55.6	49.3	89	9	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		55.6	60.3	109	55.6	54.7	98	10	40-140/20
90-12-0	1-Methylnaphthalene	0.085	J	55.6	49.3	89	55.6	46.7	84	5	40-140/20
91-57-6	2-Methylnaphthalene	0.12	JB	55.6	48.3	87	55.6	46.1	83	5	40-140/20
85-01-8	Phenanthrene	ND		55.6	47.3	85	55.6	43.7	79	8	40-140/20
129-00-0	Pyrene	ND		55.6	44.8	81	55.6	43.6	78	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
4165-60-0	Nitrobenzene-d5	72%	71%	77%	30-130%
321-60-8	2-Fluorobiphenyl	62%	61%	69%	30-130%
1718-51-0	Terphenyl-d14	72%	70%	75%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSR1454-CC1401	**Injection Date:**	07/23/14
Lab File ID:	R39472.D	**Injection Time:**	20:20
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	111885	5.13	471555	6.23	373778	7.78	840982	9.05	1100940	11.59	1876857	13.26
Upper Limit [a]	223770	5.63	943110	6.73	747556	8.28	1681964	9.55	2201880	12.09	3753714	13.76
Lower Limit [b]	55943	4.63	235778	5.73	186889	7.28	420491	8.55	550470	11.09	938429	12.76
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP38922-MB	203969	5.13	831907	6.23	613540	7.78	1248589	9.05	1444848	11.58	2385159	13.26
OP38922-BS	149354	5.13	640201	6.23	507660	7.78	1118192	9.06	1364150	11.59	2276167	13.27
OP38922-MS	102952	5.13	448036	6.23	361574	7.78	820212	9.05	1073671	11.59	1871400	13.26
OP38922-MSD	164665	5.13	704208	6.23	543535	7.78	1162857	9.06	1376968	11.59	2297612	13.27
MC31999-1	137591	5.13	584304	6.23	446522	7.78	957589	9.05	1201513	11.58	2071725	13.26
MC31999-2	264417[c]	5.13	1032893[c]	6.23	721229	7.78	1397477	9.05	1528025	11.59	2514567	13.26
MC31999-3	214642	5.13	854757	6.23	609266	7.78	1198616	9.05	1324511	11.58	2164446	13.26
MC31999-4	220582	5.13	860991	6.23	611802	7.77	1226248	9.05	1385934	11.58	2296432	13.26
MC31999-5	159177	5.13	650534	6.23	489753	7.78	1050886	9.05	1269183	11.58	2165721	13.26
ZZZZZZ	170550	5.13	685708	6.23	491266	7.78	1023927	9.05	1256031	11.58	2131126	13.26
ZZZZZZ	160227	5.13	647203	6.23	467923	7.77	960385	9.05	1133550	11.58	1909492	13.26
ZZZZZZ	151414	5.13	622988	6.23	453799	7.77	939250	9.05	1115040	11.58	1863303	13.26
ZZZZZZ	153505	5.13	629353	6.23	451817	7.77	940738	9.05	1144722	11.58	1952727	13.26
ZZZZZZ	168629	5.13	685842	6.23	513717	7.77	1069140	9.05	1261158	11.58	2141830	13.26
ZZZZZZ	137938	5.13	562926	6.23	407765	7.78	867391	9.05	1035982	11.59	1776443	13.27
ZZZZZZ	155663	5.13	629599	6.23	475581	7.77	1011741	9.05	1232154	11.58	2104986	13.26

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits.Sample results confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX128-CC106	**Injection Date:**	07/23/14
Lab File ID:	X03856.D	**Injection Time:**	07:52
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	288726	3.61	1086265	4.65	590468	6.17	934953	7.45	763927	9.90	626735	11.50
Upper Limit [a]	577452	4.11	2172530	5.15	1180936	6.67	1869906	7.95	1527854	10.40	1253470	12.00
Lower Limit [b]	144363	3.11	543133	4.15	295234	5.67	467477	6.95	381964	9.40	313368	11.00
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP39049-MB	342567	3.61	1286522	4.65	704429	6.17	1083321	7.45	838821	9.90	657950	11.51
OP39049-BS	341521	3.61	1307837	4.65	704827	6.17	1082163	7.45	826063	9.90	706012	11.50
ZZZZZZ	346754	3.61	1302854	4.65	696262	6.17	1043727	7.45	760262	9.89	660460	11.50
ZZZZZZ	421114	3.61	1565082	4.65	783797	6.17	1113815	7.45	774016	9.90	626772	11.50
ZZZZZZ	363683	3.61	1331467	4.65	702634	6.17	1016912	7.45	732400	9.90	677547	11.50
ZZZZZZ	402153	3.61	1503744	4.65	801100	6.17	1191386	7.45	841647	9.90	717594	11.50
ZZZZZZ	414790	3.61	1524267	4.65	815827	6.17	1164203	7.45	793848	9.90	682768	11.50
ZZZZZZ	364406	3.61	1326016	4.66	670166	6.18	968032	7.48	703345	9.95	329857	11.56
ZZZZZZ	304210	3.61	1091518	4.66	610223	6.18	939614	7.46	667477	9.93	482746	11.54
OP39068-MB	320944	3.61	1211592	4.65	654332	6.17	974664	7.45	700372	9.90	557491	11.50
OP39068-BS	341032	3.61	1272191	4.66	664286	6.17	991387	7.45	757620	9.90	656765	11.51
MC31912-11	404131	3.61	1508914	4.65	795818	6.17	1134936	7.45	769168	9.90	653002	11.51
ZZZZZZ	288015	3.61	1053416	4.65	567765	6.17	851431	7.46	613595	9.92	514920	11.53
ZZZZZZ	326906	3.61	1203848	4.65	641074	6.17	899501	7.45	619501	9.90	542189	11.51
ZZZZZZ	297153	3.61	1115393	4.65	591339	6.17	874907	7.45	691778	9.90	564880	11.51
ZZZZZZ	357971	3.61	1360364	4.65	744115	6.17	1078946	7.45	732379	9.90	617831	11.51
ZZZZZZ	323736	3.61	1185044	4.65	613596	6.17	913714	7.45	652889	9.92	574461	11.53
OP38921-MB	358380	3.61	1335687	4.65	720023	6.17	1099567	7.45	861200	9.90	738847	11.51
OP38921-BS	405544	3.61	1512423	4.66	800420	6.18	1245543	7.46	1001453	9.91	836638	11.51
OP38921-MS	341989	3.61	1258212	4.66	675188	6.18	1053166	7.46	859950	9.91	702124	11.51
OP38921-MSD	401881	3.61	1501540	4.66	776521	6.18	1182420	7.45	979189	9.91	792303	11.51
MC31999-1	362228	3.61	1365593	4.65	742579	6.17	1107693	7.45	901617	9.90	765021	11.51
MC31999-2	363500	3.61	1347057	4.65	741168	6.17	1142957	7.45	906541	9.90	772685	11.51
MC31999-3	324610	3.61	1190647	4.65	654115	6.17	1007812	7.45	800117	9.90	667205	11.50
MC31999-4	356707	3.61	1325349	4.65	719700	6.17	1094677	7.45	881887	9.90	737719	11.50
MC31999-5	363441	3.61	1346762	4.65	715448	6.17	1085320	7.45	853114	9.90	727295	11.50

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX128-CC106	**Injection Date:**	07/23/14
Lab File ID:	X03856.D	**Injection Time:**	07:52
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC31999-1	X03882.D	48	32	89	86	80	88
MC31999-2	X03883.D	33	23	76	63	60	83
MC31999-3	X03884.D	44	30	78	78	71	84
MC31999-4	X03885.D	47	32	84	84	77	83
MC31999-5	X03886.D	41	28	80	75	70	88
OP38921-BS	X03879.D	49	33	91	87	82	88
OP38921-MB	X03878.D	41	28	74	78	72	85
OP38921-MS	X03880.D	45	32	91	83	77	87
OP38921-MSD	X03881.D	46	32	84	80	76	79

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31999-1	R39477.D	77	69	75
MC31999-2	R39478.D	57	52	74
MC31999-3	R39479.D	69	62	75
MC31999-4	R39480.D	76	68	75
MC31999-5	R39481.D	65	59	76
OP38922-BS	R39474.D	77	66	76
OP38922-MB	R39473.D	69	61	76
OP38922-MS	R39475.D	72	62	72
OP38922-MSD	R39476.D	71	61	70

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MB	BK39526.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	118%	36-173%
460-00-4	Bromofluorobenzene (S)	112%	36-173%

Blank Spike Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-BS	BK39527.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.10	71	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	114%	36-173%
460-00-4	Bromofluorobenzene (S)	103%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38952-MS1	BK39530.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
OP38952-MSD1	BK39531.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283
MC31999-1	BK39546.D	1	07/15/14	NK	07/14/14	OP38952	GBK1283

The QC reported here applies to the following samples: **Method:** SW846 8011

MC31999-1, MC31999-2, MC31999-3, MC31999-4, MC31999-5, MC31999-7

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.135	0.094	70	0.136	0.093	69	1	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.135	0.11	82	0.136	0.11	81	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
460-00-4	Bromofluorobenzene (S)	103%	113%	124%	36-173%
460-00-4	Bromofluorobenzene (S)	100%	115%	124%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC31999-1	BK39546.D	124	124
MC31999-2	BK39548.D	111	111
MC31999-3	BK39549.D	105	103
MC31999-4	BK39550.D	106	108
MC31999-5	BK39551.D	108	103
MC31999-7	BK39552.D	87	88
OP38952-BS	BK39527.D	114	103
OP38952-MB	BK39526.D	118	112
OP38952-MS1	BK39530.D	103	100
OP38952-MSD1	BK39531.D	113	115

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-ICC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39522.D	**Injection Time:**	15:19
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP38952-MB	BK39526.D	07/15/14	16:39	4.38	4.40
OP38952-BS	BK39527.D	07/15/14	16:58	4.38	4.40
OP38952-MS	BK39528.D	07/15/14	17:18	4.38	4.40
OP38952-MSD	BK39529.D	07/15/14	17:38	4.38	4.40
OP38952-MS1	BK39530.D	07/15/14	17:57	4.38	4.40
OP38952-MSD1	BK39531.D	07/15/14	18:17	4.38	4.40
ZZZZZZ	BK39532.D	07/15/14	18:37	4.38	4.40
ZZZZZZ	BK39533.D	07/15/14	18:57	4.38	4.40
MC31918-3	BK39534.D	07/15/14	19:17	4.38	4.40
ZZZZZZ	BK39535.D	07/15/14	19:37	4.38	4.40

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-CC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39536.D	**Injection Time:**	19:57
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK39537.D	07/15/14	20:16	4.38	4.40
ZZZZZZ	BK39538.D	07/15/14	20:36	4.38	4.40
ZZZZZZ	BK39539.D	07/15/14	20:56	4.38	4.40
ZZZZZZ	BK39540.D	07/15/14	21:15	4.38	4.40
ZZZZZZ	BK39541.D	07/15/14	21:34	4.38	4.40
ZZZZZZ	BK39542.D	07/15/14	21:54	4.38	4.40
ZZZZZZ	BK39543.D	07/15/14	22:13	4.38	4.40
ZZZZZZ	BK39544.D	07/15/14	22:32	4.38	4.40
ZZZZZZ	BK39545.D	07/15/14	22:52	4.39	4.41
MC31999-1	BK39546.D	07/15/14	23:11	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC31999
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1283-CC1283	**Injection Date:**	07/15/14
Lab File ID:	BK39547.D	**Injection Time:**	23:31
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC31999-2	BK39548.D	07/15/14	23:50	4.39	4.41
MC31999-3	BK39549.D	07/16/14	00:09	4.39	4.41
MC31999-4	BK39550.D	07/16/14	00:29	4.39	4.41
MC31999-5	BK39551.D	07/16/14	00:48	4.39	4.41
MC31999-7	BK39552.D	07/16/14	01:08	4.39	4.41
GBK1283-ECC128	BK39553.D	07/16/14	01:28	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC32041



Sampling Date: 07/10/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 105

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 02, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC32041

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC32041

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC32041-1	07/10/14	10:15	BKCW	07/11/14	AQ	Ground Water	MW6D-ROX-071014
MC32041-2	07/10/14	10:15	BKCW	07/11/14	AQ	Ground Water	MW6D-ROX-071014-DUP
MC32041-3	07/10/14	11:10	BKCW	07/11/14	AQ	Ground Water	MW6C-ROX-071014
MC32041-4	07/10/14	12:00	BKCW	07/11/14	AQ	Ground Water	MW6B-ROX-071014
MC32041-5	07/10/14	12:20	BKCW	07/11/14	AQ	Equipment Blank	MW6A-ROX-071014-EB
MC32041-6	07/10/14	13:00	BKCW	07/11/14	AQ	Ground Water	MW6A-ROX-071014
MC32041-7	07/10/14	15:55	BKCW	07/11/14	AQ	Ground Water	MW16-ROX-071014
MC32041-8	07/10/14	00:00	BKCW	07/11/14	AQ	Trip Blank Water	TB-071014-HCL
MC32041-9	07/10/14	00:00	BKCW	07/11/14	AQ	Trip Blank Water	TB-071014-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC3204

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** /2/20 6 :05: 9 A

7 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 07/ 0/20 4 and were rece ved at SGS Accutest New Eng and on 07/ /20 4 proper y preserved, at 0 9 Deg C and ntact These Samp es rece ved a job number of MC3204 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 22

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Ch oroethane, V ny ch or de, Acetone, Bromomethane, Ch oromethane, Tr ch orof uoromethane are outs de contro m ts Assoc ated samp es are non-detect for Ch oroethane and V ny ch or de
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, Acetone, Bromomethane, Carbon tetrach or de, Ch oromethane, Tr ch orof uoromethane, Ch oroethane, V ny ch or de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane, V ny ch or de are outs de contro m ts Probab e cause due to matr x nterference
- 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, 2-Butanone (MEK): Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP3892

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- Samp e(s) MC3204 - , MC3204 -2, MC3204 -3, MC3204 -5, MC3204 -6, MC3204 -7 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recove y(s) for 2,4-D n tropheno , Hexach orocyc opentad ene are outs de contro m ts
- RPD(s) for MSD for 3,3'-D ch orobenz d ne are outs de contro m ts for samp e OP3892 -MSD H gh RPD due to poss b e matr x nterference and/or samp e heterogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38922

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3 999- MS, MC3 999- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP38972

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000- 2MS, MC32000- 2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC3204)

Summary of Hits

Job Number: MC32041
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/10/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32041-1	MW6D-ROX-071014					
Di-n-butyl phthalate		0.27 JB	5.6	0.19	ug/l	SW846 8270D
MC32041-2	MW6D-ROX-071014-DUP					
Di-n-butyl phthalate		0.29 JB	5.4	0.19	ug/l	SW846 8270D
MC32041-3	MW6C-ROX-071014					
Di-n-butyl phthalate		0.32 JB	5.6	0.19	ug/l	SW846 8270D
Benzo(a)anthracene		0.034 J	0.056	0.022	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.035 J	0.11	0.030	ug/l	SW846 8270D BY SIM
Chrysene		0.037 J	0.11	0.026	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.035 J	0.11	0.034	ug/l	SW846 8270D BY SIM
MC32041-4	MW6B-ROX-071014					
Methyl Tert Butyl Ether		5.4	1.0	0.51	ug/l	SW846 8260C
MC32041-5	MW6A-ROX-071014-EB					
Di-n-butyl phthalate		0.25 JB	5.3	0.18	ug/l	SW846 8270D
MC32041-6	MW6A-ROX-071014					
Methyl Tert Butyl Ether		14.8	1.0	0.51	ug/l	SW846 8260C
Di-n-butyl phthalate		0.26 JB	5.4	0.19	ug/l	SW846 8270D
Acenaphthylene		0.075 J	0.11	0.054	ug/l	SW846 8270D BY SIM
Fluorene		0.13	0.11	0.11	ug/l	SW846 8270D BY SIM
Phenanthrene		0.046 J	0.054	0.014	ug/l	SW846 8270D BY SIM
MC32041-7	MW16-ROX-071014					
Di-n-butyl phthalate		0.21 JB	5.4	0.19	ug/l	SW846 8270D
MC32041-8	TB-071014-HCL					
No hits reported in this sample.						
MC32041-9	TB-071014-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33075.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74793.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.6	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	26%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	78%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39482.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.055	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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:	MW6D-ROX-071014		
Lab Sample ID:	MC32041-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39582.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		36-173%
460-00-4	Bromofluorobenzene (S)	102%		36-173%

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:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33076.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74794.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.29	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

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Report of Analysis

Client Sample ID:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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Report of Analysis

Client Sample ID:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39483.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6D-ROX-071014-DUP		
Lab Sample ID:	MC32041-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39583.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	139%		36-173%
460-00-4	Bromofluorobenzene (S)	137%		36-173%

ND = Not detected MDL = Method Detection Limit
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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:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33077.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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Report of Analysis

Client Sample ID:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74795.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.32	5.6	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/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:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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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:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39484.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.055	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	0.034	0.056	0.022	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.035	0.11	0.030	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	0.037	0.11	0.026	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.035	0.11	0.034	ug/l	J
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-071014		
Lab Sample ID:	MC32041-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39584.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	127%		36-173%

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:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33078.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.4	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	127%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74796.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.92	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.52	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.6	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.71	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.59	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	0.37	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.51	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.6	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.38	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.34	ug/l	
78-59-1	Isophorone	ND	5.6	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.45	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39485.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.055	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.030	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.043	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.045	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.082	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.043	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-071014		
Lab Sample ID:	MC32041-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39585.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	123%		36-173%
460-00-4	Bromofluorobenzene (S)	120%		36-173%

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:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33061.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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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:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74797.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.56	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.18	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.25	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.20	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	56%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39486.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		30-130%
321-60-8	2-Fluorobiphenyl	54%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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:	MW6A-ROX-071014-EB		
Lab Sample ID:	MC32041-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39586.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	132%		36-173%
460-00-4	Bromofluorobenzene (S)	131%		36-173%

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:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33079.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	14.8	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Client Sample ID:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74798.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.26	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
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Report of Analysis

Client Sample ID:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39487.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	0.075	0.11	0.054	ug/l	J
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.13	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.046	0.054	0.014	ug/l	J
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-071014		
Lab Sample ID:	MC32041-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39587.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	130%		36-173%
460-00-4	Bromofluorobenzene (S)	117%		36-173%

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:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33080.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	126%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74799.D	1	07/23/14	WK	07/11/14	OP38921	MSF3295
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.57	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.57	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.21	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.32	ug/l	
78-59-1	Isophorone	ND	5.4	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	26%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	82%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R39488.D	1	07/24/14	WK	07/11/14	OP38922	MSR1454
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.099	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16-ROX-071014		
Lab Sample ID:	MC32041-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39588.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	126%		36-173%
460-00-4	Bromofluorobenzene (S)	117%		36-173%

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:	TB-071014-HCL		
Lab Sample ID:	MC32041-8	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33060.D	1	07/21/14	AMY	n/a	n/a	MSV1221
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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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:	TB-071014-HCL		
Lab Sample ID:	MC32041-8	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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Report of Analysis

Client Sample ID:	TB-071014-HCL		
Lab Sample ID:	MC32041-8	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	TB-071014-ST		
Lab Sample ID:	MC32041-9	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39589.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	112%		36-173%
460-00-4	Bromofluorobenzene (S)	105%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #: _____

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 07 10 14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com
TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
SAMPLER NAME(S) (Print): B. Koca, C. Williams, L. Cheadle
LAB USE ONLY: MC32041

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW6D-Rox-071014	07/10/14	1015	Water	2			2	2	6	X	X	X	X		
-2	MW6D-Rox-071014-Dup	07/10/14	1015	"	"			"	"	"	X	X	X	X		
-3	MW6C-Rox-071014-	07/10/14	1110	"	"			"	"	"	X	X	X	X		
-4	MW6B-Rox-071014	07/10/14	1200	"	"			"	"	"	X	X	X	X		
-5	MW6A-Rox-071014-EB	07/10/14	1220	"	"			"	"	"	X	X	X	X		
-6	MW6A-Rox-071014	07/10/14	1300	"	"			"	"	"	X	X	X	X		
-7	MW16-Rox-071014	07/10/14	1555	"	"			↓	↓	↓	X	X	X	X		19AA, 4C1,
-8	TB-071014-HCL	07/10/14	00:00		↓					2	X					
-9	TB-071014-ST	07/10/14	00:00	↓					2	2		X				

FIELD NOTES:
TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Received by (Signature)	Date	Time
B. Koca	FED EX	07 10 14	1800
FEDX		7-11-14	1115

05-2/06 Revision

0.9 – 1.2°C

MC32041: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32041 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/11/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 2 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC32041: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32041

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32041-1 Collected: 10-JUL-14 10:15 By: BKCW Received: 11-JUL-14 By: MW6D-ROX-071014						
MC32041-1	SW846 8011	16-JUL-14 20:09	NK	15-JUL-14	MT	V8011SL
MC32041-1	SW846 8260C	21-JUL-14 19:02	AMY			V8260SL+
MC32041-1	SW846 8270D	23-JUL-14 15:17	WK	11-JUL-14	MD	AB8270SL+
MC32041-1	SW846 8270D BY SIM	24-JUL-14 00:33	WK	11-JUL-14	MD	B8270SIMSL
MC32041-2 Collected: 10-JUL-14 10:15 By: BKCW Received: 11-JUL-14 By: MW6D-ROX-071014-DUP						
MC32041-2	SW846 8011	16-JUL-14 20:28	NK	15-JUL-14	MT	V8011SL
MC32041-2	SW846 8260C	21-JUL-14 19:29	AMY			V8260SL+
MC32041-2	SW846 8270D	23-JUL-14 15:41	WK	11-JUL-14	MD	AB8270SL+
MC32041-2	SW846 8270D BY SIM	24-JUL-14 00:58	WK	11-JUL-14	MD	B8270SIMSL
MC32041-3 Collected: 10-JUL-14 11:10 By: BKCW Received: 11-JUL-14 By: MW6C-ROX-071014						
MC32041-3	SW846 8011	16-JUL-14 20:47	NK	15-JUL-14	MT	V8011SL
MC32041-3	SW846 8260C	21-JUL-14 19:54	AMY			V8260SL+
MC32041-3	SW846 8270D	23-JUL-14 16:05	WK	11-JUL-14	MD	AB8270SL+
MC32041-3	SW846 8270D BY SIM	24-JUL-14 01:23	WK	11-JUL-14	MD	B8270SIMSL
MC32041-4 Collected: 10-JUL-14 12:00 By: BKCW Received: 11-JUL-14 By: MW6B-ROX-071014						
MC32041-4	SW846 8011	16-JUL-14 21:07	NK	15-JUL-14	MT	V8011SL
MC32041-4	SW846 8260C	21-JUL-14 20:21	AMY			V8260SL+
MC32041-4	SW846 8270D	23-JUL-14 16:28	WK	11-JUL-14	MD	AB8270SL+
MC32041-4	SW846 8270D BY SIM	24-JUL-14 01:49	WK	11-JUL-14	MD	B8270SIMSL
MC32041-5 Collected: 10-JUL-14 12:20 By: BKCW Received: 11-JUL-14 By: MW6A-ROX-071014-EB						
MC32041-5	SW846 8011	16-JUL-14 21:26	NK	15-JUL-14	MT	V8011SL
MC32041-5	SW846 8260C	21-JUL-14 12:23	AMY			V8260SL+
MC32041-5	SW846 8270D	23-JUL-14 16:52	WK	11-JUL-14	MD	AB8270SL+
MC32041-5	SW846 8270D BY SIM	24-JUL-14 02:14	WK	11-JUL-14	MD	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32041

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32041-6 Collected: 10-JUL-14 13:00 By: BKCW Received: 11-JUL-14 By: MW6A-ROX-071014						
MC32041-6	SW846 8011	16-JUL-14 21:45	NK	15-JUL-14	MT	V8011SL
MC32041-6	SW846 8260C	21-JUL-14 20:47	AMY			V8260SL+
MC32041-6	SW846 8270D	23-JUL-14 17:16	WK	11-JUL-14	MD	AB8270SL+
MC32041-6	SW846 8270D BY SIM	24-JUL-14 02:39	WK	11-JUL-14	MD	B8270SIMSL
MC32041-7 Collected: 10-JUL-14 15:55 By: BKCW Received: 11-JUL-14 By: MW16-ROX-071014						
MC32041-7	SW846 8011	16-JUL-14 22:05	NK	15-JUL-14	MT	V8011SL
MC32041-7	SW846 8260C	21-JUL-14 21:14	AMY			V8260SL+
MC32041-7	SW846 8270D	23-JUL-14 17:40	WK	11-JUL-14	MD	AB8270SL+
MC32041-7	SW846 8270D BY SIM	24-JUL-14 03:04	WK	11-JUL-14	MD	B8270SIMSL
MC32041-8 Collected: 10-JUL-14 00:00 By: BKCW Received: 11-JUL-14 By: TB-071014-HCL						
MC32041-8	SW846 8260C	21-JUL-14 11:56	AMY			V8260SL+
MC32041-9 Collected: 10-JUL-14 00:00 By: BKCW Received: 11-JUL-14 By: TB-071014-ST						
MC32041-9	SW846 8011	16-JUL-14 22:24	NK	15-JUL-14	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/11/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32041-1.2	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-1.2	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-1.4	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-1.4	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-1.4	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-1.4	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-1.4	Scott Parsick		09/25/14 16:09	Disposed
MC32041-1.6	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-1.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-2.2	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-2.2	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-2.3	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-2.3	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-2.3	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-2.3	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-2.3	Scott Parsick		09/25/14 16:09	Disposed
MC32041-2.6	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-2.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-3.1	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-3.1	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-3.4	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-3.4	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-3.4	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-3.4	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-3.4	Scott Parsick		09/25/14 16:09	Disposed
MC32041-3.6	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-3.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-4.2	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-4.2	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-4.4	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-4.4	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-4.4	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-4.4	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-4.4	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/11/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32041-4.5	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-4.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-5.1	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-5.1	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-5.3	VOC Ref #4	Amy Min Yang	07/21/14 10:28	Retrieve from Storage
MC32041-5.3	Amy Min Yang	GCMSV	07/21/14 10:28	Load on Instrument
MC32041-5.3	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-5.3	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-5.3	Scott Parsick		09/25/14 16:09	Disposed
MC32041-5.5	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-5.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-6.1	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-6.1	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-6.4	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-6.4	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-6.4	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-6.4	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-6.4	Scott Parsick		09/25/14 16:09	Disposed
MC32041-6.6	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-6.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-7.1	Walk In Ref #22	Marc Tahtamoni	07/11/14 20:03	Retrieve from Storage
MC32041-7.1	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-7.4	VOC Ref #4	Amy Min Yang	07/21/14 11:51	Retrieve from Storage
MC32041-7.4	Amy Min Yang	GCMSV	07/21/14 11:51	Load on Instrument
MC32041-7.4	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-7.4	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage
MC32041-7.4	Scott Parsick		09/25/14 16:09	Disposed
MC32041-7.5	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-7.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32041-8.1	VOC Ref #4	Amy Min Yang	07/21/14 10:28	Retrieve from Storage
MC32041-8.1	Amy Min Yang	GCMSV	07/21/14 10:28	Load on Instrument
MC32041-8.1	GCMSV	Amy Min Yang	07/22/14 15:17	Unload from Instrument
MC32041-8.1	Amy Min Yang	VOC Ref #4	07/22/14 15:17	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/11/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32041-8.1	Scott Parsick		09/25/14 16:09	Disposed
MC32041-9.2	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32041-9.2	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-MB	V33057.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	31.2	62* [a]	70-130
107-02-8	Acrolein	250	262	105	70-130
107-13-1	Acrylonitrile	50	55.5	111	70-130
71-43-2	Benzene	50	53.1	106	70-130
108-86-1	Bromobenzene	50	50.6	101	70-130
74-97-5	Bromochloromethane	50	50.2	100	70-130
75-27-4	Bromodichloromethane	50	55.1	110	70-130
75-25-2	Bromoform	50	50.9	102	70-130
74-83-9	Bromomethane	50	80.5	161* [a]	70-130
78-93-3	2-Butanone (MEK)	50	38.5	77	70-130
104-51-8	n-Butylbenzene	50	56.0	112	70-130
135-98-8	sec-Butylbenzene	50	58.3	117	70-130
98-06-6	tert-Butylbenzene	50	55.7	111	70-130
75-15-0	Carbon disulfide	50	44.8	90	70-130
56-23-5	Carbon tetrachloride	50	62.8	126	70-130
108-90-7	Chlorobenzene	50	51.0	102	70-130
75-00-3	Chloroethane	50	82.9	166* [b]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	39.0	78	70-130
67-66-3	Chloroform	50	54.5	109	70-130
74-87-3	Chloromethane	50	83.4	167* [a]	70-130
95-49-8	o-Chlorotoluene	50	54.9	110	70-130
106-43-4	p-Chlorotoluene	50	55.5	111	70-130
124-48-1	Dibromochloromethane	50	49.1	98	70-130
95-50-1	1,2-Dichlorobenzene	50	52.7	105	70-130
541-73-1	1,3-Dichlorobenzene	50	52.5	105	70-130
106-46-7	1,4-Dichlorobenzene	50	51.4	103	70-130
75-71-8	Dichlorodifluoromethane	50	52.9	106	70-130
75-34-3	1,1-Dichloroethane	50	60.0	120	70-130
107-06-2	1,2-Dichloroethane	50	56.9	114	70-130
75-35-4	1,1-Dichloroethene	50	56.3	113	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.0	106	70-130
156-60-5	trans-1,2-Dichloroethene	50	58.8	118	70-130
78-87-5	1,2-Dichloropropane	50	50.7	101	70-130
142-28-9	1,3-Dichloropropane	50	50.5	101	70-130
594-20-7	2,2-Dichloropropane	50	64.7	129	70-130
563-58-6	1,1-Dichloropropene	50	56.3	113	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.1	108	70-130
10061-02-6	trans-1,3-Dichloropropene	50	59.1	118	70-130
123-91-1	1,4-Dioxane	250	250	100	70-130
97-63-2	Ethyl methacrylate	50	41.5	83	77-137
100-41-4	Ethylbenzene	50	54.8	110	70-130
87-68-3	Hexachlorobutadiene	50	48.1	96	70-130
591-78-6	2-Hexanone	50	36.5	73	70-130
98-82-8	Isopropylbenzene	50	59.7	119	70-130
99-87-6	p-Isopropyltoluene	50	58.1	116	70-130
1634-04-4	Methyl Tert Butyl Ether	50	59.1	118	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.3	95	70-130
74-95-3	Methylene bromide	50	49.7	99	70-130
75-09-2	Methylene chloride	50	57.2	114	70-130
91-20-3	Naphthalene	50	41.7	83	70-130
103-65-1	n-Propylbenzene	50	56.9	114	70-130
100-42-5	Styrene	50	50.9	102	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	55.8	112	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	53.3	107	70-130
127-18-4	Tetrachloroethene	50	50.7	101	70-130
108-88-3	Toluene	50	50.0	100	70-130
87-61-6	1,2,3-Trichlorobenzene	50	45.1	90	70-130
120-82-1	1,2,4-Trichlorobenzene	50	46.4	93	70-130
71-55-6	1,1,1-Trichloroethane	50	58.0	116	70-130
79-00-5	1,1,2-Trichloroethane	50	48.8	98	70-130
79-01-6	Trichloroethene	50	48.4	97	70-130
75-69-4	Trichlorofluoromethane	50	70.9	142* [a]	70-130
96-18-4	1,2,3-Trichloropropane	50	55.3	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	55.7	111	70-130
108-67-8	1,3,5-Trimethylbenzene	50	55.7	111	70-130
108-05-4	Vinyl Acetate	50	55.9	112	70-130
75-01-4	Vinyl chloride	50	77.9	156* [b]	70-130
	m,p-Xylene	100	107	107	70-130
95-47-6	o-Xylene	50	54.7	109	70-130
1330-20-7	Xylene (total)	150	162	108	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1221-BS	V33055.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	34.6	69* [a]	50	37.4	75	8	70-130/30
107-02-8	Acrolein	ND		250	271	108	250	282	113	4	70-130/30
107-13-1	Acrylonitrile	ND		50	59.6	119	50	59.0	118	1	70-130/30
71-43-2	Benzene	ND		50	53.6	107	50	52.7	105	2	70-130/30
108-86-1	Bromobenzene	ND		50	48.7	97	50	48.7	97	0	70-130/30
74-97-5	Bromochloromethane	ND		50	50.2	100	50	50.1	100	0	70-130/30
75-27-4	Bromodichloromethane	ND		50	56.6	113	50	54.7	109	3	70-130/30
75-25-2	Bromoform	ND		50	54.1	108	50	51.8	104	4	70-130/30
74-83-9	Bromomethane	ND		50	88.6	177* [a]	50	85.1	170* [a]	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	37.0	74	50	37.3	75	1	70-130/30
104-51-8	n-Butylbenzene	ND		50	52.4	105	50	51.2	102	2	70-130/30
135-98-8	sec-Butylbenzene	ND		50	54.5	109	50	53.5	107	2	70-130/30
98-06-6	tert-Butylbenzene	ND		50	51.2	102	50	50.4	101	2	70-130/30
75-15-0	Carbon disulfide	ND		50	46.2	92	50	45.5	91	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	67.0	134* [a]	50	63.1	126	6	70-130/30
108-90-7	Chlorobenzene	ND		50	51.3	103	50	49.9	100	3	70-130/30
75-00-3	Chloroethane	ND		50	94.7	189* [b]	50	91.5	183* [b]	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	50	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		50	55.5	111	50	54.0	108	3	70-130/30
74-87-3	Chloromethane	ND		50	87.3	175* [a]	50	82.6	165* [a]	6	70-130/30
95-49-8	o-Chlorotoluene	ND		50	53.1	106	50	52.1	104	2	70-130/30
106-43-4	p-Chlorotoluene	ND		50	54.1	108	50	53.4	107	1	70-130/30
124-48-1	Dibromochloromethane	ND		50	51.1	102	50	49.3	99	4	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.3	103	50	49.9	100	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	50.7	101	50	49.4	99	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.8	100	50	48.8	98	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	55.7	111	50	56.9	114	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	60.6	121	50	60.5	121	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	59.3	119	50	57.3	115	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	57.6	115	50	57.0	114	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	51.1	102	50	52.0	104	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	59.9	120	50	59.5	119	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	50.9	102	50	49.8	100	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	49.6	99	50	49.3	99	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	64.8	130	50	62.3	125	4	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	56.5	113	50	55.0	110	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.9	98	50	48.9	98	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	58.5	117	50	57.6	115	2	70-130/30
123-91-1	1,4-Dioxane	ND		250	250	100	250	243	97	3	70-130/30
97-63-2	Ethyl methacrylate	ND		50	40.6	81	50	40.8	82	0	72-139/30
100-41-4	Ethylbenzene	ND		50	54.7	109	50	52.9	106	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		50	43.0	86	50	43.0	86	0	70-130/30
591-78-6	2-Hexanone	ND		50	38.8	78	50	37.9	76	2	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.3	111	50	55.7	111	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		50	53.8	108	50	53.2	106	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	3.5		50	60.8	115	50	61.8	117	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	48.1	96	50	46.3	93	4	70-130/30
74-95-3	Methylene bromide	ND		50	51.4	103	50	49.4	99	4	70-130/30
75-09-2	Methylene chloride	ND		50	58.8	118	50	58.1	116	1	70-130/30
91-20-3	Naphthalene	ND		50	36.8	74	50	39.3	79	7	70-130/30
103-65-1	n-Propylbenzene	ND		50	54.1	108	50	53.3	107	1	70-130/30
100-42-5	Styrene	ND		50	51.6	103	50	49.9	100	3	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	56.1	112	50	54.2	108	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.3	107	50	52.2	104	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.7	99	50	48.3	97	3	70-130/30
108-88-3	Toluene	ND		50	49.8	100	50	48.1	96	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	38.6	77	50	40.9	82	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	40.5	81	50	41.9	84	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	57.8	116	50	55.2	110	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	49.4	99	50	47.8	96	3	70-130/30
79-01-6	Trichloroethene	ND		50	48.7	97	50	47.6	95	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	88.1	176* [a]	50	80.8	162* [a]	9	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		50	55.3	111	50	54.3	109	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		50	52.8	106	50	52.0	104	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		50	53.2	106	50	52.0	104	2	70-130/30
108-05-4	Vinyl Acetate	ND		50	56.4	113	50	56.1	112	1	70-130/30
75-01-4	Vinyl chloride	ND		50	84.4	169* [b]	50	82.7	165* [b]	2	70-130/30
	m,p-Xylene	ND		100	108	108	100	104	104	4	70-130/30
95-47-6	o-Xylene	ND		50	53.9	108	50	52.7	105	2	70-130/30
1330-20-7	Xylene (total)	ND		150	162	108	150	157	105	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31999-1MS	V33065.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1MSD	V33066.D	1	07/21/14	AMY	n/a	n/a	MSV1221
MC31999-1	V33062.D	1	07/21/14	AMY	n/a	n/a	MSV1221

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

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-8

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	123%	70-130%
2037-26-5	Toluene-D8	93%	91%	93%	70-130%
460-00-4	4-Bromofluorobenzene	93%	95%	101%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1221-CC1177	**Injection Date:**	07/21/14
Lab File ID:	V33055.D	**Injection Time:**	09:46
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	401863	6.54	508277	7.72	184048	11.07	244887	13.28	79484	3.49
Upper Limit [a]	803726	7.04	1016554	8.22	368096	11.57	489774	13.78	158968	3.99
Lower Limit [b]	200932	6.04	254139	7.22	92024	10.57	122444	12.78	39742	2.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1221-BS	401863	6.54	508277	7.72	184048	11.07	244887	13.28	79484	3.49
MSV1221-MB	261400	6.54	352622	7.72	137832	11.07	153595	13.28	66613	3.49
ZZZZZZ	251792	6.54	345190	7.73	136035	11.07	146350	13.28	56539	3.50
ZZZZZZ	224181	6.54	307907	7.73	126393	11.07	137932	13.28	54585	3.49
MC32041-8	247145	6.55	342825	7.73	137598	11.07	145735	13.28	54548	3.50
MC32041-5	232857	6.55	320962	7.73	132249	11.07	141046	13.28	54085	3.50
MC31999-1	245453	6.55	340370	7.73	133722	11.07	142451	13.28	59640	3.50
ZZZZZZ	239403	6.55	421084	7.73	142954	11.07	150830	13.28	53260	3.50
MC31999-1MS	382051	6.54	468165	7.73	171760	11.07	240391	13.28	80781	3.50
MC31999-1MSD	423651	6.54	520451	7.73	187320	11.07	253886	13.28	89238	3.50
MC31990-2MS	628980	6.54	786539	7.73	270930	11.07	386051	13.29	130817	3.50
MC31990-2MSD	532245	6.55	674442	7.73	238491	11.07	322234	13.29	114781	3.50
ZZZZZZ	353028	6.55	496011	7.73	178385	11.07	192723	13.29	85884	3.51
MC31990-2	324944	6.55	446696	7.73	169610	11.07	180998	13.29	81707	3.50
ZZZZZZ	292005	6.55	399118	7.73	150485	11.07	161632	13.29	78470	3.50
ZZZZZZ	267761	6.55	361190	7.73	141603	11.07	150939	13.29	71105	3.50
ZZZZZZ	316441	6.55	397464	7.73	152322	11.07	158016	13.29	87209	3.50
ZZZZZZ	242532	6.54	337194	7.73	136864	11.07	147838	13.29	64160	3.49
MC32041-1	247791	6.55	345214	7.73	135933	11.07	146403	13.29	66260	3.50
MC32041-2	231514	6.54	323287	7.73	130269	11.07	140531	13.29	59277	3.49
MC32041-3	213270	6.54	300029	7.73	122023	11.07	131468	13.29	55721	3.49
MC32041-4	232827	6.55	329910	7.73	132578	11.07	142506	13.29	58381	3.50
MC32041-6	248706	6.55	343424	7.73	133658	11.07	146520	13.28	64230	3.50
MC32041-7	227439	6.54	313942	7.73	122940	11.07	131023	13.28	54322	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32041-1	V33075.D	122	94	100
MC32041-2	V33076.D	125	95	100
MC32041-3	V33077.D	123	96	100
MC32041-4	V33078.D	127	95	101
MC32041-5	V33061.D	119	96	100
MC32041-6	V33079.D	123	93	103
MC32041-7	V33080.D	126	94	102
MC32041-8	V33060.D	120	94	102
MC31999-1MS	V33065.D	101	93	93
MC31999-1MSD	V33066.D	100	91	95
MSV1221-BS	V33055.D	98	92	94
MSV1221-MB	V33057.D	113	93	101

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MB	X03878.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.24	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MB	X03878.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	74%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	85%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-MB	R39473.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	0.075	0.20	0.074	ug/l	J
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	87%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	61%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-BS	X03879.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	16.1	32	30-130
95-57-8	2-Chlorophenol	50	43.1	86	30-130
59-50-7	4-Chloro-3-methyl phenol	50	44.4	89	30-130
120-83-2	2,4-Dichlorophenol	50	45.5	91	30-130
105-67-9	2,4-Dimethylphenol	50	42.3	85	30-130
51-28-5	2,4-Dinitrophenol	50	14.1	28* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	50	22.4	45	30-130
95-48-7	2-Methylphenol	50	38.3	77	30-130
	3&4-Methylphenol	100	69.2	69	30-130
88-75-5	2-Nitrophenol	50	46.0	92	30-130
100-02-7	4-Nitrophenol	50	17.9	36	30-130
87-86-5	Pentachlorophenol	50	38.2	76	30-130
108-95-2	Phenol	50	21.5	43	30-130
95-95-4	2,4,5-Trichlorophenol	50	48.3	97	30-130
88-06-2	2,4,6-Trichlorophenol	50	47.6	95	30-130
62-53-3	Aniline	50	33.3	67	40-140
101-55-3	4-Bromophenyl phenyl ether	50	51.3	103	40-140
85-68-7	Butyl benzyl phthalate	50	48.7	97	40-140
100-51-6	Benzyl Alcohol	50	33.6	67	40-140
91-58-7	2-Chloronaphthalene	50	45.0	90	40-140
106-47-8	4-Chloroaniline	50	41.9	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	44.7	89	40-140
111-44-4	bis(2-Chloroethyl)ether	50	45.5	91	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	43.9	88	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	47.5	95	40-140
122-66-7	1,2-Diphenylhydrazine	50	47.6	95	40-140
121-14-2	2,4-Dinitrotoluene	50	50.9	102	40-140
606-20-2	2,6-Dinitrotoluene	50	50.9	102	40-140
91-94-1	3,3'-Dichlorobenzidine	50	46.9	94	40-140
132-64-9	Dibenzofuran	50	42.2	84	40-140
84-74-2	Di-n-butyl phthalate	50	45.0	90	40-140
117-84-0	Di-n-octyl phthalate	50	55.7	111	40-140
84-66-2	Diethyl phthalate	50	49.1	98	40-140
131-11-3	Dimethyl phthalate	50	49.2	98	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.7	105	40-140
118-74-1	Hexachlorobenzene	50	50.0	100	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-BS	X03879.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	18.8	38* [a]	40-140
67-72-1	Hexachloroethane	50	33.6	67	40-140
78-59-1	Isophorone	50	41.7	83	40-140
88-74-4	2-Nitroaniline	50	50.1	100	40-140
99-09-2	3-Nitroaniline	50	45.4	91	40-140
100-01-6	4-Nitroaniline	50	43.9	88	40-140
98-95-3	Nitrobenzene	50	45.9	92	40-140
62-75-9	n-Nitrosodimethylamine	50	23.1	46	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	46.7	93	40-140
86-30-6	N-Nitrosodiphenylamine	50	44.2	88	40-140
110-86-1	Pyridine	50	21.3	43	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	15-110%
4165-62-2	Phenol-d5	33%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	15-110%
4165-60-0	Nitrobenzene-d5	87%	30-130%
321-60-8	2-Fluorobiphenyl	82%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-BS	R39474.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	41.7	83	40-140
208-96-8	Acenaphthylene	50	37.1	74	40-140
120-12-7	Anthracene	50	42.9	86	40-140
56-55-3	Benzo(a)anthracene	50	47.1	94	40-140
50-32-8	Benzo(a)pyrene	50	48.2	96	40-140
205-99-2	Benzo(b)fluoranthene	50	50.0	100	40-140
191-24-2	Benzo(g,h,i)perylene	50	51.4	103	40-140
207-08-9	Benzo(k)fluoranthene	50	49.8	100	40-140
218-01-9	Chrysene	50	43.6	87	40-140
53-70-3	Dibenzo(a,h)anthracene	50	52.3	105	40-140
206-44-0	Fluoranthene	50	42.8	86	40-140
86-73-7	Fluorene	50	48.6	97	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	53.2	106	40-140
90-12-0	1-Methylnaphthalene	50	43.2	86	40-140
91-57-6	2-Methylnaphthalene	50	42.4	85	40-140
85-01-8	Phenanthrene	50	42.4	85	40-140
129-00-0	Pyrene	50	41.7	83	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	15-110%
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	66%	30-130%
1718-51-0	Terphenyl-d14	76%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MS	X03880.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
OP38921-MSD	X03881.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
MC31999-1	X03882.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: Method: SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		55.6	23.1	42	55.6	22.4	40	3	30-130/20
95-57-8	2-Chlorophenol	ND		55.6	45.1	81	55.6	45.8	82	2	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		55.6	48.5	87	55.6	45.6	82	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND		55.6	48.5	87	55.6	47.2	85	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND		55.6	48.0	86	55.6	46.8	84	3	30-130/20
51-28-5	2,4-Dinitrophenol	ND		55.6	25.3	46	55.6	27.1	49	7	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		55.6	35.7	64	55.6	35.9	65	1	30-130/20
95-48-7	2-Methylphenol	ND		55.6	40.9	74	55.6	40.5	73	1	30-130/20
	3&4-Methylphenol	ND		111	72.7	65	111	74.3	67	2	30-130/20
88-75-5	2-Nitrophenol	ND		55.6	48.4	87	55.6	47.6	86	2	30-130/20
100-02-7	4-Nitrophenol	ND		55.6	21.2	38	55.6	22.0	40	4	30-130/20
87-86-5	Pentachlorophenol	ND		55.6	46.4	84	55.6	44.3	80	5	30-130/20
108-95-2	Phenol	ND		55.6	22.5	41	55.6	23.0	41	2	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		55.6	54.5	98	55.6	49.6	89	9	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		55.6	51.3	92	55.6	49.7	89	3	30-130/20
62-53-3	Aniline	ND		55.6	35.5	64	55.6	32.3	58	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		55.6	57.5	104	55.6	54.8	99	5	40-140/20
85-68-7	Butyl benzyl phthalate	ND		55.6	53.5	96	55.6	49.8	90	7	40-140/20
100-51-6	Benzyl Alcohol	ND		55.6	33.8	61	55.6	35.7	64	5	40-140/20
91-58-7	2-Chloronaphthalene	ND		55.6	50.3	91	55.6	49.3	89	2	40-140/20
106-47-8	4-Chloroaniline	ND		55.6	47.4	85	55.6	40.9	74	15	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		55.6	47.2	85	55.6	45.6	82	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		55.6	47.7	86	55.6	46.5	84	3	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		55.6	46.9	84	55.6	46.1	83	2	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		55.6	54.2	98	55.6	50.1	90	8	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		55.6	53.4	96	55.6	46.7	84	13	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		55.6	57.2	103	55.6	52.1	94	9	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		55.6	55.9	101	55.6	52.9	95	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		55.6	44.1	79	55.6	32.9	59	29* [a]	40-140/20
132-64-9	Dibenzofuran	ND		55.6	47.1	85	55.6	44.0	79	7	40-140/20
84-74-2	Di-n-butyl phthalate	1.6	JB	55.6	50.7	88	55.6	49.2	86	3	40-140/20
117-84-0	Di-n-octyl phthalate	ND		55.6	62.3	112	55.6	59.2	107	5	40-140/20
84-66-2	Diethyl phthalate	ND		55.6	54.7	98	55.6	50.6	91	8	40-140/20
131-11-3	Dimethyl phthalate	ND		55.6	55.5	100	55.6	51.6	93	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		55.6	58.2	105	55.6	54.8	99	6	40-140/20
118-74-1	Hexachlorobenzene	ND		55.6	57.5	104	55.6	53.7	97	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38921-MS	X03880.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
OP38921-MSD	X03881.D	1	07/23/14	WK	07/11/14	OP38921	MSX128
MC31999-1	X03882.D	1	07/23/14	WK	07/11/14	OP38921	MSX128

The QC reported here applies to the following samples: Method: SW846 8270D

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		55.6	23.3	42	55.6	24.1	43	3	40-140/20
67-72-1	Hexachloroethane	ND		55.6	46.4	84	55.6	47.4	85	2	40-140/20
78-59-1	Isophorone	ND		55.6	44.6	80	55.6	42.5	77	5	40-140/20
88-74-4	2-Nitroaniline	ND		55.6	56.3	101	55.6	51.8	93	8	40-140/20
99-09-2	3-Nitroaniline	ND		55.6	51.5	93	55.6	47.2	85	9	40-140/20
100-01-6	4-Nitroaniline	ND		55.6	48.2	87	55.6	44.2	80	9	40-140/20
98-95-3	Nitrobenzene	ND		55.6	48.5	87	55.6	47.0	85	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		55.6	26.6	48	55.6	27.1	49	2	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		55.6	49.3	89	55.6	47.8	86	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		55.6	49.9	90	55.6	47.4	85	5	40-140/20
110-86-1	Pyridine	ND		55.6	24.2	44	55.6	22.5	41	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
367-12-4	2-Fluorophenol	45%	46%	48%	15-110%
4165-62-2	Phenol-d5	32%	32%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	84%	89%	15-110%
4165-60-0	Nitrobenzene-d5	83%	80%	86%	30-130%
321-60-8	2-Fluorobiphenyl	77%	76%	80%	30-130%
1718-51-0	Terphenyl-d14	87%	79%	88%	30-130%

(a) High RPD due to possible matrix interference and/or sample heterogeneity.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38922-MS	R39475.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
OP38922-MSD	R39476.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454
MC31999-1	R39477.D	1	07/23/14	WK	07/11/14	OP38922	MSR1454

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7

CAS No.	Compound	MC31999-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		55.6	45.9	83	55.6	43.2	78	6	40-140/20
208-96-8	Acenaphthylene	ND		55.6	40.9	74	55.6	38.4	69	6	40-140/20
120-12-7	Anthracene	ND		55.6	47.9	86	55.6	44.3	80	8	40-140/20
56-55-3	Benzo(a)anthracene	ND		55.6	51.4	93	55.6	48.4	87	6	40-140/20
50-32-8	Benzo(a)pyrene	ND		55.6	51.9	93	55.6	48.9	88	6	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		55.6	53.9	97	55.6	49.7	89	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		55.6	59.4	107	55.6	53.7	97	10	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		55.6	55.1	99	55.6	50.0	90	10	40-140/20
218-01-9	Chrysene	ND		55.6	48.3	87	55.6	44.9	81	7	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		55.6	60.4	109	55.6	54.8	99	10	40-140/20
206-44-0	Fluoranthene	ND		55.6	45.5	82	55.6	44.6	80	2	40-140/20
86-73-7	Fluorene	ND		55.6	54.2	98	55.6	49.3	89	9	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		55.6	60.3	109	55.6	54.7	98	10	40-140/20
90-12-0	1-Methylnaphthalene	0.085	J	55.6	49.3	89	55.6	46.7	84	5	40-140/20
91-57-6	2-Methylnaphthalene	0.12	JB	55.6	48.3	87	55.6	46.1	83	5	40-140/20
85-01-8	Phenanthrene	ND		55.6	47.3	85	55.6	43.7	79	8	40-140/20
129-00-0	Pyrene	ND		55.6	44.8	81	55.6	43.6	78	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC31999-1	Limits
4165-60-0	Nitrobenzene-d5	72%	71%	77%	30-130%
321-60-8	2-Fluorobiphenyl	62%	61%	69%	30-130%
1718-51-0	Terphenyl-d14	72%	70%	75%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3295-CC3270	**Injection Date:**	07/23/14
Lab File ID:	F74792.D	**Injection Time:**	14:53
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	199308	3.35	676153	4.38	477871	5.88	903230	7.14	1167947	9.48	1101409	10.99
Upper Limit [a]	398616	3.85	1352306	4.88	955742	6.38	1806460	7.64	2335894	9.98	2202818	11.49
Lower Limit [b]	99654	2.85	338077	3.88	238936	5.38	451615	6.64	583974	8.98	550705	10.49

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC32041-1	245008	3.35	811914	4.38	559997	5.88	1059685	7.13	1239373	9.47	1291276	10.99
MC32041-2	208161	3.35	713811	4.38	505367	5.88	962456	7.13	1169206	9.47	1189285	10.98
MC32041-3	207423	3.35	694439	4.38	492153	5.88	937161	7.13	1172586	9.47	1221818	10.99
MC32041-4	220627	3.35	752943	4.38	539095	5.88	1032519	7.13	1267358	9.47	1292246	10.99
MC32041-5	205930	3.35	703846	4.38	498242	5.88	968735	7.13	1174905	9.47	1196265	10.98
MC32041-6	199661	3.35	692637	4.38	495535	5.88	965092	7.13	1249828	9.48	1321102	10.99
MC32041-7	223232	3.35	750517	4.38	520605	5.88	998497	7.13	1217765	9.47	1232469	10.98
ZZZZZZ	220420	3.35	761153	4.38	531746	5.88	1015977	7.13	1348448	9.48	1349088	10.99
ZZZZZZ	263008	3.35	891689	4.38	579319	5.88	1049460	7.13	1213115	9.48	1235071	10.99
ZZZZZZ	257561	3.35	845483	4.38	571954	5.88	1033095	7.13	1137362	9.47	1117497	10.98
ZZZZZZ	265026	3.35	875512	4.38	586202	5.88	1053223	7.13	1149556	9.47	1125923	10.98
ZZZZZZ	257372	3.35	856873	4.38	579725	5.88	1033988	7.13	1124056	9.47	1084502	10.98
ZZZZZZ	249383	3.35	828106	4.38	555956	5.88	1006167	7.13	1092575	9.47	1071256	10.98
ZZZZZZ	274862	3.35	880506	4.38	581990	5.88	1029595	7.13	1114558	9.47	1145785	10.98
ZZZZZZ	232747	3.35	770941	4.38	515390	5.88	923102	7.13	1011696	9.47	1017844	10.98
ZZZZZZ	240789	3.35	804842	4.38	531373	5.88	961971	7.13	1043840	9.47	1035336	10.98
ZZZZZZ	233267	3.35	785891	4.38	509326	5.88	924860	7.13	997725	9.47	997893	10.98
ZZZZZZ	237861	3.35	786172	4.38	516480	5.87	923920	7.13	977240	9.47	977608	10.98
ZZZZZZ	213437	3.35	714069	4.38	475883	5.88	856293	7.13	945533	9.47	948417	10.98
ZZZZZZ	222729	3.35	741291	4.38	493023	5.87	886145	7.13	985673	9.47	979876	10.98
OP39018-MB	185985	3.35	621010	4.38	418868	5.88	817568	7.13	971431	9.47	1027443	10.98
OP39018-BS	183695	3.35	638229	4.38	435921	5.88	789235	7.13	1069546	9.47	1003094	10.98
OP39018-MS [c]	190286	3.35	671106	4.38	465374	5.88	895210	7.13	1340054	9.48	1507705	11.00
OP39018-MSD [c]	209048	3.35	717817	4.38	504777	5.88	957358	7.13	1371724	9.47	1578890	11.00
MC32193-2	223240	3.35	754787	4.38	511412	5.87	970556	7.13	1377180	9.48	1577099	11.00
ZZZZZZ	234800	3.35	788507	4.38	544720	5.88	1017749	7.13	1365903	9.47	1595125	11.00

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3295-CC3270	**Injection Date:**	07/23/14
Lab File ID:	F74792.D	**Injection Time:**	14:53
Instrument ID:	GCMSF	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Elevated RL due to dilution required for matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSR1454-CC1401	**Injection Date:**	07/23/14
Lab File ID:	R39472.D	**Injection Time:**	20:20
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	111885	5.13	471555	6.23	373778	7.78	840982	9.05	1100940	11.59	1876857	13.26
Upper Limit [a]	223770	5.63	943110	6.73	747556	8.28	1681964	9.55	2201880	12.09	3753714	13.76
Lower Limit [b]	55943	4.63	235778	5.73	186889	7.28	420491	8.55	550470	11.09	938429	12.76
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP38922-MB	203969	5.13	831907	6.23	613540	7.78	1248589	9.05	1444848	11.58	2385159	13.26
OP38922-BS	149354	5.13	640201	6.23	507660	7.78	1118192	9.06	1364150	11.59	2276167	13.27
OP38922-MS	102952	5.13	448036	6.23	361574	7.78	820212	9.05	1073671	11.59	1871400	13.26
OP38922-MSD	164665	5.13	704208	6.23	543535	7.78	1162857	9.06	1376968	11.59	2297612	13.27
MC31999-1	137591	5.13	584304	6.23	446522	7.78	957589	9.05	1201513	11.58	2071725	13.26
ZZZZZZ	264417[c]	5.13	1032893[c]	6.23	721229	7.78	1397477	9.05	1528025	11.59	2514567	13.26
ZZZZZZ	214642	5.13	854757	6.23	609266	7.78	1198616	9.05	1324511	11.58	2164446	13.26
ZZZZZZ	220582	5.13	860991	6.23	611802	7.77	1226248	9.05	1385934	11.58	2296432	13.26
ZZZZZZ	159177	5.13	650534	6.23	489753	7.78	1050886	9.05	1269183	11.58	2165721	13.26
MC32041-1	170550	5.13	685708	6.23	491266	7.78	1023927	9.05	1256031	11.58	2131126	13.26
MC32041-2	160227	5.13	647203	6.23	467923	7.77	960385	9.05	1133550	11.58	1909492	13.26
MC32041-3	151414	5.13	622988	6.23	453799	7.77	939250	9.05	1115040	11.58	1863303	13.26
MC32041-4	153505	5.13	629353	6.23	451817	7.77	940738	9.05	1144722	11.58	1952727	13.26
MC32041-5	168629	5.13	685842	6.23	513717	7.77	1069140	9.05	1261158	11.58	2141830	13.26
MC32041-6	137938	5.13	562926	6.23	407765	7.78	867391	9.05	1035982	11.59	1776443	13.27
MC32041-7	155663	5.13	629599	6.23	475581	7.77	1011741	9.05	1232154	11.58	2104986	13.26

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits.Sample results confirmed by reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX128-CC106	**Injection Date:**	07/23/14
Lab File ID:	X03856.D	**Injection Time:**	07:52
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	288726	3.61	1086265	4.65	590468	6.17	934953	7.45	763927	9.90	626735	11.50
Upper Limit [a]	577452	4.11	2172530	5.15	1180936	6.67	1869906	7.95	1527854	10.40	1253470	12.00
Lower Limit [b]	144363	3.11	543133	4.15	295234	5.67	467477	6.95	381964	9.40	313368	11.00
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP39049-MB	342567	3.61	1286522	4.65	704429	6.17	1083321	7.45	838821	9.90	657950	11.51
OP39049-BS	341521	3.61	1307837	4.65	704827	6.17	1082163	7.45	826063	9.90	706012	11.50
ZZZZZZ	346754	3.61	1302854	4.65	696262	6.17	1043727	7.45	760262	9.89	660460	11.50
ZZZZZZ	421114	3.61	1565082	4.65	783797	6.17	1113815	7.45	774016	9.90	626772	11.50
ZZZZZZ	363683	3.61	1331467	4.65	702634	6.17	1016912	7.45	732400	9.90	677547	11.50
ZZZZZZ	402153	3.61	1503744	4.65	801100	6.17	1191386	7.45	841647	9.90	717594	11.50
ZZZZZZ	414790	3.61	1524267	4.65	815827	6.17	1164203	7.45	793848	9.90	682768	11.50
ZZZZZZ	364406	3.61	1326016	4.66	670166	6.18	968032	7.48	703345	9.95	329857	11.56
ZZZZZZ	304210	3.61	1091518	4.66	610223	6.18	939614	7.46	667477	9.93	482746	11.54
OP39068-MB	320944	3.61	1211592	4.65	654332	6.17	974664	7.45	700372	9.90	557491	11.50
OP39068-BS	341032	3.61	1272191	4.66	664286	6.17	991387	7.45	757620	9.90	656765	11.51
MC31912-11	404131	3.61	1508914	4.65	795818	6.17	1134936	7.45	769168	9.90	653002	11.51
ZZZZZZ	288015	3.61	1053416	4.65	567765	6.17	851431	7.46	613595	9.92	514920	11.53
ZZZZZZ	326906	3.61	1203848	4.65	641074	6.17	899501	7.45	619501	9.90	542189	11.51
ZZZZZZ	297153	3.61	1115393	4.65	591339	6.17	874907	7.45	691778	9.90	564880	11.51
ZZZZZZ	357971	3.61	1360364	4.65	744115	6.17	1078946	7.45	732379	9.90	617831	11.51
ZZZZZZ	323736	3.61	1185044	4.65	613596	6.17	913714	7.45	652889	9.92	574461	11.53
OP38921-MB	358380	3.61	1335687	4.65	720023	6.17	1099567	7.45	861200	9.90	738847	11.51
OP38921-BS	405544	3.61	1512423	4.66	800420	6.18	1245543	7.46	1001453	9.91	836638	11.51
OP38921-MS	341989	3.61	1258212	4.66	675188	6.18	1053166	7.46	859950	9.91	702124	11.51
OP38921-MSD	401881	3.61	1501540	4.66	776521	6.18	1182420	7.45	979189	9.91	792303	11.51
MC31999-1	362228	3.61	1365593	4.65	742579	6.17	1107693	7.45	901617	9.90	765021	11.51
ZZZZZZ	363500	3.61	1347057	4.65	741168	6.17	1142957	7.45	906541	9.90	772685	11.51
ZZZZZZ	324610	3.61	1190647	4.65	654115	6.17	1007812	7.45	800117	9.90	667205	11.50
ZZZZZZ	356707	3.61	1325349	4.65	719700	6.17	1094677	7.45	881887	9.90	737719	11.50
ZZZZZZ	363441	3.61	1346762	4.65	715448	6.17	1085320	7.45	853114	9.90	727295	11.50

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX128-CC106	**Injection Date:**	07/23/14
Lab File ID:	X03856.D	**Injection Time:**	07:52
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32041-1	F74793.D	40	26	84	68	73	78
MC32041-2	F74794.D	42	29	95	73	75	87
MC32041-3	F74795.D	41	28	90	73	75	83
MC32041-4	F74796.D	40	27	90	72	75	80
MC32041-5	F74797.D	30	20	77	56	59	80
MC32041-6	F74798.D	41	28	95	73	75	72
MC32041-7	F74799.D	41	26	90	74	75	82
OP38921-BS	X03879.D	49	33	91	87	82	88
OP38921-MB	X03878.D	41	28	74	78	72	85
OP38921-MS	X03880.D	45	32	91	83	77	87
OP38921-MSD	X03881.D	46	32	84	80	76	79

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32041-1	R39482.D	69	65	70
MC32041-2	R39483.D	74	69	79
MC32041-3	R39484.D	74	69	76
MC32041-4	R39485.D	75	68	73
MC32041-5	R39486.D	58	54	73
MC32041-6	R39487.D	76	69	69
MC32041-7	R39488.D	78	66	74
OP38922-BS	R39474.D	77	66	76
OP38922-MB	R39473.D	69	61	76
OP38922-MS	R39475.D	72	62	72
OP38922-MSD	R39476.D	71	61	70

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38972-MB	BK39569A.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-9

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	158%	36-173%
460-00-4	Bromofluorobenzene (S)	148%	36-173%

Blank Spike Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38972-BS	BK39570A.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.090	127	60-140
106-93-4	1,2-Dibromoethane	0.071	0.088	124	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	139%	36-173%
460-00-4	Bromofluorobenzene (S)	124%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38972-MS	BK39571A.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
OP38972-MSD	BK39572A.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285
MC32000-12	BK39573A.D	1	07/16/14	NK	07/15/14	OP38972	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32041-1, MC32041-2, MC32041-3, MC32041-4, MC32041-5, MC32041-6, MC32041-7, MC32041-9

CAS No.	Compound	MC32000-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.0679	0.079	116	0.0681	0.074	109	7	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.0679	0.094	138	0.0681	0.089	131	5	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-12	Limits
460-00-4	Bromofluorobenzene (S)	141%	117%	134%	36-173%
460-00-4	Bromofluorobenzene (S)	134%	108%	131%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32041-1	BK39582.D	113	102
MC32041-2	BK39583.D	139	137
MC32041-3	BK39584.D	132	127
MC32041-4	BK39585.D	123	120
MC32041-5	BK39586.D	132	131
MC32041-6	BK39587.D	130	117
MC32041-7	BK39588.D	126	117
MC32041-9	BK39589.D	112	105
OP38972-BS	BK39570A.D	139	124
OP38972-MB	BK39569A.D	158	148
OP38972-MS	BK39571A.D	141	134
OP38972-MSD	BK39572A.D	117	108

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1285-CC1283	**Injection Date:**	07/16/14
Lab File ID:	BK39568.D	**Injection Time:**	15:24
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.38	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP38971-MB	BK39569.D	07/16/14	15:59	4.38	4.41
OP38972-MB	BK39569A.D	07/16/14	15:59	4.38	4.41
OP38972-BS	BK39570A.D	07/16/14	16:18	4.39	4.41
OP38971-BS	BK39570.D	07/16/14	16:18	4.39	4.41
OP38972-MS	BK39571A.D	07/16/14	16:37	4.39	4.41
OP38971-MS	BK39571.D	07/16/14	16:37	4.39	4.41
OP38971-MSD	BK39572.D	07/16/14	16:57	4.39	4.41
OP38972-MSD	BK39572A.D	07/16/14	16:57	4.39	4.41
MC32064-4	BK39573.D	07/16/14	17:16	4.39	4.41
MC32000-12	BK39573A.D	07/16/14	17:16	4.39	4.41
ZZZZZZ	BK39574.D	07/16/14	17:35	4.39	4.41
ZZZZZZ	BK39575.D	07/16/14	17:54	4.39	4.41
ZZZZZZ	BK39576.D	07/16/14	18:13	4.39	4.41
ZZZZZZ	BK39577.D	07/16/14	18:33	4.39	4.41
ZZZZZZ	BK39578.D	07/16/14	18:52	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32041
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1285-CC1283	**Injection Date:**	07/16/14
Lab File ID:	BK39579.D	**Injection Time:**	19:11
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK39580.D	07/16/14	19:30	4.39	4.41
ZZZZZZ	BK39581.D	07/16/14	19:50	4.39	4.42
MC32041-1	BK39582.D	07/16/14	20:09	4.39	4.42
MC32041-2	BK39583.D	07/16/14	20:28	4.39	4.41
MC32041-3	BK39584.D	07/16/14	20:47	4.39	4.42
MC32041-4	BK39585.D	07/16/14	21:07	4.39	4.41
MC32041-5	BK39586.D	07/16/14	21:26	4.39	4.41
MC32041-6	BK39587.D	07/16/14	21:45	4.39	4.41
MC32041-7	BK39588.D	07/16/14	22:05	4.39	4.41
MC32041-9	BK39589.D	07/16/14	22:24	4.39	4.42

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC32070

Sampling Date: 07/10/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 92

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 02, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC32070

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC32070

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC32070-1	07/10/14	09:50	BKCW	07/12/14	AQ	Ground Water	P54-ROX-071114
MC32070-2	07/10/14	10:55	BKCW	07/12/14	AQ	Ground Water	MW24-ROX-071114
MC32070-3	07/10/14	11:05	BKCW	07/12/14	AQ	Equipment Blank	MW3-ROX-071114-EB
MC32070-4	07/10/14	13:30	BKCW	07/12/14	AQ	Ground Water	MW3-ROX-071114
MC32070-5	07/10/14	14:30	BKCW	07/12/14	AQ	Ground Water	ROST4C-ROX-071114
MC32070-6	07/10/14	00:00	BKCW	07/12/14	AQ	Trip Blank Water	TB-071114-HCL
MC32070-7	07/10/14	00:00	BKCW	07/12/14	AQ	Trip Blank Water	TB-071114-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC32070

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** /2/20 6 : :55 PM

5 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 07/ 0/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 2/20 4 proper y preserved, at 0 8 Deg C and ntact These Samp es rece ved a job number of MC32070 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 223

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC3200 -5RMS, MC3200 -5RMSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane are outs de contro m ts
- Matr x Sp ke/Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, Acro e n, Acry on tr e, Bromomethane, Ch oroethane, Ch oromethane, Methy Tert Buty Ether, Tr ch orof uoromethane, V ny Acetate, V ny ch or de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- RPD(s) for MSD for 2-Ch oroethy v ny ether are outs de contro m ts for samp e MC3200 -5RMSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MSV 223-BS for V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Acetone, ,2,3-Tr ch orobenzene, 2-Butanone (MEK), 2-Ch oroethy v ny ether, Carbon d su f de, Naphtha ene: Cont nu ng Ca brat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP38939

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000-3MS, MC32000-3MSD were used as the QC samp es nd cated
- Samp e(s) MC32070- , MC32070-4, MC32070-5 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recove y(s) for 4-N tropheno , Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts
- Matr x Sp ke Recovery(s) for 4-N tropheno , Hexach orocyc opentad ene, Pyr d ne are outs de contro m ts Probab e cause due to matr x nte ference
- Matr x Sp ke Dup cate Recovery(s) for 4-N tropheno , Hexach orocyc opentad ene, n-N trosod methy am ne, Pyr d ne are outs de contro m ts Probab e cause due to matr x nterference

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38940

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000-7MS, MC32000-7MSD were used as the QC samp es nd cated
- Samp e(s) MC32070- , MC32070-3, MC32070-4, MC32070-5 have compound(s) reported w th a “B” qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP38973

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000- 3MS, MC32000- 3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC32070)

Summary of Hits

Job Number: MC32070
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/10/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32070-1	P54-ROX-071114					
Di-n-butyl phthalate		0.28 JB	5.4	0.19	ug/l	SW846 8270D
1-Methylnaphthalene		0.11 J	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.13 J	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.051 JB	0.054	0.014	ug/l	SW846 8270D BY SIM
MC32070-2	MW24-ROX-071114					
No hits reported in this sample.						
MC32070-3	MW3-ROX-071114-EB					
Phenanthrene		0.030 JB	0.050	0.013	ug/l	SW846 8270D BY SIM
MC32070-4	MW3-ROX-071114					
Benzene		0.62	0.50	0.32	ug/l	SW846 8260C
Di-n-butyl phthalate		0.28 JB	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		1.3 J	2.2	0.36	ug/l	SW846 8270D
Chrysene		0.028 J	0.10	0.024	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.067 J	0.20	0.050	ug/l	SW846 8270D BY SIM
Phenanthrene		0.030 JB	0.050	0.013	ug/l	SW846 8270D BY SIM
MC32070-5	ROST4C-ROX-071114					
Benzene		75.1	0.50	0.32	ug/l	SW846 8260C
Ethylbenzene		59.4	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		0.37 J	5.0	0.35	ug/l	SW846 8260C
Naphthalene [a]		10.4	5.0	0.69	ug/l	SW846 8260C
Toluene		42.1	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.82 J	5.0	0.32	ug/l	SW846 8260C
m,p-Xylene		57.4	1.0	0.93	ug/l	SW846 8260C
o-Xylene		81.5	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		139	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.31 JB	5.3	0.18	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.70 J	2.1	0.35	ug/l	SW846 8270D
1-Methylnaphthalene		0.21	0.20	0.050	ug/l	SW846 8270D BY SIM
Phenanthrene		0.12 B	0.050	0.013	ug/l	SW846 8270D BY SIM
MC32070-6	TB-071114-HCL					
No hits reported in this sample.						

Summary of Hits

Job Number: MC32070
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/10/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32070-7	TB-071114-ST					

No hits reported in this sample.

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33144.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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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:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	130%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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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:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74866.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	90%		15-110%
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90880.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.11	0.22	0.054	ug/l	J
91-57-6	2-Methylnaphthalene	0.13	0.22	0.081	ug/l	J
85-01-8	Phenanthrene	0.051	0.054	0.014	ug/l	JB
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	P54-ROX-071114		
Lab Sample ID:	MC32070-1	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39596.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	80%		36-173%
460-00-4	Bromofluorobenzene (S)	74%		36-173%

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:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33145.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	129%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

ND = Not detected MDL = Method Detection Limit
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Report of Analysis

Client Sample ID:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74867.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.56	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.18	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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Report of Analysis

Client Sample ID:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.20	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	64%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90881.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.073	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.052	ug/l	
120-12-7	Anthracene	ND	0.11	0.097	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.053	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.078	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	73%		30-130%

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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:	MW24-ROX-071114		
Lab Sample ID:	MC32070-2	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39597.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	37.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	109%		36-173%
460-00-4	Bromofluorobenzene (S)	110%		36-173%

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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33143.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	126%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74868.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.56	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.18	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.18	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.20	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	84%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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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:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90885.D	1	07/28/14	MR	07/14/14	OP38940	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.030	0.050	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-071114-EB		
Lab Sample ID:	MC32070-3	**Date Sampled:**	07/10/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39598.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	36.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	103%		36-173%
460-00-4	Bromofluorobenzene (S)	106%		36-173%

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:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33146.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	0.62	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74869.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/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:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.3	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	80%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90886.D	1	07/28/14	MR	07/14/14	OP38940	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	0.028	0.10	0.024	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	0.067	0.20	0.050	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.030	0.050	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	MW3-ROX-071114		
Lab Sample ID:	MC32070-4	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39599.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	35.9 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	122%		36-173%
460-00-4	Bromofluorobenzene (S)	114%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33147.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	75.1	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	59.4	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.37	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	10.4	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	42.1	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.82	5.0	0.32	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	57.4	1.0	0.93	ug/l	
95-47-6	o-Xylene	81.5	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	139	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74870.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.59	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.0	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.56	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.18	ug/l	
62-53-3	Aniline	ND	11	0.67	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.31	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.70	2.1	0.35	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.3	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.20	ug/l	
110-86-1	Pyridine	ND	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90887.D	1	07/28/14	MR	07/14/14	OP38940	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	0.21	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.12	0.050	0.013	ug/l	B
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	75%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST4C-ROX-071114		
Lab Sample ID:	MC32070-5	**Date Sampled:**	07/10/14
Matrix:	AQ - Ground Water	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39600.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	117%		36-173%
460-00-4	Bromofluorobenzene (S)	110%		36-173%

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:	TB-071114-HCL		
Lab Sample ID:	MC32070-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33141.D	1	07/23/14	AMY	n/a	n/a	MSV1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide [a]	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether [a]	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-071114-HCL		
Lab Sample ID:	MC32070-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [a]	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene [a]	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-071114-HCL		
Lab Sample ID:	MC32070-6	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	TB-071114-ST		
Lab Sample ID:	MC32070-7	**Date Sampled:**	07/10/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/12/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39602.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	114%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

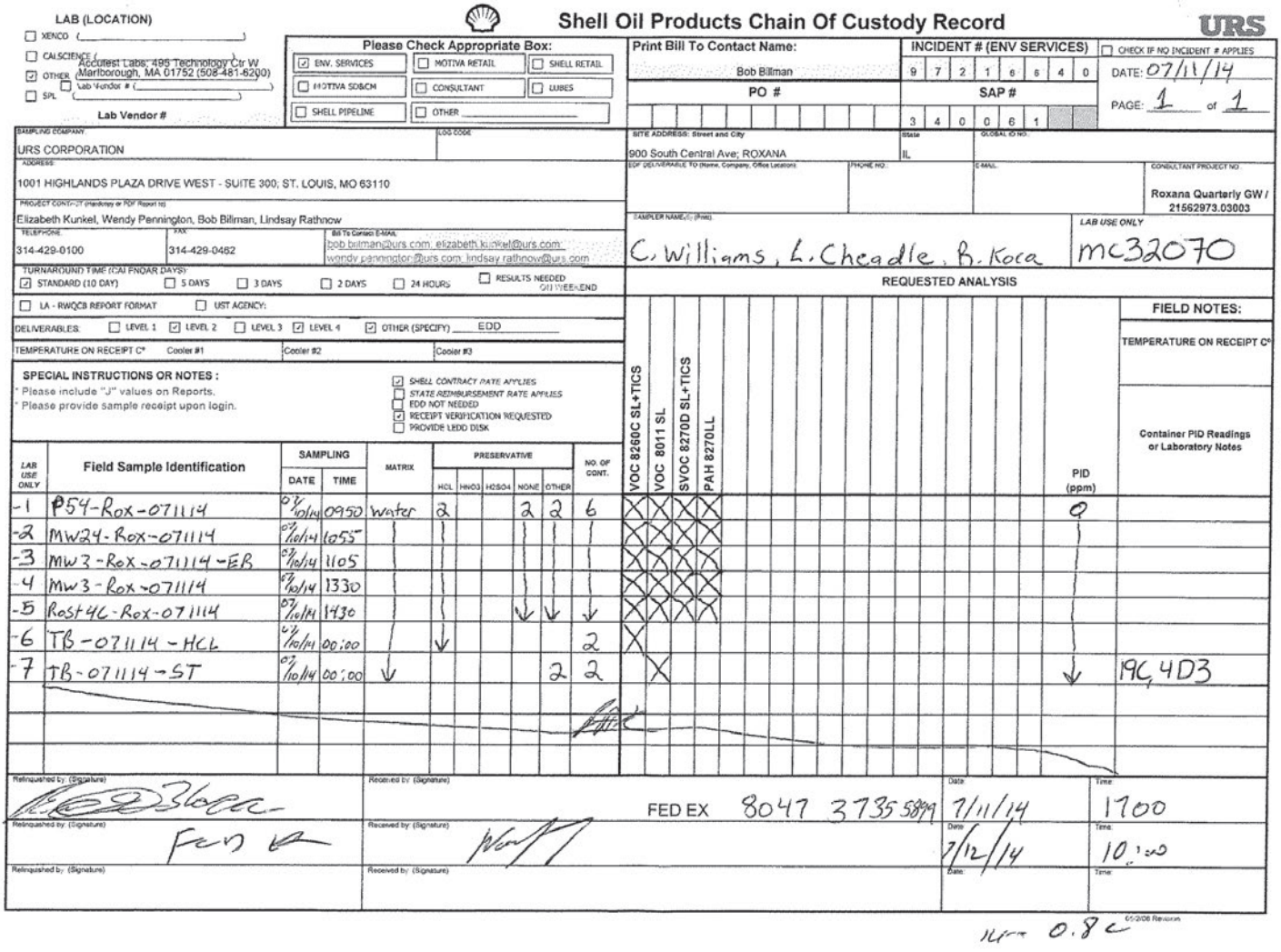
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



LAB (LOCATION)

☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ Lab Vendor # (_____)
☐ SPL (_____)

Lab Vendor #

Shell Oil Products Chain Of Custody Record

URS

Please Check Appropriate Box:

☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 07/11/14

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

LOG CODE:

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF DELIVERABLE TO (Name, Company, Office Location):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003

PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

SAMPLER NAME(S) (Print): C. Williams, L. Cheadle, B. Koca

LAB USE ONLY: MC32070

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	P54-Rox-071114	07/10/14	0950	water	2			2	2	6	X	X	X	X	0	
-2	MW24-Rox-071114	07/10/14	1055	↓	↓			↓	↓	↓	X	X	X	X	↓	
-3	MW3-Rox-071114-EB	07/10/14	1105	↓	↓			↓	↓	↓	X	X	X	X	↓	
-4	MW3-Rox-071114	07/10/14	1330	↓	↓			↓	↓	↓	X	X	X	X	↓	
-5	Rost4C-Rox-071114	07/10/14	1430	↓	↓			↓	↓	↓	X	X	X	X	↓	
-6	TB-071114-HCL	07/10/14	00:00	↓	↓					2	X				↓	
-7	TB-071114-ST	07/10/14	00:00	↓					2	2		X			↓	19C, 4D3

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX 8047 3735 5899	7/11/14	1700
Fed Ex	[signature]	7/12/14	10:00

Ice 0.8 C

05/2/08 Revision

MC32070: Chain of Custody
Page 1 of 2

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SGS ACCUTEST MC32070

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32070 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/12/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC32070: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32070

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32070-1 Collected: 10-JUL-14 09:50 By: BKCW Received: 12-JUL-14 By: P54-ROX-071114						
MC32070-1	SW846 8011	17-JUL-14 00:40	NK	15-JUL-14	MT	V8011SL
MC32070-1	SW846 8260C	23-JUL-14 17:45	AMY			V8260SL+
MC32070-1	SW846 8270D	25-JUL-14 01:42	WK	14-JUL-14	BJ	AB8270SL+
MC32070-1	SW846 8270D BY SIM	25-JUL-14 20:46	WK	14-JUL-14	BJ	B8270SIMSL
MC32070-2 Collected: 10-JUL-14 10:55 By: BKCW Received: 12-JUL-14 By: MW24-ROX-071114						
MC32070-2	SW846 8011	17-JUL-14 00:59	NK	15-JUL-14	MT	V8011SL
MC32070-2	SW846 8260C	23-JUL-14 18:10	AMY			V8260SL+
MC32070-2	SW846 8270D	25-JUL-14 02:05	WK	14-JUL-14	BJ	AB8270SL+
MC32070-2	SW846 8270D BY SIM	25-JUL-14 21:08	WK	14-JUL-14	BJ	B8270SIMSL
MC32070-3 Collected: 10-JUL-14 11:05 By: BKCW Received: 12-JUL-14 By: MW3-ROX-071114-EB						
MC32070-3	SW846 8011	17-JUL-14 01:19	NK	15-JUL-14	MT	V8011SL
MC32070-3	SW846 8260C	23-JUL-14 17:19	AMY			V8260SL+
MC32070-3	SW846 8270D	25-JUL-14 02:28	WK	14-JUL-14	BJ	AB8270SL+
MC32070-3	SW846 8270D BY SIM	28-JUL-14 08:46	MR	14-JUL-14	BJ	B8270SIMSL
MC32070-4 Collected: 10-JUL-14 13:30 By: BKCW Received: 12-JUL-14 By: MW3-ROX-071114						
MC32070-4	SW846 8011	17-JUL-14 01:38	NK	15-JUL-14	MT	V8011SL
MC32070-4	SW846 8260C	23-JUL-14 18:36	AMY			V8260SL+
MC32070-4	SW846 8270D	25-JUL-14 02:51	WK	14-JUL-14	BJ	AB8270SL+
MC32070-4	SW846 8270D BY SIM	28-JUL-14 09:08	MR	14-JUL-14	BJ	B8270SIMSL
MC32070-5 Collected: 10-JUL-14 14:30 By: BKCW Received: 12-JUL-14 By: ROST4C-ROX-071114						
MC32070-5	SW846 8011	17-JUL-14 01:57	NK	15-JUL-14	MT	V8011SL
MC32070-5	SW846 8260C	23-JUL-14 19:02	AMY			V8260SL+
MC32070-5	SW846 8270D	25-JUL-14 03:14	WK	14-JUL-14	BJ	AB8270SL+
MC32070-5	SW846 8270D BY SIM	28-JUL-14 09:31	MR	14-JUL-14	BJ	B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32070

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32070-6 Collected: 10-JUL-14 00:00 By: BKCW Received: 12-JUL-14 By: TB-071114-HCL						
MC32070-6	SW846 8260C	23-JUL-14 16:26	AMY			V8260SL+
MC32070-7 Collected: 10-JUL-14 00:00 By: BKCW Received: 12-JUL-14 By: TB-071114-ST						
MC32070-7	SW846 8011	17-JUL-14 02:36	NK	15-JUL-14	MT	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/12/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32070-1.2	Walk In Ref #22	Alireza Zeighami	07/14/14 07:30	Retrieve from Storage
MC32070-1.2	Alireza Zeighami		07/14/14 16:42	Depleted
MC32070-1.3	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-1.3	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32070-1.6	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-1.6	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument
MC32070-1.6	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-1.6	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-1.6	Scott Parsick		09/25/14 16:09	Disposed
MC32070-2.1	Walk In Ref #22	Alireza Zeighami	07/14/14 07:30	Retrieve from Storage
MC32070-2.1	Alireza Zeighami		07/14/14 16:42	Depleted
MC32070-2.4	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-2.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32070-2.5	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-2.5	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument
MC32070-2.5	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-2.5	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-2.5	Scott Parsick		09/25/14 16:09	Disposed
MC32070-3.1	Walk In Ref #22	Alireza Zeighami	07/14/14 07:30	Retrieve from Storage
MC32070-3.1	Alireza Zeighami		07/14/14 16:42	Depleted
MC32070-3.3	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-3.3	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32070-3.5	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-3.5	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument
MC32070-3.5	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-3.5	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-3.5	Scott Parsick		09/25/14 16:09	Disposed
MC32070-4.1	Walk In Ref #22	Alireza Zeighami	07/14/14 07:30	Retrieve from Storage
MC32070-4.1	Alireza Zeighami		07/14/14 16:42	Depleted
MC32070-4.4	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-4.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32070-4.6	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-4.6	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/12/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32070-4.6	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-4.6	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-4.6	Scott Parsick		09/25/14 16:09	Disposed
MC32070-5.2	Walk In Ref #22	Alireza Zeighami	07/14/14 07:30	Retrieve from Storage
MC32070-5.2	Alireza Zeighami		07/14/14 16:42	Depleted
MC32070-5.4	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-5.4	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32070-5.6	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-5.6	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument
MC32070-5.6	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-5.6	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-5.6	Scott Parsick		09/25/14 16:09	Disposed
MC32070-6.1	VOC Ref #4	Amy Min Yang	07/23/14 13:45	Retrieve from Storage
MC32070-6.1	Amy Min Yang	GCMSV	07/23/14 13:45	Load on Instrument
MC32070-6.1	GCMSV	Amy Min Yang	07/24/14 16:08	Unload from Instrument
MC32070-6.1	Amy Min Yang	VOC Ref #4	07/24/14 16:08	Return to Storage
MC32070-6.1	Scott Parsick		09/25/14 16:09	Disposed
MC32070-7.1	VOC Ref #4	Marc Tahtamoni	07/15/14 14:35	Retrieve from Storage
MC32070-7.1	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-MB	V33132.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-MB	V33132.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-MB	V33132.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	124%	70-130%
2037-26-5	Toluene-D8	94%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-BS	V33129.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	36.1	72	70-130
107-02-8	Acrolein	250	268	107	70-130
107-13-1	Acrylonitrile	50	64.5	129	70-130
71-43-2	Benzene	50	52.3	105	70-130
108-86-1	Bromobenzene	50	51.3	103	70-130
74-97-5	Bromochloromethane	50	52.6	105	70-130
75-27-4	Bromodichloromethane	50	59.3	119	70-130
75-25-2	Bromoform	50	57.2	114	70-130
74-83-9	Bromomethane	50	74.4	149* [a]	70-130
78-93-3	2-Butanone (MEK)	50	43.3	87	70-130
104-51-8	n-Butylbenzene	50	55.8	112	70-130
135-98-8	sec-Butylbenzene	50	56.8	114	70-130
98-06-6	tert-Butylbenzene	50	54.0	108	70-130
75-15-0	Carbon disulfide	50	43.5	87	70-130
56-23-5	Carbon tetrachloride	50	62.5	125	70-130
108-90-7	Chlorobenzene	50	51.1	102	70-130
75-00-3	Chloroethane	50	78.9	158* [a]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	38.6	77	70-130
67-66-3	Chloroform	50	56.9	114	70-130
74-87-3	Chloromethane	50	74.8	150* [a]	70-130
95-49-8	o-Chlorotoluene	50	54.3	109	70-130
106-43-4	p-Chlorotoluene	50	56.2	112	70-130
124-48-1	Dibromochloromethane	50	53.1	106	70-130
95-50-1	1,2-Dichlorobenzene	50	54.2	108	70-130
541-73-1	1,3-Dichlorobenzene	50	52.9	106	70-130
106-46-7	1,4-Dichlorobenzene	50	52.4	105	70-130
75-71-8	Dichlorodifluoromethane	50	39.3	79	70-130
75-34-3	1,1-Dichloroethane	50	60.6	121	70-130
107-06-2	1,2-Dichloroethane	50	61.6	123	70-130
75-35-4	1,1-Dichloroethene	50	53.6	107	70-130
156-59-2	cis-1,2-Dichloroethene	50	53.4	107	70-130
156-60-5	trans-1,2-Dichloroethene	50	57.9	116	70-130
78-87-5	1,2-Dichloropropane	50	52.3	105	70-130
142-28-9	1,3-Dichloropropane	50	52.5	105	70-130
594-20-7	2,2-Dichloropropane	50	63.2	126	70-130
563-58-6	1,1-Dichloropropene	50	54.0	108	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-BS	V33129.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	55.6	111	70-130
10061-02-6	trans-1,3-Dichloropropene	50	62.2	124	70-130
123-91-1	1,4-Dioxane	250	215	86	70-130
97-63-2	Ethyl methacrylate	50	45.0	90	77-137
100-41-4	Ethylbenzene	50	53.9	108	70-130
87-68-3	Hexachlorobutadiene	50	46.4	93	70-130
591-78-6	2-Hexanone	50	44.6	89	70-130
98-82-8	Isopropylbenzene	50	57.0	114	70-130
99-87-6	p-Isopropyltoluene	50	56.6	113	70-130
1634-04-4	Methyl Tert Butyl Ether	50	61.1	122	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	55.6	111	70-130
74-95-3	Methylene bromide	50	53.9	108	70-130
75-09-2	Methylene chloride	50	58.5	117	70-130
91-20-3	Naphthalene	50	42.1	84	70-130
103-65-1	n-Propylbenzene	50	55.4	111	70-130
100-42-5	Styrene	50	51.8	104	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	57.4	115	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	58.9	118	70-130
127-18-4	Tetrachloroethene	50	47.7	95	70-130
108-88-3	Toluene	50	49.3	99	70-130
87-61-6	1,2,3-Trichlorobenzene	50	44.7	89	70-130
120-82-1	1,2,4-Trichlorobenzene	50	46.0	92	70-130
71-55-6	1,1,1-Trichloroethane	50	56.6	113	70-130
79-00-5	1,1,2-Trichloroethane	50	52.4	105	70-130
79-01-6	Trichloroethene	50	48.6	97	70-130
75-69-4	Trichlorofluoromethane	50	65.7	131* [a]	70-130
96-18-4	1,2,3-Trichloropropane	50	60.3	121	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.4	109	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	70-130
108-05-4	Vinyl Acetate	50	63.0	126	70-130
75-01-4	Vinyl chloride	50	71.4	143* [b]	70-130
	m,p-Xylene	100	106	106	70-130
95-47-6	o-Xylene	50	53.7	107	70-130
1330-20-7	Xylene (total)	150	160	107	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1223-BS	V33129.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32001-5RMS	V33137.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5RMSD	V33138.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5R	V33134.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	MC32001-5R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	4.1		250	212	83	250	214	84	1	70-130/30
107-02-8	Acrolein	ND		1250	1670	134* [a]	1250	1670	134* [a]	0	70-130/30
107-13-1	Acrylonitrile	ND		250	358	143* [a]	250	359	144* [a]	0	70-130/30
71-43-2	Benzene	ND		250	272	109	250	268	107	1	70-130/30
108-86-1	Bromobenzene	ND		250	255	102	250	260	104	2	70-130/30
74-97-5	Bromochloromethane	ND		250	276	110	250	266	106	4	70-130/30
75-27-4	Bromodichloromethane	ND		250	298	119	250	293	117	2	70-130/30
75-25-2	Bromoform	ND		250	294	118	250	294	118	0	70-130/30
74-83-9	Bromomethane	ND		250	403	161* [a]	250	412	165* [a]	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	235	94	250	234	94	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	270	108	250	271	108	0	70-130/30
135-98-8	sec-Butylbenzene	ND		250	276	110	250	277	111	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	262	105	250	258	103	2	70-130/30
75-15-0	Carbon disulfide	ND		250	233	93	250	231	92	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	302	121	250	301	120	0	70-130/30
108-90-7	Chlorobenzene	ND		250	262	105	250	259	104	1	70-130/30
75-00-3	Chloroethane	ND		250	413	165* [a]	250	423	169* [a]	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	80.6	32* [a]	250	42.5	17* [a]	62* [b]	70-130/30
67-66-3	Chloroform	ND		250	291	116	250	280	112	4	70-130/30
74-87-3	Chloromethane	ND		250	419	168* [a]	250	424	170* [a]	1	70-130/30
95-49-8	o-Chlorotoluene	ND		250	268	107	250	268	107	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	277	111	250	277	111	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	275	110	250	266	106	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	270	108	250	271	108	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	266	106	250	266	106	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	267	107	250	267	107	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	272	109	250	255	102	6	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	322	129	250	312	125	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	311	124	250	302	121	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	298	119	250	295	118	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	280	112	250	273	109	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	313	125	250	304	122	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	266	106	250	265	106	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	276	110	250	274	110	1	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	310	124	250	306	122	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	283	113	250	277	111	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32001-5RMS	V33137.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5RMSD	V33138.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5R	V33134.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Compound	MC32001-5R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	281	112	250	275	110	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	324	130	250	321	128	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1480	118	1250	1420	114	4	70-130/30
97-63-2	Ethyl methacrylate	ND		250	249	100	250	251	100	1	72-139/30
100-41-4	Ethylbenzene	ND		250	275	110	250	269	108	2	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	221	88	250	222	89	0	70-130/30
591-78-6	2-Hexanone	ND		250	247	99	250	251	100	2	70-130/30
98-82-8	Isopropylbenzene	ND		250	278	111	250	279	112	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	272	109	250	272	109	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	329	132* [a]	250	340	136* [a]	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	297	119	250	301	120	1	70-130/30
74-95-3	Methylene bromide	ND		250	276	110	250	271	108	2	70-130/30
75-09-2	Methylene chloride	ND		250	308	123	250	310	124	1	70-130/30
91-20-3	Naphthalene	ND		250	229	92	250	244	98	6	70-130/30
103-65-1	n-Propylbenzene	ND		250	271	108	250	274	110	1	70-130/30
100-42-5	Styrene	ND		250	265	106	250	265	106	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	283	113	250	282	113	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	305	122	250	309	124	1	70-130/30
127-18-4	Tetrachloroethene	ND		250	242	97	250	242	97	0	70-130/30
108-88-3	Toluene	ND		250	250	100	250	248	99	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	224	90	250	243	97	8	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	234	94	250	240	96	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	276	110	250	269	108	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	270	108	250	273	109	1	70-130/30
79-01-6	Trichloroethene	ND		250	248	99	250	243	97	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	376	150* [a]	250	367	147* [a]	2	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	314	126	250	318	127	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	267	107	250	268	107	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	266	106	250	265	106	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	337	135* [a]	250	331	132* [a]	2	70-130/30
75-01-4	Vinyl chloride	ND		250	392	157* [c]	250	391	156* [c]	0	70-130/30
	m,p-Xylene	ND		500	537	107	500	531	106	1	70-130/30
95-47-6	o-Xylene	ND		250	273	109	250	270	108	1	70-130/30
1330-20-7	Xylene (total)	ND		750	810	108	750	801	107	1	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32001-5RMS	V33137.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5RMSD	V33138.D	5	07/23/14	AMY	n/a	n/a	MSV1223
MC32001-5R	V33134.D	1	07/23/14	AMY	n/a	n/a	MSV1223

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

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-6

CAS No.	Surrogate Recoveries	MS	MSD	MC32001-5RLimits	
1868-53-7	Dibromofluoromethane	102%	101%	127%	70-130%
2037-26-5	Toluene-D8	91%	92%	91%	70-130%
460-00-4	4-Bromofluorobenzene	93%	95%	102%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1223-CC1177	Injection Date:	07/23/14
Lab File ID:	V33124.D	Injection Time:	08:58
Instrument ID:	GCMSV	Method:	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	501691	6.56	642574	7.75	235213	11.08	347706	13.29	98279	3.52
Upper Limit [a]	1003382	7.06	1285148	8.25	470426	11.58	695412	13.79	196558	4.02
Lower Limit [b]	250846	6.06	321287	7.25	117607	10.58	173853	12.79	49140	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1223-BS	388545	6.56	492695	7.75	182983	11.08	249110	13.30	77743	3.51
MSV1223-MB	293950	6.57	411896	7.75	168409	11.09	179150	13.30	79334	3.51
ZZZZZZ	395277	6.57	558684	7.75	227601	11.09	239838	13.30	108038	3.52
MC32001-5R	411756	6.57	589263	7.75	237758	11.09	243697	13.30	131030	3.52
ZZZZZZ	491524	6.57	612925	7.75	241369	11.09	334171	13.30	127307	3.52
ZZZZZZ	506011	6.57	636184	7.75	247505	11.09	333564	13.30	143523	3.52
MC32001-5RMS	747990	6.58	960703	7.76	351928	11.09	487043	13.30	188454	3.53
MC32001-5RMSD	714190	6.58	897259	7.76	333481	11.09	457687	13.30	187579	3.53
ZZZZZZ	430343	6.58	593495	7.76	236751	11.09	260065	13.30	134447	3.52
MC32070-6	437933	6.58	611789	7.76	248804	11.09	270411	13.30	132440	3.53
ZZZZZZ	387980	6.57	542619	7.76	222540	11.09	244792	13.30	130896	3.52
MC32070-3	383302	6.58	548035	7.76	225296	11.09	245381	13.30	126938	3.53
MC32070-1	359726	6.58	510445	7.76	212278	11.09	228758	13.30	115701	3.52
MC32070-2	378582	6.58	535863	7.76	218216	11.09	236006	13.30	117389	3.52
MC32070-4	509714	6.58	587742	7.76	235300	11.09	252263	13.30	195422	3.53
MC32070-5	447573	6.57	648575	7.75	244834	11.09	275432	13.30	193666	3.52
ZZZZZZ	449195	6.58	664689	7.76	252661	11.09	329984	13.30	145702	3.52
ZZZZZZ	402572	6.57	590441	7.75	221854	11.09	263370	13.30	122076	3.52
ZZZZZZ	428265	6.57	626458	7.75	238835	11.09	276825	13.30	126608	3.52
ZZZZZZ	396344	6.57	598435	7.75	229526	11.09	275172	13.30	115594	3.52

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32070-1	V33144.D	130	95	101
MC32070-2	V33145.D	129	94	100
MC32070-3	V33143.D	126	95	103
MC32070-4	V33146.D	101	93	102
MC32070-5	V33147.D	118	94	111
MC32070-6	V33141.D	121	93	102
MC32001-5RMS	V33137.D	102	91	93
MC32001-5RMSD	V33138.D	101	92	95
MSV1223-BS	V33129.D	103	93	95
MSV1223-MB	V33132.D	124	94	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-MB	F74861.D	1	07/24/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.26	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-MB	F74861.D	1	07/24/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: Method: SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	37%	15-110%
4165-62-2	Phenol-d5	21%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	15-110%
4165-60-0	Nitrobenzene-d5	63%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38940-MB	I90875.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.038	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	33%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	68%	15-110%
4165-60-0	Nitrobenzene-d5	61%	30-130%
321-60-8	2-Fluorobiphenyl	65%	30-130%
1718-51-0	Terphenyl-d14	74%	30-130%

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-BS	F74862.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	21.7	43	30-130
95-57-8	2-Chlorophenol	50	35.2	70	30-130
59-50-7	4-Chloro-3-methyl phenol	50	38.7	77	30-130
120-83-2	2,4-Dichlorophenol	50	43.4	87	30-130
105-67-9	2,4-Dimethylphenol	50	35.1	70	30-130
51-28-5	2,4-Dinitrophenol	50	27.1	54	30-130
534-52-1	4,6-Dinitro-o-cresol	50	35.3	71	30-130
95-48-7	2-Methylphenol	50	31.4	63	30-130
	3&4-Methylphenol	100	57.1	57	30-130
88-75-5	2-Nitrophenol	50	40.4	81	30-130
100-02-7	4-Nitrophenol	50	12.9	26* [a]	30-130
87-86-5	Pentachlorophenol	50	53.1	106	30-130
108-95-2	Phenol	50	17.0	34	30-130
95-95-4	2,4,5-Trichlorophenol	50	47.7	95	30-130
88-06-2	2,4,6-Trichlorophenol	50	44.8	90	30-130
62-53-3	Aniline	50	26.2	52	40-140
101-55-3	4-Bromophenyl phenyl ether	50	46.7	93	40-140
85-68-7	Butyl benzyl phthalate	50	43.6	87	40-140
100-51-6	Benzyl Alcohol	50	31.6	63	40-140
91-58-7	2-Chloronaphthalene	50	42.2	84	40-140
106-47-8	4-Chloroaniline	50	37.9	76	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	30.8	62	40-140
111-44-4	bis(2-Chloroethyl)ether	50	36.5	73	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	41.1	82	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	41.4	83	40-140
122-66-7	1,2-Diphenylhydrazine	50	40.0	80	40-140
121-14-2	2,4-Dinitrotoluene	50	44.0	88	40-140
606-20-2	2,6-Dinitrotoluene	50	39.6	79	40-140
91-94-1	3,3'-Dichlorobenzidine	50	32.7	65	40-140
132-64-9	Dibenzofuran	50	39.6	79	40-140
84-74-2	Di-n-butyl phthalate	50	44.1	88	40-140
117-84-0	Di-n-octyl phthalate	50	40.7	81	40-140
84-66-2	Diethyl phthalate	50	44.3	89	40-140
131-11-3	Dimethyl phthalate	50	45.7	91	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.1	88	40-140
118-74-1	Hexachlorobenzene	50	48.4	97	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-BS	F74862.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	12.3	25* [a]	40-140
67-72-1	Hexachloroethane	50	22.2	44	40-140
78-59-1	Isophorone	50	36.1	72	40-140
88-74-4	2-Nitroaniline	50	43.0	86	40-140
99-09-2	3-Nitroaniline	50	41.9	84	40-140
100-01-6	4-Nitroaniline	50	40.6	81	40-140
98-95-3	Nitrobenzene	50	36.3	73	40-140
62-75-9	n-Nitrosodimethylamine	50	21.3	43	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	39.3	79	40-140
86-30-6	N-Nitrosodiphenylamine	50	40.6	81	40-140
110-86-1	Pyridine	50	19.3	39* [a]	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	39%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	94%	15-110%
4165-60-0	Nitrobenzene-d5	65%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	77%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38940-BS	I90876.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	36.3	73	40-140
208-96-8	Acenaphthylene	50	32.0	64	40-140
120-12-7	Anthracene	50	36.6	73	40-140
56-55-3	Benzo(a)anthracene	50	40.5	81	40-140
50-32-8	Benzo(a)pyrene	50	35.4	71	40-140
205-99-2	Benzo(b)fluoranthene	50	38.9	78	40-140
191-24-2	Benzo(g,h,i)perylene	50	40.4	81	40-140
207-08-9	Benzo(k)fluoranthene	50	35.3	71	40-140
218-01-9	Chrysene	50	38.4	77	40-140
53-70-3	Dibenzo(a,h)anthracene	50	39.3	79	40-140
206-44-0	Fluoranthene	50	36.0	72	40-140
86-73-7	Fluorene	50	38.7	77	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.6	79	40-140
90-12-0	1-Methylnaphthalene	50	34.6	69	40-140
91-57-6	2-Methylnaphthalene	50	34.7	69	40-140
85-01-8	Phenanthrene	50	38.0	76	40-140
129-00-0	Pyrene	50	35.0	70	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	35%	15-110%
4165-62-2	Phenol-d5	24%	15-110%
118-79-6	2,4,6-Tribromophenol	79%	15-110%
4165-60-0	Nitrobenzene-d5	62%	30-130%
321-60-8	2-Fluorobiphenyl	64%	30-130%
1718-51-0	Terphenyl-d14	74%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-MS	F74863.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
OP38939-MSD	F74864.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
MC32000-3	F74865.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: Method: SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	MC32000-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	19.9	40	50	20.1	40	1	30-130/20
95-57-8	2-Chlorophenol	ND		50	32.5	65	50	31.3	63	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	36.6	73	50	36.1	72	1	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	40.3	81	50	37.6	75	7	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	28.8	58	50	26.6	53	8	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	28.8	58	50	30.3	61	5	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	36.1	72	50	36.9	74	2	30-130/20
95-48-7	2-Methylphenol	ND		50	28.6	57	50	27.4	55	4	30-130/20
	3&4-Methylphenol	ND		100	53.4	53	100	51.9	52	3	30-130/20
88-75-5	2-Nitrophenol	ND		50	37.9	76	50	34.8	70	9	30-130/20
100-02-7	4-Nitrophenol	ND		50	12.7	25* [a]	50	12.9	26* [a]	2	30-130/20
87-86-5	Pentachlorophenol	ND		50	51.2	102	50	51.2	102	0	30-130/20
108-95-2	Phenol	ND		50	15.7	31	50	14.8	30	6	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	44.5	89	50	40.8	82	9	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	41.6	83	50	40.4	81	3	30-130/20
62-53-3	Aniline	ND		50	26.0	52	50	23.1	46	12	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.1	92	50	44.2	88	4	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	44.7	89	50	43.0	86	4	40-140/20
100-51-6	Benzyl Alcohol	ND		50	30.4	61	50	26.5	53	14	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	41.5	83	50	38.5	77	8	40-140/20
106-47-8	4-Chloroaniline	ND		50	37.9	76	50	33.6	67	12	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	29.2	58	50	24.8	50	16	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	34.3	69	50	30.6	61	11	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	39.9	80	50	36.6	73	9	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	40.2	80	50	38.8	78	4	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	40.8	82	50	40.0	80	2	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	43.2	86	50	42.9	86	1	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	37.8	76	50	37.1	74	2	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	32.9	66	50	33.8	68	3	40-140/20
132-64-9	Dibenzofuran	ND		50	38.1	76	50	36.1	72	5	40-140/20
84-74-2	Di-n-butyl phthalate	0.33	J	50	44.4	88	50	43.8	87	1	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	41.4	83	50	40.8	82	1	40-140/20
84-66-2	Diethyl phthalate	ND		50	43.9	88	50	43.5	87	1	40-140/20
131-11-3	Dimethyl phthalate	ND		50	44.1	88	50	43.2	86	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	44.1	88	50	43.4	87	2	40-140/20
118-74-1	Hexachlorobenzene	ND		50	47.2	94	50	46.1	92	2	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38939-MS	F74863.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
OP38939-MSD	F74864.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297
MC32000-3	F74865.D	1	07/25/14	WK	07/14/14	OP38939	MSF3297

The QC reported here applies to the following samples: Method: SW846 8270D

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	MC32000-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	12.7	25* [a]	50	11.3	23* [a]	12	40-140/20
67-72-1	Hexachloroethane	ND		50	22.8	46	50	22.0	44	4	40-140/20
78-59-1	Isophorone	ND		50	35.1	70	50	31.5	63	11	40-140/20
88-74-4	2-Nitroaniline	ND		50	42.9	86	50	40.5	81	6	40-140/20
99-09-2	3-Nitroaniline	ND		50	42.7	85	50	41.2	82	4	40-140/20
100-01-6	4-Nitroaniline	ND		50	39.8	80	50	40.3	81	1	40-140/20
98-95-3	Nitrobenzene	ND		50	36.6	73	50	32.1	64	13	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	20.9	42	50	18.4	37* [b]	13	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	39.0	78	50	36.0	72	8	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	39.7	79	50	38.5	77	3	40-140/20
110-86-1	Pyridine	ND		50	19.5	39* [a]	50	17.2	34* [a]	13	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-3	Limits
367-12-4	2-Fluorophenol	36%	36%	37%	15-110%
4165-62-2	Phenol-d5	24%	24%	22%	15-110%
118-79-6	2,4,6-Tribromophenol	86%	94%	80%	15-110%
4165-60-0	Nitrobenzene-d5	63%	61%	62%	30-130%
321-60-8	2-Fluorobiphenyl	63%	63%	65%	30-130%
1718-51-0	Terphenyl-d14	73%	79%	85%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38940-MS	I90877.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382
OP38940-MSD	I90878.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382
MC32000-7	I90879.D	1	07/25/14	WK	07/14/14	OP38940	MSI3382

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5

CAS No.	Compound	MC32000-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	35.5	71	50	33.7	67	5	40-140/20
208-96-8	Acenaphthylene	ND		50	31.3	63	50	29.4	59	6	40-140/20
120-12-7	Anthracene	ND		50	36.4	73	50	36.3	73	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	40.8	82	50	40.3	81	1	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	35.5	71	50	34.9	70	2	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	37.7	75	50	39.1	78	4	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	40.8	82	50	39.9	80	2	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	37.0	74	50	34.9	70	6	40-140/20
218-01-9	Chrysene	ND		50	38.7	77	50	38.3	77	1	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	39.7	79	50	38.8	78	2	40-140/20
206-44-0	Fluoranthene	ND		50	35.9	72	50	35.7	71	1	40-140/20
86-73-7	Fluorene	ND		50	37.7	75	50	36.9	74	2	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	40.0	80	50	39.1	78	2	40-140/20
90-12-0	1-Methylnaphthalene	0.065	J	50	33.8	67	50	31.3	62	8	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	33.8	68	50	31.2	62	8	40-140/20
85-01-8	Phenanthrene	0.051		50	37.8	75	50	37.5	75	1	40-140/20
129-00-0	Pyrene	ND		50	34.8	70	50	34.8	70	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-7	Limits
367-12-4	2-Fluorophenol	33%	32%	33%	15-110%
4165-62-2	Phenol-d5	22%	22%	22%	15-110%
118-79-6	2,4,6-Tribromophenol	77%	83%	73%	15-110%
4165-60-0	Nitrobenzene-d5	60%	59%	60%	30-130%
321-60-8	2-Fluorobiphenyl	60%	61%	63%	30-130%
1718-51-0	Terphenyl-d14	71%	77%	77%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3297-CC3270	**Injection Date:**	07/24/14
Lab File ID:	F74841.D	**Injection Time:**	16:05
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	209556	3.29	694029	4.32	469692	5.81	835048	7.07	1047606	9.40	962636	10.89
Upper Limit [a]	419112	3.79	1388058	4.82	939384	6.31	1670096	7.57	2095212	9.90	1925272	11.39
Lower Limit [b]	104778	2.79	347015	3.82	234846	5.31	417524	6.57	523803	8.90	481318	10.39

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	247083	3.29	854542	4.32	576330	5.81	1066605	7.07	1177089	9.39	1124101	10.89
ZZZZZZ	214107	3.29	714152	4.32	481087	5.81	900541	7.06	1024398	9.39	1006989	10.89
ZZZZZZ	218402	3.29	749013	4.32	506162	5.81	942484	7.06	1083350	9.39	1054865	10.89
ZZZZZZ	211462	3.29	718067	4.32	500149	5.81	912196	7.07	1021818	9.39	1006370	10.89
ZZZZZZ	240154	3.29	826536	4.32	573954	5.82	1065584	7.07	1206054	9.40	1158729	10.89
ZZZZZZ	218483	3.29	777151	4.32	563647	5.82	1045596	7.07	1156236	9.39	1117772	10.89
ZZZZZZ	244884	3.29	859942	4.33	417162	5.86	643622	7.12	1443941	9.41	1509004	10.90
ZZZZZZ	245051	3.29	835762	4.32	584886	5.82	1047862	7.07	1180962	9.40	1232945	10.89
ZZZZZZ	213955	3.29	747786	4.32	504394	5.81	938705	7.07	1125155	9.40	1205728	10.89
OP39079-LB	212918	3.29	711466	4.32	478871	5.81	899219	7.06	1072283	9.39	1120390	10.89
OP39079-MB	212918	3.29	711466	4.32	478871	5.81	899219	7.06	1072283	9.39	1120390	10.89
OP39079-BS	209254	3.29	704240	4.32	479669	5.82	880515	7.07	1124859	9.40	1096898	10.89
ZZZZZZ	209958	3.29	694310	4.32	476277	5.81	887294	7.07	1097238	9.40	1163361	10.89
OP39057-MB	250778	3.29	813862	4.32	536930	5.81	969548	7.06	1095245	9.39	1054840	10.89
OP39057-BS	256627	3.29	853296	4.32	559027	5.81	936502	7.07	1124893	9.40	1020243	10.89
OP39057-MS	280260	3.29	931376	4.32	616339	5.82	1074356	7.07	1221223	9.40	1213659	10.90
OP39057-MSD	267426	3.29	872848	4.32	570042	5.82	967144	7.07	1114849	9.40	1131872	10.90
MC32247-1	278956	3.29	907801	4.32	597436	5.82	1040348	7.07	1098305	9.39	1210898	10.89
ZZZZZZ	261826	3.29	908465	4.33	455333	5.84	917009	7.09	1189167	9.40	1299878	10.90
ZZZZZZ	276531	3.29	898858	4.32	573956	5.81	1014073	7.06	1062278	9.40	1134282	10.89
OP38939-MB	240419	3.29	803248	4.32	545901	5.81	1007338	7.06	1226163	9.40	1361273	10.89
OP38939-BS	248416	3.29	818709	4.32	548453	5.82	975598	7.07	1235209	9.40	1329338	10.90
OP38939-MS	267143	3.29	871514	4.32	582537	5.82	1031889	7.07	1310731	9.40	1371717	10.89
OP38939-MSD	224939	3.29	769662	4.32	512943	5.81	916558	7.07	1188698	9.40	1246473	10.89
MC32000-3	203434	3.29	685819	4.32	468135	5.81	881870	7.06	1062458	9.40	1153555	10.89
MC32070-1	208943	3.29	722156	4.32	489565	5.81	908644	7.07	1119376	9.39	1168784	10.89
MC32070-2	196533	3.29	673354	4.32	456315	5.81	865882	7.06	1075019	9.40	1118623	10.89
MC32070-3	210469	3.29	717299	4.32	488825	5.81	922235	7.06	1112662	9.40	1178289	10.89
MC32070-4	204421	3.29	698745	4.32	478732	5.81	912297	7.06	1123525	9.40	1200863	10.89
MC32070-5	205423	3.29	690733	4.32	475170	5.81	893644	7.06	1068059	9.40	1129496	10.89

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3297-CC3270	**Injection Date:**	07/24/14
Lab File ID:	F74841.D	**Injection Time:**	16:05
Instrument ID:	GCMSF	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3382-CC3320	**Injection Date:**	07/25/14
Lab File ID:	I90855.D	**Injection Time:**	10:26
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	410867	4.38	830733	5.44	424772	6.98	737131	8.40	449081	11.17	1240591	12.68
Upper Limit [a]	821734	4.88	1661466	5.94	849544	7.48	1474262	8.90	898162	11.67	2481182	13.18
Lower Limit [b]	205434	3.88	415367	4.94	212386	6.48	368566	7.90	224541	10.67	620296	12.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39080-MB	390639	4.38	795208	5.44	407061	6.98	705805	8.40	419646	11.17	1177195	12.68
OP39080-BS	443052	4.38	901469	5.44	456736	6.98	789364	8.40	478104	11.17	1332176	12.68
ZZZZZZ	316411	4.38	646752	5.43	328981	6.98	556394	8.40	341355	11.17	977209	12.68
OP39060-MB	471151	4.38	974146	5.43	505010	6.98	872911	8.40	528918	11.17	1472434	12.68
OP39060-BS	398821	4.38	828664	5.44	428620	6.98	741820	8.40	447068	11.17	1235840	12.68
OP39060-MS	393505	4.38	823066	5.44	424580	6.98	729370	8.40	444656	11.17	1219970	12.68
OP39060-MSD	392224	4.38	816191	5.44	421223	6.98	733076	8.40	444623	11.17	1221701	12.68
MC32236-12	386080	4.38	797420	5.43	408532	6.98	718075	8.40	428502	11.17	1182990	12.68
ZZZZZZ	438767	4.38	907457	5.44	467932	6.98	807143	8.40	489215	11.17	1350564	12.68
ZZZZZZ	429363	4.38	889900	5.43	455881	6.98	792259	8.40	476246	11.17	1307689	12.68
ZZZZZZ	430164	4.38	878015	5.43	451435	6.98	786045	8.40	474500	11.17	1296911	12.68
ZZZZZZ	358286	4.38	734667	5.43	376194	6.98	658022	8.40	390600	11.17	1078415	12.68
ZZZZZZ	382040	4.38	782365	5.43	399207	6.98	700335	8.40	416025	11.17	1151859	12.68
ZZZZZZ	414251	4.38	850662	5.43	438390	6.98	756183	8.40	471488	11.17	1254896	12.68
ZZZZZZ	363391	4.38	752697	5.43	386751	6.98	673058	8.39	406469	11.17	1114186	12.68
ZZZZZZ	427783	4.37	874734	5.43	448879	6.98	781015	8.40	469894	11.17	1279405	12.68
ZZZZZZ	422168	4.38	864130	5.43	445453	6.98	777589	8.40	468244	11.17	1308312	12.68
ZZZZZZ	355064	4.38	704850	5.44	359995	6.99	607958	8.41	420077	11.17	1200792	12.68
ZZZZZZ	439752	4.38	881893	5.44	460827	6.99	769814	8.41	520856	11.17	1482294	12.68
OP38940-MB	382173	4.38	789279	5.43	403821	6.98	705109	8.39	414600	11.16	1157811	12.68
OP38940-BS	400262	4.38	833840	5.44	427148	6.98	740404	8.40	448162	11.17	1244552	12.68
OP38940-MS	463054	4.38	972644	5.44	497900	6.98	861949	8.40	523736	11.17	1442291	12.68
OP38940-MSD	400822	4.38	840174	5.44	427673	6.98	742799	8.40	450781	11.17	1246753	12.68
MC32000-7	365334	4.38	753989	5.43	385461	6.98	676198	8.40	404073	11.16	1113745	12.68
MC32070-1	419175	4.38	865448	5.43	442558	6.98	771259	8.39	463640	11.16	1273175	12.68
MC32070-2	380745	4.38	787713	5.43	400727	6.98	698550	8.40	419737	11.16	1159310	12.68

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3382-CC3320	Injection Date:	07/25/14
Lab File ID:	I90855.D	Injection Time:	10:26
Instrument ID:	GCMSI	Method:	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3383-CC3320	**Injection Date:**	07/28/14
Lab File ID:	I90884.D	**Injection Time:**	08:22
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	680355	4.36	1407590	5.41	750403	6.96	1285689	8.37	790065	11.14	2101925	12.65
Upper Limit [a]	1360710	4.86	2815180	5.91	1500806	7.46	2571378	8.87	1580130	11.64	4203850	13.15
Lower Limit [b]	340178	3.86	703795	4.91	375202	6.46	642845	7.87	395033	10.64	1050963	12.15

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC32070-3	723263	4.36	1495016	5.41	780439	6.96	1346857	8.37	818241	11.14	2199313	12.65
MC32070-4	705795	4.36	1468848	5.41	755778	6.96	1298679	8.38	793476	11.14	2157828	12.65
MC32070-5	703545	4.36	1486574	5.41	765716	6.96	1321322	8.37	813855	11.14	2180216	12.66
OP38980-MB	702126	4.36	1472463	5.41	764879	6.96	1314002	8.37	818449	11.14	2180519	12.65
OP38980-BS	688060	4.36	1460725	5.41	753569	6.96	1296030	8.38	806802	11.15	2122316	12.66
OP38980-MS	678303	4.35	1450186	5.41	753072	6.96	1291988	8.38	804237	11.15	2124961	12.66
OP38980-MSD	684269	4.36	1475893	5.41	764948	6.96	1311239	8.38	821423	11.15	2185749	12.66
MC32000-17	600372	4.36	1264502	5.41	661557	6.96	1138416	8.37	692573	11.14	1852131	12.65
ZZZZZZ	664020	4.36	1393852	5.41	733390	6.96	1255433	8.37	773397	11.14	2079327	12.65
ZZZZZZ	656037	4.36	1370237	5.41	704479	6.96	1206114	8.37	750514	11.14	2014630	12.66
ZZZZZZ	649875	4.36	1346489	5.41	699274	6.96	1206057	8.37	749601	11.14	2002239	12.65
ZZZZZZ	695356	4.37	1421944	5.41	736462	6.96	1255873	8.38	730312	11.14	1928967	12.66
OP39111-MB	631539	4.35	1325855	5.41	690169	6.95	1184831	8.37	718530	11.14	1933812	12.65
OP39111-BS	645398	4.36	1371599	5.41	706566	6.96	1219902	8.38	744300	11.15	1979600	12.66
OP39111-MS	637856	4.36	1365416	5.41	707096	6.96	1215544	8.38	752849	11.15	1988604	12.66
OP39111-MSD	611328	4.36	1294518	5.41	672567	6.96	1151628	8.38	706877	11.15	1877664	12.66
MC32236-20	615499	4.35	1289876	5.41	673953	6.95	1143261	8.37	703656	11.14	1851253	12.65
ZZZZZZ	622398	4.35	1297687	5.41	679831	6.96	1144889	8.37	698081	11.14	1863032	12.65
ZZZZZZ	660434	4.35	1396226	5.41	724902	6.95	1242259	8.37	756698	11.14	1987188	12.66
ZZZZZZ	656436	4.35	1376013	5.41	712255	6.95	1219344	8.37	739802	11.14	1952251	12.66
ZZZZZZ	616353	4.35	1265563	5.41	631236	6.96	1085198	8.38	697819	11.14	1870716	12.66
ZZZZZZ	604055	4.35	1244564	5.41	623434	6.95	1027275	8.37	606963	11.14	1669786	12.66
ZZZZZZ	645722	4.37	1254801	5.41	660004	6.96	1094541	8.37	657343	11.14	1742712	12.65
ZZZZZZ	662978	4.35	1306277	5.41	677075	6.96	1133629	8.38	740511	11.14	2001317	12.66
ZZZZZZ	653932	4.35	1379398	5.41	709345	6.95	1202828	8.37	737842	11.14	1941216	12.65
ZZZZZZ	680708	4.35	1420409	5.41	721071	6.95	1210567	8.37	725271	11.14	1923964	12.65

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3383-CC3320	**Injection Date:**	07/28/14
Lab File ID:	I90884.D	**Injection Time:**	08:22
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32070-1	F74866.D	36	22	90	61	69	90
MC32070-2	F74867.D	37	22	80	64	70	81
MC32070-3	F74868.D	41	25	84	70	77	84
MC32070-4	F74869.D	40	23	85	65	71	80
MC32070-5	F74870.D	41	23	88	69	75	83
OP38939-BS	F74862.D	39	27	94	65	68	77
OP38939-MB	F74861.D	37	21	82	63	68	80
OP38939-MS	F74863.D	36	24	86	63	63	73
OP38939-MSD	F74864.D	36	24	94	61	63	79

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32070-1	I90880.D	59	64	81
MC32070-2	I90881.D	61	67	73
MC32070-3	I90885.D	70	68	77
MC32070-4	I90886.D	66	66	74
MC32070-5	I90887.D	69	68	75
OP38940-BS	I90876.D	62	64	74
OP38940-MB	I90875.D	61	65	74
OP38940-MS	I90877.D	60	60	71
OP38940-MSD	I90878.D	59	61	77

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38973-MB	BK39591.D	1	07/16/14	NK	07/15/14	OP38973	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-7

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	111%	36-173%
460-00-4	Bromofluorobenzene (S)	110%	36-173%

Blank Spike Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38973-BS	BK39592.D	1	07/16/14	NK	07/15/14	OP38973	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.080	113	60-140
106-93-4	1,2-Dibromoethane	0.071	0.078	110	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	103%	36-173%
460-00-4	Bromofluorobenzene (S)	97%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38973-MS	BK39593.D	1	07/16/14	NK	07/15/14	OP38973	GBK1285
OP38973-MSD	BK39594.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285
MC32000-13	BK39595.D	1	07/17/14	NK	07/15/14	OP38973	GBK1285

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32070-1, MC32070-2, MC32070-3, MC32070-4, MC32070-5, MC32070-7

CAS No.	Compound	MC32000-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.071	0.078	110	0.071	0.075	106	4	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.071	0.077	108	0.071	0.075	106	3	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-13	Limits
460-00-4	Bromofluorobenzene (S)	113%	108%	89%	36-173%
460-00-4	Bromofluorobenzene (S)	105%	106%	89%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32070-1	BK39596.D	80	74
MC32070-2	BK39597.D	109	110
MC32070-3	BK39598.D	103	106
MC32070-4	BK39599.D	122	114
MC32070-5	BK39600.D	117	110
MC32070-7	BK39602.D	114	111
OP38973-BS	BK39592.D	103	97
OP38973-MB	BK39591.D	111	110
OP38973-MS	BK39593.D	113	105
OP38973-MSD	BK39594.D	108	106

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1285-CC1283	**Injection Date:**	07/16/14
Lab File ID:	BK39590.D	**Injection Time:**	22:43
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP38973-MB	BK39591.D	07/16/14	23:03	4.39	4.41
OP38973-BS	BK39592.D	07/16/14	23:22	4.39	4.42
OP38973-MS	BK39593.D	07/16/14	23:42	4.39	4.42
OP38973-MSD	BK39594.D	07/17/14	00:01	4.39	4.41
MC32000-13	BK39595.D	07/17/14	00:20	4.39	4.41
MC32070-1	BK39596.D	07/17/14	00:40	4.39	4.42
MC32070-2	BK39597.D	07/17/14	00:59	4.39	4.41
MC32070-3	BK39598.D	07/17/14	01:19	4.39	4.41
MC32070-4	BK39599.D	07/17/14	01:38	4.39	4.41
MC32070-5	BK39600.D	07/17/14	01:57	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32070
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1285-CC1283	**Injection Date:**	07/17/14
Lab File ID:	BK39601.D	**Injection Time:**	02:16
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC32070-7	BK39602.D	07/17/14	02:36	4.39	4.42
GBK1285-ECC128	BK39603.D	07/17/14	02:55	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC32120

Sampling Date: 07/14/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 127

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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SGS ACCUTEST

October 7, 2016

Elizabeth Kunkel
AECOM, INC.
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110
Elizabeth.Kunkel@URS.com; bob.billman@urs.com

RE: SGS Accutest Job # MC32120

Dear Elizabeth Kunkel,

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC32120

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC32120-1	07/14/14	09:30	CWLC	07/15/14	AQ	Ground Water	ROST3MW-ROX-071414
MC32120-2	07/14/14	10:35	CWLC	07/15/14	AQ	Ground Water	MW5-ROX-071414
MC32120-3	07/14/14	12:35	CWLC	07/15/14	AQ	Ground Water	MW2-ROX-071414
MC32120-4	07/14/14	13:45	CWLC	07/15/14	AQ	Ground Water	MW22-ROX-071414
MC32120-5	07/14/14	00:00	CWLC	07/15/14	AQ	Trip Blank Water	TB-071414-HCL
MC32120-6	07/14/14	00:00	CWLC	07/15/14	AQ	Trip Blank Water	TB-071414-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC32 20

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** 0/7/20 6 2:5 : 4 PM

4 Samp e(s), 2 Tr p B ank(s) were co ected on 07/ 4/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 5/20 4 proper y preserved, at 2 2 Deg C and ntact These Samp es rece ved a job number of MC32 20 A st ng of the Laborato y Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report 1-Chlorohexane, Benzenethiol, Dibenz(a,h)acridine, Indene, Quinoline were searched in the library search and reported only if detections were found.

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2253

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32345- 2MS, MC32345- 2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Matrix: AQ **Batch ID:** MSV 225

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32 20- MS, MC32 20- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- MSV 225-BS Recovery(s) for , -D ch oroethene, Acry on tr e, Methy Tert Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MSV 225-BS Recovery(s) for Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane, V ny Acetate, V ny ch or de are outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Matr x Sp ke Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Acry on tr e, Benzene, Isopropy benzene, Methy Te t Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- Matr x Sp ke Dup cate Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, Ac y on tr e, Methy Te t Buty Ether, trans- ,2-D ch oroethene, 2-Ch oroethy v ny ether, Benzene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether, Benzene are outs de contro m ts for samp e MC32 20- MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- MC32 20- for Te t Buty A coho -D9: Outs de contro m ts Target ana ytes not assoc ated w th th s nterna standard
- MC32 20- MS/MSD has nterna standard outs de contro m ts due to poss b e matr x nterference Conf rmed by MS/MSD
- MC32 20-3,4 has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- MC32 20- MS/MSD for Bromomethane, Ch oroethane, Ch oromethane, V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- In t a ca brat on ver f cat on MSV 77-ICV 77 for d ch orod f uoromethane exceed 30% D fference (response b as h gh) Assoc ated samp es are non-detect for th s compound
- Cont nu ng ca brat on check standard MSV 225-CC 77 for , -d ch oroethene, methy ene ch or de, methy tert buty ether, acry on tr e, trans- ,2-d ch oroethene, v ny acetate, , -d ch oroethane, 2,2-d ch oropropane, carbon tetrach or de, trans- ,3-d ch oropropene, ch oromethane, v ny ch or de, bromomethane, ch oroethane, tr ch orof uoromethane exceed 20% D fference (response b as h gh) Assoc ated samp es are non-detect for these compounds

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP38979

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000- 6MS, MC32000- 6MSD were used as the QC samp es nd cated
- Samp e(s) MC32 20- , MC32 20-2, MC32 20-3, MC32 20-4 have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recovery(s) for Hexach orocyc opentad ene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- Matr x Sp ke Dup cate Recovery(s) for Benzo c Ac d, Pyr d ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference Refer to B ank Sp ke

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP38980

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000- 7MS, MC32000- 7MSD were used as the QC samp es nd cated
- Samp e(s) MC32 20- , MC32 20-2, MC32 20-3, MC32 20-4 have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP39069

- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC32236- 3MS, MC32236- 3MSD were used as the QC samp es nd cated
- A samp es were extracted w th n the recommended method ho d ng t me

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC32 20)

Summary of Hits

Job Number: MC32120
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32120-1	ROST3MW-ROX-071414					
Benzene		5.8	0.50	0.32	ug/l	SW846 8260C
Ethylbenzene		8.0	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		0.53 J	5.0	0.35	ug/l	SW846 8260C
Naphthalene		4.5 J	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		0.98 J	5.0	0.49	ug/l	SW846 8260C
Toluene		2.4	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		13.2	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		3.2 J	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		37.1	1.0	0.93	ug/l	SW846 8260C
o-Xylene		4.1	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		41.2	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.40 JB	5.4	0.19	ug/l	SW846 8270D
1-Methylnaphthalene		0.92	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.97	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.16 B	0.054	0.014	ug/l	SW846 8270D BY SIM
MC32120-2	MW5-ROX-071414					
Benzene		1.0	0.50	0.32	ug/l	SW846 8260C
sec-Butylbenzene		1.1 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		4.6 J	5.0	0.39	ug/l	SW846 8260C
Isopropylbenzene		0.49 J	5.0	0.35	ug/l	SW846 8260C
Toluene		1.6	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.33 J	5.0	0.32	ug/l	SW846 8260C
m,p-Xylene		2.0	1.0	0.93	ug/l	SW846 8260C
o-Xylene		0.73 J	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		2.7	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.37 JB	5.3	0.18	ug/l	SW846 8270D
Acenaphthene		0.075 J	0.11	0.073	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.52 B	0.21	0.053	ug/l	SW846 8270D BY SIM
Phenanthrene		0.088 B	0.053	0.013	ug/l	SW846 8270D BY SIM
MC32120-3	MW2-ROX-071414					
Benzene		10.2	0.50	0.32	ug/l	SW846 8260C
n-Butylbenzene		19.4	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		7.3	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		1.3 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		955	10	3.8	ug/l	SW846 8260C
Isopropylbenzene		96.6	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		8.0	5.0	0.37	ug/l	SW846 8260C
Naphthalene		79.2	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		112	5.0	0.49	ug/l	SW846 8260C

Summary of Hits

Job Number: MC32120
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/14/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		11.3	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		341	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		150	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		764	10	9.3	ug/l	SW846 8260C
o-Xylene		84.5	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		804	10	3.6	ug/l	SW846 8260C
Di-n-butyl phthalate		0.45 JB	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.37 J	2.2	0.36	ug/l	SW846 8270D
Acenaphthene		0.084 J	0.11	0.075	ug/l	SW846 8270D BY SIM
Fluoranthene		0.12	0.11	0.044	ug/l	SW846 8270D BY SIM
Fluorene		0.14	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		10.0	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		21.5	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.17 B	0.054	0.014	ug/l	SW846 8270D BY SIM
Pyrene		0.096 J	0.11	0.042	ug/l	SW846 8270D BY SIM
MC32120-4	**MW22-ROX-071414**					
Benzene		1740	50	32	ug/l	SW846 8260C
2-Butanone (MEK)		18.5	5.0	2.5	ug/l	SW846 8260C
n-Butylbenzene		34.9	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		13.0	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		13.7	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		1930	100	38	ug/l	SW846 8260C
Isopropylbenzene		153	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		8.5	5.0	0.37	ug/l	SW846 8260C
Naphthalene		282	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		205	5.0	0.49	ug/l	SW846 8260C
Toluene		3140	100	33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		353	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		262	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		3780	100	93	ug/l	SW846 8260C
o-Xylene		1850	100	36	ug/l	SW846 8260C
Xylene (total)		5640	100	36	ug/l	SW846 8260C
2,4-Dimethylphenol		28.1	11	0.61	ug/l	SW846 8270D
2-Methylphenol		10.2 J	11	0.25	ug/l	SW846 8270D
3&4-Methylphenol		20.4	11	0.51	ug/l	SW846 8270D
Di-n-butyl phthalate		0.57 JB	5.4	0.19	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.45 J	2.2	0.36	ug/l	SW846 8270D
Acenaphthene		0.13	0.11	0.075	ug/l	SW846 8270D BY SIM
Fluorene		0.15	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		19.8	0.22	0.054	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		35.5	0.22	0.081	ug/l	SW846 8270D BY SIM
Phenanthrene		0.18 B	0.054	0.014	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC32120
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/14/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32120-5	TB-071414-HCL					
No hits reported in this sample.						
MC32120-6	TB-071414-ST					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	5.8	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	8.0	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.53	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	4.5	5.0	0.69	ug/l	J
103-65-1	n-Propylbenzene	0.98	5.0	0.49	ug/l	J
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	2.4	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	13.2	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.2	5.0	0.38	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	37.1	1.0	0.93	ug/l	
95-47-6	o-Xylene	4.1	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	41.2	1.0	0.36	ug/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:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	90%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03982.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.40	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/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:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.36	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	70%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90893.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.92	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	0.97	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.16	0.054	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

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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:	ROST3MW-ROX-071414		
Lab Sample ID:	MC32120-1	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39763.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	35.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	110%		36-173%
460-00-4	Bromofluorobenzene (S)	99%		36-173%

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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33193.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1.0	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	1.1	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	4.6	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	0.49	5.0	0.35	ug/l	J
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	1.6	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.33	5.0	0.32	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	2.0	1.0	0.93	ug/l	
95-47-6	o-Xylene	0.73	1.0	0.36	ug/l	J
1330-20-7	Xylene (total)	2.7	1.0	0.36	ug/l	

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	92%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03983.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.33	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.42	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.60	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.24	ug/l	
	3&4-Methylphenol	ND	11	0.50	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.57	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.3	0.32	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.68	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.50	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.56	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.59	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.37	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.49	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.32	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.37	5.3	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.3	0.30	ug/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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.3	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	0.36	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.32	ug/l	
78-59-1	Isophorone	ND	5.3	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.42	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.42	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.43	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	86%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90894.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.075	0.11	0.073	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.053	ug/l	
120-12-7	Anthracene	ND	0.11	0.098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.041	ug/l	
218-01-9	Chrysene	ND	0.11	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.034	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.043	ug/l	
86-73-7	Fluorene	ND	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	0.52	0.21	0.053	ug/l	B
91-57-6	2-Methylnaphthalene	ND	0.21	0.079	ug/l	
85-01-8	Phenanthrene	0.088	0.053	0.013	ug/l	B
129-00-0	Pyrene	ND	0.11	0.041	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	MW5-ROX-071414		
Lab Sample ID:	MC32120-2	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39764.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	118%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

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:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33194.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67795.D	10	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	10.2	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	19.4	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	7.3	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	1.3	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	955 [a]	10	3.8	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	96.6	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	8.0	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	79.2	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	112	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	11.3	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	341	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	150	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	764 [a]	10	9.3	ug/l	
95-47-6	o-Xylene	84.5	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	804 [a]	10	3.6	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	73%	106%	70-130%
2037-26-5	Toluene-D8	96%	106%	70-130%
460-00-4	4-Bromofluorobenzene	93%	110%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(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:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03984.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	ND	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.45	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/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:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.37	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	92%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90895.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.084	0.11	0.075	ug/l	J
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	0.12	0.11	0.044	ug/l	
86-73-7	Fluorene	0.14	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	10.0	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	21.5	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.17	0.054	0.014	ug/l	B
129-00-0	Pyrene	0.096	0.11	0.042	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	74%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW2-ROX-071414		
Lab Sample ID:	MC32120-3	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39765.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	119%		36-173%
460-00-4	Bromofluorobenzene (S)	115%		36-173%

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:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33195.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67796.D	100	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1740 [a]	50	32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	18.5	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	34.9	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	13.0	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	13.7	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	1930 [a]	100	38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	153	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	8.5	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	282	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	205	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	3140 [a]	100	33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	353	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	262	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	3780 [a]	100	93	ug/l	
95-47-6	o-Xylene	1850 [a]	100	36	ug/l	
1330-20-7	Xylene (total)	5640 [a]	100	36	ug/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:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	79%	105%	70-130%
2037-26-5	Toluene-D8	83%	106%	70-130%
460-00-4	4-Bromofluorobenzene	104%	114%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(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:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X03985.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.43	ug/l	
105-67-9	2,4-Dimethylphenol	28.1	11	0.61	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	10.2	11	0.25	ug/l	J
	3&4-Methylphenol	20.4	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.1	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.58	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	ND	5.4	0.33	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.40	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.69	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.51	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.27	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.4	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.29	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.28	ug/l	
84-74-2	Di-n-butyl phthalate	0.57	5.4	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.4	0.31	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.4	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.45	2.2	0.36	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.31	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.33	ug/l	
78-59-1	Isophorone	ND	5.4	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.43	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	103%		15-110%
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	92%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90896.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.13	0.11	0.075	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.021	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.034	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	ND	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.044	ug/l	
86-73-7	Fluorene	0.15	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.033	ug/l	
90-12-0	1-Methylnaphthalene	19.8	0.22	0.054	ug/l	
91-57-6	2-Methylnaphthalene	35.5	0.22	0.081	ug/l	
85-01-8	Phenanthrene	0.18	0.054	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW22-ROX-071414		
Lab Sample ID:	MC32120-4	**Date Sampled:**	07/14/14
Matrix:	AQ - Ground Water	**Date Received:**	07/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39766.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

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:	TB-071414-HCL		
Lab Sample ID:	MC32120-5	**Date Sampled:**	07/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33187.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-071414-HCL		
Lab Sample ID:	MC32120-5	**Date Sampled:**	07/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-071414-HCL		
Lab Sample ID:	MC32120-5	**Date Sampled:**	07/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/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:	TB-071414-ST		
Lab Sample ID:	MC32120-6	**Date Sampled:**	07/14/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39767.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	100%		36-173%
460-00-4	Bromofluorobenzene (S)	98%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

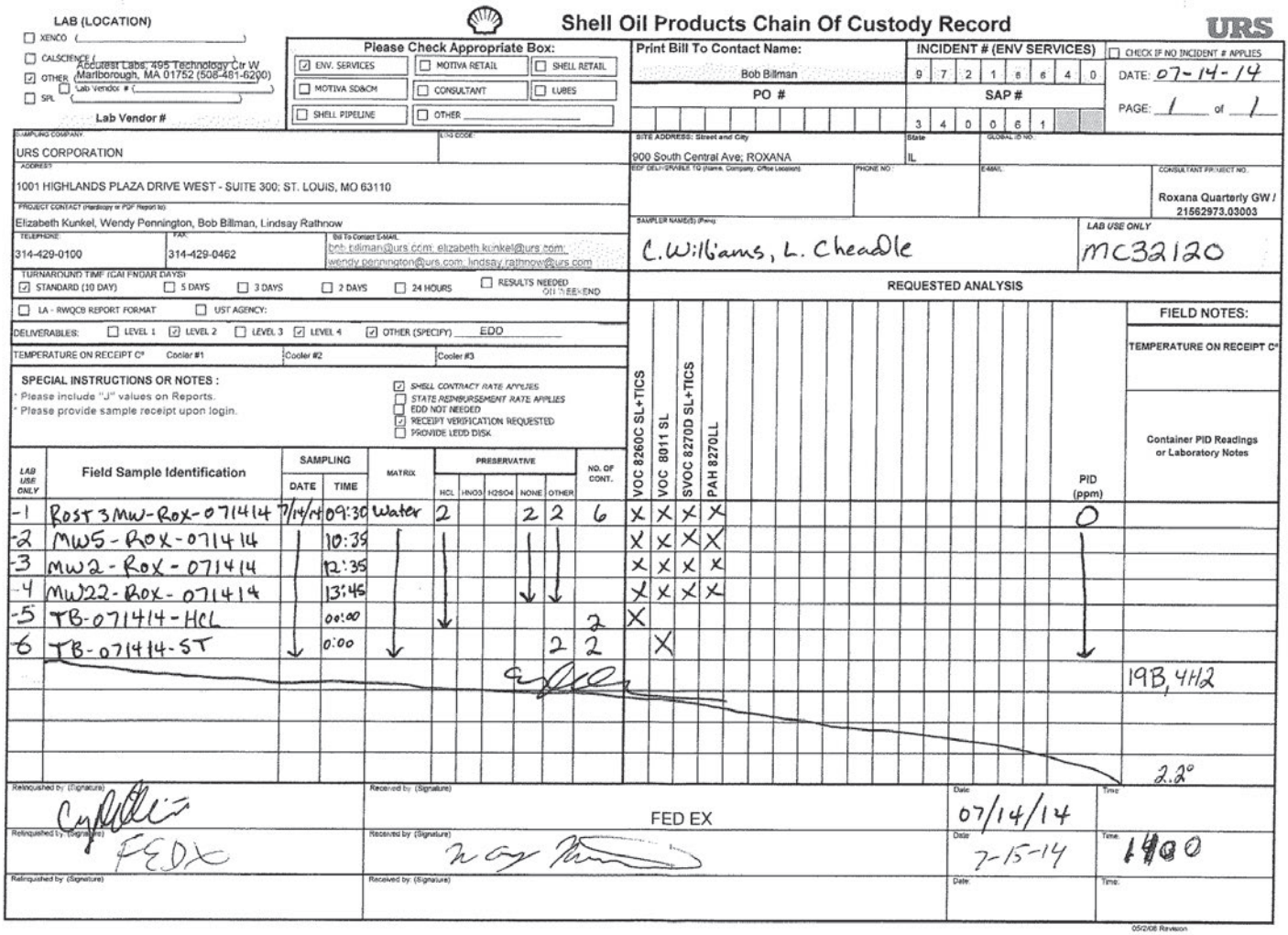
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER Accutest Labs: 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200)
☐ SPL ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
PO #
SAP #: 3 4 0 0 6 1
DATE: 07-14-14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
SAMPLER NAME(S) (Print): C. Williams, L. Cheadle
LAB USE ONLY: MC32120

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	ROST 3 MW-ROX-071414	7/14/14	09:30	Water	2			2	2	6	X	X	X	X	0	
-2	MW5-ROX-071414		10:35								X	X	X	X		
-3	MW2-ROX-071414		12:35								X	X	X	X		
-4	MW22-ROX-071414		13:45								X	X	X	X		
-5	TB-071414-HCL		00:00							2	X					
-6	TB-071414-ST		0:00						2	2		X				
																19B, 4H2
																2.2°

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature) FED EX	Date: 07/14/14	Time:
Relinquished by: (Signature) FEDX	Received by: (Signature)	Date: 7-15-14	Time: 1400
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2008 Revision

5.1 5

MC32120: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32120 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/15/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

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MC32120: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC32120 **Sample:** MSH2244-ICC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67478.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Response Factor Report MSH

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Calibration Files
0.25=h67472.d 0.5 =h67473.d 1 =h67474.d 5 =h67475.d
10 =h67476.d 25 =h67477.d 50 =h67478.d 100 =h67479.d
200 =h67480.d 400 =h67481.d = =

Compound

	0.25	0.5	1	5	10	25	50	100	200	400	Avg	%RSD
1) I 1,4-difluorobenzene	----------ISTD----------											
2) benzene	1.475	1.213	1.387	1.287	1.345	1.193	1.180	1.069	1.022		1.241	11.86
3) I 1,4-dichlorobenzene-d	----------ISTD----------											
4) 1,1,2,2-tetrachloroethane	1.087	0.899	1.040	0.836	0.849	0.774	0.744	0.688	0.598		0.835	18.91

---- Quadratic regression ---- Coefficient = 0.9990
Response Ratio = 0.00415 + 0.80280 *A + -0.02603 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

h140716wx.m Mon Oct 19 11:30:13 2015

Initial Calibration Verification

Job Number: MC32120 **Sample:** MSH2244-ICV2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67492.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140717\h67492.d Vial: 4
Acq On : 17 Jul 2014 1:41 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32302,msh2244,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.49
2 p	benzene	1.241	1.231	0.8	106	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	49.981	0.0	105	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Mon Oct 19 15:42:36 2015

Continuing Calibration Summary

Job Number: MC32120 **Sample:** MSH2253-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67780.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140728\h67780.d Vial: 2
Acq On : 28 Jul 2014 9:00 am Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32366,msh2253,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00	9.49
2 p	benzene	1.241	1.202	3.1	77	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	51.545	-3.1	80	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 11:01:29 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

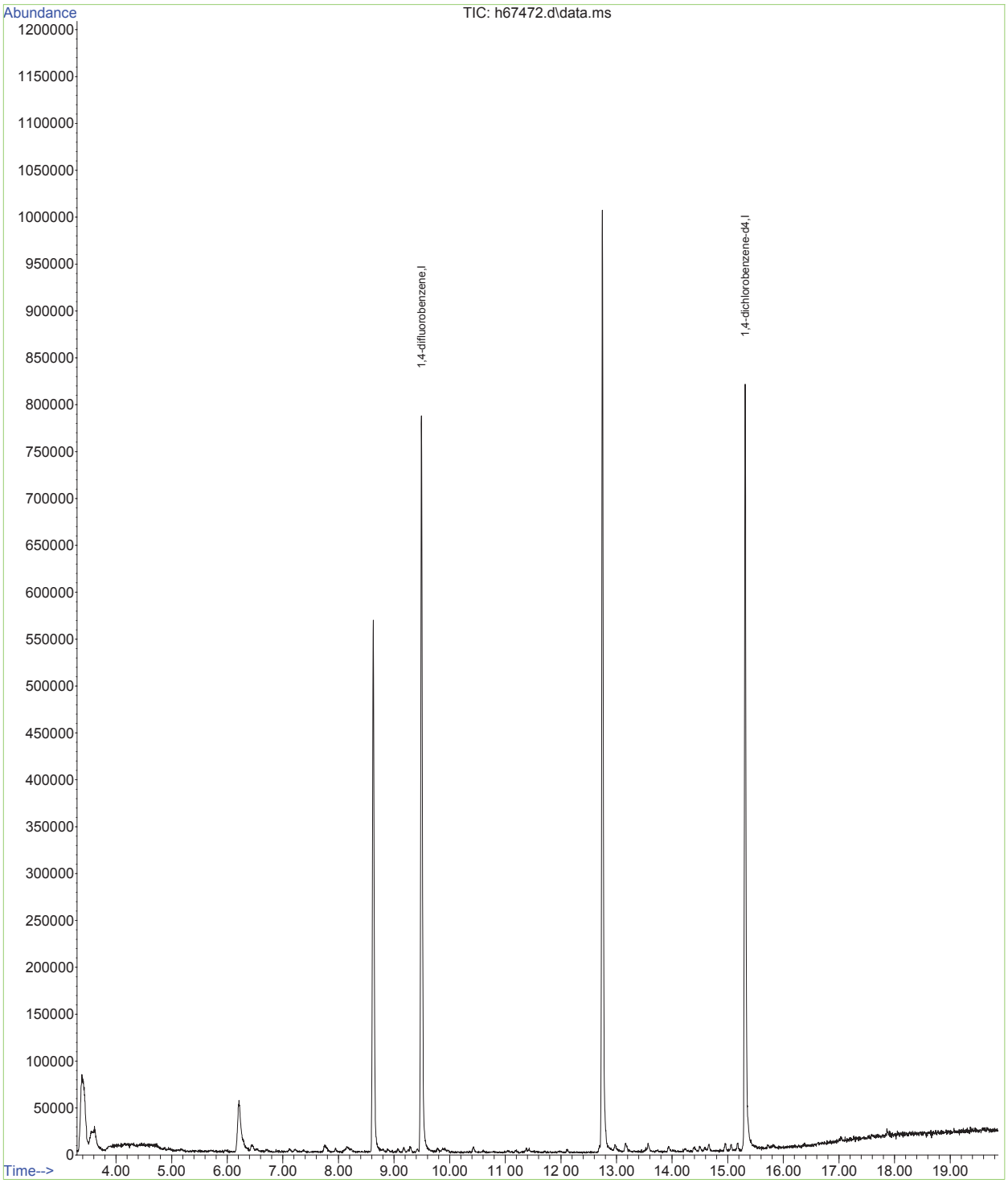
Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	684493	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	236246	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

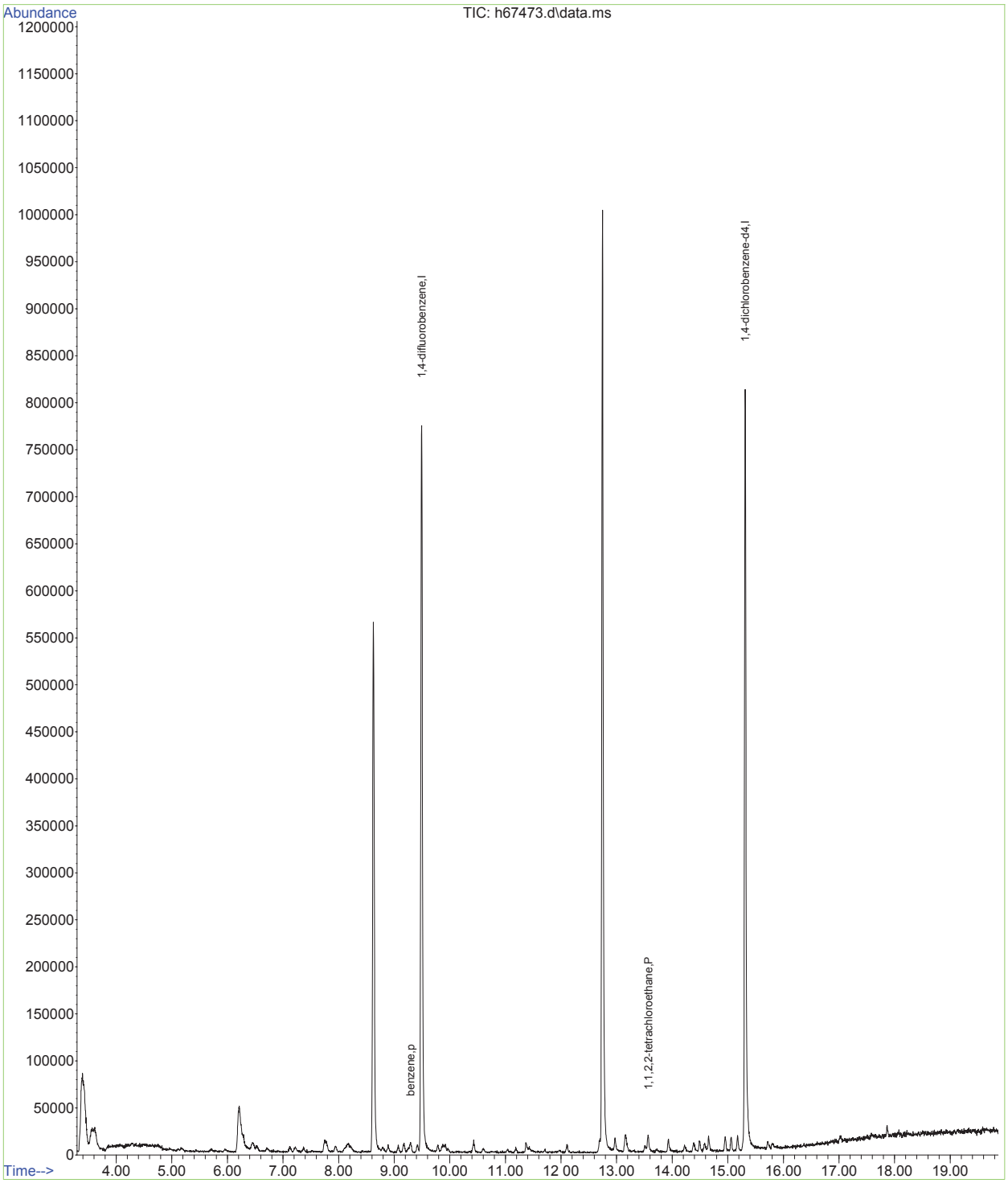
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	677191	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	233786	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.292	78	9988m	0.62	ug/L	
4) 1,1,2,2-tetrachloroethane	13.572	83	2541	0.70	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

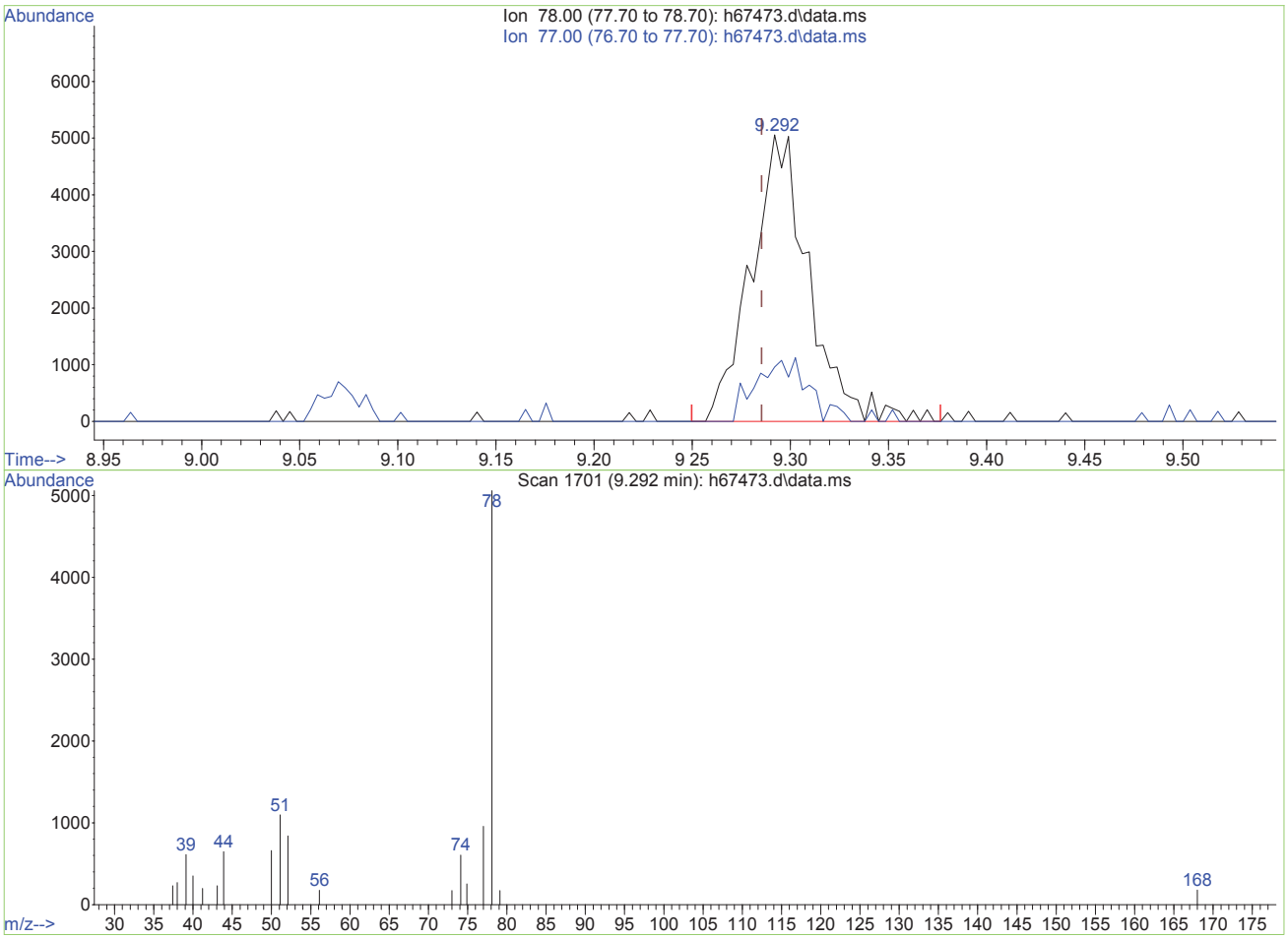
Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:19:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:18:16 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.64ug/L

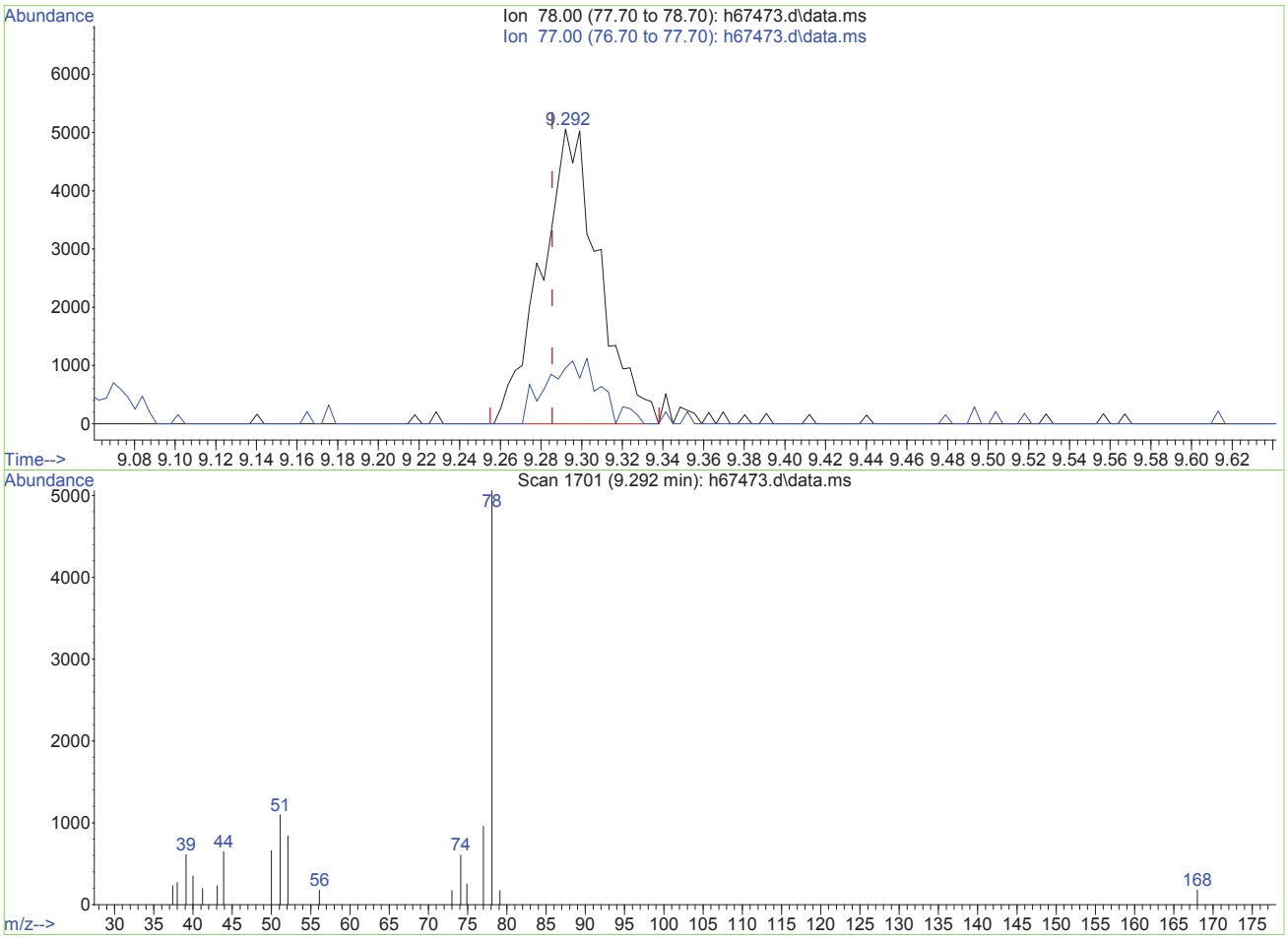
response 10328

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.62ug/L m

response 9988

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

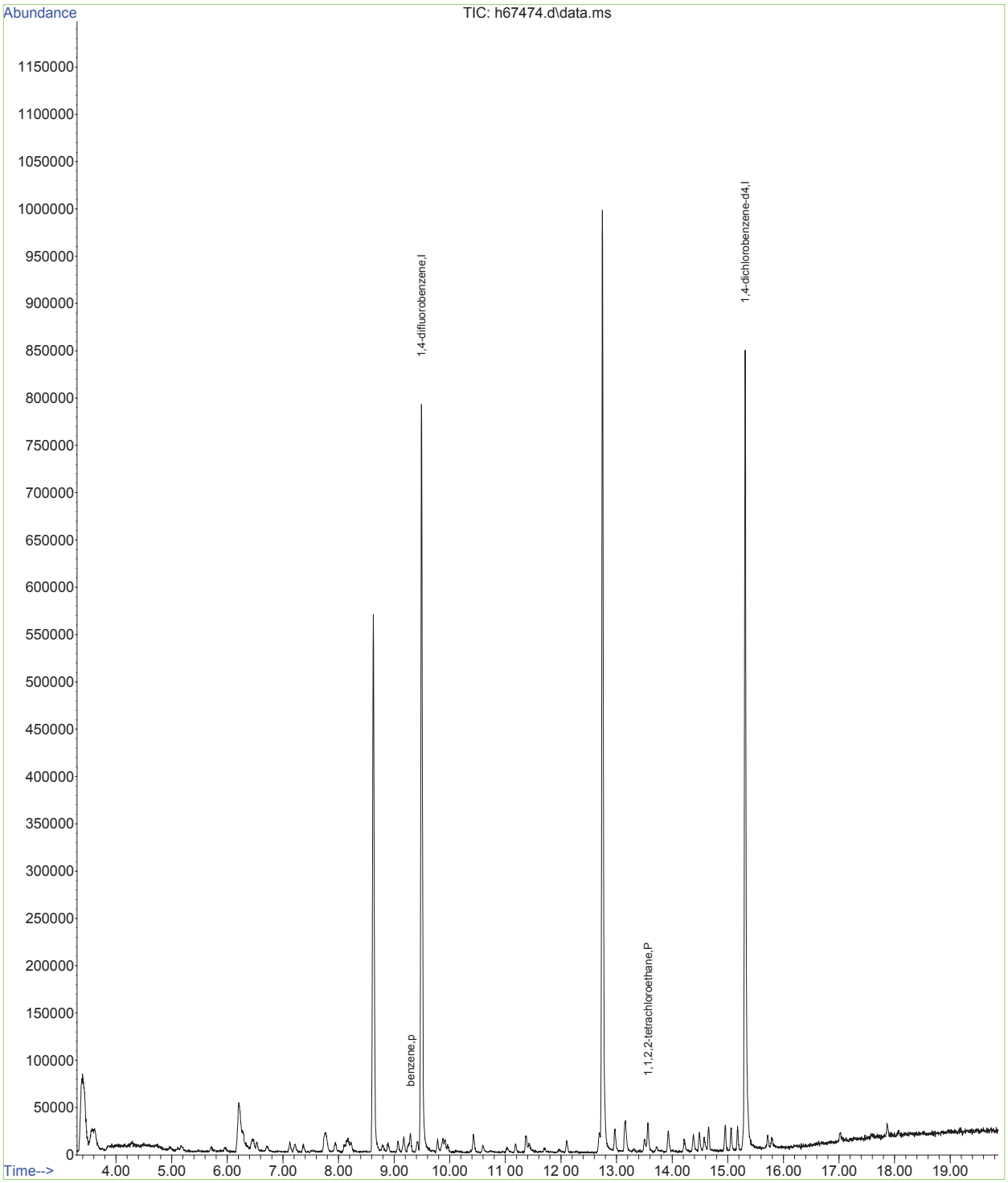
Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	687264	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	240259	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.291	78	16672	1.02	ug/L	95
4) 1,1,2,2-tetrachloroethane	13.565	83	4319	1.16	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

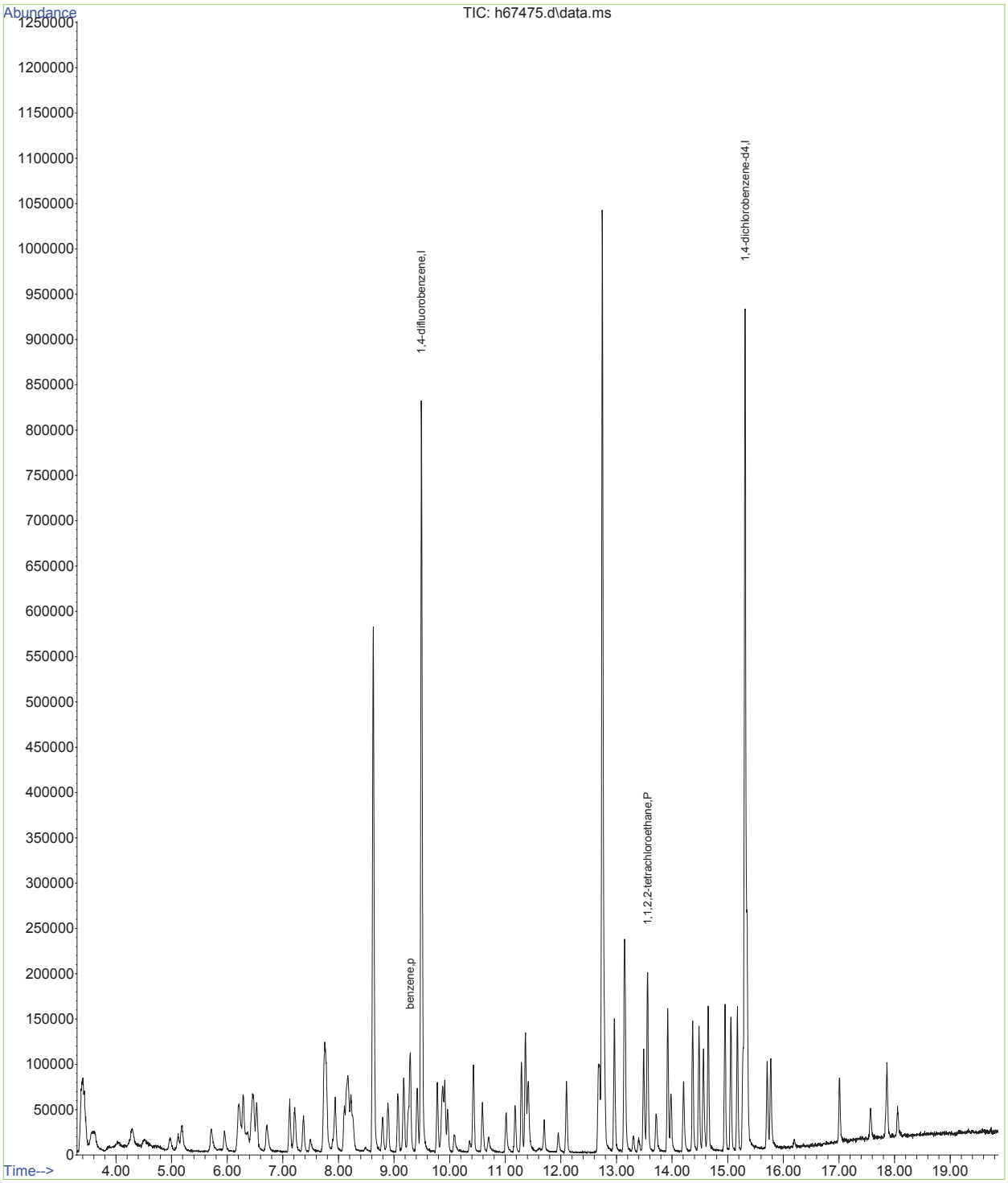
Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699432	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	259949	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	97018	5.81	ug/L	93
4) 1,1,2,2-tetrachloroethane	13.559	83	27040	6.72	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

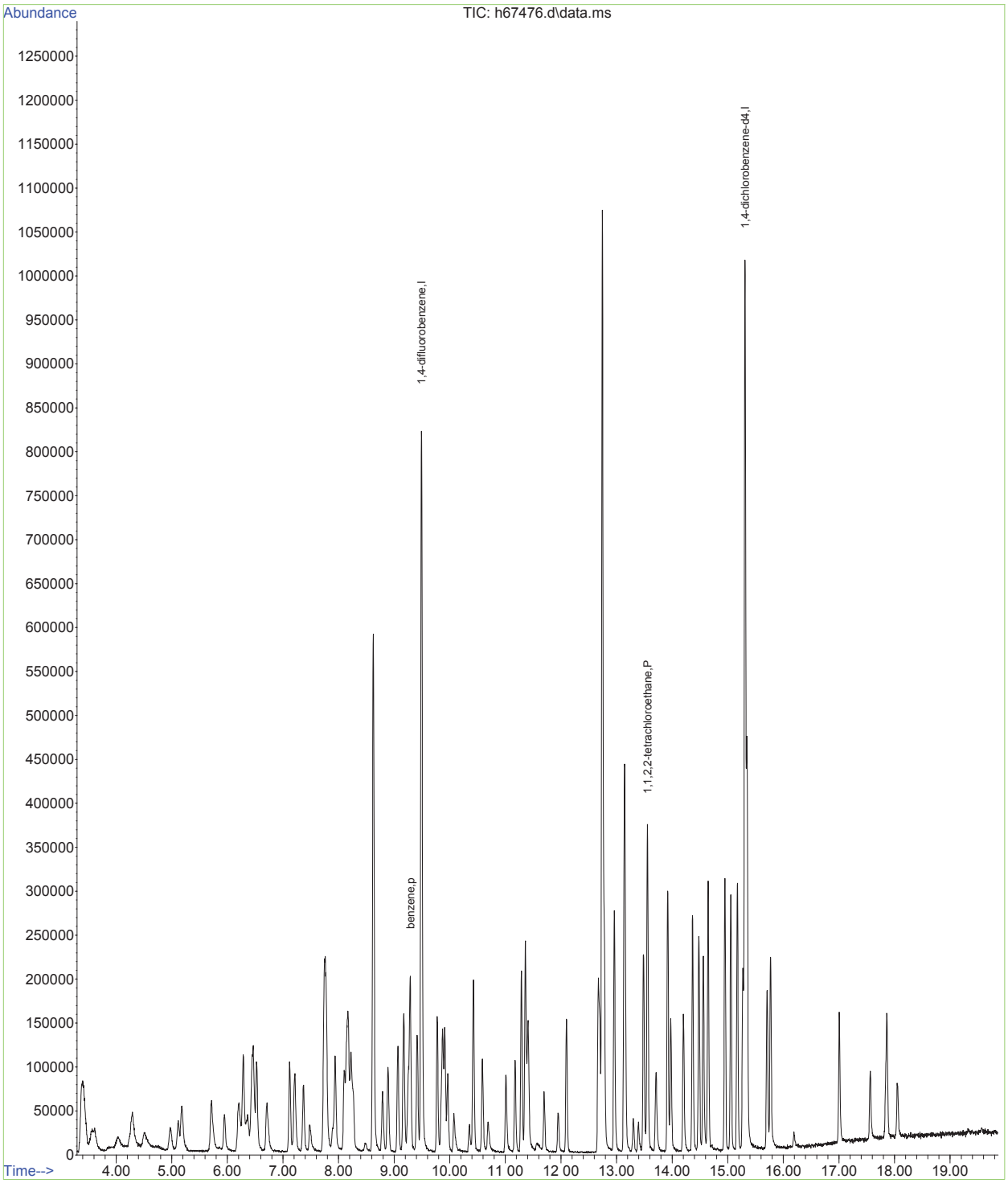
Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	695845	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	274980	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	179063	10.79	ug/L	99
4) 1,1,2,2-tetrachloroethane	13.560	83	45957	10.80	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

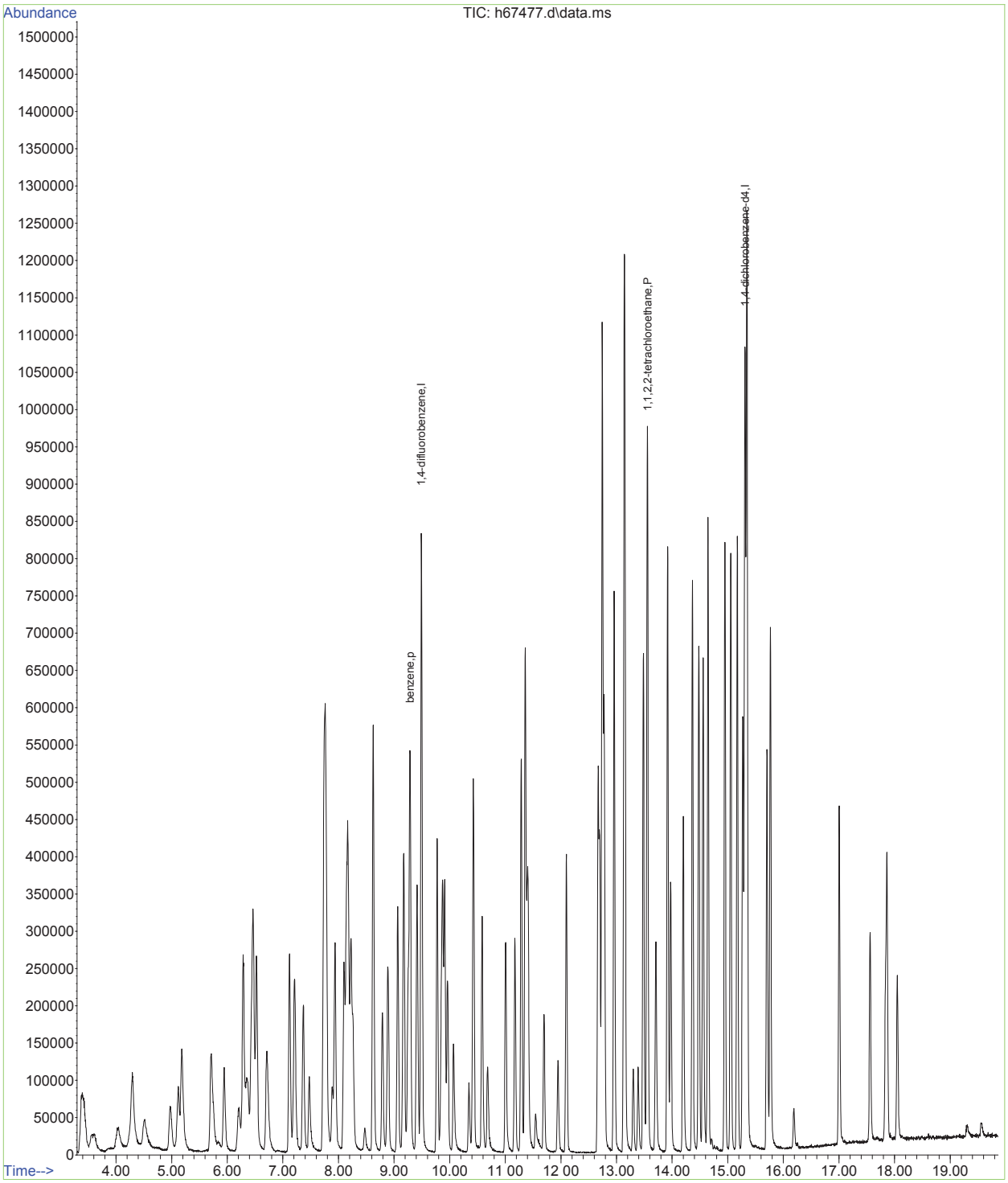
Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699612	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	289791	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	470565	28.19	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.558	83	122945	27.42	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

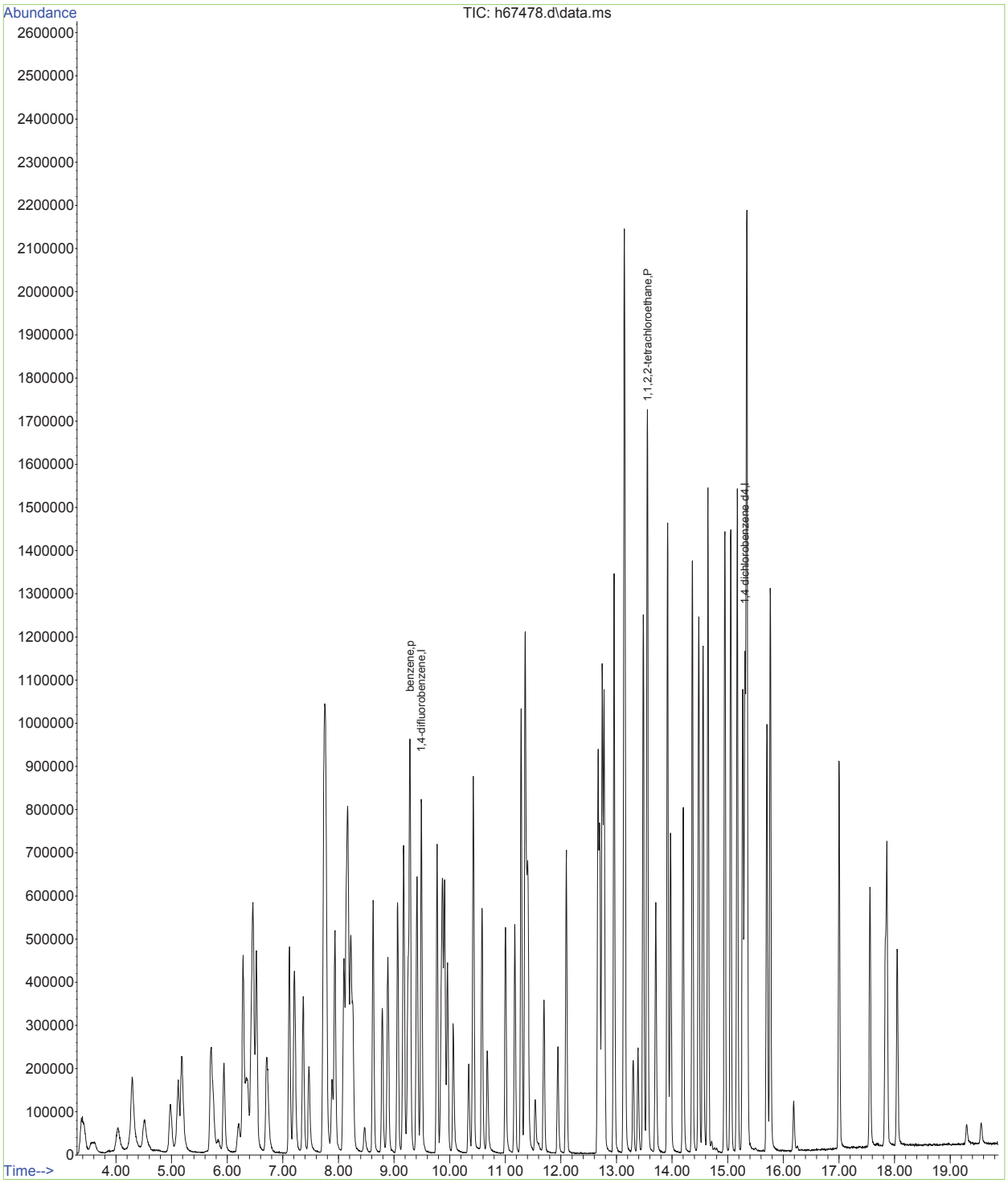
Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	694753	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	295278	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	828803	50.00	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.559	83	228425	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



SGS ACCUTEST MC32120

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

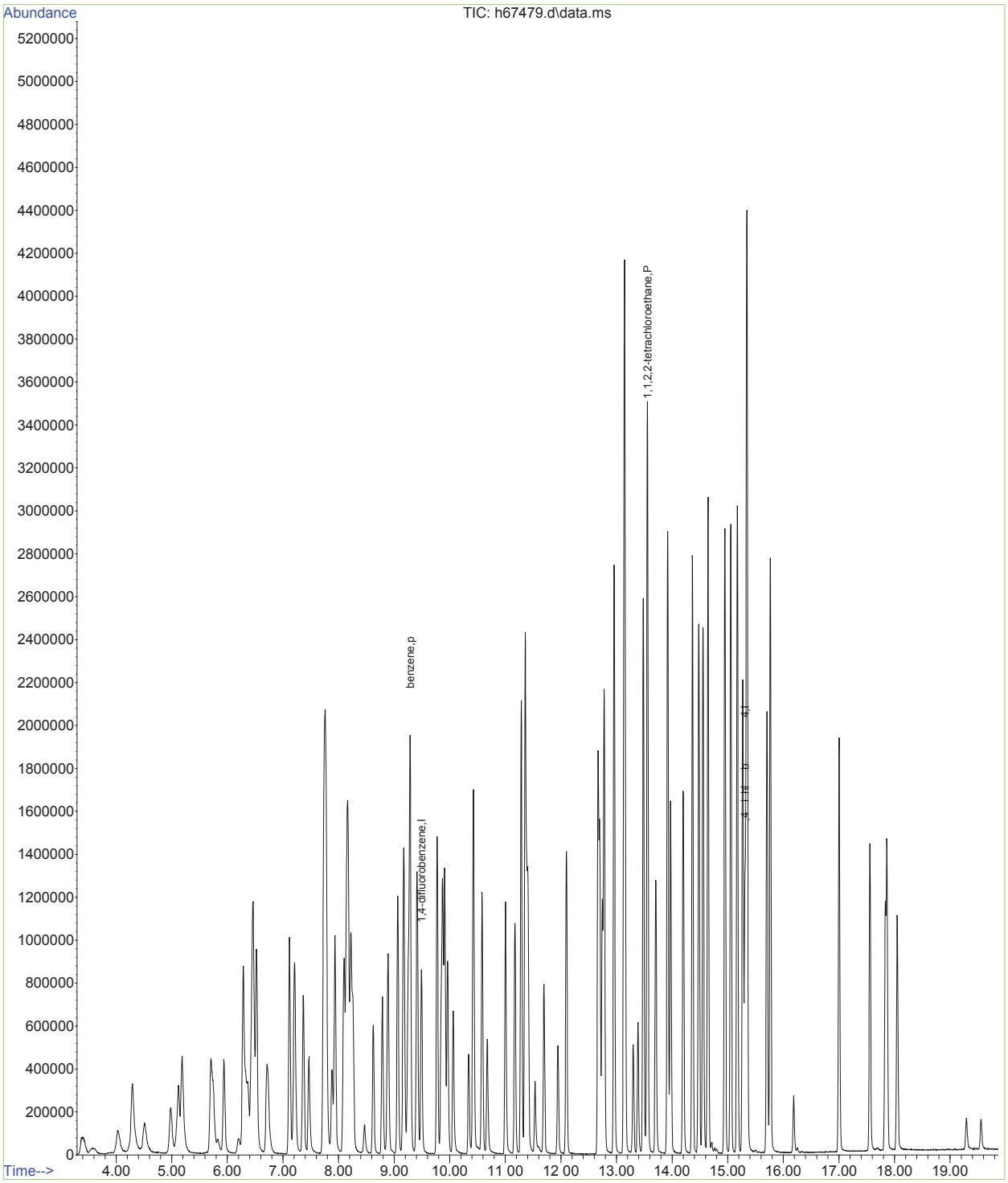
Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	708246	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	308032	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1672064	98.95	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.559	83	458386	96.18	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

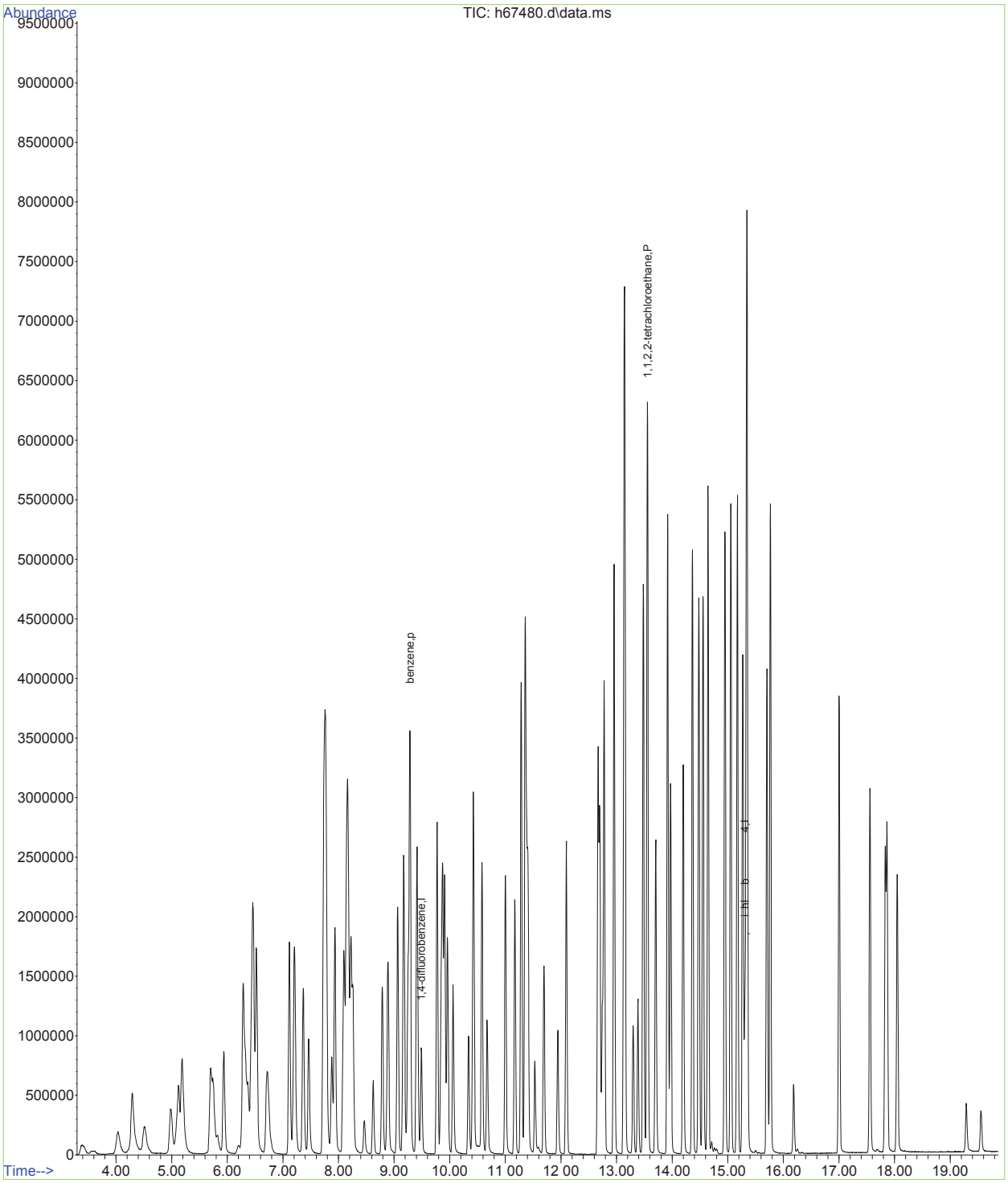
Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	716390	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	313007	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	3064468	179.29	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	861357	177.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

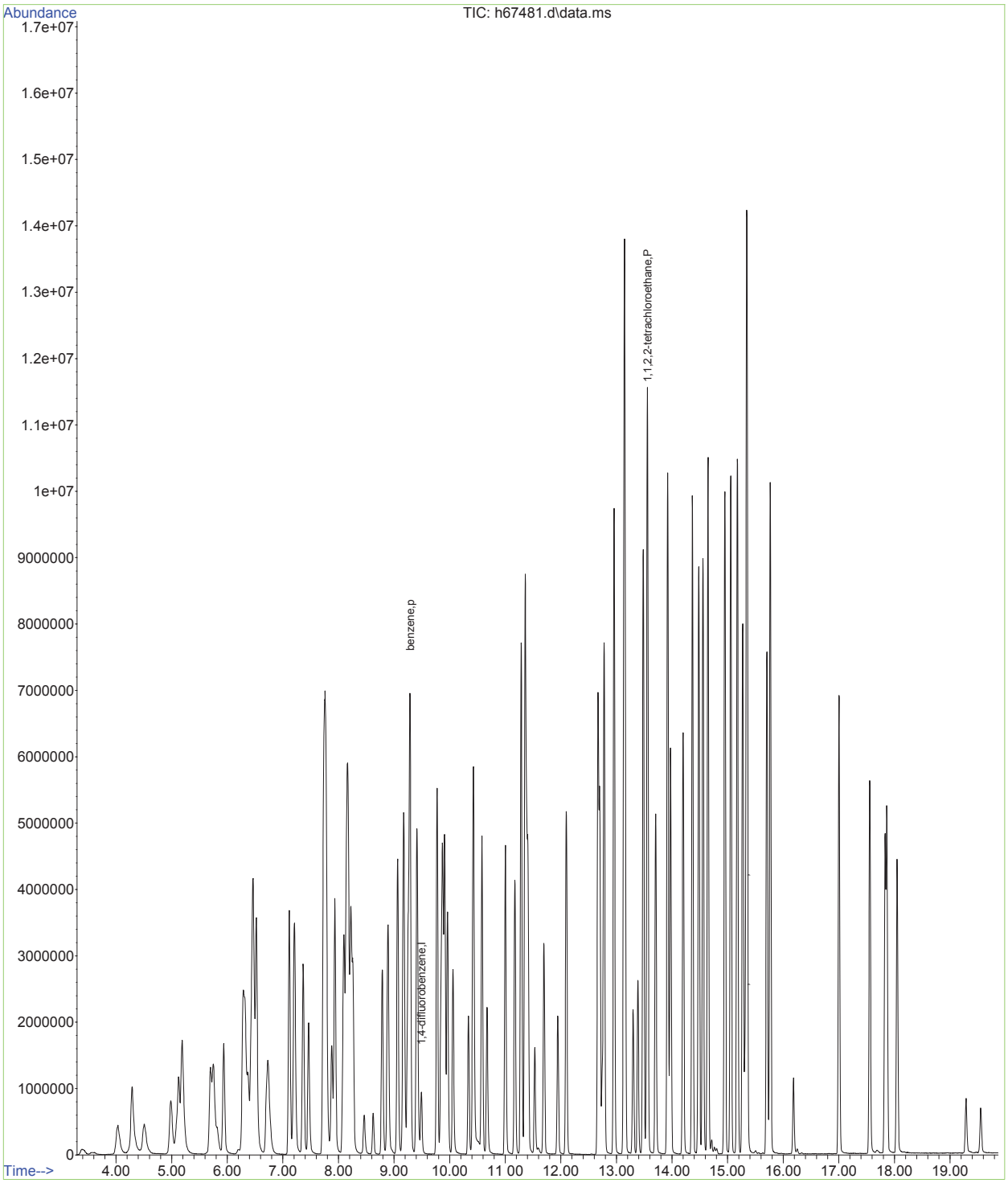
Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	739850	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	313899	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	6047226	342.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.561	83	1502858	309.45	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

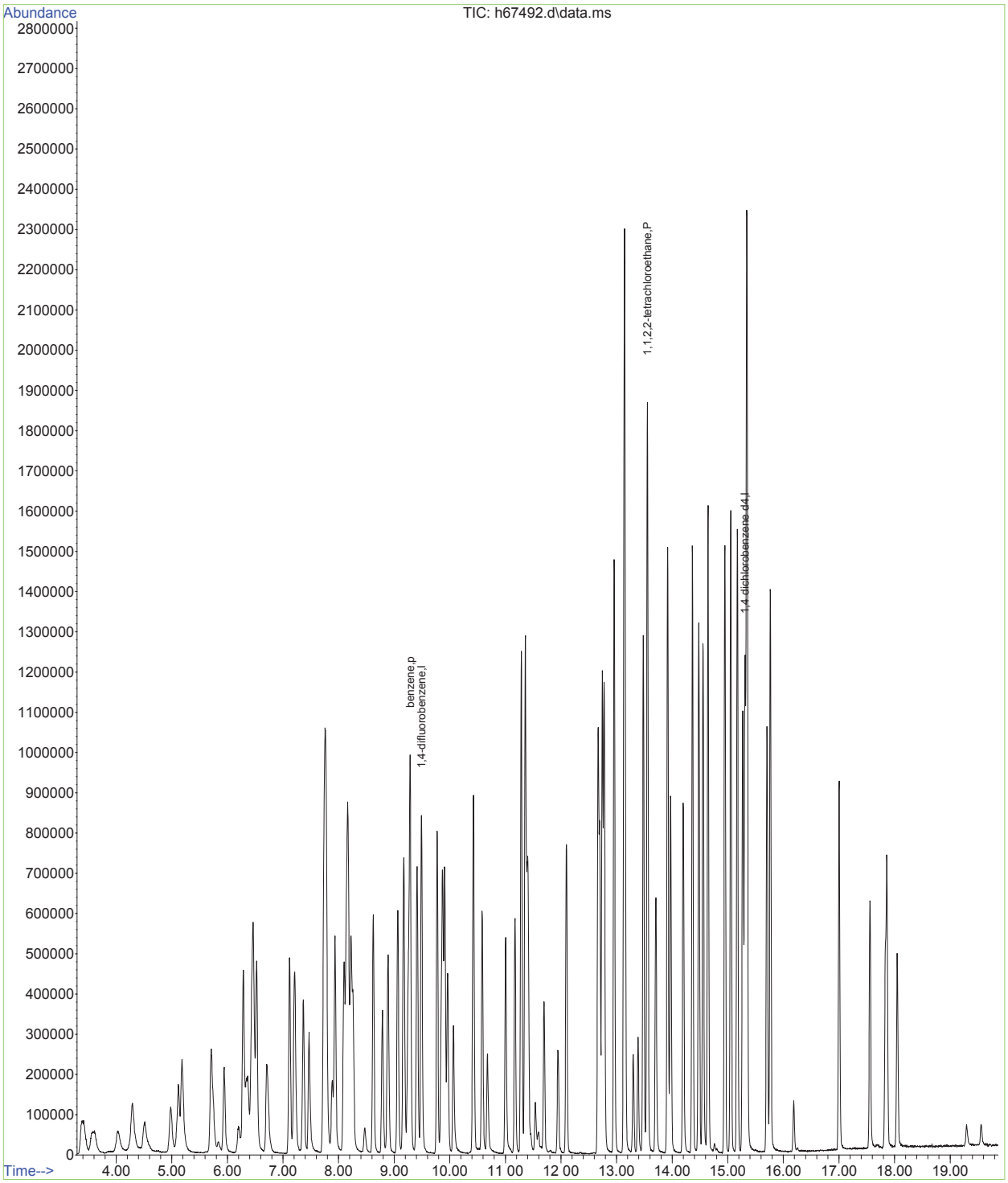
Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	710770	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	307965	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	874815	49.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	240411	49.98	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



SGS ACCUTEST MC32120

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

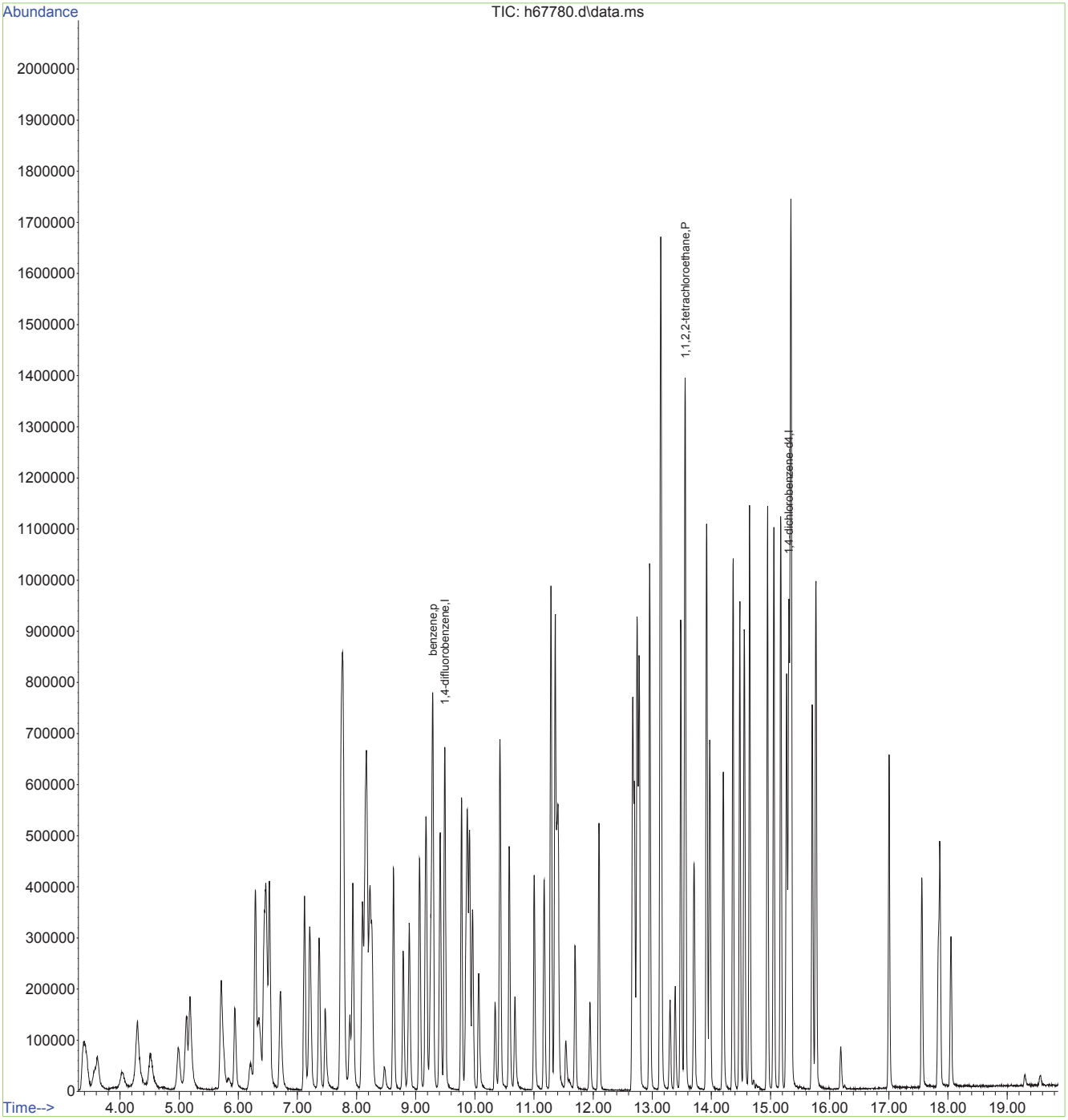
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	533886	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228339	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	641479	48.40	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.560	83	183606	51.54	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67796.d
Acq On : 28 Jul 2014 4:31 pm
Operator : amym
Sample : mc32120-4
Misc : ms32359,msh2253,,,,5,100
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 20 11:00:09 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

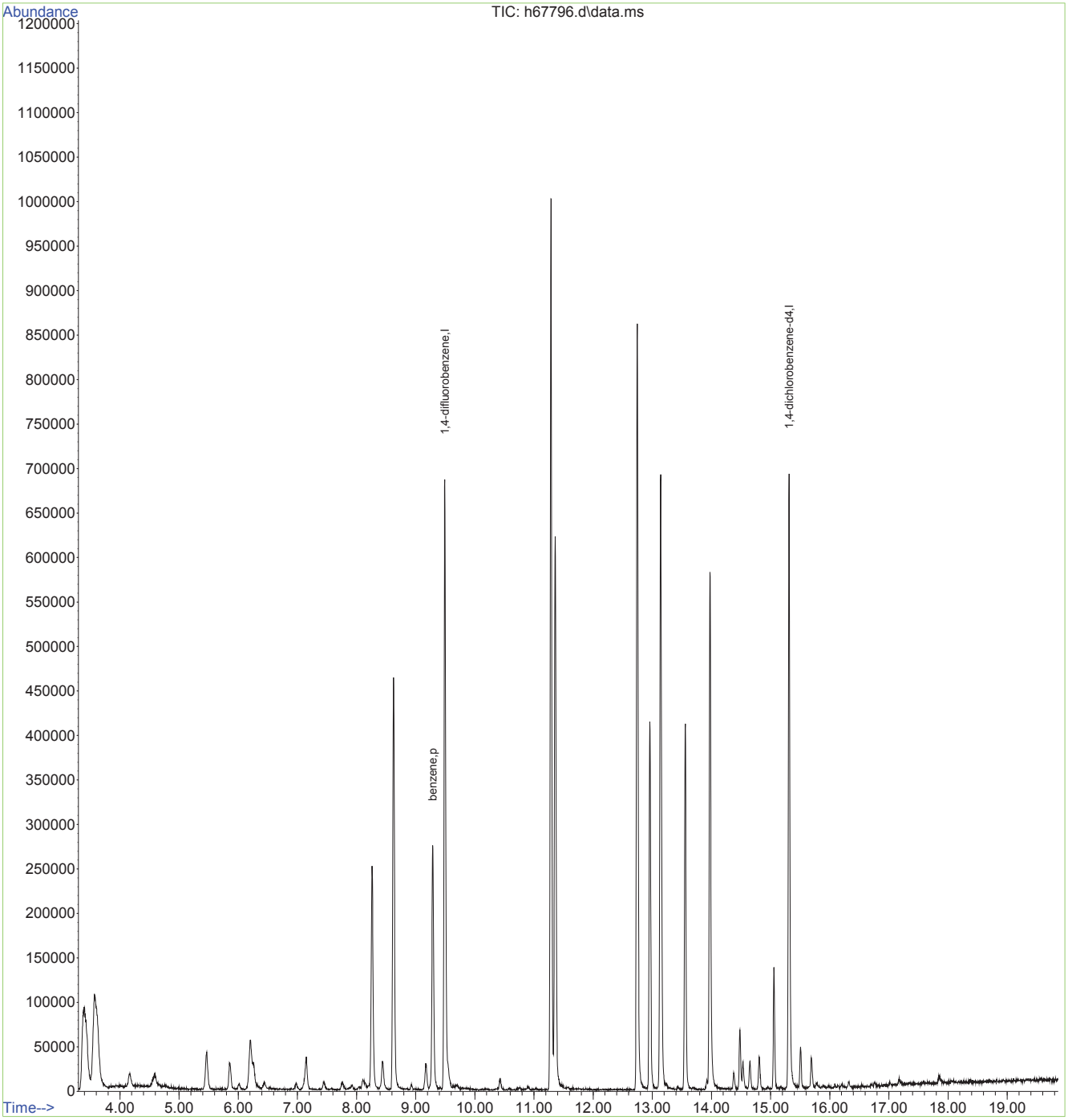
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	553874	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	180959	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	239529	17.42	ug/L	99

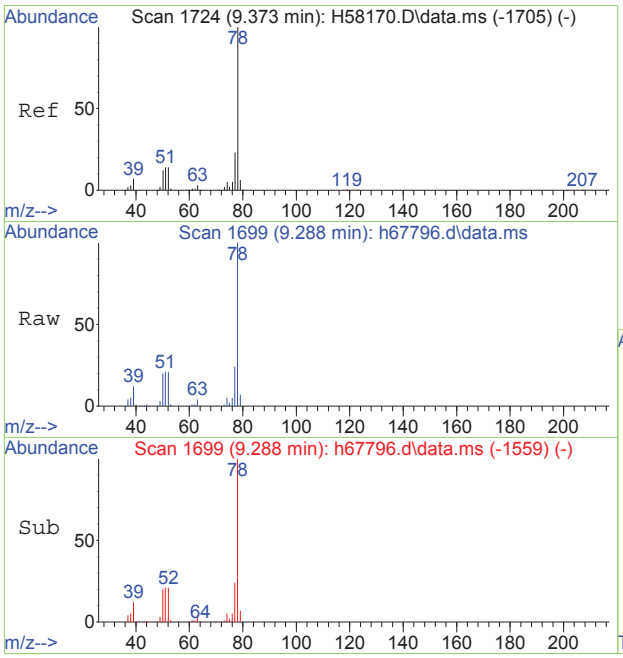
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67796.d
Acq On : 28 Jul 2014 4:31 pm
Operator : amym
Sample : mc32120-4
Misc : ms32359,msh2253,,,,5,100
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 20 11:00:09 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

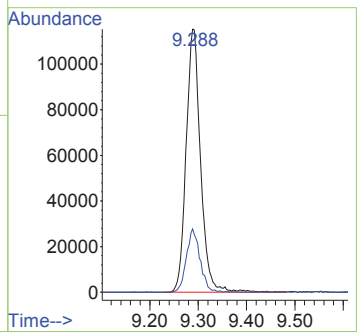




#2
benzene
Concen: 17.42 ug/L
RT: 9.288 min Scan# 1699
Delta R.T. 0.003 min
Lab File: h67796.d
Acq: 28 Jul 2014 4:31 pm

Tgt Ion: 78 Resp: 239529

Ion	Ratio	Lower	Upper
78	100		
77	24.1	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

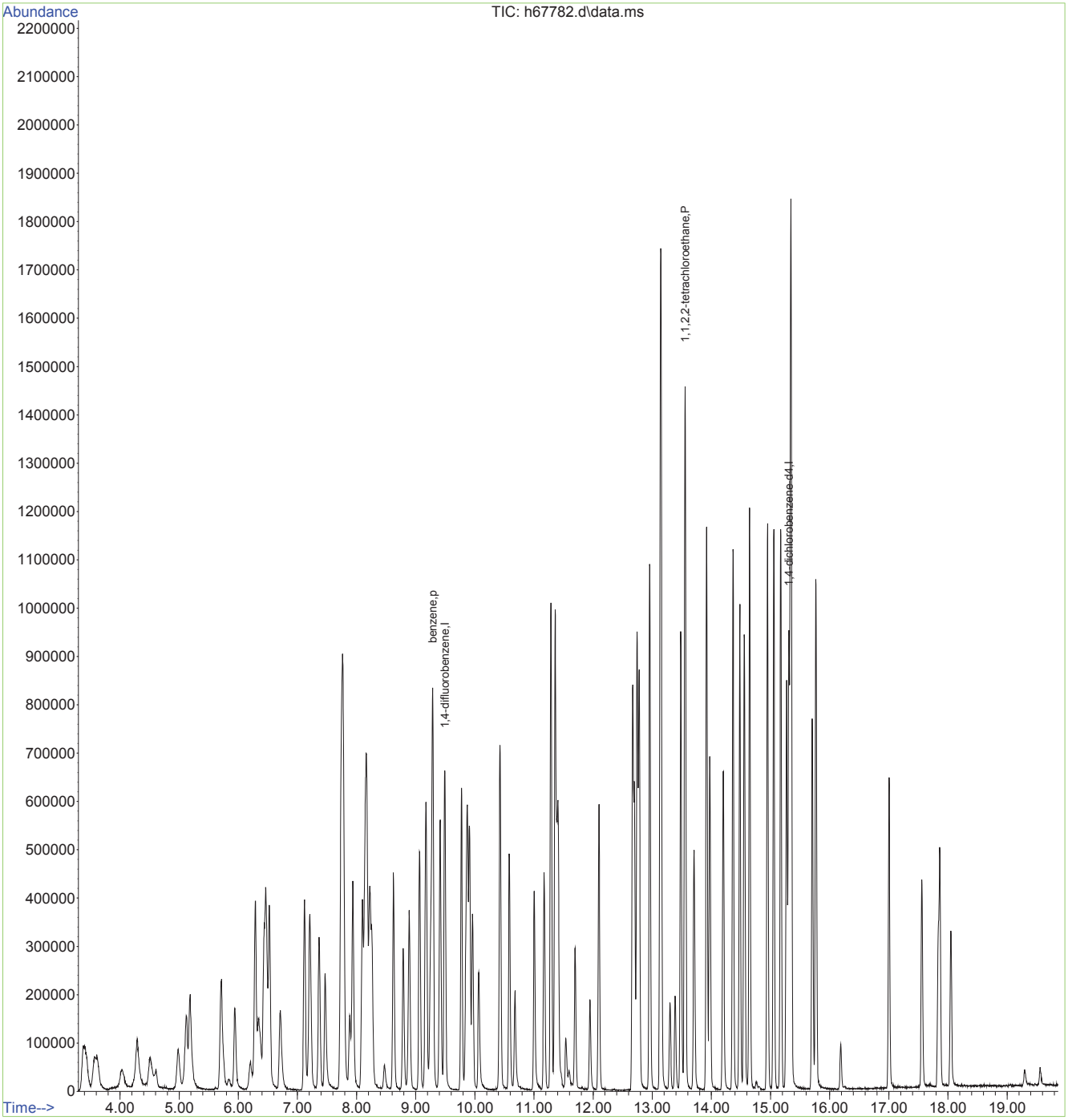
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.495	114	538287	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228719	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	686933	51.41	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	193097	54.23	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	471219	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	150694	50.00	ug/L	0.00

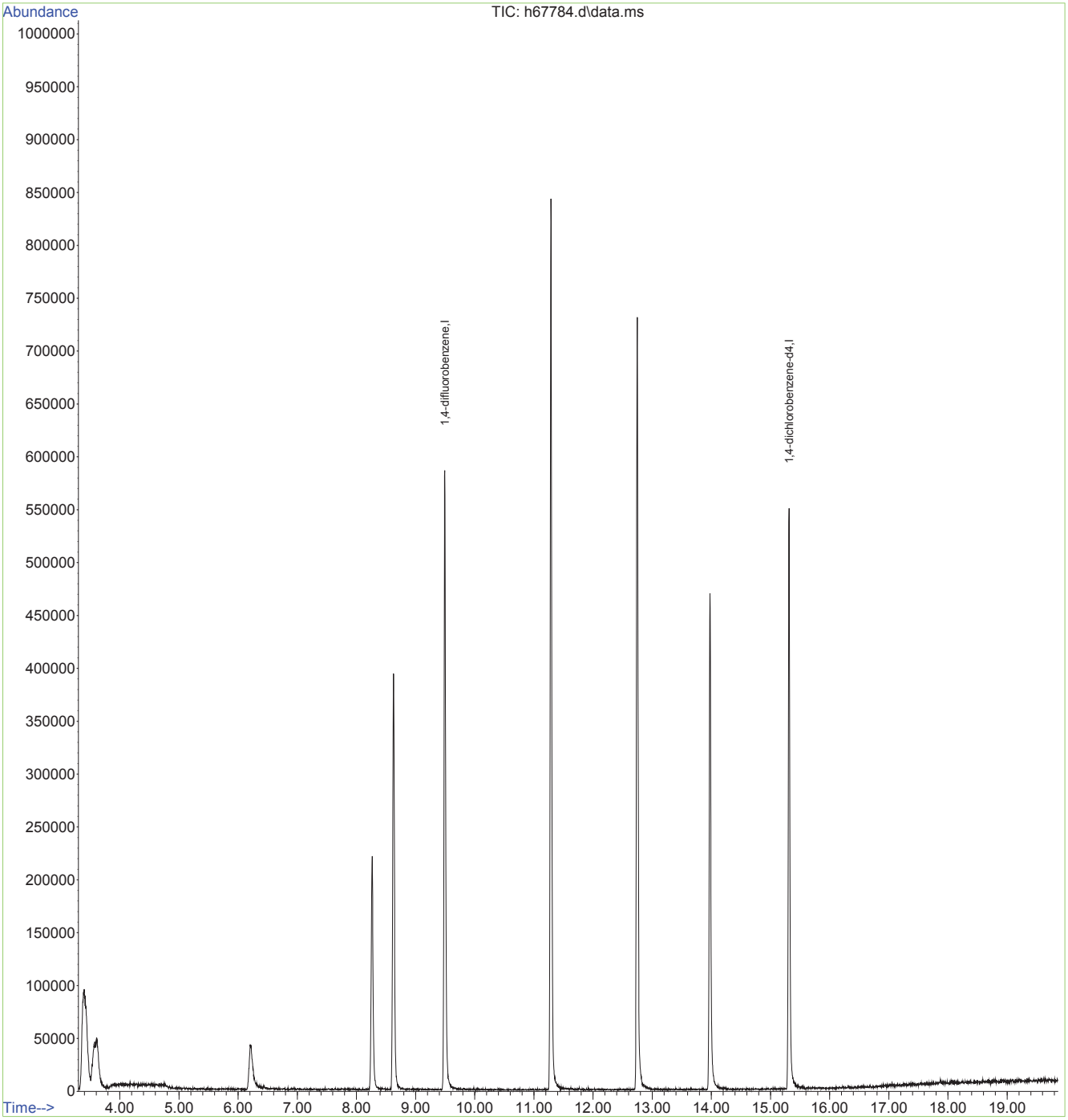
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

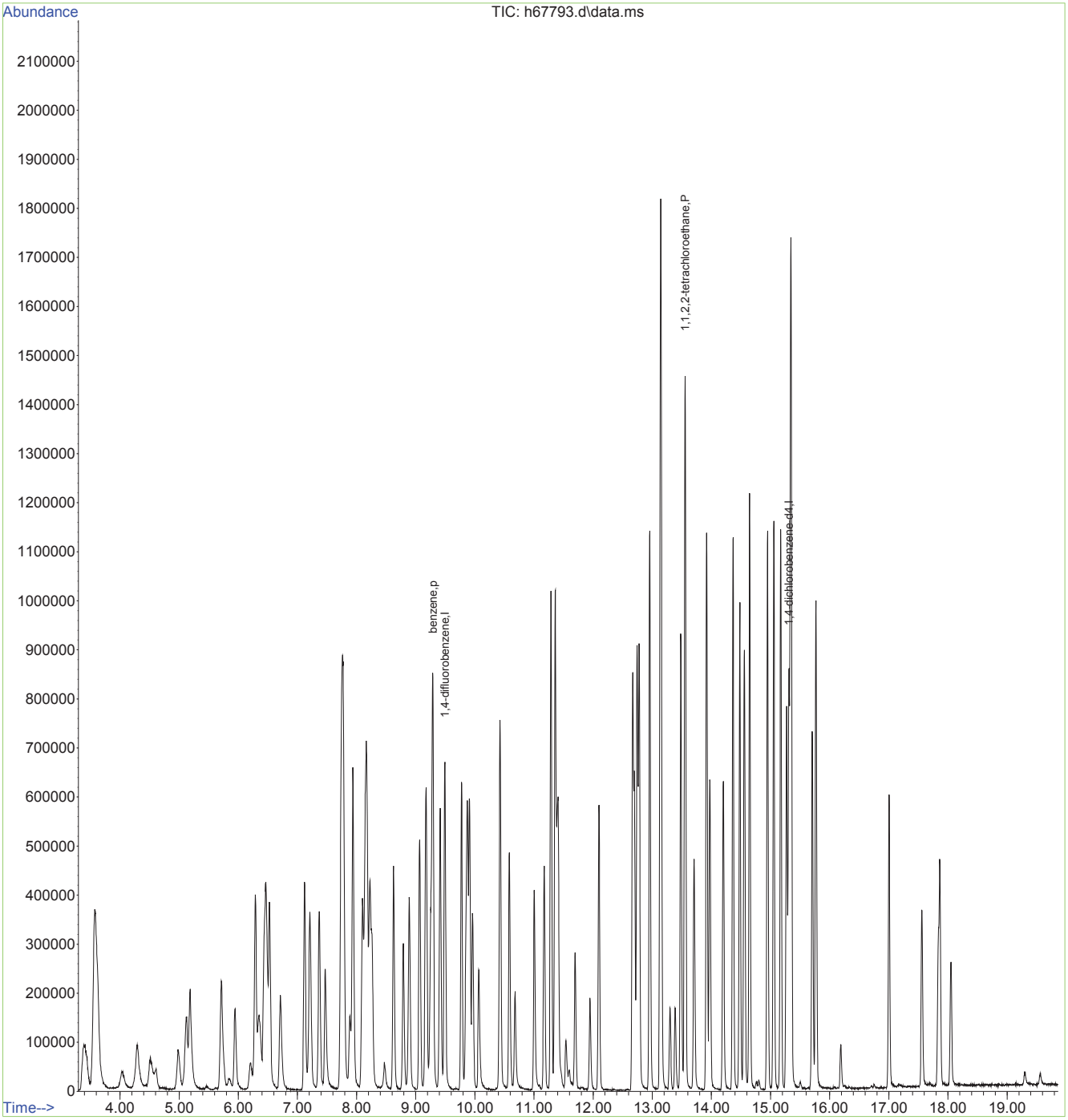
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	532448	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	204387	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	713448	53.98	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.556	83	189943	59.95	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

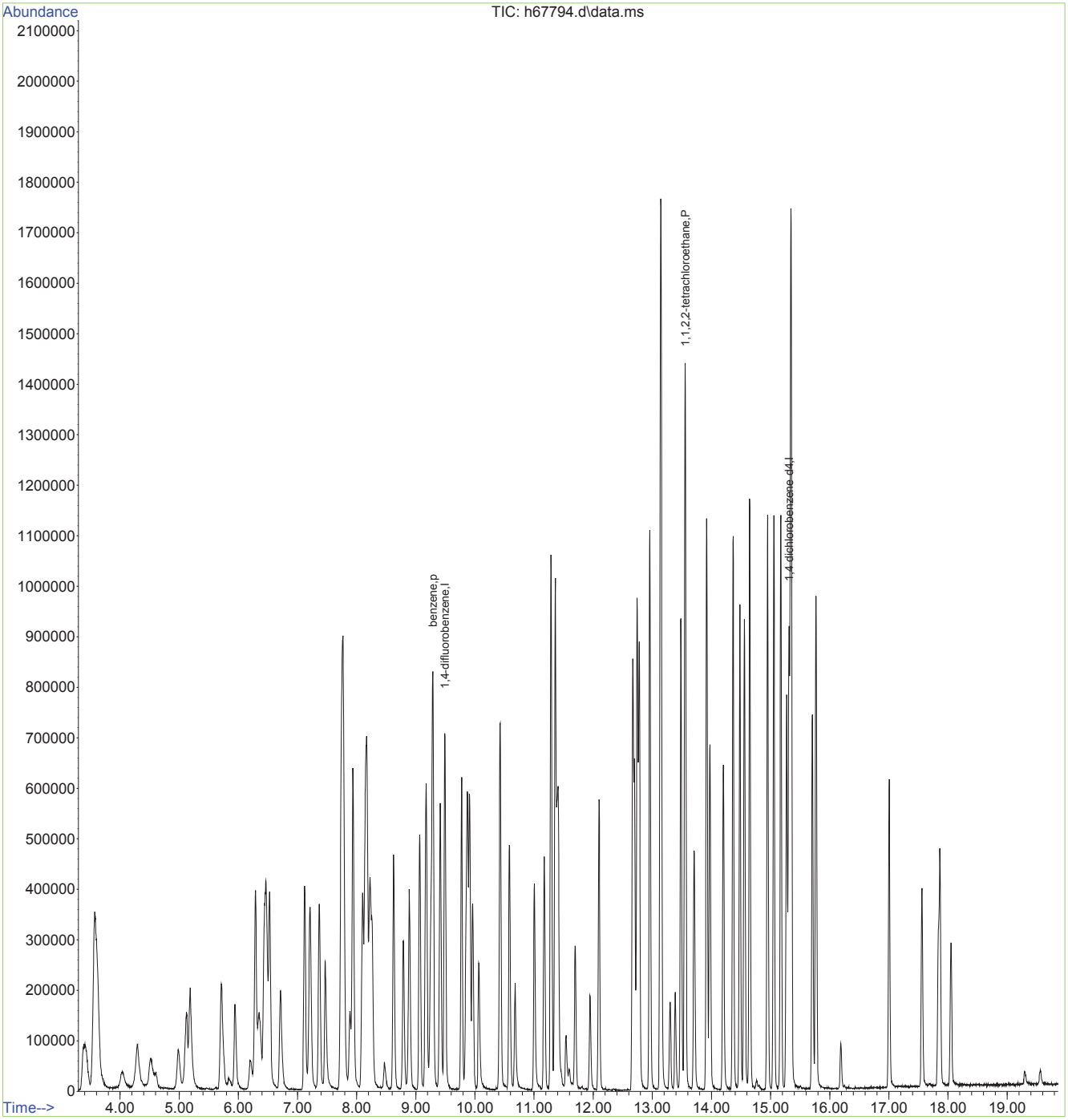
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	568755	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	221552	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	702151	49.73	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	191310	55.52	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32120

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32120-1 Collected: 14-JUL-14 09:30 By: CWLC Received: 15-JUL-14 By: ROST3MW-ROX-071414						
MC32120-1	SW846 8260C	24-JUL-14 14:51	AMY			V8260SL+
MC32120-1	SW846 8011	24-JUL-14 20:26	NK	22-JUL-14	MEW	V8011SL
MC32120-1	SW846 8270D BY SIM	28-JUL-14 11:51	MR	16-JUL-14	MT	B8270SIMSL
MC32120-1	SW846 8270D	28-JUL-14 16:34	WK	16-JUL-14	MT	AB8270SL+
MC32120-2 Collected: 14-JUL-14 10:35 By: CWLC Received: 15-JUL-14 By: MW5-ROX-071414						
MC32120-2	SW846 8260C	24-JUL-14 15:17	AMY			V8260SL+
MC32120-2	SW846 8011	24-JUL-14 20:46	NK	22-JUL-14	MEW	V8011SL
MC32120-2	SW846 8270D BY SIM	28-JUL-14 12:14	MR	16-JUL-14	MT	B8270SIMSL
MC32120-2	SW846 8270D	28-JUL-14 16:54	WK	16-JUL-14	MT	AB8270SL+
MC32120-3 Collected: 14-JUL-14 12:35 By: CWLC Received: 15-JUL-14 By: MW2-ROX-071414						
MC32120-3	SW846 8260C	24-JUL-14 15:43	AMY			V8260SL+
MC32120-3	SW846 8011	24-JUL-14 21:05	NK	22-JUL-14	MEW	V8011SL
MC32120-3	SW846 8270D BY SIM	28-JUL-14 12:37	MR	16-JUL-14	MT	B8270SIMSL
MC32120-3	SW846 8260C	28-JUL-14 16:03	AMY			V8260SL+
MC32120-3	SW846 8270D	28-JUL-14 17:15	WK	16-JUL-14	MT	AB8270SL+
MC32120-4 Collected: 14-JUL-14 13:45 By: CWLC Received: 15-JUL-14 By: MW22-ROX-071414						
MC32120-4	SW846 8260C	24-JUL-14 16:09	AMY			V8260SL+
MC32120-4	SW846 8011	24-JUL-14 21:25	NK	22-JUL-14	MEW	V8011SL
MC32120-4	SW846 8270D BY SIM	28-JUL-14 13:00	MR	16-JUL-14	MT	B8270SIMSL
MC32120-4	SW846 8260C	28-JUL-14 16:31	AMY			V8260SL+
MC32120-4	SW846 8270D	28-JUL-14 17:36	WK	16-JUL-14	MT	AB8270SL+
MC32120-5 Collected: 14-JUL-14 00:00 By: CWLC Received: 15-JUL-14 By: TB-071414-HCL						
MC32120-5	SW846 8260C	24-JUL-14 12:41	AMY			V8260SL+

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32120

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32120-6 Collected: 14-JUL-14 00:00 By: CWLC Received: 15-JUL-14 By: TB-071414-ST						
MC32120-6	SW846 8011	24-JUL-14 21:44	NK	22-JUL-14	MEW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32120-1.2	Walk In Ref #22	Alireza Zeighami	07/16/14 07:09	Retrieve from Storage
MC32120-1.2	Alireza Zeighami		07/16/14 14:56	Depleted
MC32120-1.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32120-1.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32120-1.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-1.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-1.3	Scott Parsick		09/25/14 16:09	Disposed
MC32120-1.4	VOC Ref #4	Amy Min Yang	07/24/14 16:15	Retrieve from Storage
MC32120-1.4	Amy Min Yang	GCMSV	07/24/14 16:15	Load on Instrument
MC32120-1.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-1.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-1.4	Scott Parsick		09/25/14 16:09	Disposed
MC32120-1.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32120-1.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32120-2.1	Walk In Ref #22	Alireza Zeighami	07/16/14 07:09	Retrieve from Storage
MC32120-2.1	Alireza Zeighami		07/16/14 14:56	Depleted
MC32120-2.4	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32120-2.4	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32120-2.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-2.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-2.4	Scott Parsick		09/25/14 16:09	Disposed
MC32120-2.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32120-2.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32120-3.2	Walk In Ref #22	Alireza Zeighami	07/16/14 07:09	Retrieve from Storage
MC32120-3.2	Alireza Zeighami		07/16/14 14:56	Depleted
MC32120-3.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32120-3.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32120-3.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-3.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-3.3	Scott Parsick		09/25/14 16:09	Disposed
MC32120-3.4	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32120-3.4	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32120-3.4	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32120-3.4	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32120-3.4	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/15/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32120-3.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32120-3.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32120-4.2	Walk In Ref #22	Alireza Zeighami	07/16/14 07:09	Retrieve from Storage
MC32120-4.2	Alireza Zeighami		07/16/14 14:56	Depleted
MC32120-4.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32120-4.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32120-4.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-4.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-4.3	Scott Parsick		09/25/14 16:09	Disposed
MC32120-4.4	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32120-4.4	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32120-4.4	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32120-4.4	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32120-4.4	Scott Parsick		09/25/14 16:09	Disposed
MC32120-4.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32120-4.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32120-5.1	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32120-5.1	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32120-5.1	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32120-5.1	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32120-5.1	Scott Parsick		09/25/14 16:09	Disposed
MC32120-6.2	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32120-6.2	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	70-130%
2037-26-5	Toluene-D8	87%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-MB	H67784.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32120-3, MC32120-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.32	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.4	87	70-130
107-02-8	Acrolein	250	302	121	70-130
107-13-1	Acrylonitrile	50	66.6	133* [a]	70-130
71-43-2	Benzene	50	54.4	109	70-130
108-86-1	Bromobenzene	50	50.2	100	70-130
74-97-5	Bromochloromethane	50	53.0	106	70-130
75-27-4	Bromodichloromethane	50	54.1	108	70-130
75-25-2	Bromoform	50	49.8	100	70-130
74-83-9	Bromomethane	50	96.7	193* [b]	70-130
78-93-3	2-Butanone (MEK)	50	40.4	81	70-130
104-51-8	n-Butylbenzene	50	54.7	109	70-130
135-98-8	sec-Butylbenzene	50	58.1	116	70-130
98-06-6	tert-Butylbenzene	50	51.8	104	70-130
75-15-0	Carbon disulfide	50	60.0	120	70-130
56-23-5	Carbon tetrachloride	50	61.1	122	70-130
108-90-7	Chlorobenzene	50	50.3	101	70-130
75-00-3	Chloroethane	50	105	210* [b]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	40.9	82	70-130
67-66-3	Chloroform	50	54.5	109	70-130
74-87-3	Chloromethane	50	94.7	189* [b]	70-130
95-49-8	o-Chlorotoluene	50	55.1	110	70-130
106-43-4	p-Chlorotoluene	50	55.4	111	70-130
124-48-1	Dibromochloromethane	50	47.7	95	70-130
95-50-1	1,2-Dichlorobenzene	50	51.2	102	70-130
541-73-1	1,3-Dichlorobenzene	50	51.4	103	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	55.8	112	70-130
75-34-3	1,1-Dichloroethane	50	64.4	129	70-130
107-06-2	1,2-Dichloroethane	50	57.1	114	70-130
75-35-4	1,1-Dichloroethene	50	67.4	135* [a]	70-130
156-59-2	cis-1,2-Dichloroethene	50	55.5	111	70-130
156-60-5	trans-1,2-Dichloroethene	50	65.4	131* [a]	70-130
78-87-5	1,2-Dichloropropane	50	50.6	101	70-130
142-28-9	1,3-Dichloropropane	50	50.2	100	70-130
594-20-7	2,2-Dichloropropane	50	64.4	129	70-130
563-58-6	1,1-Dichloropropene	50	55.5	111	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.9	110	70-130
10061-02-6	trans-1,3-Dichloropropene	50	61.0	122	70-130
123-91-1	1,4-Dioxane	250	273	109	70-130
97-63-2	Ethyl methacrylate	50	43.7	87	77-137
100-41-4	Ethylbenzene	50	52.8	106	70-130
87-68-3	Hexachlorobutadiene	50	44.8	90	70-130
591-78-6	2-Hexanone	50	40.0	80	70-130
98-82-8	Isopropylbenzene	50	57.5	115	70-130
99-87-6	p-Isopropyltoluene	50	55.9	112	70-130
1634-04-4	Methyl Tert Butyl Ether	50	65.9	132* [a]	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.0	116	70-130
74-95-3	Methylene bromide	50	51.2	102	70-130
75-09-2	Methylene chloride	50	65.6	131* [a]	70-130
91-20-3	Naphthalene	50	41.2	82	70-130
103-65-1	n-Propylbenzene	50	57.7	115	70-130
100-42-5	Styrene	50	49.7	99	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	51.8	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	54.1	108	70-130
127-18-4	Tetrachloroethene	50	47.9	96	70-130
108-88-3	Toluene	50	53.0	106	70-130
87-61-6	1,2,3-Trichlorobenzene	50	43.6	87	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.7	89	70-130
71-55-6	1,1,1-Trichloroethane	50	56.5	113	70-130
79-00-5	1,1,2-Trichloroethane	50	51.3	103	70-130
79-01-6	Trichloroethene	50	47.9	96	70-130
75-69-4	Trichlorofluoromethane	50	83.8	168* [b]	70-130
96-18-4	1,2,3-Trichloropropane	50	55.6	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.7	109	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	70-130
108-05-4	Vinyl Acetate	50	66.0	132* [b]	70-130
75-01-4	Vinyl chloride	50	87.0	174* [b]	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	53.4	107	70-130
1330-20-7	Xylene (total)	150	156	104	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-BS	H67782.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32120-3, MC32120-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.4	103	70-130
100-41-4	Ethylbenzene	50	45.7	91	70-130
108-88-3	Toluene	50	49.4	99	70-130
	m,p-Xylene	100	91.0	91	70-130
95-47-6	o-Xylene	50	44.9	90	70-130
1330-20-7	Xylene (total)	150	136	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	298	119	250	304	122	2	70-130/30
107-02-8	Acrolein	ND		1250	1180	94	1250	1160	93	2	70-130/30
107-13-1	Acrylonitrile	ND		250	440	176* a	250	430	172* a	2	70-130/30
71-43-2	Benzene	5.8		250	772	306* a	250	518	205* a	39* b	70-130/30
108-86-1	Bromobenzene	ND		250	271	108	250	262	105	3	70-130/30
74-97-5	Bromochloromethane	ND		250	262	105	250	250	100	5	70-130/30
75-27-4	Bromodichloromethane	ND		250	256	102	250	249	100	3	70-130/30
75-25-2	Bromoform	ND		250	249	100	250	249	100	0	70-130/30
74-83-9	Bromomethane	ND		250	342	137* c	250	341	136* c	0	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	223	89	250	218	87	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	302	121	250	296	118	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	314	126	250	303	121	4	70-130/30
98-06-6	tert-Butylbenzene	ND		250	290	116	250	279	112	4	70-130/30
75-15-0	Carbon disulfide	ND		250	311	124	250	303	121	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	250	284	114	1	70-130/30
108-90-7	Chlorobenzene	ND		250	251	100	250	242	97	4	70-130/30
75-00-3	Chloroethane	ND		250	345	138* c	250	346	138* c	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	18.7	7* a	250	ND	0* a	200* b	70-130/30
67-66-3	Chloroform	ND		250	266	106	250	259	104	3	70-130/30
74-87-3	Chloromethane	ND		250	333	133* c	250	327	131* c	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	298	119	250	291	116	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	295	118	250	286	114	3	70-130/30
124-48-1	Dibromochloromethane	ND		250	234	94	250	231	92	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	262	105	250	256	102	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	263	105	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	264	106	250	256	102	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	211	84	250	216	86	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	326	130	250	316	126	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	247	99	250	239	96	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	350	140* a	250	344	138* a	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	307	123	250	292	117	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	348	139* a	250	334	134* a	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	260	104	250	250	100	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	257	103	250	251	100	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	346	138* a	250	341	136* a	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	298	119	250	292	117	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	290	116	250	283	113	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	307	123	250	306	122	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1300	104	1250	1410	113	8	70-130/30
97-63-2	Ethyl methacrylate	ND		250	230	92	250	226	90	2	72-139/30
100-41-4	Ethylbenzene	8.0		250	285	111	250	277	108	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	234	94	250	234	94	0	70-130/30
591-78-6	2-Hexanone	ND		250	193	77	250	186	74	4	70-130/30
98-82-8	Isopropylbenzene	0.53	J	250	330	132* [a]	250	322	129	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	303	121	250	293	117	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	391	156* [a]	250	383	153* [a]	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	242	97	250	231	92	5	70-130/30
74-95-3	Methylene bromide	ND		250	238	95	250	229	92	4	70-130/30
75-09-2	Methylene chloride	ND		250	335	134* [a]	250	324	130	3	70-130/30
91-20-3	Naphthalene	4.5	J	250	214	84	250	224	88	5	70-130/30
103-65-1	n-Propylbenzene	0.98	J	250	308	123	250	299	119	3	70-130/30
100-42-5	Styrene	ND		250	257	103	250	251	100	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	251	100	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	282	113	250	276	110	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	249	100	250	240	96	4	70-130/30
108-88-3	Toluene	2.4		250	255	101	250	249	99	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	204	82	250	216	86	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	233	93	250	235	94	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	286	114	250	284	114	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	228	91	250	223	89	2	70-130/30
79-01-6	Trichloroethene	ND		250	253	101	250	243	97	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	304	122	250	303	121	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	291	116	250	286	114	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	13.2		250	309	118	250	301	115	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	3.2	J	250	305	121	250	296	117	3	70-130/30
108-05-4	Vinyl Acetate	ND		250	298	119	250	288	115	3	70-130/30
75-01-4	Vinyl chloride	ND		250	348	139* [c]	250	343	137* [c]	1	70-130/30
	m,p-Xylene	37.1		500	577	108	500	561	105	3	70-130/30
95-47-6	o-Xylene	4.1		250	289	114	250	282	111	2	70-130/30
1330-20-7	Xylene (total)	41.2		750	866	110	750	843	107	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-5

CAS No.	Surrogate Recoveries	MS	MSD	MC32120-1	Limits
1868-53-7	Dibromofluoromethane	91%	90%	92%	70-130%
2037-26-5	Toluene-D8	88%	90%	90%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	104%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32345-12MS	H67793.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12MSD	H67794.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32120-3, MC32120-4

CAS No.	Compound	MC32345-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	270	108	250	249	100	8	70-130/30
100-41-4	Ethylbenzene	ND		250	245	98	250	225	90	9	70-130/30
108-88-3	Toluene	ND		250	260	104	250	239	96	8	70-130/30
	m,p-Xylene	ND		500	484	97	500	447	89	8	70-130/30
95-47-6	o-Xylene	ND		250	232	93	250	219	88	6	70-130/30
1330-20-7	Xylene (total)	ND		750	715	95	750	666	89	7	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32345-12	Limits
1868-53-7	Dibromofluoromethane	107%	114%	108%	70-130%
2037-26-5	Toluene-D8	108%	107%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	107%	70-130%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSH2253-CC2244	**Injection Date:**	07/28/14
Lab File ID:	H67780.D	**Injection Time:**	09:00
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	294744	8.63	533886	9.49	300348	12.74	228339	15.31	88843	6.20
Upper Limit [a]	589488	9.13	1067772	9.99	600696	13.24	456678	15.81	177686	6.70
Lower Limit [b]	147372	8.13	266943	8.99	150174	12.24	114170	14.81	44422	5.70
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2253-BS	304899	8.62	538287	9.49	306658	12.74	228719	15.31	98152	6.21
MSH2253-MB	268663	8.63	471219	9.49	241486	12.75	150694	15.31	87001	6.21
ZZZZZZ	263063	8.63	456580	9.49	233001	12.74	144603	15.31	71804	6.21
ZZZZZZ	256418	8.63	445302	9.49	228171	12.74	141249	15.31	70439	6.21
MC32345-12	250548	8.63	427504	9.49	216846	12.75	137196	15.31	71833	6.22
ZZZZZZ	247608	8.62	418374	9.49	214691	12.75	137103	15.31	68530	6.20
ZZZZZZ	235052	8.63	405529	9.49	205604	12.74	126043	15.31	63001	6.22
ZZZZZZ	231228	8.63	405038	9.49	206650	12.75	124575	15.31	66024	6.21
ZZZZZZ	226010	8.63	400472	9.49	205241	12.75	126553	15.32	63952	6.20
ZZZZZZ	258797	8.63	445865	9.49	247409	12.74	208672	15.31	78454	6.20
MC32345-12MS	304963	8.63	532448	9.49	300641	12.74	204387	15.31	97583	6.21
MC32345-12MSD	316084	8.63	568755	9.49	318944	12.74	221552	15.31	104569	6.21
MC32120-3	305107	8.63	534626	9.49	282536	12.75	184972	15.31	101011	6.21
MC32120-4	314570	8.63	553874	9.49	292164	12.75	180959	15.31	98536	6.20
ZZZZZZ	280176	8.63	493711	9.50	253542	12.75	170363	15.31	99390	6.21
ZZZZZZ	268637	8.63	460356	9.49	240619	12.75	174317	15.31	89117	6.20
ZZZZZZ	296253	8.63	521450	9.49	284156	12.74	188651	15.31	90455	6.21
ZZZZZZ	321131	8.62	564865	9.49	288165	12.75	180247	15.31	91478	6.20
ZZZZZZ	301271	8.63	546614	9.49	271938	12.74	167134	15.32	87769	6.22
ZZZZZZ	283169	8.63	513224	9.49	254033	12.75	154113	15.31	83025	6.21
ZZZZZZ	267237	8.62	493787	9.49	246333	12.75	152710	15.32	77929	6.20
ZZZZZZ	258034	8.63	455220	9.49	227742	12.74	139705	15.31	74985	6.20
ZZZZZZ	249145	8.63	453306	9.49	217177	12.75	138689	15.31	69432	6.21

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1225-CC1177	**Injection Date:**	07/24/14
Lab File ID:	V33182.D	**Injection Time:**	10:17
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
Upper Limit [a]	808062	7.07	1028070	8.25	395074	11.59	510726	13.80	173602	4.01
Lower Limit [b]	202016	6.07	257018	7.25	98769	10.59	127682	12.80	43401	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1225-BS	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
MSV1225-MB	423518	6.57	566497	7.75	207436	11.09	205531	13.30	98754	3.51
ZZZZZZ	314218	6.57	438886	7.75	188813	11.09	192114	13.30	77336	3.52
MC32120-5	290479	6.57	404629	7.75	165759	11.09	174831	13.30	70296	3.51
ZZZZZZ	288880	6.57	411369	7.75	166077	11.09	174974	13.30	70249	3.52
ZZZZZZ	276747	6.57	389072	7.75	163374	11.09	175404	13.30	71119	3.52
MC32120-1	607385	6.57	785192	7.75	234551	11.09	264980	13.30	222818[c]	3.52
MC32120-2	486512	6.57	549775	7.75	250156	11.09	237478	13.30	144045	3.53
MC32120-3	1143587[d]	6.57	1377476[d]	7.75	498634[d]	11.09	799272[d]	13.30	468647[d]	3.54
MC32120-4	1136706[d]	6.58	2013116[d]	7.76	850560[d]	11.09	1163371[d]	13.30	414495[d]	3.54
ZZZZZZ	785543	6.57	1497250[d]	7.75	414808[d]	11.09	403343	13.30	234913[d]	3.53
ZZZZZZ	790139	6.65	2282079[d]	7.78	446668[d]	11.09	664914[d]	13.30	161146	3.54
ZZZZZZ	747101	6.81	2775199[d]	7.87	605272[d]	11.10	665352[d]	13.30	279915[d]	3.55
ZZZZZZ	699213	6.83	2878266[d]	7.87	658120[d]	11.10	714187[d]	13.30	263249[d]	3.55
ZZZZZZ	620812	6.57	964822	7.75	360517	11.09	339994	13.30	168558	3.51
ZZZZZZ	617075	6.57	1365612[d]	7.75	342437	11.09	326577	13.30	161394	3.52
ZZZZZZ	832590[d]	6.61	2311394[d]	7.77	436447[d]	11.09	367710	13.30	226087[d]	3.53
MC32120-1MS	755293	6.57	1031451[e]	7.75	345043	11.09	415260	13.30	199822[e]	3.51
MC32120-1MSD	725008	6.57	972624	7.75	331686	11.09	399515	13.30	192608[e]	3.51
ZZZZZZ	529363	6.56	745611	7.75	261178	11.08	274494	13.30	144217	3.51
ZZZZZZ	503161	6.57	712256	7.75	249186	11.08	266369	13.30	138063	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.
(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(e) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Volatile Surrogate Recovery Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32120-1	V33192.D	92	90	104
MC32120-2	V33193.D	92	92	109
MC32120-3	H67795.D	106	106	110
MC32120-3	V33194.D	73	96	93
MC32120-4	H67796.D	105	106	114
MC32120-4	V33195.D	79	83	104
MC32120-5	V33187.D	122	94	101
MC32120-1MS	V33203.D	91	88	101
MC32120-1MSD	V33204.D	90	90	100
MC32345-12MS	H67793.D	107	108	102
MC32345-12MSD	H67794.D	114	107	101
MSH2253-BS	H67782.D	113	108	97
MSH2253-MB	H67784.D	106	107	109
MSV1225-BS	V33182.D	100	101	99
MSV1225-MB	V33185.D	114	87	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-MB	X03977.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.33	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-MB	X03977.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	15-110%
4165-62-2	Phenol-d5	25%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	66%	30-130%
321-60-8	2-Fluorobiphenyl	60%	30-130%
1718-51-0	Terphenyl-d14	84%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38980-MB	I90888.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	0.057	0.20	0.050	ug/l	J
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.052	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	30%	15-110%
4165-62-2	Phenol-d5	21%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	15-110%
4165-60-0	Nitrobenzene-d5	56%	30-130%
321-60-8	2-Fluorobiphenyl	51%	30-130%
1718-51-0	Terphenyl-d14	68%	30-130%

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-BS	X03978.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	14.8	30	30-130
95-57-8	2-Chlorophenol	50	37.1	74	30-130
59-50-7	4-Chloro-3-methyl phenol	50	42.8	86	30-130
120-83-2	2,4-Dichlorophenol	50	41.8	84	30-130
105-67-9	2,4-Dimethylphenol	50	29.5	59	30-130
51-28-5	2,4-Dinitrophenol	50	22.0	44	30-130
534-52-1	4,6-Dinitro-o-cresol	50	31.3	63	30-130
95-48-7	2-Methylphenol	50	33.2	66	30-130
	3&4-Methylphenol	100	64.4	64	30-130
88-75-5	2-Nitrophenol	50	40.0	80	30-130
100-02-7	4-Nitrophenol	50	18.1	36	30-130
87-86-5	Pentachlorophenol	50	40.0	80	30-130
108-95-2	Phenol	50	19.1	38	30-130
95-95-4	2,4,5-Trichlorophenol	50	47.1	94	30-130
88-06-2	2,4,6-Trichlorophenol	50	45.6	91	30-130
62-53-3	Aniline	50	28.6	57	40-140
101-55-3	4-Bromophenyl phenyl ether	50	52.6	105	40-140
85-68-7	Butyl benzyl phthalate	50	51.9	104	40-140
100-51-6	Benzyl Alcohol	50	30.0	60	40-140
91-58-7	2-Chloronaphthalene	50	45.4	91	40-140
106-47-8	4-Chloroaniline	50	41.8	84	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	43.4	87	40-140
111-44-4	bis(2-Chloroethyl)ether	50	41.8	84	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	40.8	82	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	49.3	99	40-140
122-66-7	1,2-Diphenylhydrazine	50	50.0	100	40-140
121-14-2	2,4-Dinitrotoluene	50	53.5	107	40-140
606-20-2	2,6-Dinitrotoluene	50	53.3	107	40-140
91-94-1	3,3'-Dichlorobenzidine	50	43.9	88	40-140
132-64-9	Dibenzofuran	50	42.6	85	40-140
84-74-2	Di-n-butyl phthalate	50	48.0	96	40-140
117-84-0	Di-n-octyl phthalate	50	60.1	120	40-140
84-66-2	Diethyl phthalate	50	51.4	103	40-140
131-11-3	Dimethyl phthalate	50	51.4	103	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	55.5	111	40-140
118-74-1	Hexachlorobenzene	50	53.8	108	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-BS	X03978.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	19.5	39* [a]	40-140
67-72-1	Hexachloroethane	50	38.2	76	40-140
78-59-1	Isophorone	50	41.7	83	40-140
88-74-4	2-Nitroaniline	50	51.8	104	40-140
99-09-2	3-Nitroaniline	50	48.7	97	40-140
100-01-6	4-Nitroaniline	50	46.1	92	40-140
98-95-3	Nitrobenzene	50	42.8	86	40-140
62-75-9	n-Nitrosodimethylamine	50	23.0	46	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	45.7	91	40-140
86-30-6	N-Nitrosodiphenylamine	50	44.6	89	40-140
110-86-1	Pyridine	50	19.8	40	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	37%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	81%	15-110%
4165-60-0	Nitrobenzene-d5	71%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	83%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38980-BS	I90889.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	37.6	75	40-140
208-96-8	Acenaphthylene	50	32.6	65	40-140
120-12-7	Anthracene	50	38.0	76	40-140
56-55-3	Benzo(a)anthracene	50	42.8	86	40-140
50-32-8	Benzo(a)pyrene	50	38.3	77	40-140
205-99-2	Benzo(b)fluoranthene	50	41.9	84	40-140
191-24-2	Benzo(g,h,i)perylene	50	42.8	86	40-140
207-08-9	Benzo(k)fluoranthene	50	35.9	72	40-140
218-01-9	Chrysene	50	39.5	79	40-140
53-70-3	Dibenzo(a,h)anthracene	50	40.8	82	40-140
206-44-0	Fluoranthene	50	36.7	73	40-140
86-73-7	Fluorene	50	39.3	79	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.0	84	40-140
90-12-0	1-Methylnaphthalene	50	37.2	74	40-140
91-57-6	2-Methylnaphthalene	50	37.7	75	40-140
85-01-8	Phenanthrene	50	39.0	78	40-140
129-00-0	Pyrene	50	35.7	71	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	33%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	80%	15-110%
4165-60-0	Nitrobenzene-d5	60%	30-130%
321-60-8	2-Fluorobiphenyl	58%	30-130%
1718-51-0	Terphenyl-d14	69%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-MS	X03979.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
OP38979-MSD	X03980.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
MC32000-16	X03981.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: Method: SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	MC32000-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	17.0	34	50	14.3	29* [a]	17	30-130/20
95-57-8	2-Chlorophenol	ND		50	38.7	77	50	37.3	75	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	42.3	85	50	41.6	83	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	41.9	84	50	41.4	83	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	31.5	63	50	31.4	63	0	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	23.8	48	50	24.7	49	4	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	32.0	64	50	33.0	66	3	30-130/20
95-48-7	2-Methylphenol	ND		50	34.4	69	50	32.3	65	6	30-130/20
	3&4-Methylphenol	ND		100	65.8	66	100	60.6	61	8	30-130/20
88-75-5	2-Nitrophenol	ND		50	40.6	81	50	40.1	80	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	18.0	36	50	17.4	35	3	30-130/20
87-86-5	Pentachlorophenol	ND		50	37.2	74	50	40.0	80	7	30-130/20
108-95-2	Phenol	ND		50	19.9	40	50	18.2	36	9	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	45.9	92	50	45.7	91	0	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	44.0	88	50	45.4	91	3	30-130/20
62-53-3	Aniline	ND		50	31.8	64	50	27.0	54	16	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	56.0	112	50	52.5	105	6	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	53.3	107	50	49.8	100	7	40-140/20
100-51-6	Benzyl Alcohol	ND		50	35.2	70	50	30.8	62	13	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	47.6	95	50	44.2	88	7	40-140/20
106-47-8	4-Chloroaniline	ND		50	44.6	89	50	40.4	81	10	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	46.3	93	50	42.9	86	8	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	45.5	91	50	41.0	82	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	44.0	88	50	39.8	80	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	51.4	103	50	47.3	95	8	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	52.0	104	50	50.2	100	4	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	55.1	110	50	51.3	103	7	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	54.4	109	50	50.8	102	7	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	48.2	96	50	40.2	80	18	40-140/20
132-64-9	Dibenzofuran	ND		50	44.2	88	50	41.1	82	7	40-140/20
84-74-2	Di-n-butyl phthalate	0.31	J	50	48.9	97	50	46.9	93	4	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	62.5	125	50	56.7	113	10	40-140/20
84-66-2	Diethyl phthalate	ND		50	52.8	106	50	48.6	97	8	40-140/20
131-11-3	Dimethyl phthalate	ND		50	53.4	107	50	49.9	100	7	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	57.6	115	50	53.7	107	7	40-140/20
118-74-1	Hexachlorobenzene	ND		50	56.2	112	50	53.3	107	5	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38979-MS	X03979.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
OP38979-MSD	X03980.D	1	07/28/14	WK	07/16/14	OP38979	MSX131
MC32000-16	X03981.D	1	07/28/14	WK	07/16/14	OP38979	MSX131

The QC reported here applies to the following samples: Method: SW846 8270D

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	MC32000-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	22.7	45	50	21.2	42	7	40-140/20
67-72-1	Hexachloroethane	ND		50	42.1	84	50	37.9	76	11	40-140/20
78-59-1	Isophorone	ND		50	43.9	88	50	40.6	81	8	40-140/20
88-74-4	2-Nitroaniline	ND		50	53.1	106	50	49.4	99	7	40-140/20
99-09-2	3-Nitroaniline	ND		50	49.6	99	50	45.6	91	8	40-140/20
100-01-6	4-Nitroaniline	ND		50	48.0	96	50	43.0	86	11	40-140/20
98-95-3	Nitrobenzene	ND		50	45.9	92	50	42.4	85	8	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	25.0	50	50	23.4	47	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	49.6	99	50	44.0	88	12	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	47.0	94	50	44.0	88	7	40-140/20
110-86-1	Pyridine	ND		50	21.5	43	50	19.2	38* [a]	11	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-16	Limits
367-12-4	2-Fluorophenol	42%	38%	42%	15-110%
4165-62-2	Phenol-d5	31%	27%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	88%	82%	85%	15-110%
4165-60-0	Nitrobenzene-d5	79%	72%	78%	30-130%
321-60-8	2-Fluorobiphenyl	72%	66%	72%	30-130%
1718-51-0	Terphenyl-d14	89%	80%	90%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38980-MS	I90890.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
OP38980-MSD	I90891.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383
MC32000-17	I90892.D	1	07/28/14	MR	07/16/14	OP38980	MSI3383

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32120-1, MC32120-2, MC32120-3, MC32120-4

CAS No.	Compound	MC32000-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	39.6	79	50	37.0	74	7	40-140/20
208-96-8	Acenaphthylene	ND		50	34.2	68	50	32.2	64	6	40-140/20
120-12-7	Anthracene	ND		50	39.0	78	50	37.3	75	4	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	44.0	88	50	41.6	83	6	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	39.2	78	50	37.1	74	6	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	43.0	86	50	39.8	80	8	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	43.6	87	50	41.6	83	5	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	36.6	73	50	35.5	71	3	40-140/20
218-01-9	Chrysene	ND		50	40.7	81	50	38.9	78	5	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	41.8	84	50	39.7	79	5	40-140/20
206-44-0	Fluoranthene	ND		50	37.5	75	50	35.8	72	5	40-140/20
86-73-7	Fluorene	ND		50	40.9	82	50	38.6	77	6	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	42.9	86	50	40.7	81	5	40-140/20
90-12-0	1-Methylnaphthalene	0.065	J	50	39.7	79	50	36.6	73	8	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	40.4	81	50	37.4	75	8	40-140/20
85-01-8	Phenanthrene	0.038	J	50	40.2	80	50	38.5	77	4	40-140/20
129-00-0	Pyrene	ND		50	36.8	74	50	35.4	71	4	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-17	Limits
367-12-4	2-Fluorophenol	37%	33%	35%	15-110%
4165-62-2	Phenol-d5	25%	22%	24%	15-110%
118-79-6	2,4,6-Tribromophenol	85%	81%	80%	15-110%
4165-60-0	Nitrobenzene-d5	65%	59%	65%	30-130%
321-60-8	2-Fluorobiphenyl	62%	57%	62%	30-130%
1718-51-0	Terphenyl-d14	72%	67%	74%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3383-CC3320	**Injection Date:**	07/28/14
Lab File ID:	I90884.D	**Injection Time:**	08:22
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	680355	4.36	1407590	5.41	750403	6.96	1285689	8.37	790065	11.14	2101925	12.65
Upper Limit [a]	1360710	4.86	2815180	5.91	1500806	7.46	2571378	8.87	1580130	11.64	4203850	13.15
Lower Limit [b]	340178	3.86	703795	4.91	375202	6.46	642845	7.87	395033	10.64	1050963	12.15

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	723263	4.36	1495016	5.41	780439	6.96	1346857	8.37	818241	11.14	2199313	12.65
ZZZZZZ	705795	4.36	1468848	5.41	755778	6.96	1298679	8.38	793476	11.14	2157828	12.65
ZZZZZZ	703545	4.36	1486574	5.41	765716	6.96	1321322	8.37	813855	11.14	2180216	12.66
OP38980-MB	702126	4.36	1472463	5.41	764879	6.96	1314002	8.37	818449	11.14	2180519	12.65
OP38980-BS	688060	4.36	1460725	5.41	753569	6.96	1296030	8.38	806802	11.15	2122316	12.66
OP38980-MS	678303	4.35	1450186	5.41	753072	6.96	1291988	8.38	804237	11.15	2124961	12.66
OP38980-MSD	684269	4.36	1475893	5.41	764948	6.96	1311239	8.38	821423	11.15	2185749	12.66
MC32000-17	600372	4.36	1264502	5.41	661557	6.96	1138416	8.37	692573	11.14	1852131	12.65
MC32120-1	664020	4.36	1393852	5.41	733390	6.96	1255433	8.37	773397	11.14	2079327	12.65
MC32120-2	656037	4.36	1370237	5.41	704479	6.96	1206114	8.37	750514	11.14	2014630	12.66
MC32120-3	649875	4.36	1346489	5.41	699274	6.96	1206057	8.37	749601	11.14	2002239	12.65
MC32120-4	695356	4.37	1421944	5.41	736462	6.96	1255873	8.38	730312	11.14	1928967	12.66
OP39111-MB	631539	4.35	1325855	5.41	690169	6.95	1184831	8.37	718530	11.14	1933812	12.65
OP39111-BS	645398	4.36	1371599	5.41	706566	6.96	1219902	8.38	744300	11.15	1979600	12.66
OP39111-MS	637856	4.36	1365416	5.41	707096	6.96	1215544	8.38	752849	11.15	1988604	12.66
OP39111-MSD	611328	4.36	1294518	5.41	672567	6.96	1151628	8.38	706877	11.15	1877664	12.66
MC32236-20	615499	4.35	1289876	5.41	673953	6.95	1143261	8.37	703656	11.14	1851253	12.65
ZZZZZZ	622398	4.35	1297687	5.41	679831	6.96	1144889	8.37	698081	11.14	1863032	12.65
ZZZZZZ	660434	4.35	1396226	5.41	724902	6.95	1242259	8.37	756698	11.14	1987188	12.66
ZZZZZZ	656436	4.35	1376013	5.41	712255	6.95	1219344	8.37	739802	11.14	1952251	12.66
ZZZZZZ	616353	4.35	1265563	5.41	631236	6.96	1085198	8.38	697819	11.14	1870716	12.66
ZZZZZZ	604055	4.35	1244564	5.41	623434	6.95	1027275	8.37	606963	11.14	1669786	12.66
ZZZZZZ	645722	4.37	1254801	5.41	660004	6.96	1094541	8.37	657343	11.14	1742712	12.65
ZZZZZZ	662978	4.35	1306277	5.41	677075	6.96	1133629	8.38	740511	11.14	2001317	12.66
ZZZZZZ	653932	4.35	1379398	5.41	709345	6.95	1202828	8.37	737842	11.14	1941216	12.65
ZZZZZZ	680708	4.35	1420409	5.41	721071	6.95	1210567	8.37	725271	11.14	1923964	12.65

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3383-CC3320	**Injection Date:**	07/28/14
Lab File ID:	I90884.D	**Injection Time:**	08:22
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX131-CC106	**Injection Date:**	07/28/14
Lab File ID:	X03957.D	**Injection Time:**	08:01
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	302173	3.52	1135508	4.56	628031	6.08	1015275	7.36	814363	9.79	651609	11.38
Upper Limit [a]	604346	4.02	2271016	5.06	1256062	6.58	2030550	7.86	1628726	10.29	1303218	11.88
Lower Limit [b]	151087	3.02	567754	4.06	314016	5.58	507638	6.86	407182	9.29	325805	10.88

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39086-MB	508238	3.52	1924906	4.56	1050741	6.08	1617221	7.36	1078149	9.79	755188	11.37
OP39086-BS	507616	3.52	1913957	4.56	1052797	6.08	1654063	7.36	1215076	9.79	945267	11.38
OP39086-MS	498265	3.52	1883209	4.56	986626	6.08	1509391	7.36	1057672	9.80	809340	11.39
OP39086-MSD	409960	3.52	1526086	4.56	829025	6.08	1308560	7.36	1064451	9.80	788593	11.39
MC32281-1	351602	3.52	1338568	4.56	714493	6.08	1075887	7.36	797106	9.79	643315	11.39
ZZZZZZ	392001	3.52	1469469	4.56	803303	6.08	1172200	7.36	782410	9.79	657749	11.38
ZZZZZZ	528482	3.52	2010455	4.56	1084183	6.08	1554829	7.36	1072938	9.79	869026	11.39
ZZZZZZ	399576	3.52	1497097	4.56	827949	6.08	1247593	7.36	960684	9.79	813121	11.38
ZZZZZZ	356864	3.52	1332120	4.56	742432	6.08	1124959	7.36	879717	9.79	734307	11.38
ZZZZZZ	409291	3.52	1539133	4.56	852944	6.08	1308413	7.36	1005327	9.79	822378	11.38
ZZZZZZ	369338	3.52	1366480	4.56	758428	6.08	1150004	7.36	905190	9.79	715191	11.38
ZZZZZZ	393795	3.52	1525646	4.56	840537	6.08	1278080	7.36	994639	9.79	776413	11.38
ZZZZZZ	350377	3.52	1290081	4.56	708750	6.08	1070496	7.36	820476	9.79	659543	11.38
ZZZZZZ	359303	3.52	1329401	4.56	735632	6.08	1117020	7.36	862786	9.79	684767	11.38
ZZZZZZ	502940	3.52	1872507	4.56	1007507	6.08	1438333	7.36	924792	9.79	734284	11.38
ZZZZZZ	453986	3.52	1730698	4.56	942098	6.08	1387541	7.36	942218	9.79	760716	11.38
ZZZZZZ	482143	3.51	1783662	4.56	916383	6.08	1330347	7.36	868862	9.79	718231	11.37
ZZZZZZ	478380	3.52	1804465	4.56	964927	6.08	1343312	7.36	901144	9.79	742080	11.37
ZZZZZZ	582213	3.51	2220037	4.56	1192756	6.08	1676969	7.36	1050209	9.79	828561	11.37
OP38979-MB	413855	3.51	1562523	4.56	857896	6.08	1317237	7.35	965958	9.79	743819	11.37
OP38979-BS	406366	3.52	1543001	4.56	820587	6.08	1315849	7.36	1007670	9.79	791204	11.38
OP38979-MS	404253	3.52	1551169	4.56	834554	6.08	1320302	7.36	1004702	9.79	784874	11.38
OP38979-MSD	444273	3.52	1632596	4.56	850577	6.08	1296722	7.36	1004312	9.79	816248	11.38
MC32000-16	343871	3.51	1279353	4.56	679809	6.08	1050507	7.35	775755	9.78	599835	11.37
MC32120-1	392404	3.51	1482346	4.56	828340	6.08	1250610	7.35	903368	9.78	699051	11.37
MC32120-2	381697	3.51	1434794	4.56	796315	6.08	1199801	7.35	868326	9.78	699726	11.37
MC32120-3	324669	3.52	1234682	4.56	693841	6.08	1072098	7.35	821048	9.78	646019	11.37
MC32120-4	385749	3.52	1407274	4.56	722711	6.08	1053369	7.36	793629	9.78	643926	11.37

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX131-CC106	**Injection Date:**	07/28/14
Lab File ID:	X03957.D	**Injection Time:**	08:01
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32120-1	X03982.D	41	30	84	75	70	87
MC32120-2	X03983.D	41	30	88	77	73	86
MC32120-3	X03984.D	47	33	92	80	74	89
MC32120-4	X03985.D	34	33	103	86	81	92
OP38979-BS	X03978.D	37	28	81	71	67	83
OP38979-MB	X03977.D	35	25	76	66	60	84
OP38979-MS	X03979.D	42	31	88	79	72	89
OP38979-MSD	X03980.D	38	27	82	72	66	80

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32120-1	I90893.D	65	62	70
MC32120-2	I90894.D	65	64	68
MC32120-3	I90895.D	67	67	74
MC32120-4	I90896.D	71	69	79
OP38980-BS	I90889.D	60	58	69
OP38980-MB	I90888.D	56	51	68
OP38980-MS	I90890.D	65	62	72
OP38980-MSD	I90891.D	59	57	67

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MB	BK39758.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	111%	36-173%
460-00-4	Bromofluorobenzene (S)	109%	36-173%

Blank Spike Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-BS	BK39759.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.11	78	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	127%	36-173%
460-00-4	Bromofluorobenzene (S)	118%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MS	BK39760.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
OP39069-MSD	BK39761.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
MC32236-13	BK39762.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32120-1, MC32120-2, MC32120-3, MC32120-4, MC32120-6

CAS No.	Compound	MC32236-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.142	0.10	71	0.142	0.10	71	0	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.142	0.11	78	0.142	0.11	78	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-13	Limits
460-00-4	Bromofluorobenzene (S)	130%	117%	121%	36-173%
460-00-4	Bromofluorobenzene (S)	120%	111%	116%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32120-1	BK39763.D	110	99
MC32120-2	BK39764.D	118	111
MC32120-3	BK39765.D	119	115
MC32120-4	BK39766.D	108	111
MC32120-6	BK39767.D	100	98
OP39069-BS	BK39759.D	127	118
OP39069-MB	BK39758.D	111	109
OP39069-MS	BK39760.D	130	120
OP39069-MSD	BK39761.D	117	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32120
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-ICC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39754.D	**Injection Time:**	17:33
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP39069-MB	BK39758.D	07/24/14	18:50	4.39	4.41
OP39069-BS	BK39759.D	07/24/14	19:10	4.39	4.41
OP39069-MS	BK39760.D	07/24/14	19:29	4.39	4.41
OP39069-MSD	BK39761.D	07/24/14	19:48	4.39	4.41
MC32236-13	BK39762.D	07/24/14	20:07	4.39	4.41
MC32120-1	BK39763.D	07/24/14	20:26	4.39	4.41
MC32120-2	BK39764.D	07/24/14	20:46	4.39	4.41
MC32120-3	BK39765.D	07/24/14	21:05	4.39	4.41
MC32120-4	BK39766.D	07/24/14	21:25	4.39	4.41
MC32120-6	BK39767.D	07/24/14	21:44	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC32168

Sampling Date: 07/16/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 156

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

October 8, 2016

Elizabeth Kunkel
AECOM, INC.
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110
Elizabeth.Kunkel@URS.com; bob.billman@urs.com;
Melissa.Mansker@urs.com

RE: SGS Accutest Job # MC32168

Dear Elizabeth Kunkel,

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC32168

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC32168-1	07/16/14	09:50	CWLC	07/17/14	AQ	Ground Water	MW4-ROX-071614
MC32168-2	07/16/14	11:00	CWLC	07/17/14	AQ	Ground Water	MW8-ROX-071614
MC32168-3	07/16/14	14:15	CWLC	07/17/14	AQ	Ground Water	MW7-ROX-071614
MC32168-4	07/16/14	14:15	CWLC	07/17/14	AQ	Ground Water	MW7-ROX-071614-DUP
MC32168-5	07/16/14	00:00	CWLC	07/17/14	AQ	Trip Blank Water	TB-071614-HCL
MC32168-6	07/16/14	00:00	CWLC	07/17/14	AQ	Trip Blank Water	TB-071614-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC32 68

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** 0/8/20 6 :5 :22 PM

4 Samp e(s), 2 Tr p B ank(s) were co ected on 07/ 6/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 7/20 4 proper y preserved, at 0 9 Deg C and ntact These Samp es rece ved a job number of MC32 68 A st ng of the Laborato y Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report 1-Chlorohexane, Benzenethiol, Dibenz(a,h)acridine, Indene, Quinoline were searched in the library search and reported only if detections were found.

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2253

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32345- 2MS, MC32345- 2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Cont nu ng Ca brat on MSH2253-CC2244 for Naphtha ene exceed 20% d fference (b ased ow) Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSH2255

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC324 2-6MS, MC324 2-6MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

Matrix: AQ **Batch ID:** MSV 225

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32 20- MS, MC32 20- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- MC32120-1MS has internal standard outside control limits. Outside control limits due to possible matrix interference. Confirmed by MS/MSD.
- MSV 225-BS Recovery(s) for , -D ch oroethene, Acry on tr e, Methy Tert Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MSV 225-BS Recovery(s) for Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane, V ny Acetate, V ny ch or de are outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC32 20- MS/MSD for Bromomethane, Ch oroethane, Ch oromethane, V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Matr x Sp ke Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Acry on tr e, Benzene, Isopropy benzene, Methy Te t Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether, Benzene are outs de contro m ts for samp e MC32 20- MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Cont nu ng ca brat on check standard MSV 225-CC 77 for ch oromethane, v ny ch or de, bromomethane, ch oroethane, tr ch orof uoromethane, , -d ch oroethene, methy ene ch or de, methy tert buty ether, ac y on tr e, trans- ,2-d ch oroethene, v ny acetate, , -d ch oroethane, 2,2-d ch oropropane, carbon tetrach or de, trans- ,3-d ch oropropene exceed 20% D fference (response b as h gh) Assoc ated samp es are non-detect for these compounds
- MC32 20-1MSD has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Conf rmed by MS/MSD
- MC32 68- ,2,3,4 has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- In t a ca brat on ver f cat on MSV 77-ICV 77 for d ch orod f uoromethane exceed 30% D fference (response b as h gh) Assoc ated samp es are non-detect for th s compound

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSV 225

- Matr x Sp ke Dup cate Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, Acry on tr e, Methy Tert Buty Ether, trans- ,2-D ch oroethene, 2-Ch oroethy v ny ether, Benzene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- MC32 68-2 for To uene-D8: Outs de contro m ts due to poss b e matr x nterferenc e Conf rmed by reana ys s

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP390

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000-22MS, MC32000-22MSD were used as the QC samp es nd cated
- Samp e(s) MC32 68- , MC32 68-2, MC32 68-3, MC32 68-4 have compound(s) repo ted w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- OP390 -BS/MS/MSD Recovery(s) for Hexach orocyc opentad ene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- Matr x Sp ke Recovery(s) for 4-N tropheno are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 4-N tropheno are outs de contro m ts for samp e OP390 -MSD H gh RPD due to poss b e matr x nterference and/or samp e heterogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP390 2

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32000-23MS, MC32000-23MSD were used as the QC samp es nd cated
- OP390 2-MS, OP390 2-MSD has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Samp e(s) MC32 68- , MC32 68-2 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP39069

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC32236- 3MS, MC32236- 3MSD were used as the QC samp es nd cated

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC32 68)

Summary of Hits

Job Number: MC32168
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/16/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32168-1	MW4-ROX-071614					
Benzene		1860	5.0	3.2	ug/l	SW846 8260C
Toluene		6.0	1.0	0.33	ug/l	SW846 8260C
Xylene (total)		5.5 J	10	3.6	ug/l	SW846 8260C
Di-n-butyl phthalate		0.43 JB	5.2	0.18	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.38 J	2.1	0.34	ug/l	SW846 8270D
1-Methylnaphthalene		0.24	0.21	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.22	0.21	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		0.041 JB	0.052	0.013	ug/l	SW846 8270D BY SIM
MC32168-2	MW8-ROX-071614					
Benzene		276000	500	320	ug/l	SW846 8260C
n-Butylbenzene		6.9	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		4.2 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		2.8 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		266	100	38	ug/l	SW846 8260C
Isopropylbenzene		26.6	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		3.2 J	5.0	0.37	ug/l	SW846 8260C
Methyl Tert Butyl Ether		392	100	51	ug/l	SW846 8260C
Naphthalene		59.8	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		60.6	5.0	0.49	ug/l	SW846 8260C
Toluene		108	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		226	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		90.4	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		377	1.0	0.93	ug/l	SW846 8260C
o-Xylene		141	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		518	1.0	0.36	ug/l	SW846 8260C
2-Methylphenol		3.7 J	10	0.23	ug/l	SW846 8270D
3&4-Methylphenol		4.5 J	10	0.48	ug/l	SW846 8270D
Phenol		111	5.2	0.31	ug/l	SW846 8270D
Dibenzofuran		0.41 J	2.1	0.27	ug/l	SW846 8270D
Di-n-butyl phthalate		0.45 JB	5.2	0.18	ug/l	SW846 8270D
Diethyl phthalate		0.57 J	5.2	0.21	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.38 J	2.1	0.34	ug/l	SW846 8270D
Acenaphthene		0.18	0.10	0.071	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.068 J	0.10	0.051	ug/l	SW846 8270D BY SIM
Fluorene		0.38	0.10	0.10	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		12.5	0.21	0.051	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		4.8	0.21	0.076	ug/l	SW846 8270D BY SIM
Phenanthrene		0.20 B	0.052	0.013	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC32168
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/16/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32168-3	MW7-ROX-071614					
Benzene		1270000	5000	3200	ug/l	SW846 8260C
n-Butylbenzene		3.6 J	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		2.2 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		2.2 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		208	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		12.7	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		1.5 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene		16.5	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		19.7	5.0	0.49	ug/l	SW846 8260C
Toluene		224	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		143	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		32.4	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		480	1.0	0.93	ug/l	SW846 8260C
o-Xylene		187	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		667	1.0	0.36	ug/l	SW846 8260C
Phenol		61.8	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.27 JB	5.2	0.18	ug/l	SW846 8270D
Acenaphthene		0.24	0.10	0.069	ug/l	SW846 8270D BY SIM
Fluorene		0.21	0.10	0.099	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		5.2	0.20	0.050	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		7.9	0.20	0.074	ug/l	SW846 8270D BY SIM
Phenanthrene		0.28	0.050	0.013	ug/l	SW846 8270D BY SIM
MC32168-4	MW7-ROX-071614-DUP					
Benzene		1370000	5000	3200	ug/l	SW846 8260C
n-Butylbenzene		3.4 J	5.0	1.1	ug/l	SW846 8260C
sec-Butylbenzene		2.3 J	5.0	0.42	ug/l	SW846 8260C
tert-Butylbenzene		2.2 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		206	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		13.1	5.0	0.35	ug/l	SW846 8260C
p-Isopropyltoluene		1.5 J	5.0	0.37	ug/l	SW846 8260C
Naphthalene		14.1	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		19.4	5.0	0.49	ug/l	SW846 8260C
Toluene		222	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		142	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		31.8	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		465	1.0	0.93	ug/l	SW846 8260C
o-Xylene		181	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		647	1.0	0.36	ug/l	SW846 8260C
Phenol		63.8	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.38 JB	5.2	0.18	ug/l	SW846 8270D
Acenaphthene		0.22	0.10	0.069	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC32168
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/16/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluorene		0.19	0.10	0.099	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		5.2	0.20	0.050	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		7.7	0.20	0.074	ug/l	SW846 8270D BY SIM
Phenanthrene		0.26	0.050	0.013	ug/l	SW846 8270D BY SIM

MC32168-5 **TB-071614-HCL**

No hits reported in this sample.

MC32168-6 **TB-071614-ST**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33196.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67798.D	10	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1860 [a]	5.0	3.2	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND [a]	50	4.2	ug/l	
98-06-6	tert-Butylbenzene	ND [a]	50	3.9	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND [a]	10	3.8	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND [a]	50	3.5	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [b]	ND [a]	50	6.9	ug/l	
103-65-1	n-Propylbenzene	ND [a]	50	4.9	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	6.0	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [a]	50	3.2	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [a]	50	3.8	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND [a]	10	9.3	ug/l	
95-47-6	o-Xylene	ND [a]	10	3.6	ug/l	
1330-20-7	Xylene (total)	5.5 [a]	10	3.6	ug/l	J

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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:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%	101%	70-130%
2037-26-5	Toluene-D8	71%	105%	70-130%
460-00-4	4-Bromofluorobenzene	108%	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74831.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.43	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/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:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.38	2.1	0.34	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	82%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	89%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90919.D	1	07/29/14	MR	07/18/14	OP39012	MSI3384
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	0.24	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	0.22	0.21	0.076	ug/l	
85-01-8	Phenanthrene	0.041	0.052	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	72%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-ROX-071614		
Lab Sample ID:	MC32168-1	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39769.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.2 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	108%		36-173%
460-00-4	Bromofluorobenzene (S)	111%		36-173%

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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33197.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67801.D	100	07/28/14	AMY	n/a	n/a	MSH2253
Run #3	H67848.D	1000	07/29/14	AMY	n/a	n/a	MSH2255

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	276000 [a]	500	320	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	6.9	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	4.2	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	2.8	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	266 [b]	100	38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	26.6	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	3.2	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	392 [b]	100	51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	59.8	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	60.6	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	108	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	226	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	90.4	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	377	1.0	0.93	ug/l	
95-47-6	o-Xylene	141	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	518	1.0	0.36	ug/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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	81%	105%	110%	70-130%
2037-26-5	Toluene-D8	65% [c]	101%	101%	70-130%
460-00-4	4-Bromofluorobenzene	108%	107%	104%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 3
(b) Result is from Run# 2
(c) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74832.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	3.7	10	0.23	ug/l	J
	3&4-Methylphenol	4.5	10	0.48	ug/l	J
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	111	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	0.41	2.1	0.27	ug/l	J
84-74-2	Di-n-butyl phthalate	0.45	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	0.57	5.2	0.21	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.38	2.1	0.34	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		15-110%
4165-62-2	Phenol-d5	29%		15-110%
118-79-6	2,4,6-Tribromophenol	89%		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	74%		30-130%
1718-51-0	Terphenyl-d14	81%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90920.D	1	07/29/14	MR	07/18/14	OP39012	MSI3384
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.18	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	0.068	0.10	0.051	ug/l	J
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	0.38	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	12.5	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	4.8	0.21	0.076	ug/l	
85-01-8	Phenanthrene	0.20	0.052	0.013	ug/l	B
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-ROX-071614		
Lab Sample ID:	MC32168-2	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39770.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	100%		36-173%
460-00-4	Bromofluorobenzene (S)	117%		36-173%

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:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33198.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67799.D	10000	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1270000 [a]	5000	3200	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	3.6	5.0	1.1	ug/l	J
135-98-8	sec-Butylbenzene	2.2	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	2.2	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	208	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	12.7	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	1.5	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	16.5	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	19.7	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	224	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	143	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	32.4	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	480	1.0	0.93	ug/l	
95-47-6	o-Xylene	187	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	667	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	103%	70-130%
2037-26-5	Toluene-D8	72%	103%	70-130%
460-00-4	4-Bromofluorobenzene	115%	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74833.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	61.8	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

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Report of Analysis

Client Sample ID:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	94%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90921.D	1	07/29/14	MR	07/18/14	OP39012	MSI3384
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.24	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	0.21	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	5.2	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	7.9	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.28	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%
1718-51-0	Terphenyl-d14	71%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-071614		
Lab Sample ID:	MC32168-3	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39771.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	115%		36-173%
460-00-4	Bromofluorobenzene (S)	118%		36-173%

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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33199.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67800.D	10000	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1370000 [a]	5000	3200	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	3.4	5.0	1.1	ug/l	J
135-98-8	sec-Butylbenzene	2.3	5.0	0.42	ug/l	J
98-06-6	tert-Butylbenzene	2.2	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	206	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	13.1	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	1.5	5.0	0.37	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	14.1	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	19.4	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	222	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	142	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	31.8	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	465	1.0	0.93	ug/l	
95-47-6	o-Xylene	181	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	647	1.0	0.36	ug/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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	103%	70-130%
2037-26-5	Toluene-D8	72%	102%	70-130%
460-00-4	4-Bromofluorobenzene	118%	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F74834.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	63.8	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.38	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	73%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90922.D	1	07/29/14	MR	07/18/14	OP39012	MSI3384
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.22	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	0.19	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	5.2	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	7.7	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.26	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	MW7-ROX-071614-DUP		
Lab Sample ID:	MC32168-4	**Date Sampled:**	07/16/14
Matrix:	AQ - Ground Water	**Date Received:**	07/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39772.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	78%		36-173%
460-00-4	Bromofluorobenzene (S)	84%		36-173%

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:	TB-071614-HCL		
Lab Sample ID:	MC32168-5	**Date Sampled:**	07/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33188.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-071614-HCL		
Lab Sample ID:	MC32168-5	**Date Sampled:**	07/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/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:	TB-071614-HCL		
Lab Sample ID:	MC32168-5	**Date Sampled:**	07/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/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:	TB-071614-ST		
Lab Sample ID:	MC32168-6	**Date Sampled:**	07/16/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39773.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.1 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	112%		36-173%
460-00-4	Bromofluorobenzene (S)	107%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

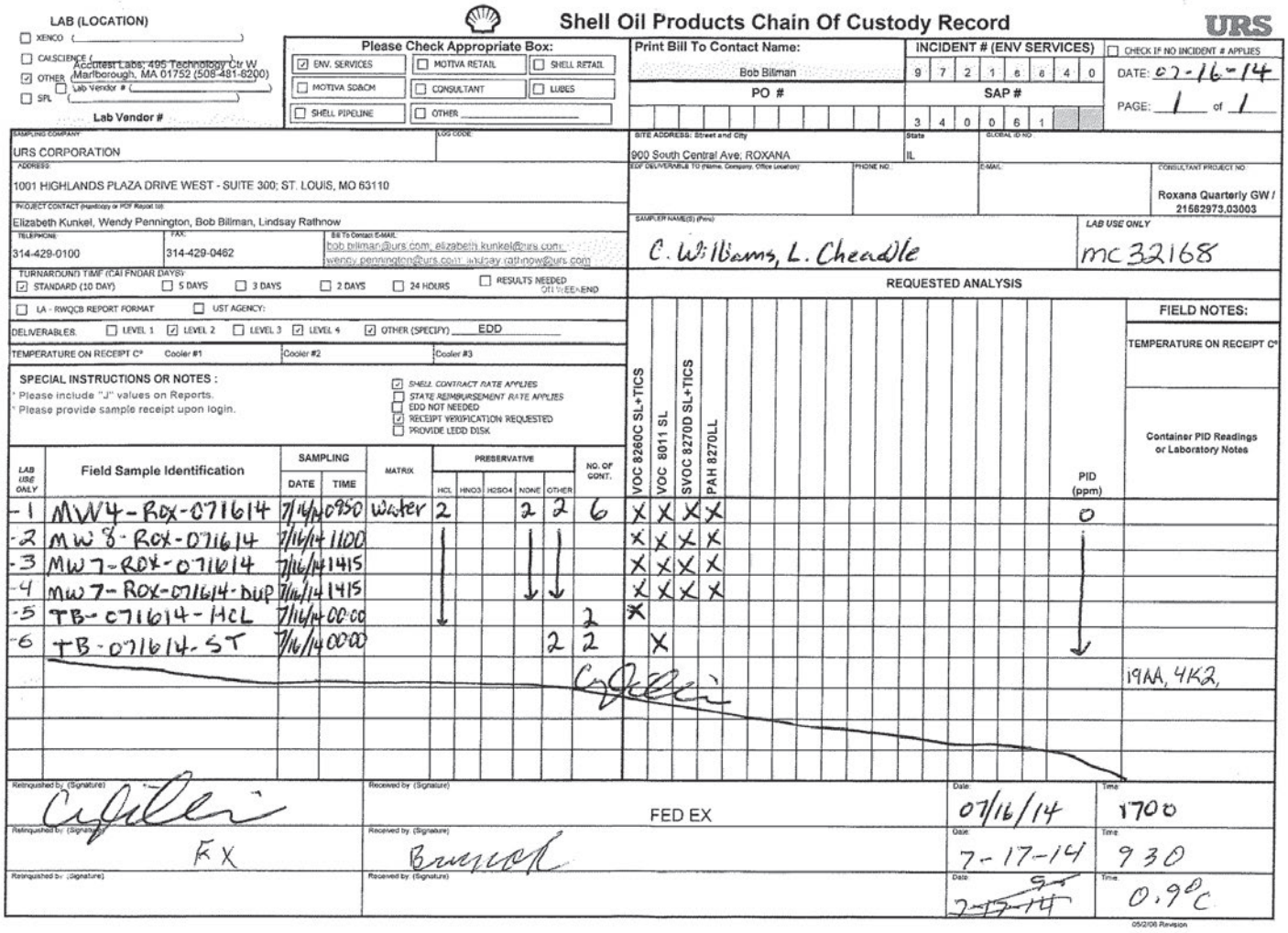
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO ( )
☐ CALSCIENCE ( )
☑ OTHER Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-8200)
☐ SPL ☐ Lab Vendor # ( )
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 07-16-14
PAGE: 1 of 1
PO #
SAP #: 3 4 0 0 6 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
SAMPLER NAME(S) (Print): C. Williams, L. Cheadle
LAB USE ONLY: mc32168
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED On WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	Container PID Readings or Laboratory Notes
-1	MW4-ROX-071614	7/16/14	0950	water	2			2	2	6	X	X	X	X	0	
-2	MW8-ROX-071614	7/16/14	1100								X	X	X	X		
-3	MW7-ROX-071614	7/16/14	1415								X	X	X	X		
-4	MW7-ROX-071614-DUP	7/16/14	1415								X	X	X	X		
-5	TB-071614-HCL	7/16/14	0000							2	X					
-6	TB-071614-ST	7/16/14	0000						2	2		X				
																19AA, 4K2,

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FED EX	07/16/14	1700
FX		7-17-14	930
		7-17-14	0.9°C

05/2/06 Revision

5.1 5

MC32168: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32168 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/17/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC32168: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC32168 **Sample:** MSH2244-ICC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67478.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Response Factor Report MSH

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Calibration Files
0.25=h67472.d 0.5 =h67473.d 1 =h67474.d 5 =h67475.d
10 =h67476.d 25 =h67477.d 50 =h67478.d 100 =h67479.d
200 =h67480.d 400 =h67481.d = =

Compound

	0.25	0.5	1	5	10	25	50	100	200	400	Avg	%RSD
1) I 1,4-difluorobenzene	----------ISTD----------											
2) benzene	1.475	1.213	1.387	1.287	1.345	1.193	1.180	1.069	1.022		1.241	11.86
3) I 1,4-dichlorobenzene-d	----------ISTD----------											
4) 1,1,2,2-tetrachloroethane	1.087	0.899	1.040	0.836	0.849	0.774	0.744	0.688	0.598		0.835	18.91

---- Quadratic regression ---- Coefficient = 0.9990
Response Ratio = 0.00415 + 0.80280 *A + -0.02603 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

h140716wx.m Mon Oct 19 11:30:13 2015

Initial Calibration Verification

Job Number: MC32168 **Sample:** MSH2244-ICV2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67492.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140717\h67492.d Vial: 4
Acq On : 17 Jul 2014 1:41 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32302,msh2244,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.49
2 p	benzene	1.241	1.231	0.8	106	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	49.981	0.0	105	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Mon Oct 19 15:42:36 2015

Continuing Calibration Summary

Job Number: MC32168 **Sample:** MSH2253-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67780.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140728\h67780.d Vial: 2
Acq On : 28 Jul 2014 9:00 am Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32366,msh2253,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00	9.49
2 p	benzene	1.241	1.202	3.1	77	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	51.545	-3.1	80	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 11:01:29 2015

Continuing Calibration Summary

Job Number: MC32168 **Sample:** MSH2254-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67806.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140728\h67806.d Vial: 10
Acq On : 28 Jul 2014 10:11 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32359,msh2254,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	59	0.00	9.49
2 p	benzene	1.241	1.116	10.1	55	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	62	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	48.953	2.1	61	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 11:40:36 2015

5.2 5

Continuing Calibration Summary

Job Number: MC32168 **Sample:** MSH2255-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67836.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140729\h67836.d Vial: 2
Acq On : 29 Jul 2014 12:28 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32352,msh2255,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-difluorobenzene	1.000	1.000	0.0	62	0.00	9.49
2	p	benzene	1.241	1.118	9.9	58	0.00	9.29
3	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	59	0.00	15.31
			Amount	Calc.	%Drift			
4	P	1,1,2,2-tetrachloroethane	50.000	52.633	-5.3	63	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 12:13:33 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

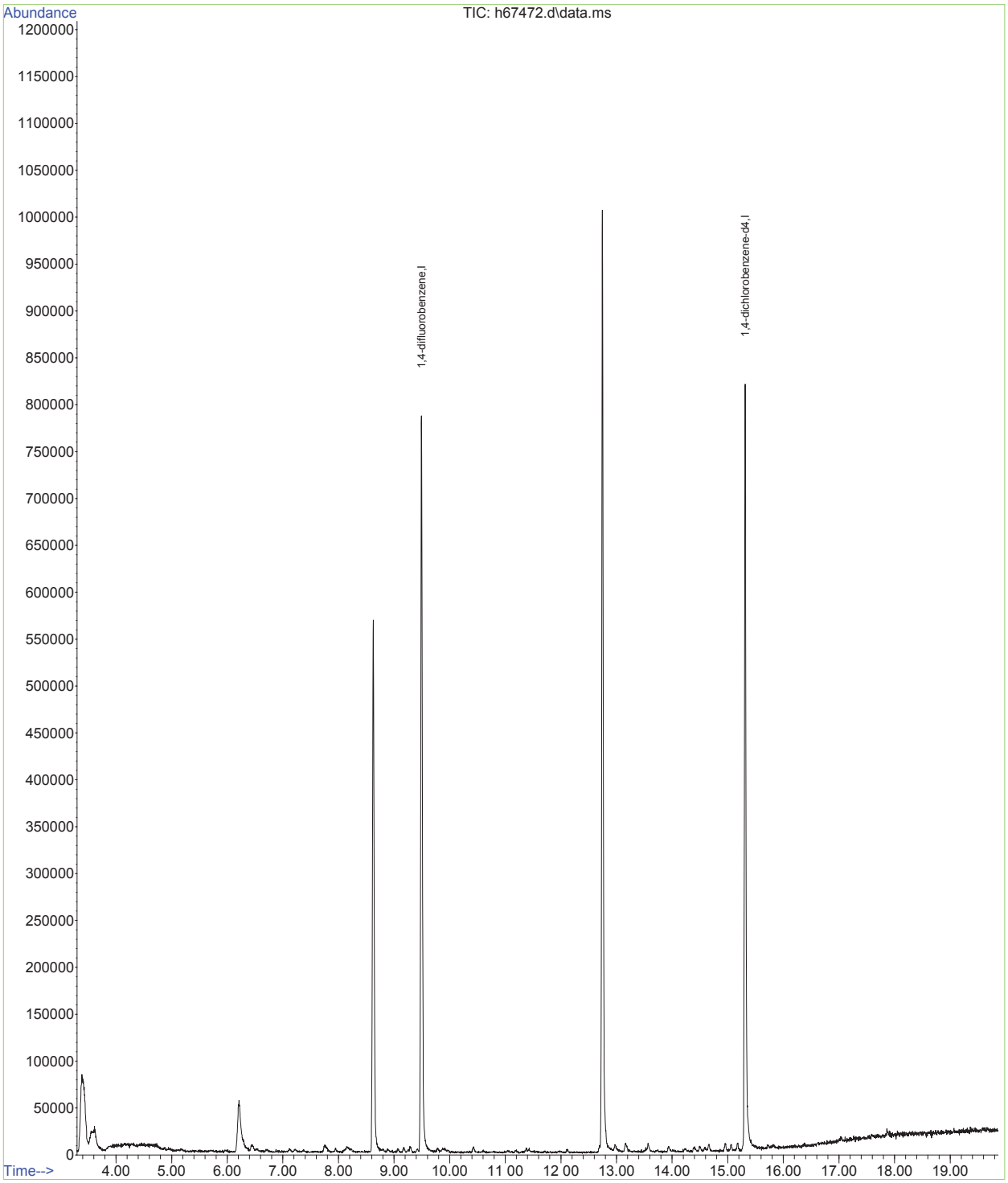
Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	684493	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	236246	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

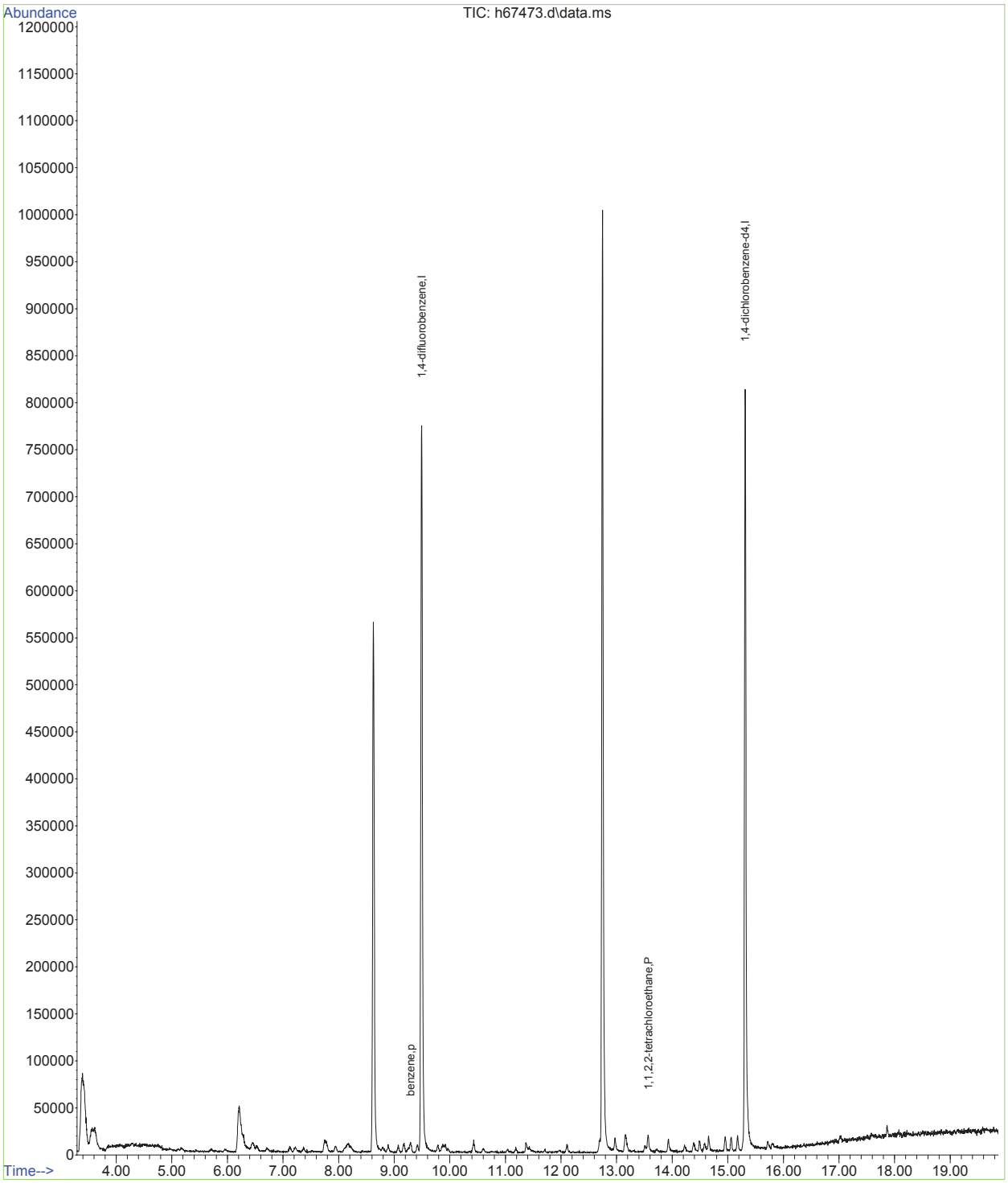
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	677191	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	233786	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.292	78	9988m	0.62	ug/L	
4) 1,1,2,2-tetrachloroethane	13.572	83	2541	0.70	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

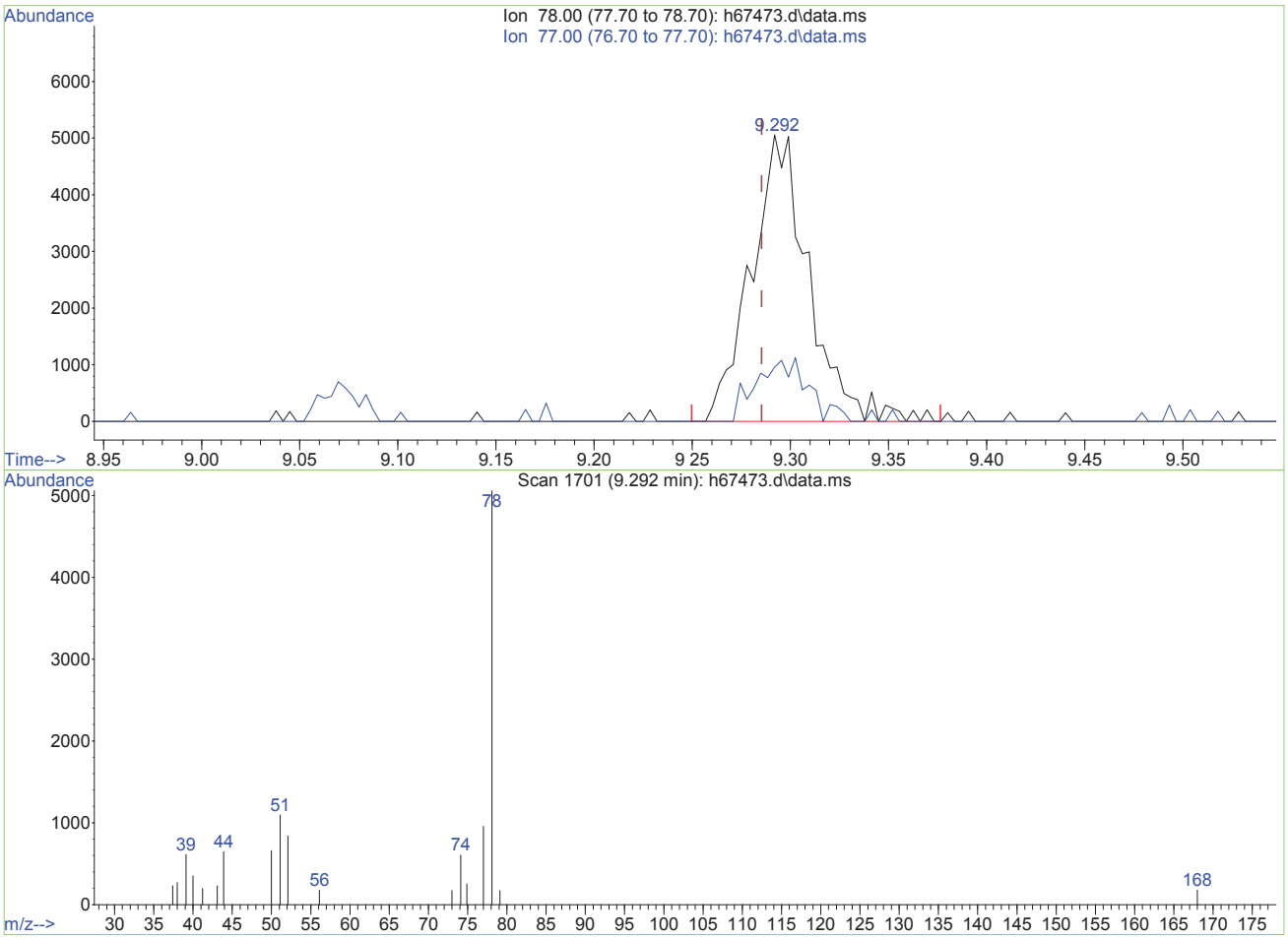
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:19:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:18:16 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.64ug/L

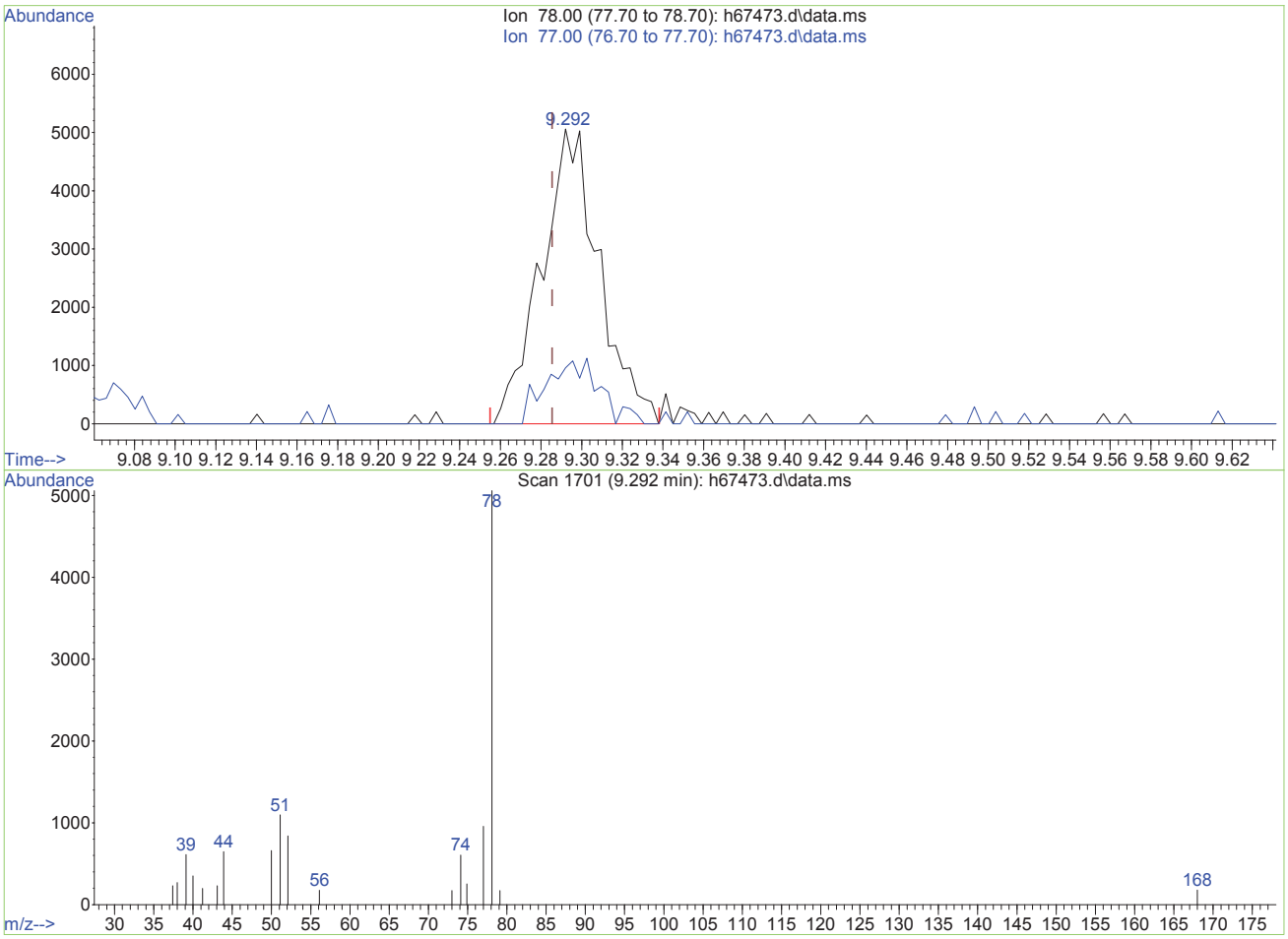
response 10328

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.62ug/L m

response 9988

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

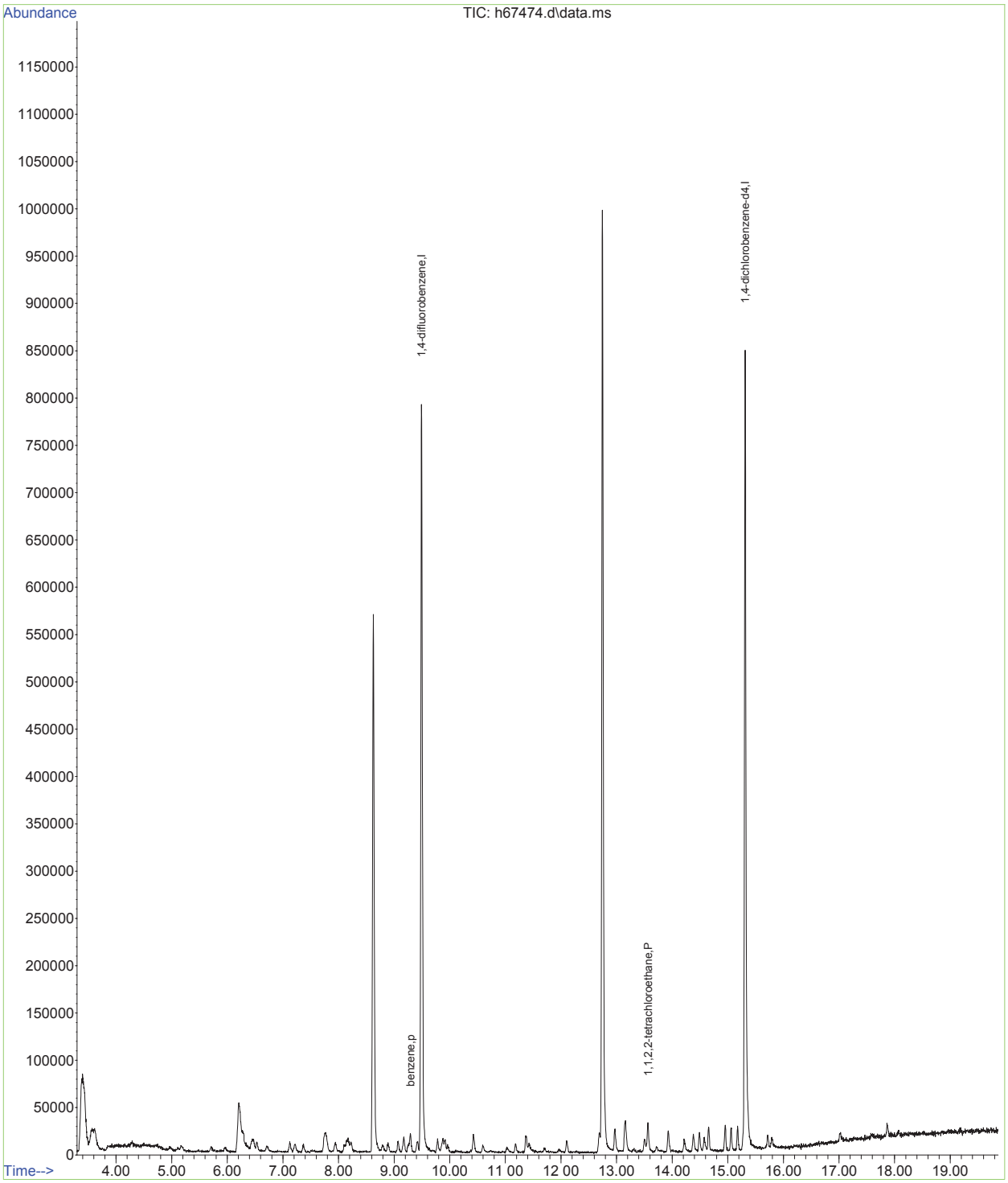
Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	687264	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	240259	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.291	78	16672	1.02	ug/L	95
4) 1,1,2,2-tetrachloroethane	13.565	83	4319	1.16	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

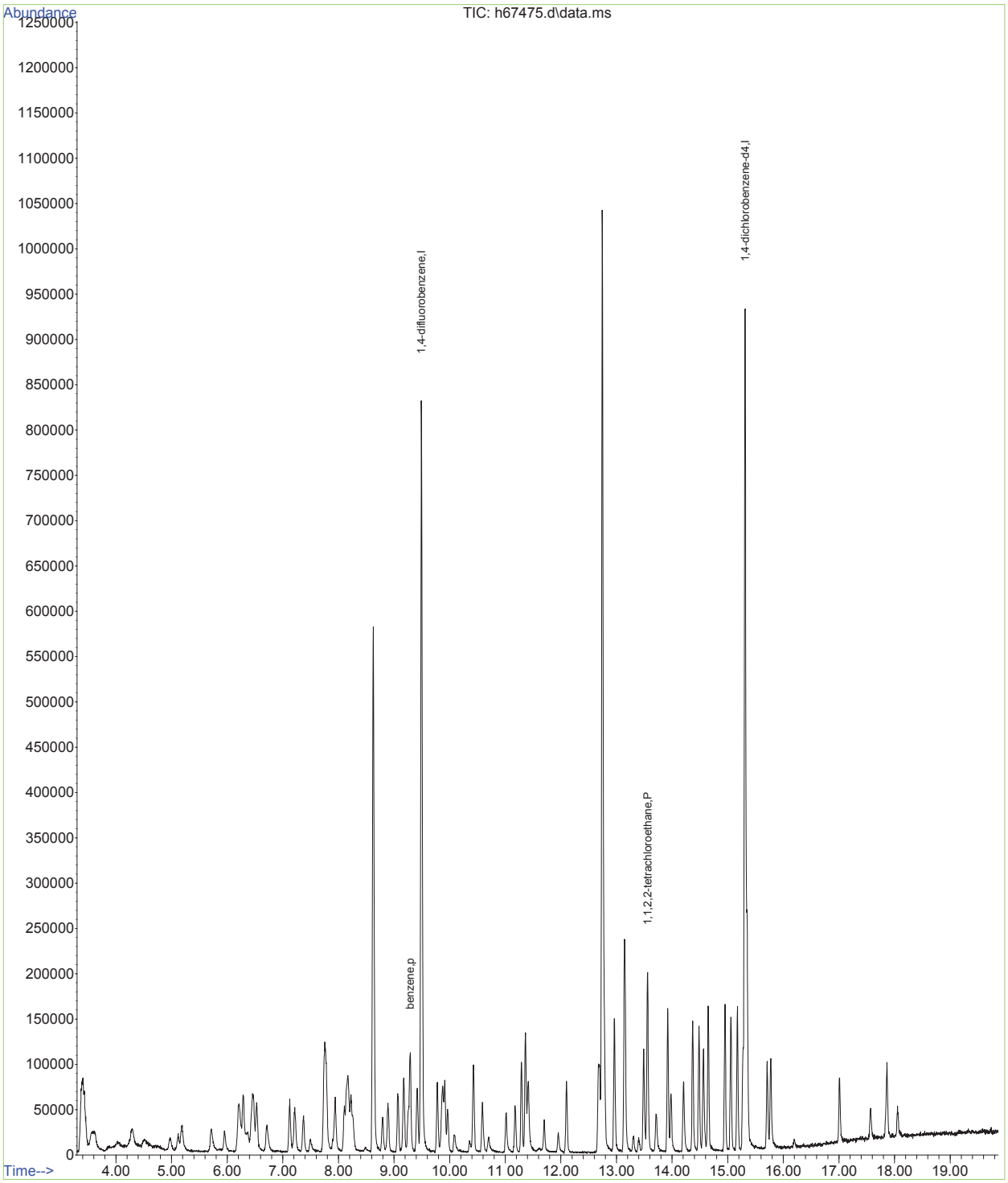
Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699432	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	259949	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	97018	5.81	ug/L	93
4) 1,1,2,2-tetrachloroethane	13.559	83	27040	6.72	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

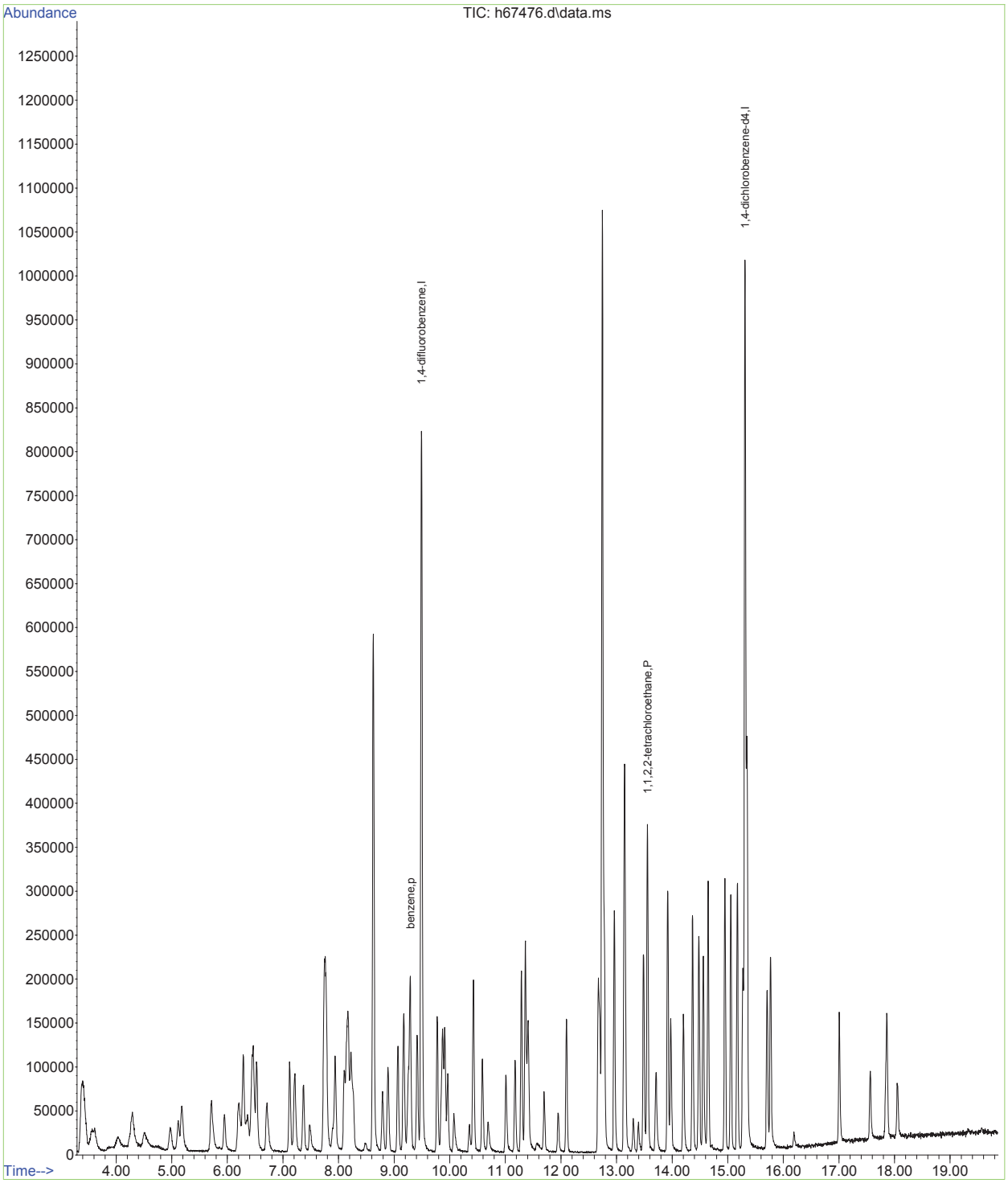
Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	695845	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	274980	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	179063	10.79	ug/L	99
4) 1,1,2,2-tetrachloroethane	13.560	83	45957	10.80	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



SGS ACCUTEST MC32168

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

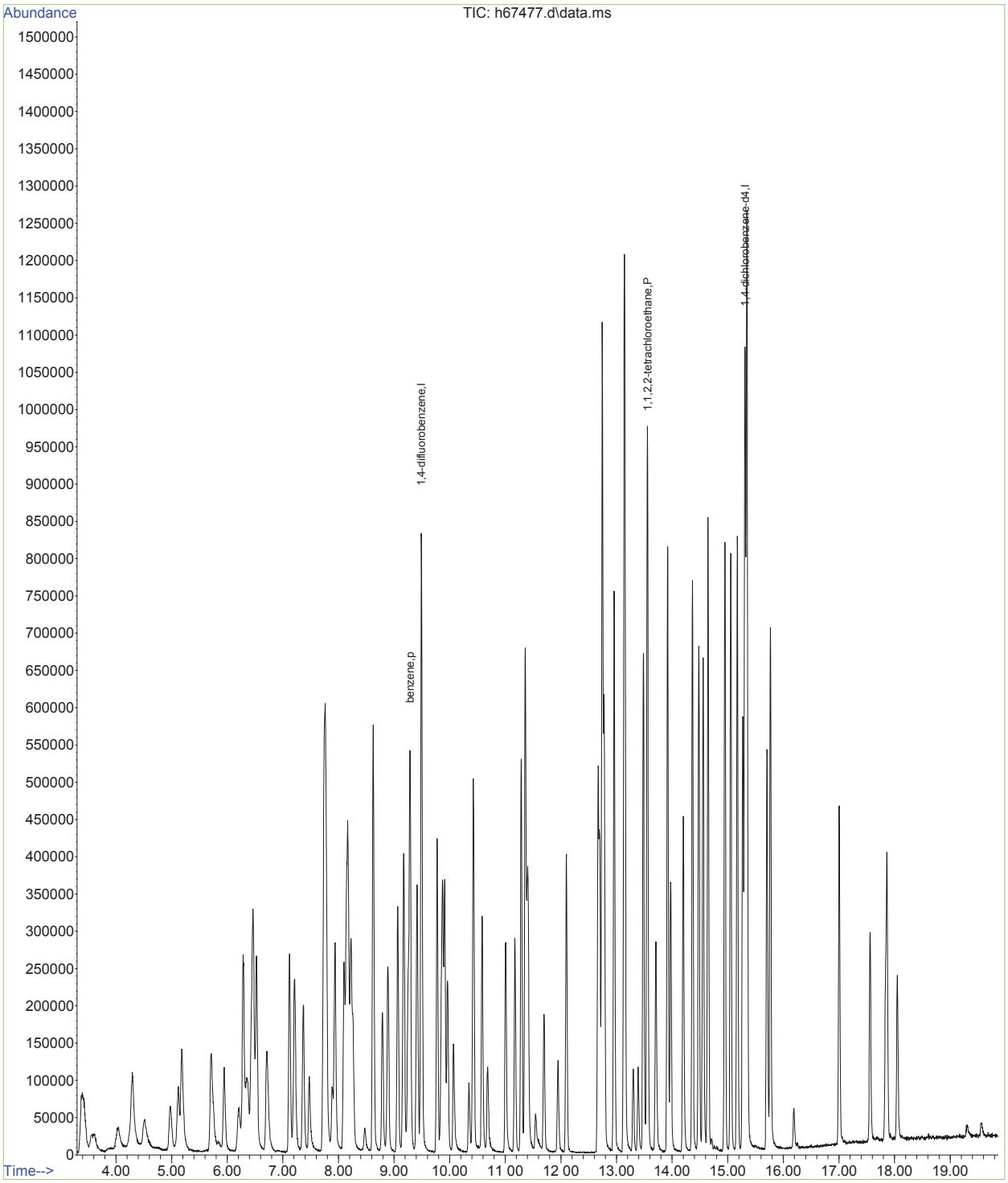
Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699612	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	289791	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	470565	28.19	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.558	83	122945	27.42	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

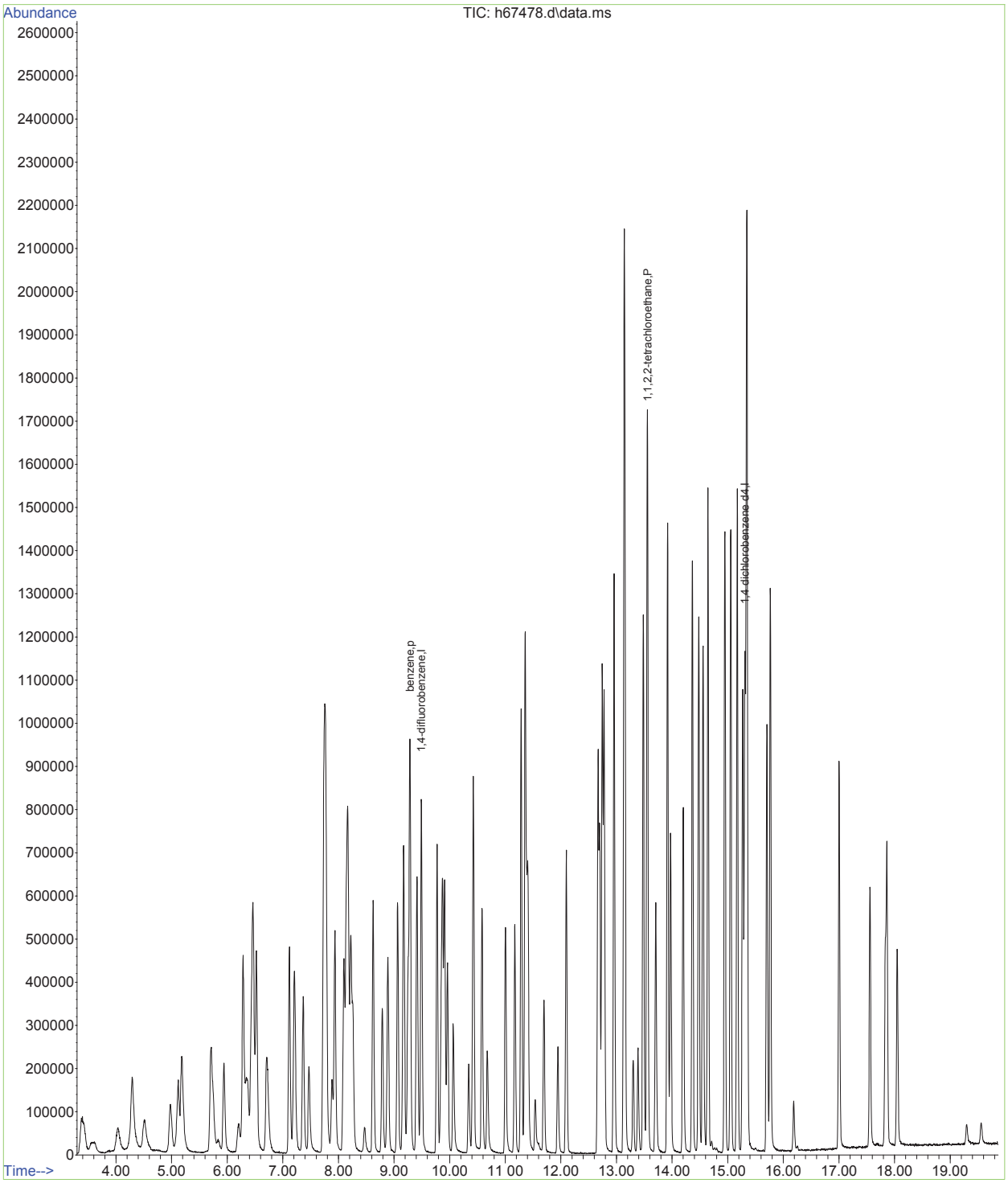
Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	694753	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	295278	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	828803	50.00	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.559	83	228425	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



SGS ACCUTEST MC32168

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

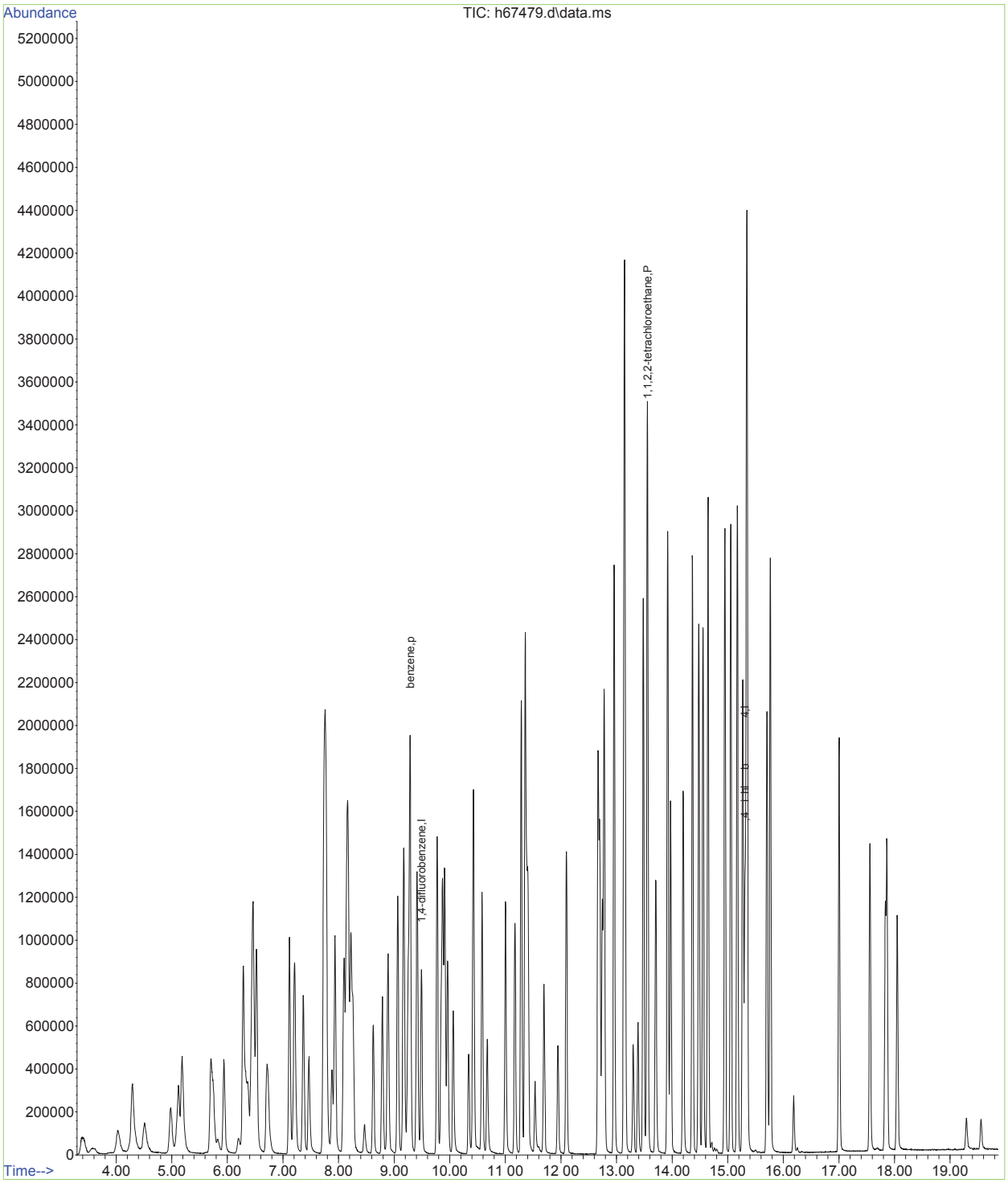
Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	708246	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	308032	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1672064	98.95	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.559	83	458386	96.18	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

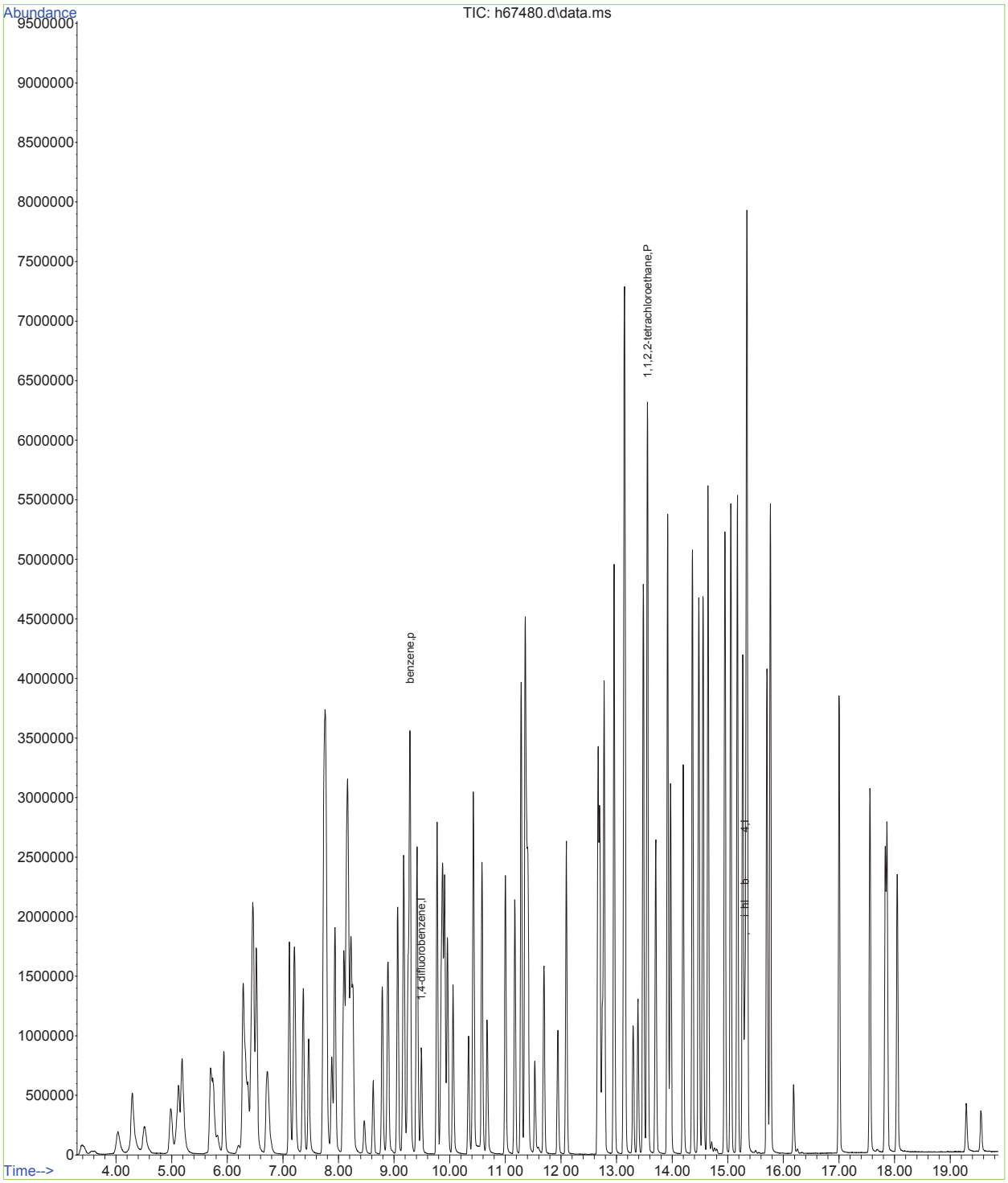
Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	716390	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	313007	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	3064468	179.29	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	861357	177.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

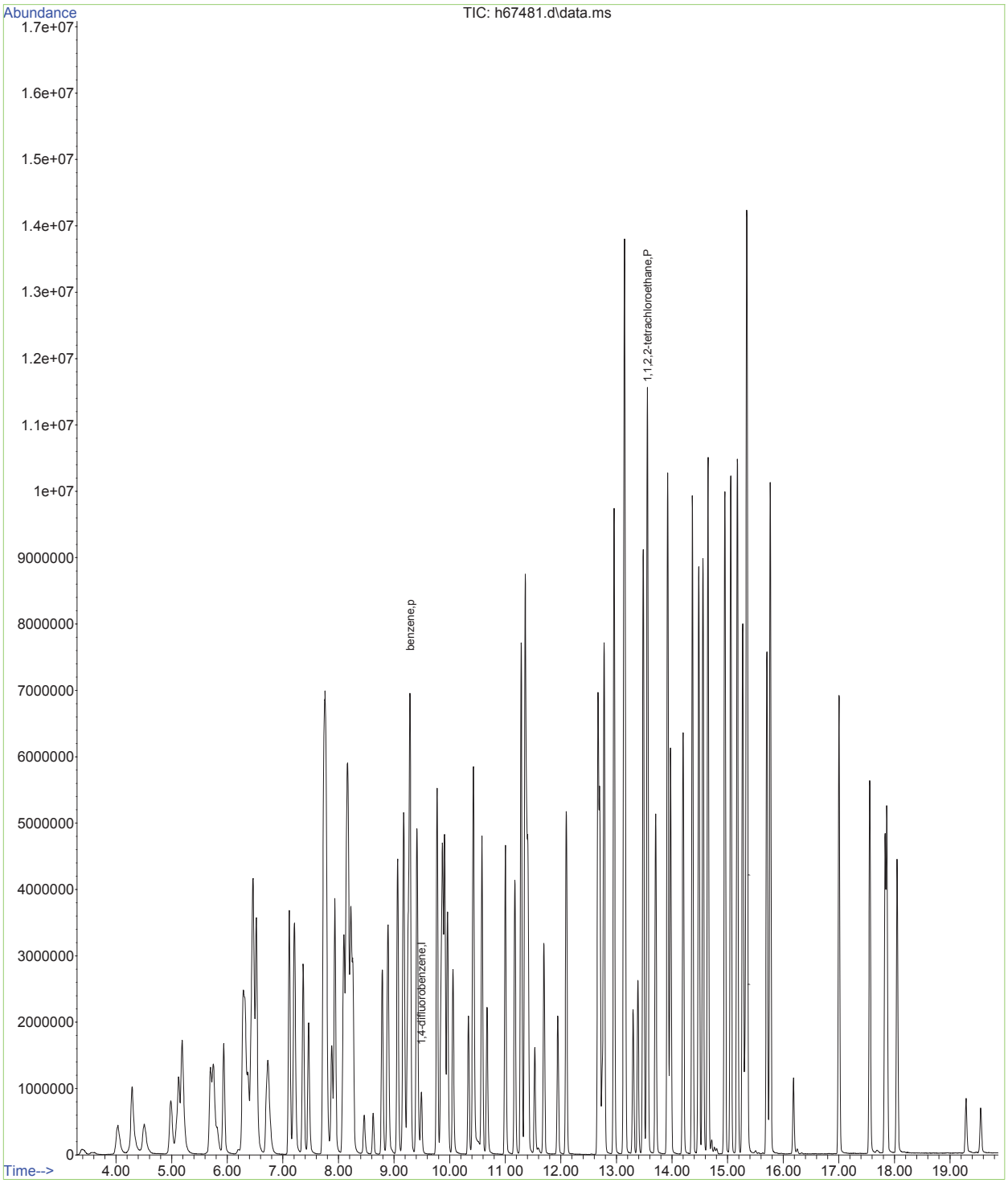
Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	739850	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	313899	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	6047226	342.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.561	83	1502858	309.45	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

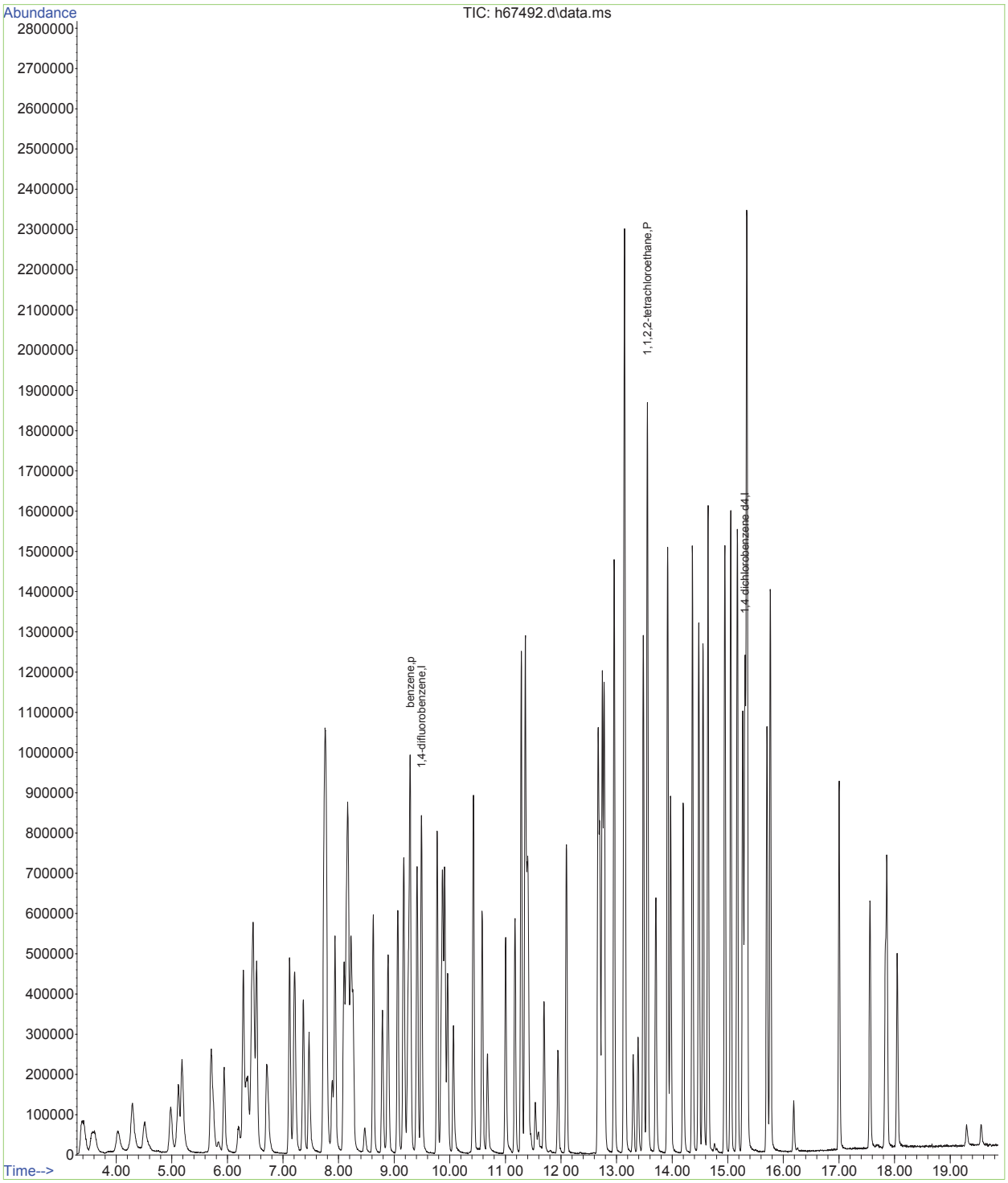
Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	710770	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	307965	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	874815	49.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	240411	49.98	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



SGS ACCUTEST MC32168

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	533886	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228339	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	641479	48.40	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.560	83	183606	51.54	ug/L	98

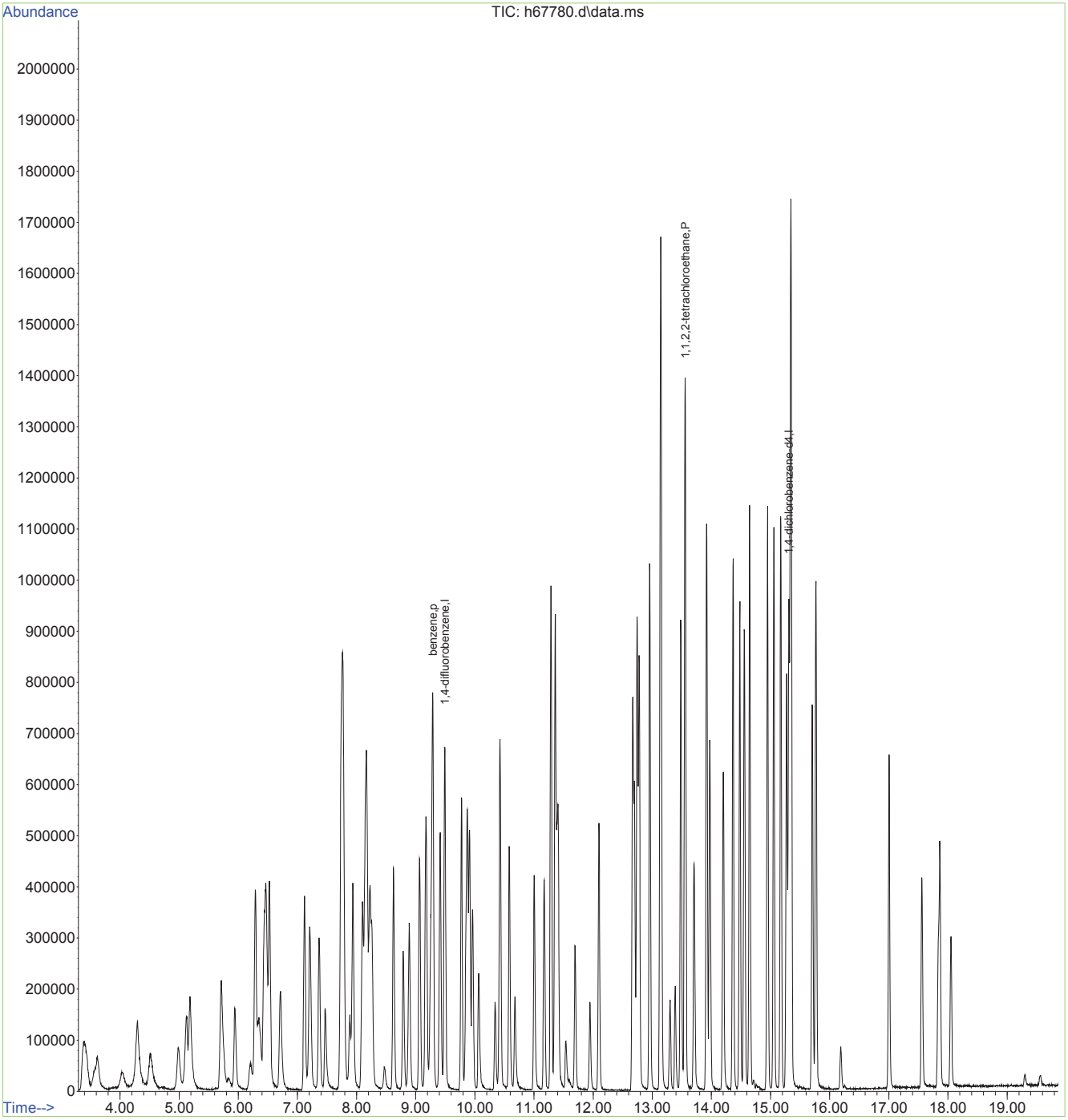
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST MC32168

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67806.d
Acq On : 28 Jul 2014 10:11 pm
Operator : amym
Sample : cc2244-50
Misc : ms32359,msh2254,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 11:39:28 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

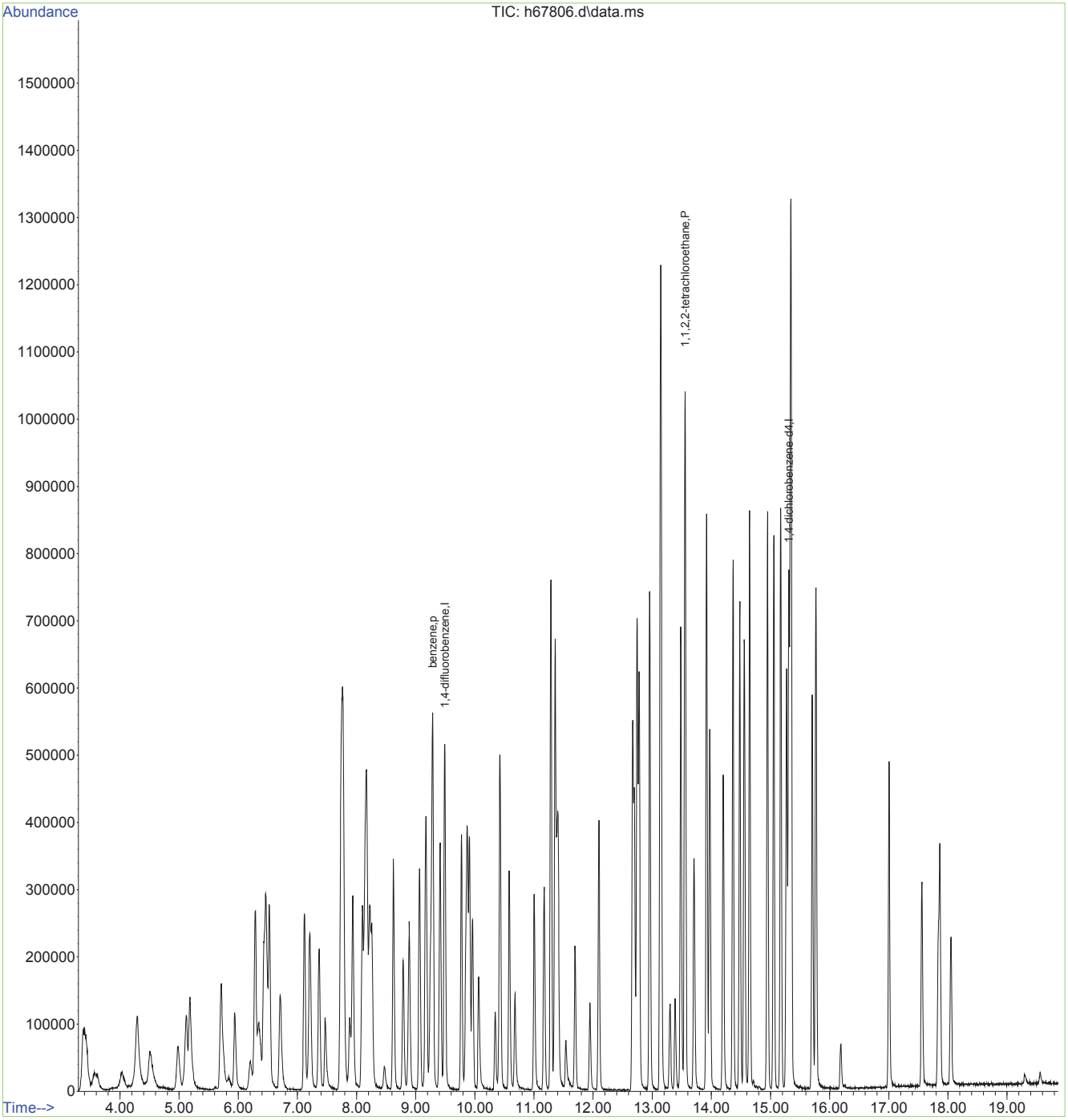
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.495	114	409264	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.307	152	182831	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.287	78	456616	44.94	ug/L	96
4) 1,1,2,2-tetrachloroethane	13.556	83	139902	48.95	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67806.d
Acq On : 28 Jul 2014 10:11 pm
Operator : amym
Sample : cc2244-50
Misc : ms32359,msh2254,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 11:39:28 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



SGS ACCUTEST
MC32168

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67836.d
Acq On : 29 Jul 2014 12:28 pm
Operator : amym
Sample : cc2244-50
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 12:09:19 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

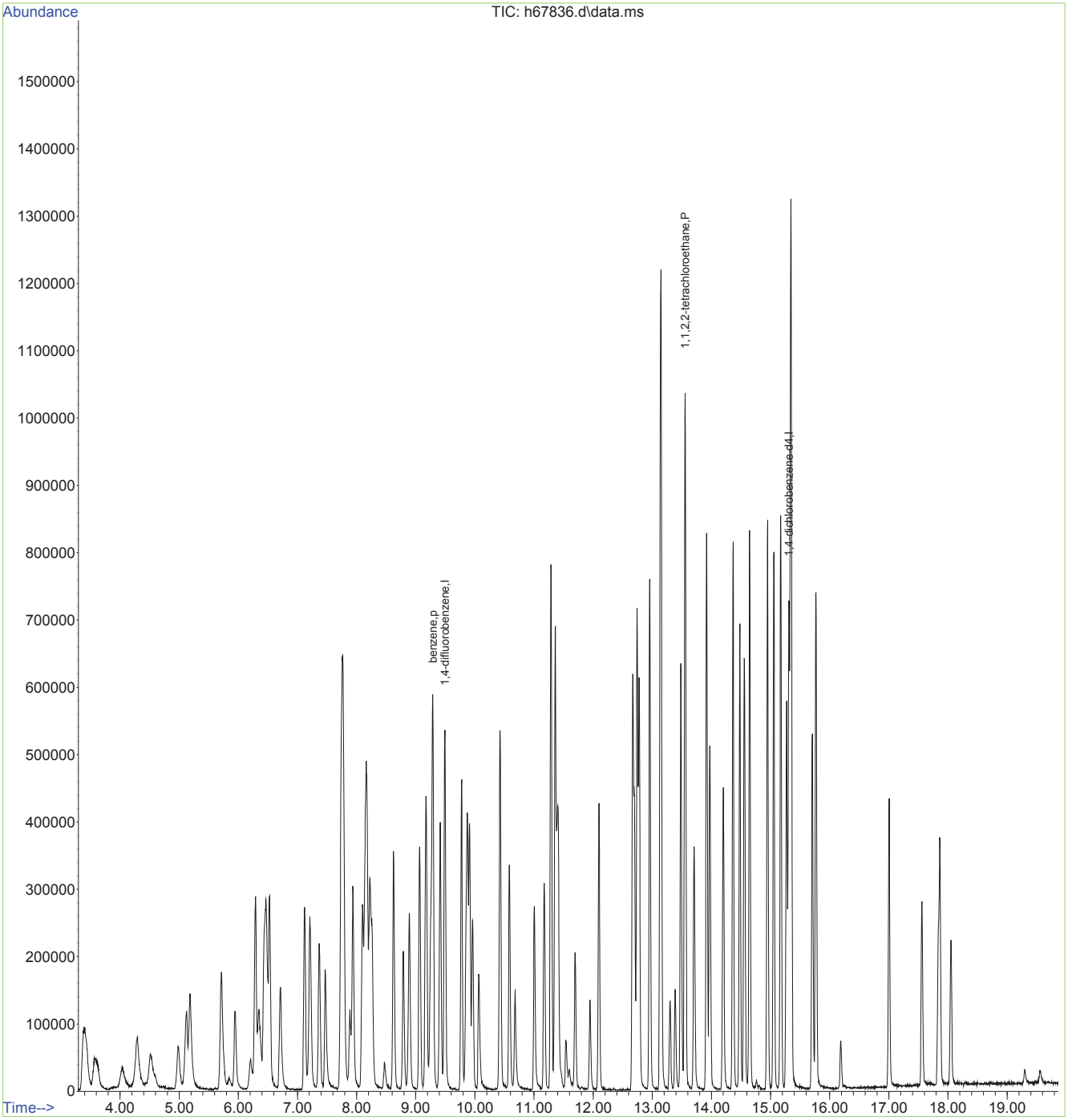
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	427449	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	175483	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.289	78	477706	45.02	ug/L	94
4) 1,1,2,2-tetrachloroethane	13.555	83	143964	52.63	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67836.d
Acq On : 29 Jul 2014 12:28 pm
Operator : amym
Sample : cc2244-50
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 12:09:19 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



SGS ACCUTEST
MC32168

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67798.d
Acq On : 28 Jul 2014 6:25 pm
Operator : amym
Sample : mc32168-1
Misc : ms32359,msh2253,,,,5,10
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:18 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

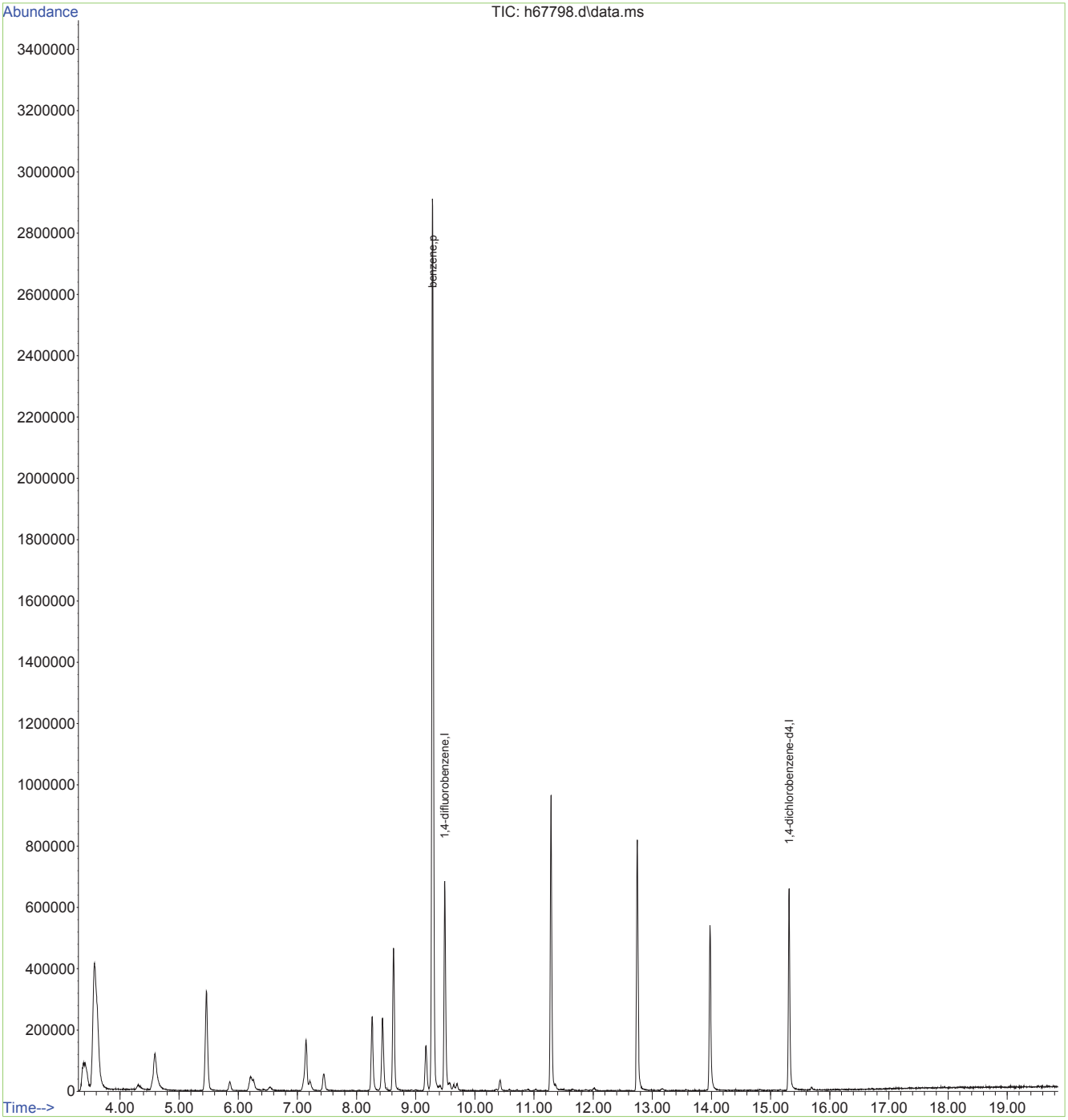
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	564865	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	180247	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	2605787	185.82	ug/L	98

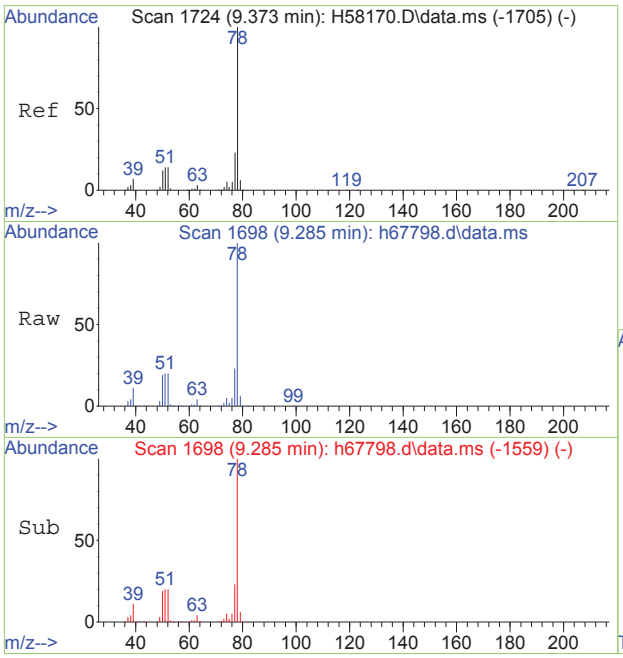
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67798.d
Acq On : 28 Jul 2014 6:25 pm
Operator : amym
Sample : mc32168-1
Misc : ms32359,msh2253,,,,5,10
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:18 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

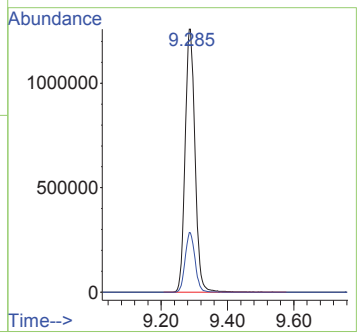




#2
benzene
Concen: 185.82 ug/L
RT: 9.285 min Scan# 1698
Delta R.T. -0.000 min
Lab File: h67798.d
Acq: 28 Jul 2014 6:25 pm

Tgt Ion: 78 Resp: 2605787

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67799.d
Acq On : 28 Jul 2014 6:53 pm
Operator : amym
Sample : mc32168-3
Misc : ms32359,msh2253,,,,5,10000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:00:20 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

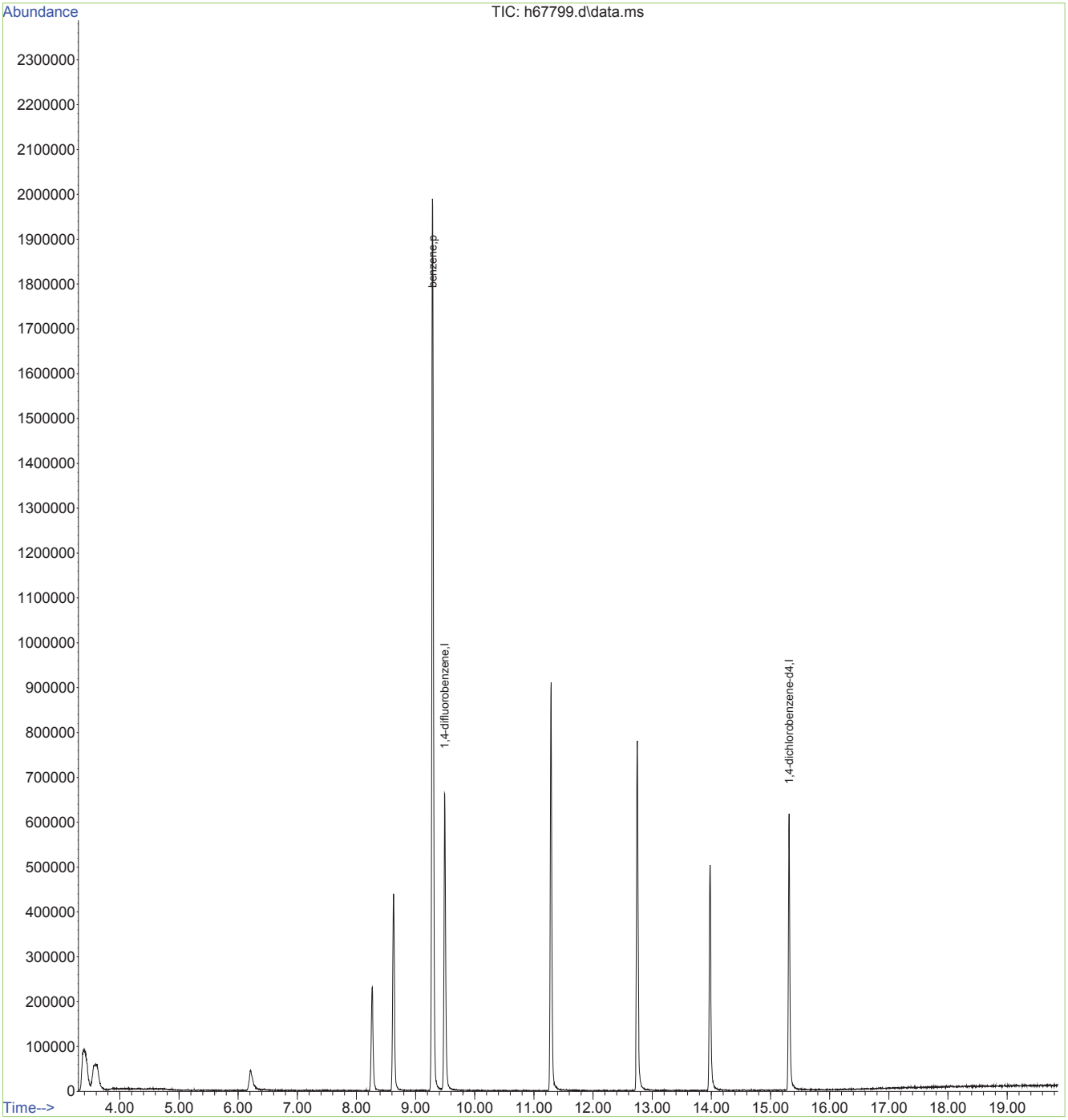
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	546614	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.316	152	167134	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1722286	126.92	ug/L	98

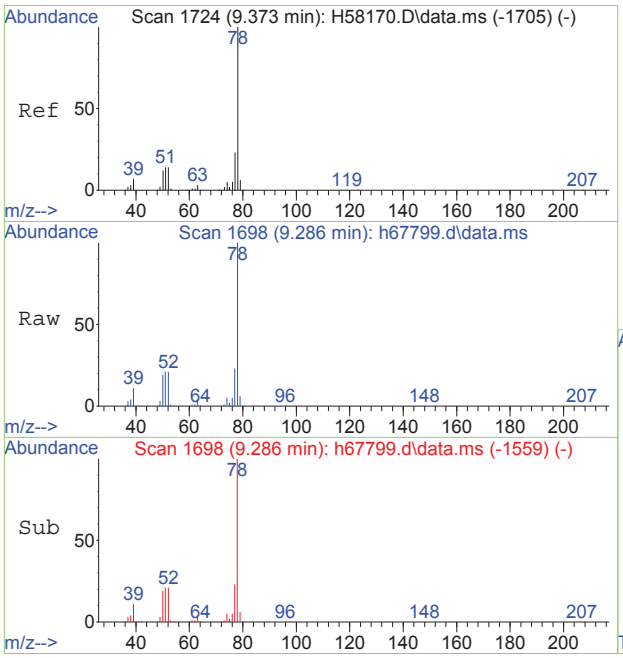
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67799.d
Acq On : 28 Jul 2014 6:53 pm
Operator : amym
Sample : mc32168-3
Misc : ms32359,msh2253,,,,5,10000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:00:20 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

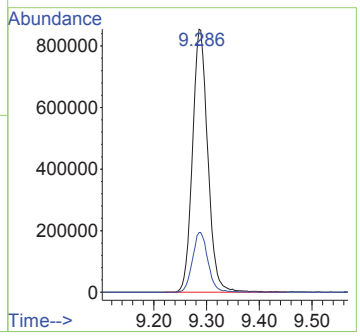




#2
benzene
Concen: 126.92 ug/L
RT: 9.286 min Scan# 1698
Delta R.T. 0.001 min
Lab File: h67799.d
Acq: 28 Jul 2014 6:53 pm

Tgt Ion: 78 Resp: 1722286

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67800.d
Acq On : 28 Jul 2014 7:21 pm
Operator : amym
Sample : mc32168-4
Misc : ms32359,msh2253,,,,5,10000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:00:22 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

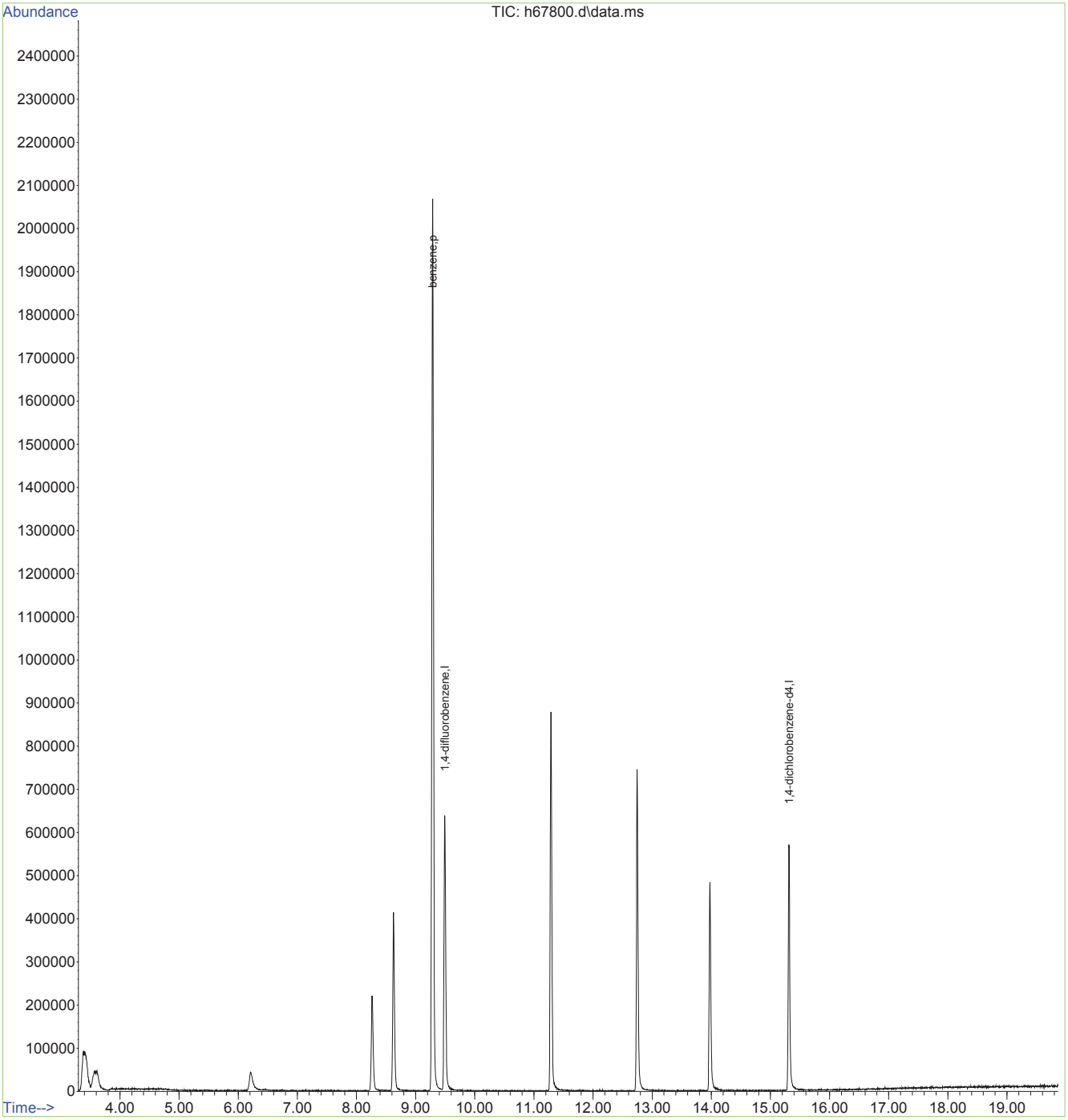
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	513224	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.315	152	154113	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	1750981	137.43	ug/L	98

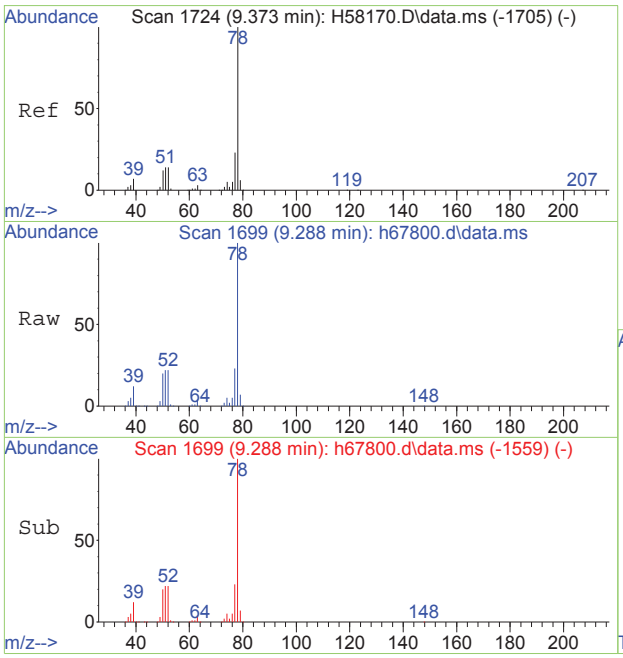
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67800.d
Acq On : 28 Jul 2014 7:21 pm
Operator : amym
Sample : mc32168-4
Misc : ms32359,msh2253,,,,5,10000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:00:22 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

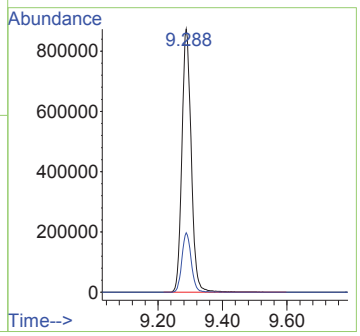




#2
benzene
Concen: 137.43 ug/L
RT: 9.288 min Scan# 1699
Delta R.T. 0.003 min
Lab File: h67800.d
Acq: 28 Jul 2014 7:21 pm

Tgt Ion: 78 Resp: 1750981

Ion	Ratio	Lower	Upper
78	100		
77	22.6	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67848.d
Acq On : 29 Jul 2014 6:30 pm
Operator : amym
Sample : mc32168-2
Misc : ms32359,msh2255,,,,5,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:15:27 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

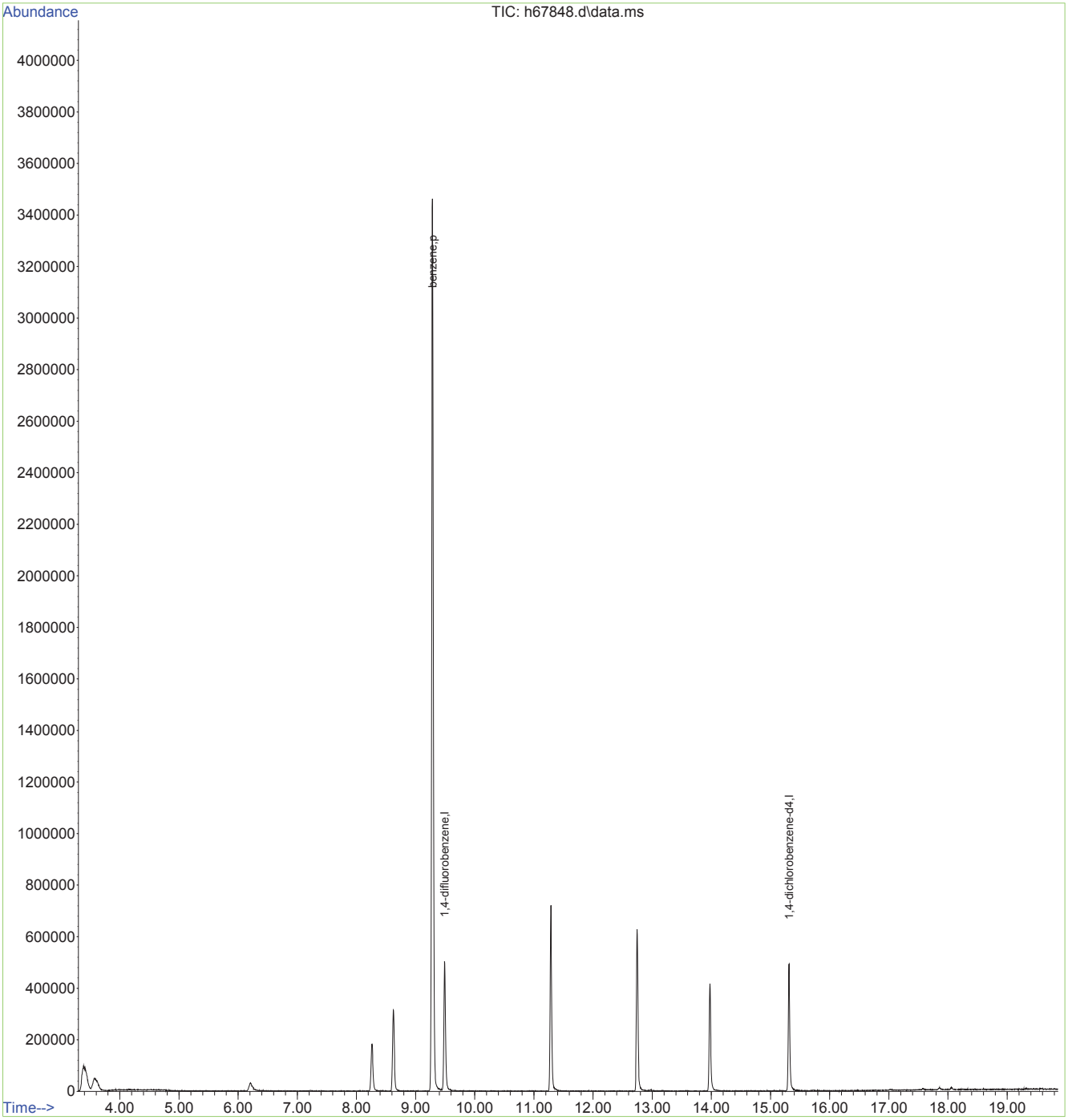
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	418251	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	134195	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	2863624	275.80	ug/L	99

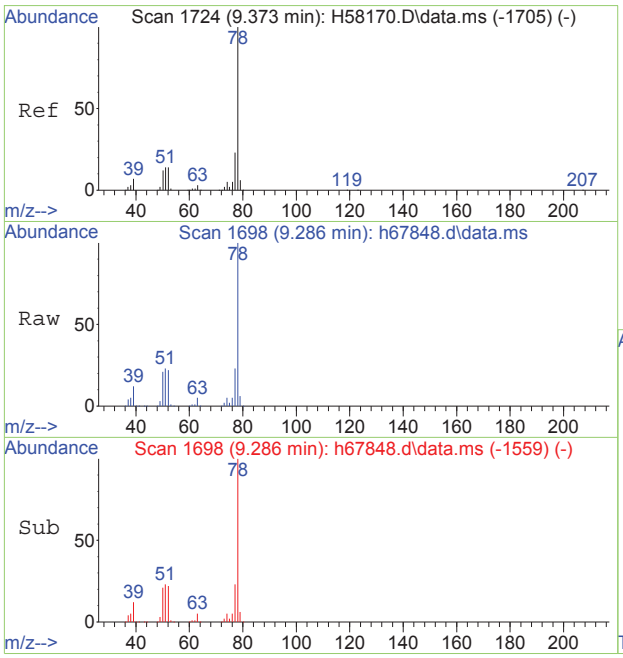
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67848.d
Acq On : 29 Jul 2014 6:30 pm
Operator : amym
Sample : mc32168-2
Misc : ms32359,msh2255,,,,5,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:15:27 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

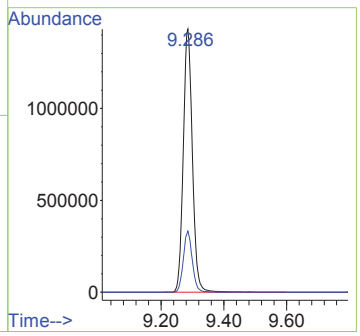




#2
benzene
Concen: 275.80 ug/L
RT: 9.286 min Scan# 1698
Delta R.T. 0.001 min
Lab File: h67848.d
Acq: 29 Jul 2014 6:30 pm

Tgt Ion: 78 Resp: 2863624

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

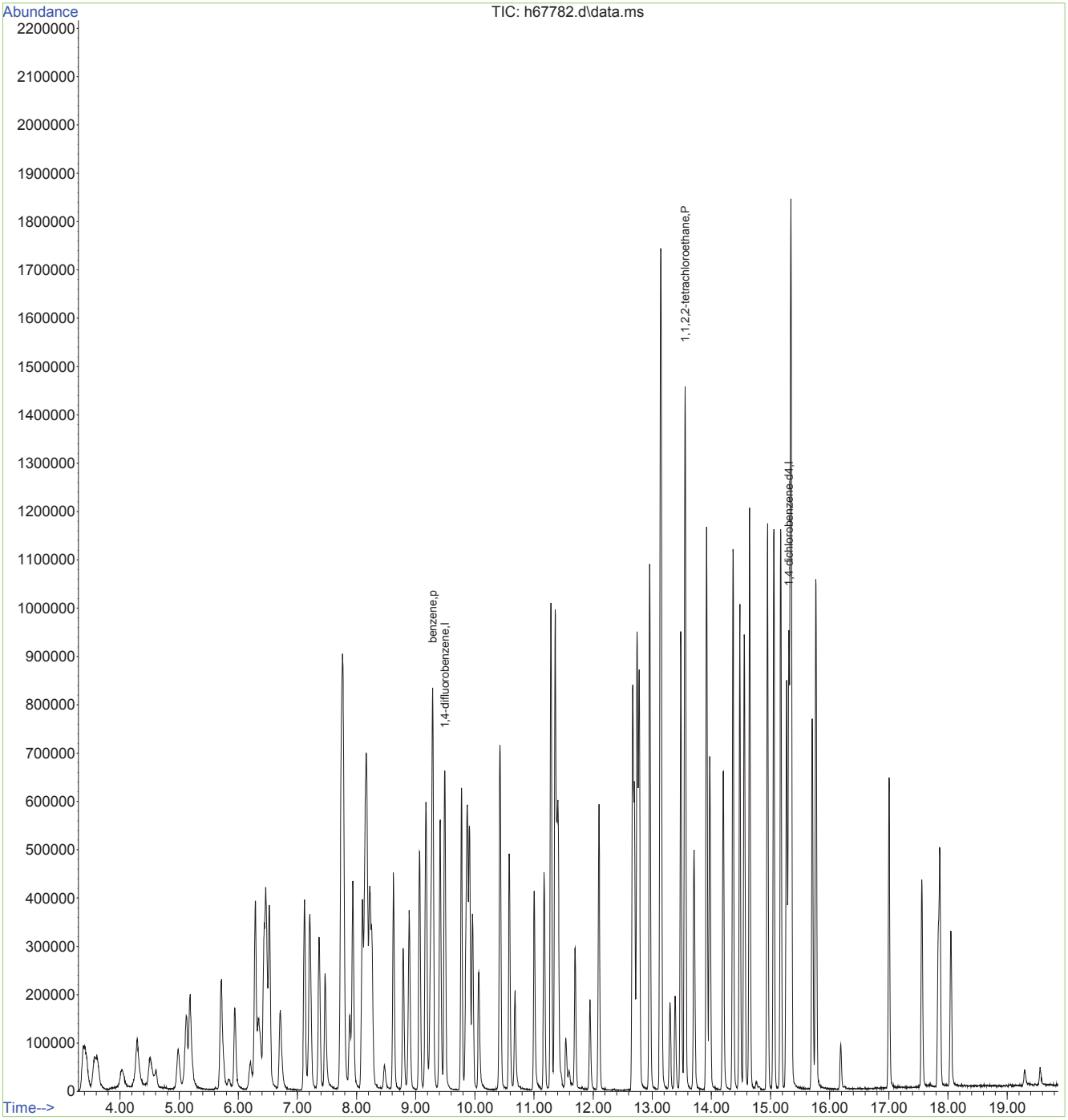
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.495	114	538287	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228719	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	686933	51.41	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	193097	54.23	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	471219	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	150694	50.00	ug/L	0.00

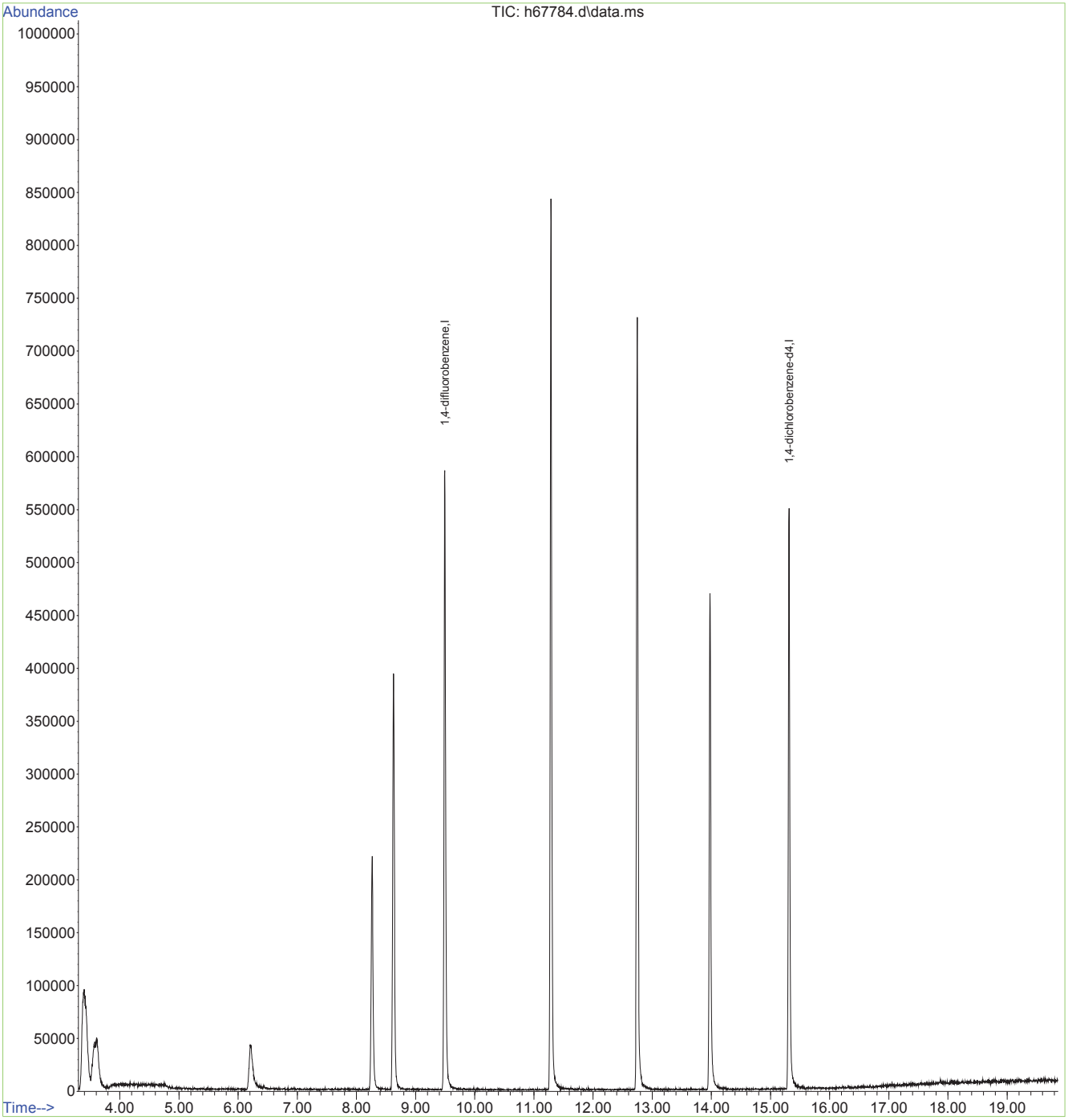
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

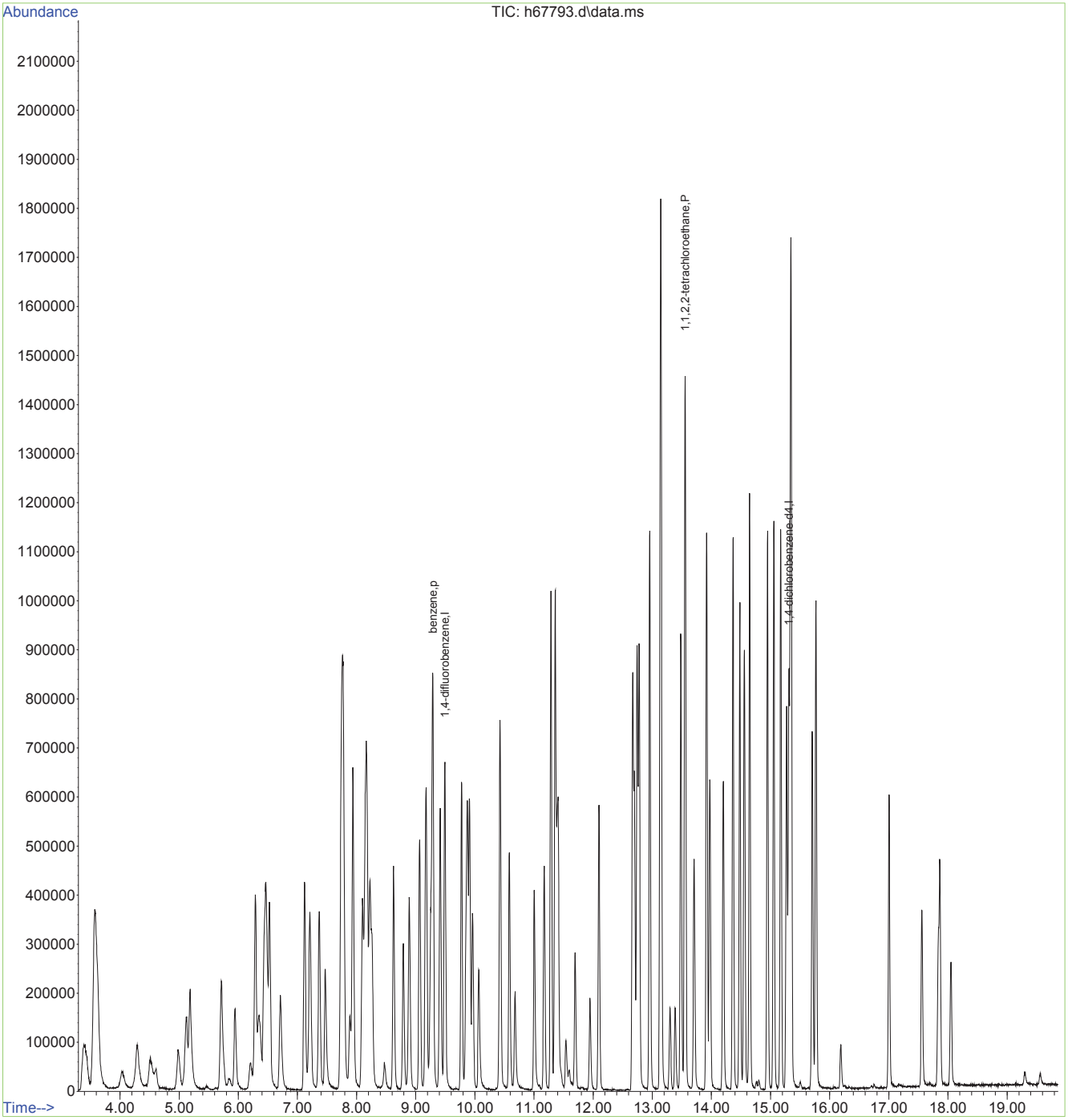
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	532448	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	204387	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	713448	53.98	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.556	83	189943	59.95	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

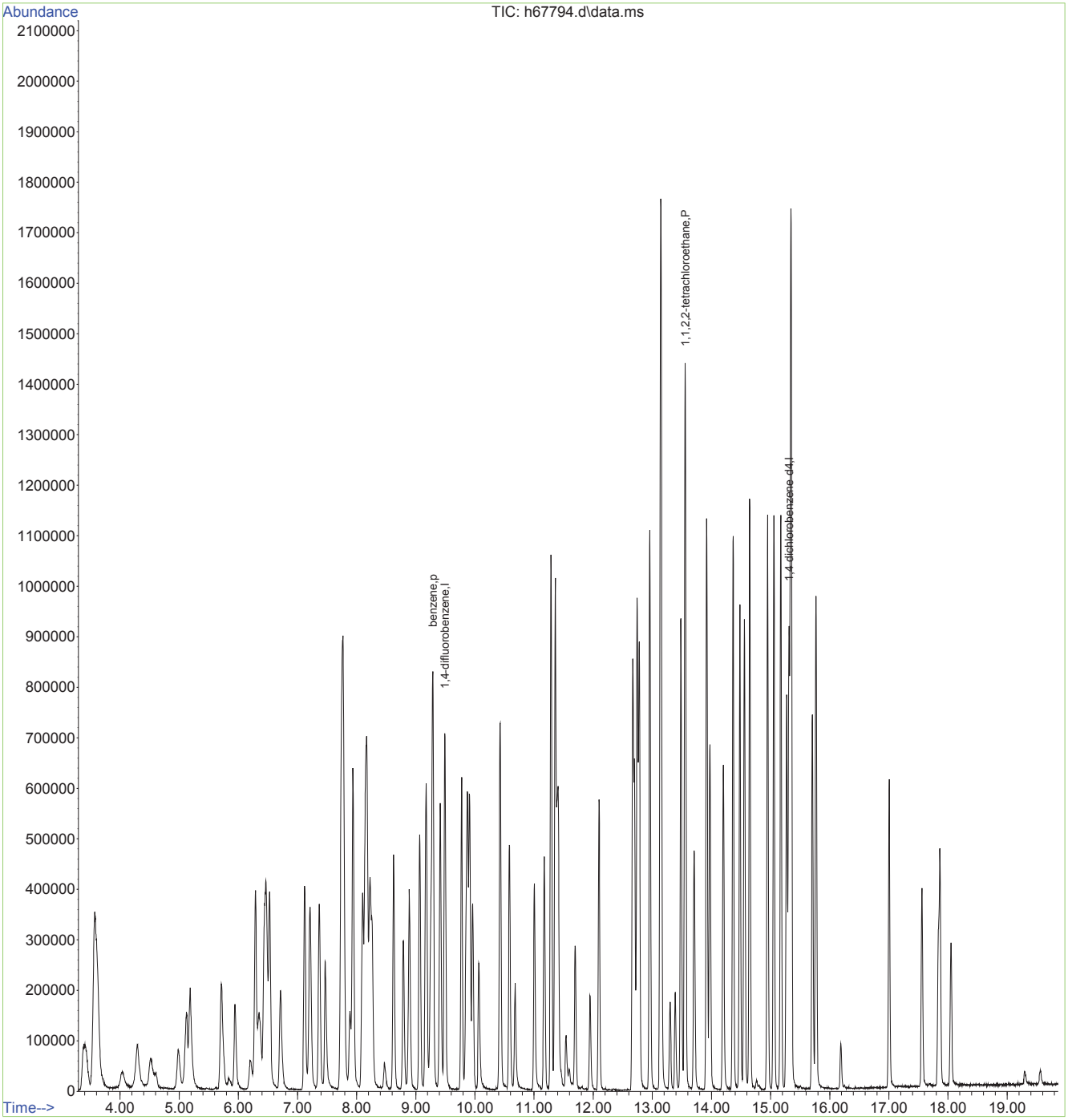
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	568755	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	221552	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	702151	49.73	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	191310	55.52	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67836.d
Acq On : 29 Jul 2014 12:28 pm
Operator : amym
Sample : cc2244-50
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 12:09:19 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

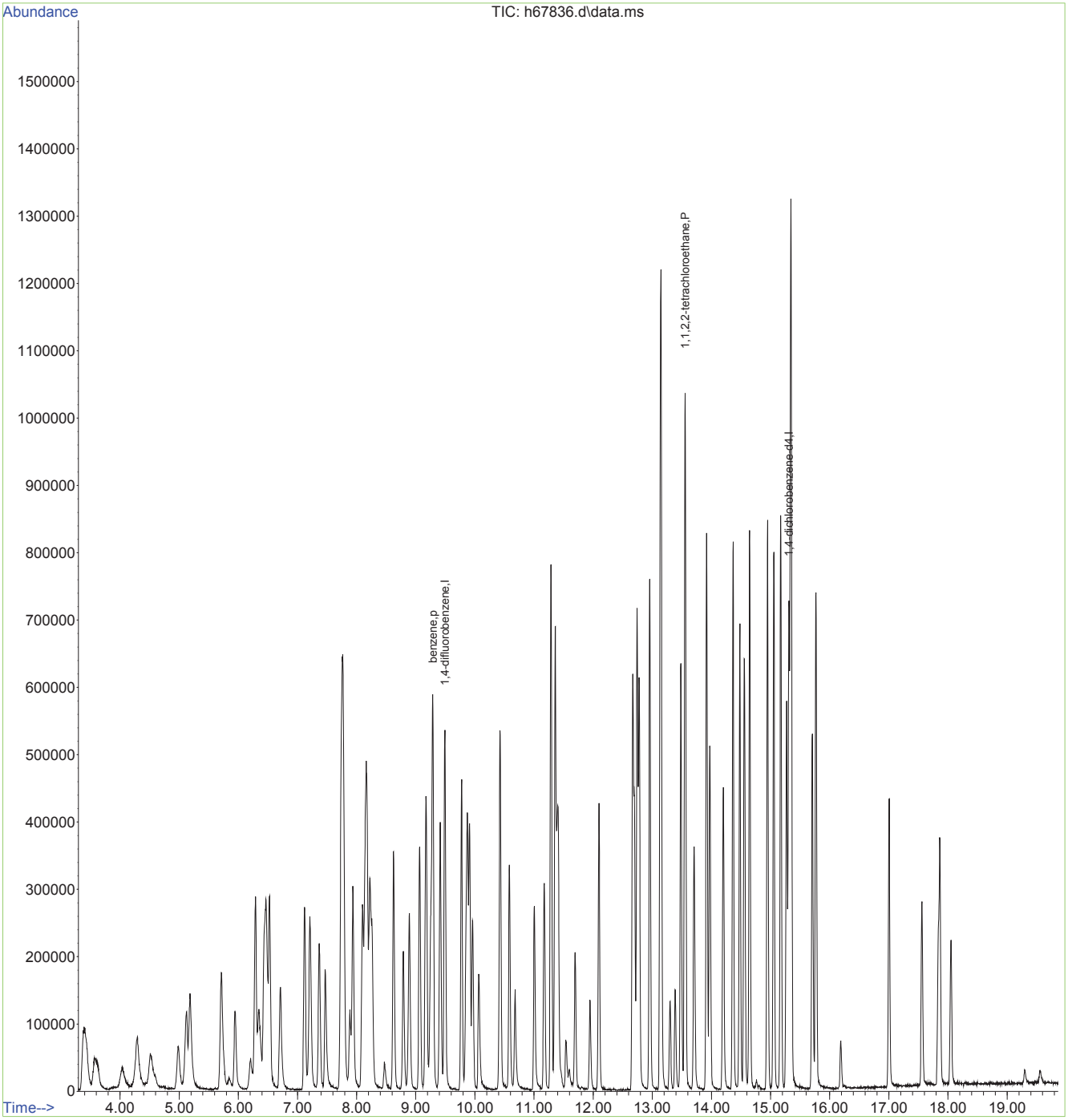
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	427449	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	175483	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.289	78	477706	45.02	ug/L	94
4) 1,1,2,2-tetrachloroethane	13.555	83	143964	52.63	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67836.d
Acq On : 29 Jul 2014 12:28 pm
Operator : amym
Sample : cc2244-50
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 12:09:19 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67837.d
Acq On : 29 Jul 2014 12:56 pm
Operator : amym
Sample : bsd
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 12:15:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

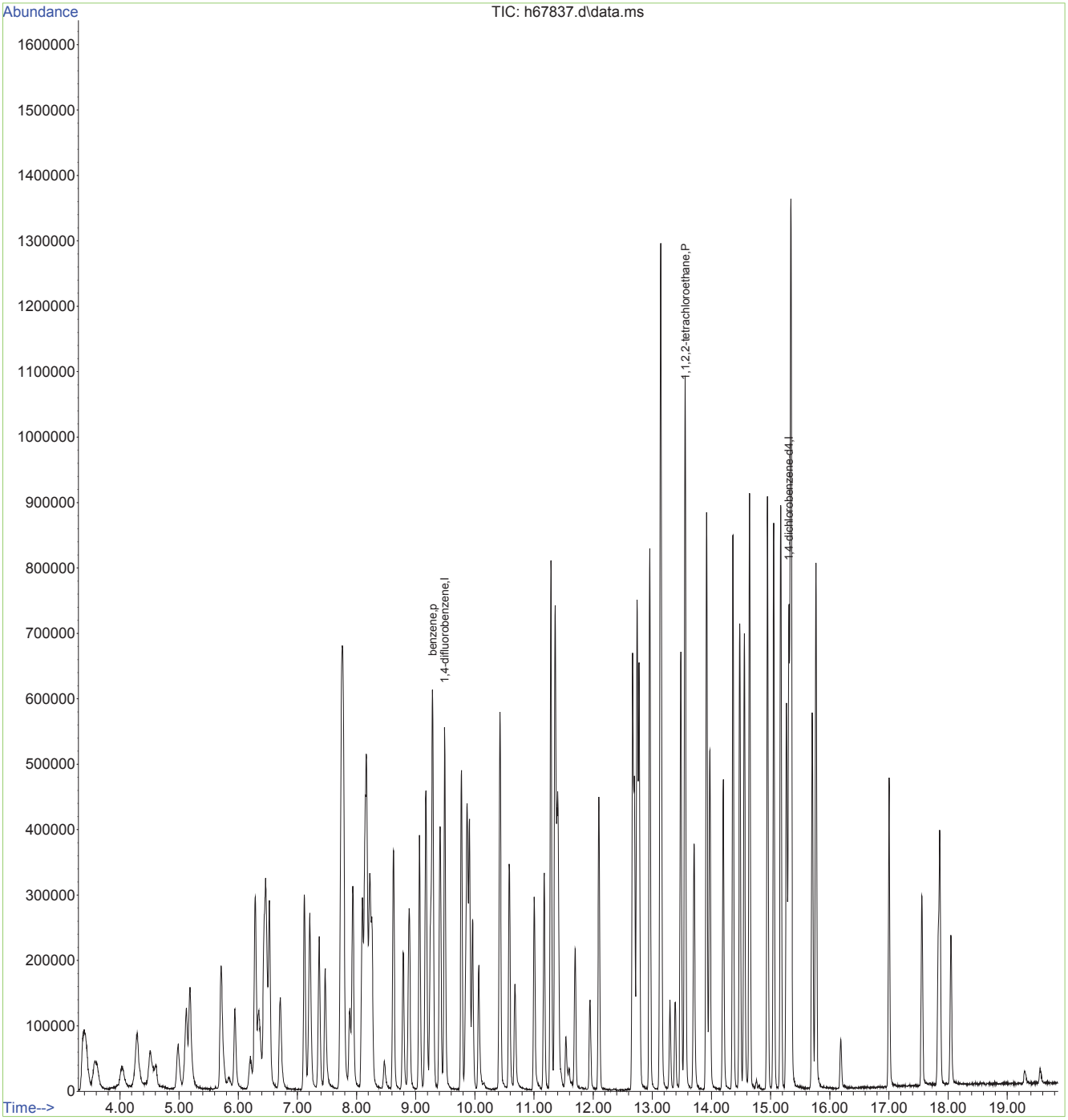
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	433685	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	175172	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	501661	46.60	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.558	83	152711	56.08	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67837.d
Acq On : 29 Jul 2014 12:56 pm
Operator : amym
Sample : bsd
Misc : ms32352,msh2255,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 12:15:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67839.d
Acq On : 29 Jul 2014 2:15 pm
Operator : amym
Sample : mb
Misc : ms32359,msh2255,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 12:15:09 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	438786	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	147014	50.00	ug/L	0.00

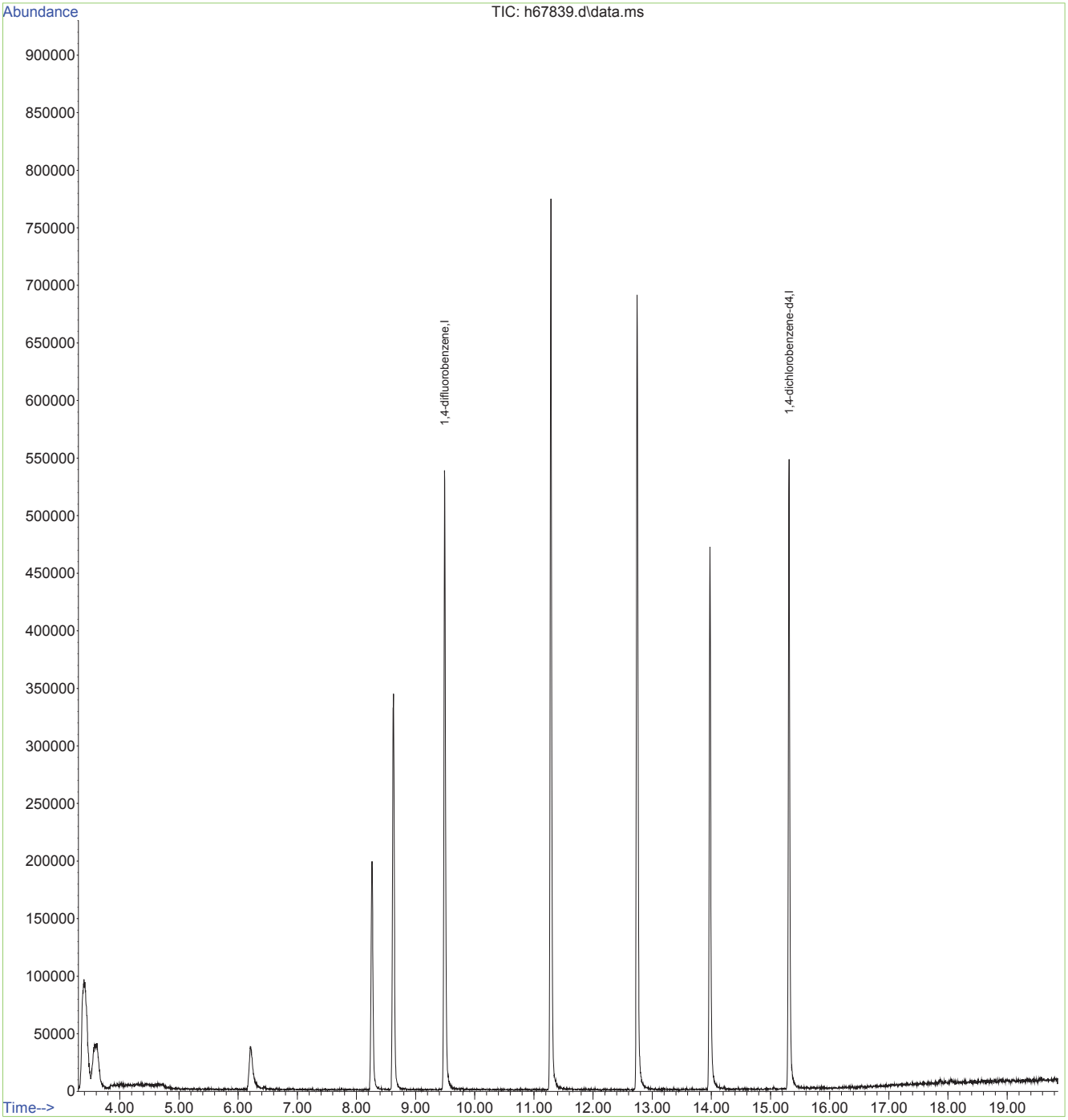
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67839.d
Acq On : 29 Jul 2014 2:15 pm
Operator : amym
Sample : mb
Misc : ms32359,msh2255,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 12:15:09 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67846.d
Acq On : 29 Jul 2014 5:34 pm
Operator : amym
Sample : mc32412-6ms
Misc : ms32386,msh2255,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 12:15:23 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

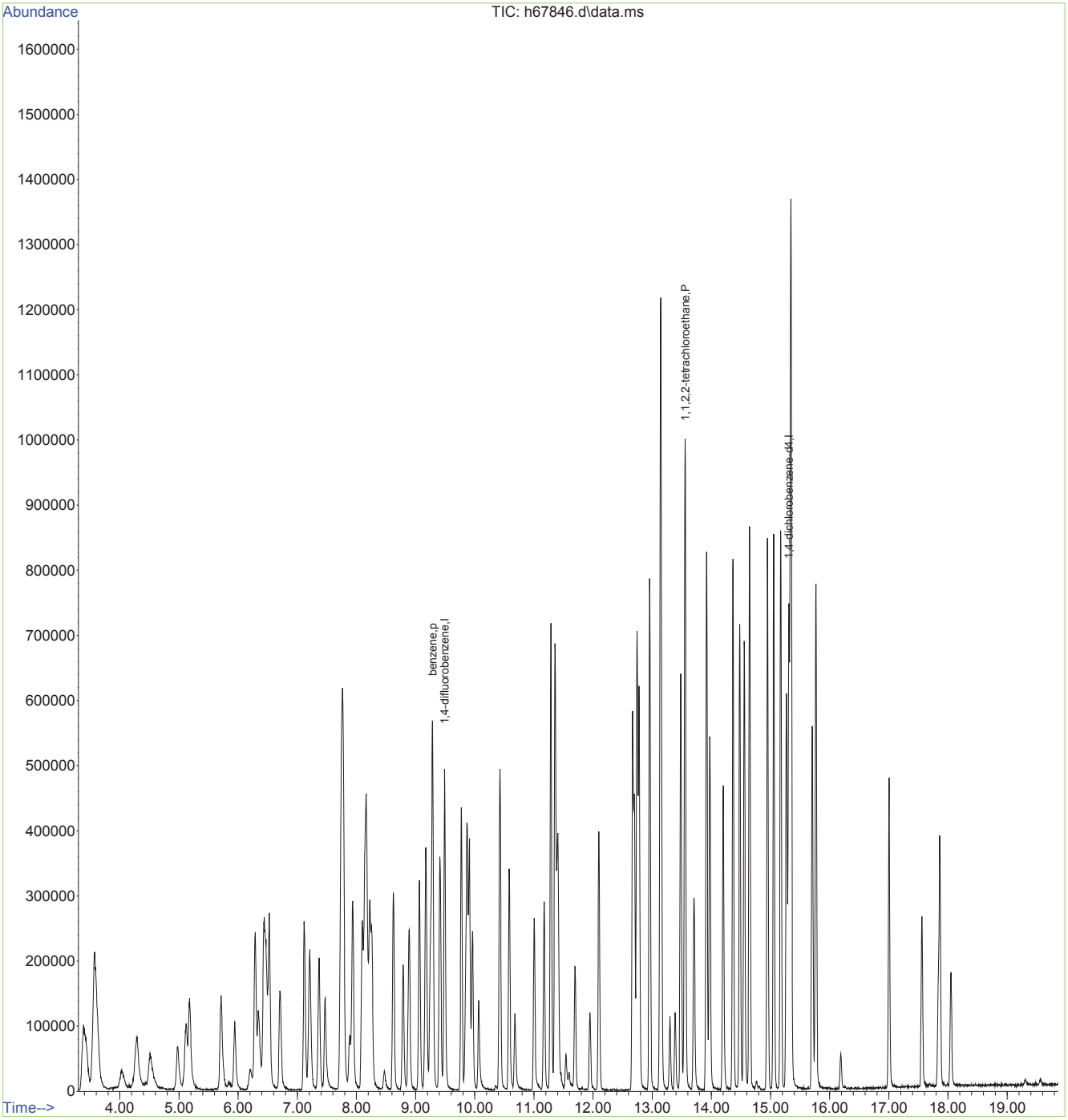
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	386968	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	178962	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	456745	47.55	ug/L	99
4) 1,1,2,2-tetrachloroethane	13.559	83	121846	43.37	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67846.d
Acq On : 29 Jul 2014 5:34 pm
Operator : amym
Sample : mc32412-6ms
Misc : ms32386,msh2255,,,,5,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 12:15:23 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67847.d
Acq On : 29 Jul 2014 6:02 pm
Operator : amym
Sample : mc32412-6msd
Misc : ms32386,msh2255,,,,5,5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:15:25 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

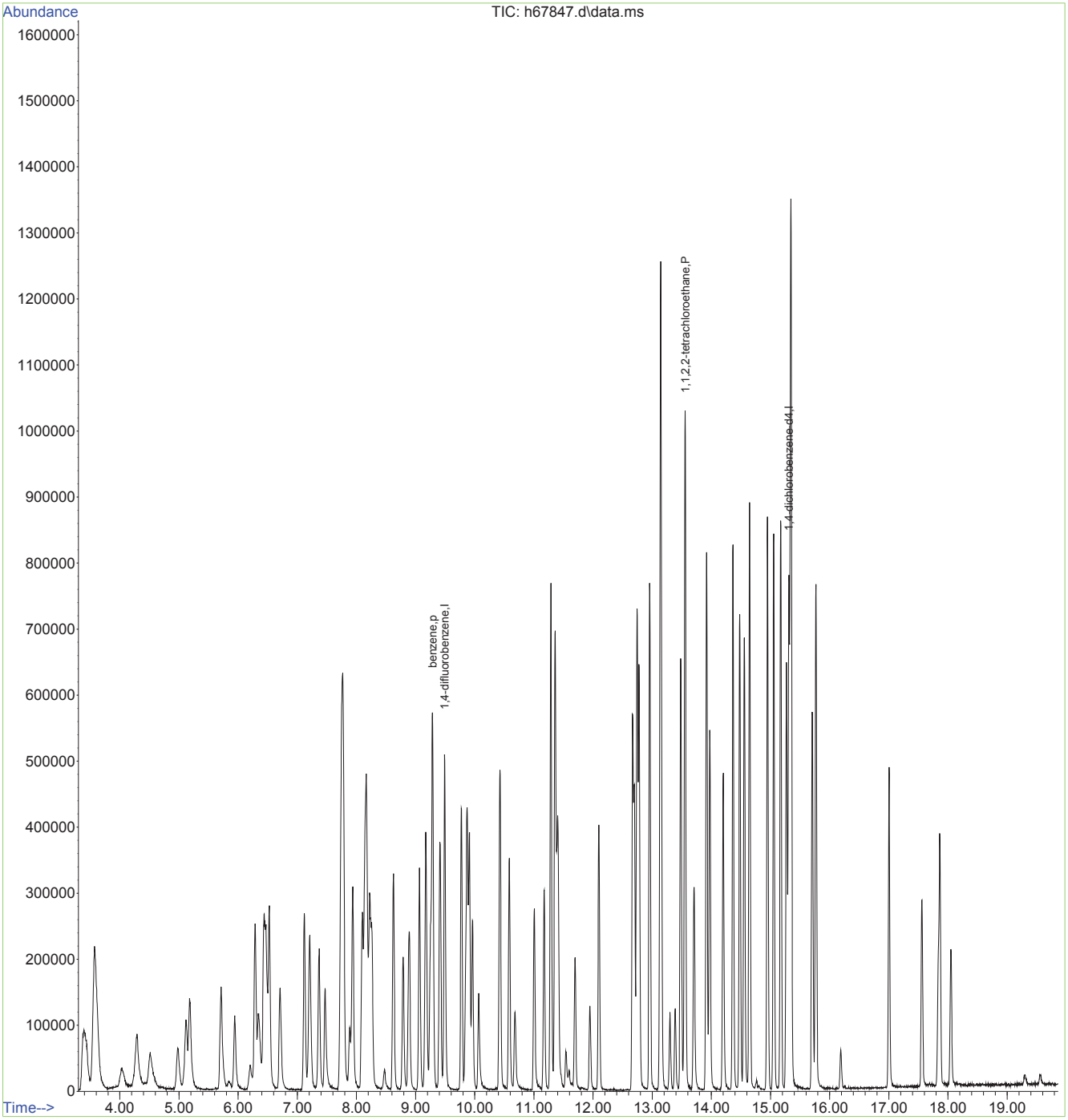
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	404384	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	183608	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	470145	46.83	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.559	83	125613	43.58	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140729\
Data File : h67847.d
Acq On : 29 Jul 2014 6:02 pm
Operator : amym
Sample : mc32412-6msd
Misc : ms32386,msh2255,,,,5,5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:15:25 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32168

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32168-1 Collected: 16-JUL-14 09:50 By: CWLC Received: 17-JUL-14 By: MW4-ROX-071614						
MC32168-1	SW846 8270D	24-JUL-14 12:33	WK	18-JUL-14	MD	AB8270SL+
MC32168-1	SW846 8260C	24-JUL-14 16:35	AMY			V8260SL+
MC32168-1	SW846 8011	24-JUL-14 22:23	NK	22-JUL-14	MEW	V8011SL
MC32168-1	SW846 8260C	28-JUL-14 18:25	AMY			V8260SL+
MC32168-1	SW846 8270D BY SIM	29-JUL-14 09:50	MR	18-JUL-14	MD	B8270SIMSL
MC32168-2 Collected: 16-JUL-14 11:00 By: CWLC Received: 17-JUL-14 By: MW8-ROX-071614						
MC32168-2	SW846 8270D	24-JUL-14 12:56	WK	18-JUL-14	MD	AB8270SL+
MC32168-2	SW846 8260C	24-JUL-14 17:01	AMY			V8260SL+
MC32168-2	SW846 8011	24-JUL-14 22:42	NK	22-JUL-14	MEW	V8011SL
MC32168-2	SW846 8260C	28-JUL-14 19:50	AMY			V8260SL+
MC32168-2	SW846 8270D BY SIM	29-JUL-14 10:13	MR	18-JUL-14	MD	B8270SIMSL
MC32168-2	SW846 8260C	29-JUL-14 18:30	AMY			V8260SL+
MC32168-3 Collected: 16-JUL-14 14:15 By: CWLC Received: 17-JUL-14 By: MW7-ROX-071614						
MC32168-3	SW846 8270D	24-JUL-14 13:19	WK	18-JUL-14	MD	AB8270SL+
MC32168-3	SW846 8260C	24-JUL-14 17:28	AMY			V8260SL+
MC32168-3	SW846 8011	24-JUL-14 23:01	NK	22-JUL-14	MEW	V8011SL
MC32168-3	SW846 8260C	28-JUL-14 18:53	AMY			V8260SL+
MC32168-3	SW846 8270D BY SIM	29-JUL-14 10:35	MR	18-JUL-14	MD	B8270SIMSL
MC32168-4 Collected: 16-JUL-14 14:15 By: CWLC Received: 17-JUL-14 By: MW7-ROX-071614-DUP						
MC32168-4	SW846 8270D	24-JUL-14 13:43	WK	18-JUL-14	MD	AB8270SL+
MC32168-4	SW846 8260C	24-JUL-14 17:54	AMY			V8260SL+
MC32168-4	SW846 8011	24-JUL-14 23:21	NK	22-JUL-14	MEW	V8011SL
MC32168-4	SW846 8260C	28-JUL-14 19:21	AMY			V8260SL+
MC32168-4	SW846 8270D BY SIM	29-JUL-14 10:58	MR	18-JUL-14	MD	B8270SIMSL
MC32168-5 Collected: 16-JUL-14 00:00 By: CWLC Received: 17-JUL-14 By: TB-071614-HCL						

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32168

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32168-5	SW846 8260C	24-JUL-14 13:06	AMY			V8260SL+
MC32168-6 Collected: 16-JUL-14 00:00 By: CWLC Received: 17-JUL-14 By: TB-071614-ST						
MC32168-6	SW846 8011	24-JUL-14 23:40	NK	22-JUL-14	MEW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/17/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32168-1.1	Walk In Ref #22	Michael DiBuono	07/18/14 11:47	Retrieve from Storage
MC32168-1.1	Scott Parsick		09/25/14 16:09	Disposed
MC32168-1.3	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32168-1.3	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32168-1.3	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32168-1.3	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32168-1.3	Scott Parsick		09/25/14 16:09	Disposed
MC32168-1.4	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32168-1.4	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32168-1.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32168-1.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32168-1.4	Scott Parsick		09/25/14 16:09	Disposed
MC32168-1.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32168-1.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32168-2.2	Walk In Ref #22	Michael DiBuono	07/18/14 11:47	Retrieve from Storage
MC32168-2.2	Scott Parsick		09/25/14 16:09	Disposed
MC32168-2.3	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32168-2.3	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32168-2.3	GCMSH	Amy Min Yang	07/30/14 16:42	Unload from Instrument
MC32168-2.3	Amy Min Yang	VOC Ref #4	07/30/14 16:42	Return to Storage
MC32168-2.3	Scott Parsick		09/25/14 16:09	Disposed
MC32168-2.4	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32168-2.4	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32168-2.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32168-2.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32168-2.4	Scott Parsick		09/25/14 16:09	Disposed
MC32168-2.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32168-2.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32168-3.1	Walk In Ref #22	Michael DiBuono	07/18/14 11:47	Retrieve from Storage
MC32168-3.1	Scott Parsick		09/25/14 16:09	Disposed
MC32168-3.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32168-3.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32168-3.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32168-3.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32168-3.3	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/17/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32168-3.4	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32168-3.4	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32168-3.4	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32168-3.4	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32168-3.4	Scott Parsick		09/25/14 16:09	Disposed
MC32168-3.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32168-3.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32168-4.2	Walk In Ref #22	Michael DiBuono	07/18/14 11:47	Retrieve from Storage
MC32168-4.2	Scott Parsick		09/25/14 16:09	Disposed
MC32168-4.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32168-4.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32168-4.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32168-4.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32168-4.3	Scott Parsick		09/25/14 16:09	Disposed
MC32168-4.4	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32168-4.4	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32168-4.4	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32168-4.4	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32168-4.4	Scott Parsick		09/25/14 16:09	Disposed
MC32168-4.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32168-4.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32168-5.1	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32168-5.1	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32168-5.1	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32168-5.1	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32168-5.1	Scott Parsick		09/25/14 16:09	Disposed
MC32168-6.2	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32168-6.2	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	70-130%
2037-26-5	Toluene-D8	87%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-MB	H67784.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.32	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2255-MB	H67839.D	1	07/29/14	AMY	n/a	n/a	MSH2255

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

MC32168-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.32	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.4	87	70-130
107-02-8	Acrolein	250	302	121	70-130
107-13-1	Acrylonitrile	50	66.6	133* [a]	70-130
71-43-2	Benzene	50	54.4	109	70-130
108-86-1	Bromobenzene	50	50.2	100	70-130
74-97-5	Bromochloromethane	50	53.0	106	70-130
75-27-4	Bromodichloromethane	50	54.1	108	70-130
75-25-2	Bromoform	50	49.8	100	70-130
74-83-9	Bromomethane	50	96.7	193* [b]	70-130
78-93-3	2-Butanone (MEK)	50	40.4	81	70-130
104-51-8	n-Butylbenzene	50	54.7	109	70-130
135-98-8	sec-Butylbenzene	50	58.1	116	70-130
98-06-6	tert-Butylbenzene	50	51.8	104	70-130
75-15-0	Carbon disulfide	50	60.0	120	70-130
56-23-5	Carbon tetrachloride	50	61.1	122	70-130
108-90-7	Chlorobenzene	50	50.3	101	70-130
75-00-3	Chloroethane	50	105	210* [b]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	40.9	82	70-130
67-66-3	Chloroform	50	54.5	109	70-130
74-87-3	Chloromethane	50	94.7	189* [b]	70-130
95-49-8	o-Chlorotoluene	50	55.1	110	70-130
106-43-4	p-Chlorotoluene	50	55.4	111	70-130
124-48-1	Dibromochloromethane	50	47.7	95	70-130
95-50-1	1,2-Dichlorobenzene	50	51.2	102	70-130
541-73-1	1,3-Dichlorobenzene	50	51.4	103	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	55.8	112	70-130
75-34-3	1,1-Dichloroethane	50	64.4	129	70-130
107-06-2	1,2-Dichloroethane	50	57.1	114	70-130
75-35-4	1,1-Dichloroethene	50	67.4	135* [a]	70-130
156-59-2	cis-1,2-Dichloroethene	50	55.5	111	70-130
156-60-5	trans-1,2-Dichloroethene	50	65.4	131* [a]	70-130
78-87-5	1,2-Dichloropropane	50	50.6	101	70-130
142-28-9	1,3-Dichloropropane	50	50.2	100	70-130
594-20-7	2,2-Dichloropropane	50	64.4	129	70-130
563-58-6	1,1-Dichloropropene	50	55.5	111	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.9	110	70-130
10061-02-6	trans-1,3-Dichloropropene	50	61.0	122	70-130
123-91-1	1,4-Dioxane	250	273	109	70-130
97-63-2	Ethyl methacrylate	50	43.7	87	77-137
100-41-4	Ethylbenzene	50	52.8	106	70-130
87-68-3	Hexachlorobutadiene	50	44.8	90	70-130
591-78-6	2-Hexanone	50	40.0	80	70-130
98-82-8	Isopropylbenzene	50	57.5	115	70-130
99-87-6	p-Isopropyltoluene	50	55.9	112	70-130
1634-04-4	Methyl Tert Butyl Ether	50	65.9	132* [a]	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.0	116	70-130
74-95-3	Methylene bromide	50	51.2	102	70-130
75-09-2	Methylene chloride	50	65.6	131* [a]	70-130
91-20-3	Naphthalene	50	41.2	82	70-130
103-65-1	n-Propylbenzene	50	57.7	115	70-130
100-42-5	Styrene	50	49.7	99	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	51.8	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	54.1	108	70-130
127-18-4	Tetrachloroethene	50	47.9	96	70-130
108-88-3	Toluene	50	53.0	106	70-130
87-61-6	1,2,3-Trichlorobenzene	50	43.6	87	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.7	89	70-130
71-55-6	1,1,1-Trichloroethane	50	56.5	113	70-130
79-00-5	1,1,2-Trichloroethane	50	51.3	103	70-130
79-01-6	Trichloroethene	50	47.9	96	70-130
75-69-4	Trichlorofluoromethane	50	83.8	168* [b]	70-130
96-18-4	1,2,3-Trichloropropane	50	55.6	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.7	109	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	70-130
108-05-4	Vinyl Acetate	50	66.0	132* [b]	70-130
75-01-4	Vinyl chloride	50	87.0	174* [b]	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	53.4	107	70-130
1330-20-7	Xylene (total)	150	156	104	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-BS	H67782.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.4	103	70-130
135-98-8	sec-Butylbenzene	50	46.0	92	70-130
98-06-6	tert-Butylbenzene	50	45.4	91	70-130
100-41-4	Ethylbenzene	50	45.7	91	70-130
98-82-8	Isopropylbenzene	50	44.5	89	70-130
1634-04-4	Methyl Tert Butyl Ether	50	49.8	100	70-130
91-20-3	Naphthalene	50	37.7	75	70-130
103-65-1	n-Propylbenzene	50	49.2	98	70-130
95-63-6	1,2,4-Trimethylbenzene	50	46.7	93	70-130
108-67-8	1,3,5-Trimethylbenzene	50	46.2	92	70-130
	m,p-Xylene	100	91.0	91	70-130
95-47-6	o-Xylene	50	44.9	90	70-130
1330-20-7	Xylene (total)	150	136	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2255-BS	H67836.D	1	07/29/14	AMY	n/a	n/a	MSH2255
MSH2255-BSD	H67837.D	1	07/29/14	AMY	n/a	n/a	MSH2255

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

MC32168-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	45.0	90	46.6	93	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	104%	70-130%
2037-26-5	Toluene-D8	105%	107%	70-130%
460-00-4	4-Bromofluorobenzene	93%	99%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	298	119	250	304	122	2	70-130/30
107-02-8	Acrolein	ND		1250	1180	94	1250	1160	93	2	70-130/30
107-13-1	Acrylonitrile	ND		250	440	176* a	250	430	172* a	2	70-130/30
71-43-2	Benzene	5.8		250	772	306* a	250	518	205* a	39* b	70-130/30
108-86-1	Bromobenzene	ND		250	271	108	250	262	105	3	70-130/30
74-97-5	Bromochloromethane	ND		250	262	105	250	250	100	5	70-130/30
75-27-4	Bromodichloromethane	ND		250	256	102	250	249	100	3	70-130/30
75-25-2	Bromoform	ND		250	249	100	250	249	100	0	70-130/30
74-83-9	Bromomethane	ND		250	342	137* c	250	341	136* c	0	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	223	89	250	218	87	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	302	121	250	296	118	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	314	126	250	303	121	4	70-130/30
98-06-6	tert-Butylbenzene	ND		250	290	116	250	279	112	4	70-130/30
75-15-0	Carbon disulfide	ND		250	311	124	250	303	121	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	250	284	114	1	70-130/30
108-90-7	Chlorobenzene	ND		250	251	100	250	242	97	4	70-130/30
75-00-3	Chloroethane	ND		250	345	138* c	250	346	138* c	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	18.7	7* a	250	ND	0* a	200* b	70-130/30
67-66-3	Chloroform	ND		250	266	106	250	259	104	3	70-130/30
74-87-3	Chloromethane	ND		250	333	133* c	250	327	131* c	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	298	119	250	291	116	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	295	118	250	286	114	3	70-130/30
124-48-1	Dibromochloromethane	ND		250	234	94	250	231	92	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	262	105	250	256	102	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	263	105	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	264	106	250	256	102	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	211	84	250	216	86	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	326	130	250	316	126	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	247	99	250	239	96	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	350	140* a	250	344	138* a	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	307	123	250	292	117	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	348	139* a	250	334	134* a	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	260	104	250	250	100	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	257	103	250	251	100	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	346	138* a	250	341	136* a	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	298	119	250	292	117	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	290	116	250	283	113	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	307	123	250	306	122	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1300	104	1250	1410	113	8	70-130/30
97-63-2	Ethyl methacrylate	ND		250	230	92	250	226	90	2	72-139/30
100-41-4	Ethylbenzene	8.0		250	285	111	250	277	108	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	234	94	250	234	94	0	70-130/30
591-78-6	2-Hexanone	ND		250	193	77	250	186	74	4	70-130/30
98-82-8	Isopropylbenzene	0.53	J	250	330	132* [a]	250	322	129	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	303	121	250	293	117	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	391	156* [a]	250	383	153* [a]	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	242	97	250	231	92	5	70-130/30
74-95-3	Methylene bromide	ND		250	238	95	250	229	92	4	70-130/30
75-09-2	Methylene chloride	ND		250	335	134* [a]	250	324	130	3	70-130/30
91-20-3	Naphthalene	4.5	J	250	214	84	250	224	88	5	70-130/30
103-65-1	n-Propylbenzene	0.98	J	250	308	123	250	299	119	3	70-130/30
100-42-5	Styrene	ND		250	257	103	250	251	100	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	251	100	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	282	113	250	276	110	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	249	100	250	240	96	4	70-130/30
108-88-3	Toluene	2.4		250	255	101	250	249	99	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	204	82	250	216	86	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	233	93	250	235	94	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	286	114	250	284	114	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	228	91	250	223	89	2	70-130/30
79-01-6	Trichloroethene	ND		250	253	101	250	243	97	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	304	122	250	303	121	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	291	116	250	286	114	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	13.2		250	309	118	250	301	115	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	3.2	J	250	305	121	250	296	117	3	70-130/30
108-05-4	Vinyl Acetate	ND		250	298	119	250	288	115	3	70-130/30
75-01-4	Vinyl chloride	ND		250	348	139* [c]	250	343	137* [c]	1	70-130/30
	m,p-Xylene	37.1		500	577	108	500	561	105	3	70-130/30
95-47-6	o-Xylene	4.1		250	289	114	250	282	111	2	70-130/30
1330-20-7	Xylene (total)	41.2		750	866	110	750	843	107	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-5

CAS No.	Surrogate Recoveries	MS	MSD	MC32120-1	Limits
1868-53-7	Dibromofluoromethane	91%	90%	92%	70-130%
2037-26-5	Toluene-D8	88%	90%	90%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	104%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32345-12MS	H67793.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12MSD	H67794.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	MC32345-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	270	108	250	249	100	8	70-130/30
135-98-8	sec-Butylbenzene	ND		250	252	101	250	229	92	10	70-130/30
98-06-6	tert-Butylbenzene	ND		250	249	100	250	226	90	10	70-130/30
100-41-4	Ethylbenzene	ND		250	245	98	250	225	90	9	70-130/30
98-82-8	Isopropylbenzene	ND		250	253	101	250	229	92	10	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	252	101	250	247	99	2	70-130/30
91-20-3	Naphthalene	ND		250	191	76	250	180	72	6	70-130/30
103-65-1	n-Propylbenzene	ND		250	277	111	250	251	100	10	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	262	105	250	238	95	10	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	255	102	250	232	93	9	70-130/30
	m,p-Xylene	ND		500	484	97	500	447	89	8	70-130/30
95-47-6	o-Xylene	ND		250	232	93	250	219	88	6	70-130/30
1330-20-7	Xylene (total)	ND		750	715	95	750	666	89	7	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32345-12	Limits
1868-53-7	Dibromofluoromethane	107%	114%	108%	70-130%
2037-26-5	Toluene-D8	108%	107%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	107%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32412-6MS	H67846.D	5	07/29/14	AMY	n/a	n/a	MSH2255
MC32412-6MSD	H67847.D	5	07/29/14	AMY	n/a	n/a	MSH2255
MC32412-6	H67842.D	1	07/29/14	AMY	n/a	n/a	MSH2255

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

MC32168-2

CAS No.	Compound	MC32412-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	238	95	250	234	94	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32412-6	Limits
1868-53-7	Dibromofluoromethane	119%	117%	111%	70-130%
2037-26-5	Toluene-D8	107%	108%	104%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	108%	70-130%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSH2253-CC2244	**Injection Date:**	07/28/14
Lab File ID:	H67780.D	**Injection Time:**	09:00
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	294744	8.63	533886	9.49	300348	12.74	228339	15.31	88843	6.20
Upper Limit [a]	589488	9.13	1067772	9.99	600696	13.24	456678	15.81	177686	6.70
Lower Limit [b]	147372	8.13	266943	8.99	150174	12.24	114170	14.81	44422	5.70
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2253-BS	304899	8.62	538287	9.49	306658	12.74	228719	15.31	98152	6.21
MSH2253-MB	268663	8.63	471219	9.49	241486	12.75	150694	15.31	87001	6.21
ZZZZZZ	263063	8.63	456580	9.49	233001	12.74	144603	15.31	71804	6.21
ZZZZZZ	256418	8.63	445302	9.49	228171	12.74	141249	15.31	70439	6.21
MC32345-12	250548	8.63	427504	9.49	216846	12.75	137196	15.31	71833	6.22
ZZZZZZ	247608	8.62	418374	9.49	214691	12.75	137103	15.31	68530	6.20
ZZZZZZ	235052	8.63	405529	9.49	205604	12.74	126043	15.31	63001	6.22
ZZZZZZ	231228	8.63	405038	9.49	206650	12.75	124575	15.31	66024	6.21
ZZZZZZ	226010	8.63	400472	9.49	205241	12.75	126553	15.32	63952	6.20
ZZZZZZ	258797	8.63	445865	9.49	247409	12.74	208672	15.31	78454	6.20
MC32345-12MS	304963	8.63	532448	9.49	300641	12.74	204387	15.31	97583	6.21
MC32345-12MSD	316084	8.63	568755	9.49	318944	12.74	221552	15.31	104569	6.21
ZZZZZZ	305107	8.63	534626	9.49	282536	12.75	184972	15.31	101011	6.21
ZZZZZZ	314570	8.63	553874	9.49	292164	12.75	180959	15.31	98536	6.20
ZZZZZZ	280176	8.63	493711	9.50	253542	12.75	170363	15.31	99390	6.21
ZZZZZZ	268637	8.63	460356	9.49	240619	12.75	174317	15.31	89117	6.20
ZZZZZZ	296253	8.63	521450	9.49	284156	12.74	188651	15.31	90455	6.21
MC32168-1	321131	8.62	564865	9.49	288165	12.75	180247	15.31	91478	6.20
MC32168-3	301271	8.63	546614	9.49	271938	12.74	167134	15.32	87769	6.22
MC32168-4	283169	8.63	513224	9.49	254033	12.75	154113	15.31	83025	6.21
MC32168-2	267237	8.62	493787	9.49	246333	12.75	152710	15.32	77929	6.20
ZZZZZZ	258034	8.63	455220	9.49	227742	12.74	139705	15.31	74985	6.20
ZZZZZZ	249145	8.63	453306	9.49	217177	12.75	138689	15.31	69432	6.21

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSH2255-CC2244	**Injection Date:**	07/29/14
Lab File ID:	H67836.D	**Injection Time:**	12:28
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	245554	8.62	427449	9.49	226188	12.74	175483	15.31	72770	6.21
Upper Limit [a]	491108	9.12	854898	9.99	452376	13.24	350966	15.81	145540	6.71
Lower Limit [b]	122777	8.12	213725	8.99	113094	12.24	87742	14.81	36385	5.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2255-BS	245554	8.62	427449	9.49	226188	12.74	175483	15.31	72770	6.21
MSH2255-BSD	255179	8.63	433685	9.49	239263	12.74	175172	15.31	81429	6.21
MSH2255-MB	245023	8.63	438786	9.49	228605	12.74	147014	15.31	73385	6.22
ZZZZZZ	238117	8.63	417613	9.49	216043	12.74	138300	15.31	64420	6.21
ZZZZZZ	221446	8.63	398252	9.49	210168	12.75	128707	15.31	61001	6.21
MC32412-6	211628	8.62	375776	9.49	198843	12.75	125805	15.31	59092	6.21
ZZZZZZ	213695	8.63	375239	9.49	193044	12.74	125214	15.31	53554	6.20
ZZZZZZ	213133	8.63	396493	9.49	199595	12.74	136097	15.31	56246	6.20
ZZZZZZ	213513	8.63	379515	9.49	195859	12.75	122158	15.31	52518	6.22
MC32412-6MS	213527	8.63	386968	9.49	222105	12.74	178962	15.31	52568	6.21
MC32412-6MSD	221890	8.63	404384	9.49	228569	12.74	183608	15.31	58197	6.20
MC32168-2	225087	8.63	418251	9.49	206226	12.74	134195	15.31	57665	6.20
ZZZZZZ	216987	8.63	378411	9.49	195426	12.74	123650	15.31	53940	6.21
ZZZZZZ	203043	8.63	362591	9.49	192278	12.74	119352	15.31	56403	6.20
ZZZZZZ	194651	8.63	348562	9.49	180219	12.74	108856	15.31	41776	6.21
ZZZZZZ	191975	8.63	338035	9.49	177236	12.75	106595	15.31	42088	6.21
ZZZZZZ	186181	8.62	326143	9.49	173281	12.74	100936	15.31	42209	6.21
ZZZZZZ	184099	8.62	333553	9.49	177744	12.75	107680	15.31	43538	6.20
ZZZZZZ	182623	8.63	316286	9.49	176543	12.74	105842	15.31	48203	6.21
ZZZZZZ	178261	8.63	311195	9.49	165403	12.74	97351	15.31	33456[c]	6.21
ZZZZZZ	174805	8.63	311354	9.49	158333	12.74	90568	15.31	26799[c]	6.21

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.

Volatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1225-CC1177	**Injection Date:**	07/24/14
Lab File ID:	V33182.D	**Injection Time:**	10:17
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
Upper Limit [a]	808062	7.07	1028070	8.25	395074	11.59	510726	13.80	173602	4.01
Lower Limit [b]	202016	6.07	257018	7.25	98769	10.59	127682	12.80	43401	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1225-BS	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
MSV1225-MB	423518	6.57	566497	7.75	207436	11.09	205531	13.30	98754	3.51
ZZZZZZ	314218	6.57	438886	7.75	188813	11.09	192114	13.30	77336	3.52
ZZZZZZ	290479	6.57	404629	7.75	165759	11.09	174831	13.30	70296	3.51
MC32168-5	288880	6.57	411369	7.75	166077	11.09	174974	13.30	70249	3.52
ZZZZZZ	276747	6.57	389072	7.75	163374	11.09	175404	13.30	71119	3.52
MC32120-1	607385	6.57	785192	7.75	234551	11.09	264980	13.30	222818[c]	3.52
ZZZZZZ	486512	6.57	549775	7.75	250156	11.09	237478	13.30	144045	3.53
ZZZZZZ	1143587[d]	6.57	1377476[d]	7.75	498634[d]	11.09	799272[d]	13.30	468647[d]	3.54
ZZZZZZ	1136706[d]	6.58	2013116[d]	7.76	850560[d]	11.09	1163371[d]	13.30	414495[d]	3.54
MC32168-1	785543	6.57	1497250[d]	7.75	414808[d]	11.09	403343	13.30	234913[d]	3.53
MC32168-2	790139	6.65	2282079[d]	7.78	446668[d]	11.09	664914[d]	13.30	161146	3.54
MC32168-3	747101	6.81	2775199[d]	7.87	605272[d]	11.10	665352[d]	13.30	279915[d]	3.55
MC32168-4	699213	6.83	2878266[d]	7.87	658120[d]	11.10	714187[d]	13.30	263249[d]	3.55
ZZZZZZ	620812	6.57	964822	7.75	360517	11.09	339994	13.30	168558	3.51
ZZZZZZ	617075	6.57	1365612[d]	7.75	342437	11.09	326577	13.30	161394	3.52
ZZZZZZ	832590[d]	6.61	2311394[d]	7.77	436447[d]	11.09	367710	13.30	226087[d]	3.53
MC32120-1MS	755293	6.57	1031451[e]	7.75	345043	11.09	415260	13.30	199822[e]	3.51
MC32120-1MSD	725008	6.57	972624	7.75	331686	11.09	399515	13.30	192608[e]	3.51
ZZZZZZ	529363	6.56	745611	7.75	261178	11.08	274494	13.30	144217	3.51
ZZZZZZ	503161	6.57	712256	7.75	249186	11.08	266369	13.30	138063	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.
(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(e) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Volatile Surrogate Recovery Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32168-1	V33196.D	83	71	108
MC32168-1	H67798.D	101	105	109
MC32168-2	H67848.D	110	101	104
MC32168-2	H67801.D	105	101	107
MC32168-2	V33197.D	81	65* [a]	108
MC32168-3	H67799.D	103	103	109
MC32168-3	V33198.D	111	72	115
MC32168-4	H67800.D	103	102	111
MC32168-4	V33199.D	107	72	118
MC32168-5	V33188.D	123	95	105
MC32120-1MS	V33203.D	91	88	101
MC32120-1MSD	V33204.D	90	90	100
MC32345-12MS	H67793.D	107	108	102
MC32345-12MSD	H67794.D	114	107	101
MC32412-6MS	H67846.D	119	107	93
MC32412-6MSD	H67847.D	117	108	93
MSH2253-BS	H67782.D	113	108	97
MSH2253-MB	H67784.D	106	107	109
MSH2255-BS	H67836.D	104	105	93
MSH2255-BSD	H67837.D	104	107	99
MSH2255-MB	H67839.D	111	105	108
MSV1225-BS	V33182.D	100	101	99
MSV1225-MB	V33185.D	114	87	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-MB	F74824.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.23	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-MB	F74824.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	27%	15-110%
118-79-6	2,4,6-Tribromophenol	86%	15-110%
4165-60-0	Nitrobenzene-d5	74%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	90%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39012-MB	R39446.D	1	07/23/14	WK	07/18/14	OP39012	MSR1453

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.020	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	29%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	15-110%
4165-60-0	Nitrobenzene-d5	78%	30-130%
321-60-8	2-Fluorobiphenyl	69%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-BS	F74825.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	27.3	55	30-130
95-57-8	2-Chlorophenol	50	34.5	69	30-130
59-50-7	4-Chloro-3-methyl phenol	50	38.1	76	30-130
120-83-2	2,4-Dichlorophenol	50	40.3	81	30-130
105-67-9	2,4-Dimethylphenol	50	32.1	64	30-130
51-28-5	2,4-Dinitrophenol	50	40.1	80	30-130
534-52-1	4,6-Dinitro-o-cresol	50	42.7	85	30-130
95-48-7	2-Methylphenol	50	29.7	59	30-130
	3&4-Methylphenol	100	56.4	56	30-130
88-75-5	2-Nitrophenol	50	37.6	75	30-130
100-02-7	4-Nitrophenol	50	60.1	120	30-130
87-86-5	Pentachlorophenol	50	45.1	90	30-130
108-95-2	Phenol	50	17.1	34	30-130
95-95-4	2,4,5-Trichlorophenol	50	41.7	83	30-130
88-06-2	2,4,6-Trichlorophenol	50	43.1	86	30-130
62-53-3	Aniline	50	27.3	55	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.3	91	40-140
85-68-7	Butyl benzyl phthalate	50	42.5	85	40-140
100-51-6	Benzyl Alcohol	50	29.9	60	40-140
91-58-7	2-Chloronaphthalene	50	40.9	82	40-140
106-47-8	4-Chloroaniline	50	35.6	71	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	30.5	61	40-140
111-44-4	bis(2-Chloroethyl)ether	50	38.2	76	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	42.9	86	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	41.7	83	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.3	83	40-140
121-14-2	2,4-Dinitrotoluene	50	43.0	86	40-140
606-20-2	2,6-Dinitrotoluene	50	37.6	75	40-140
91-94-1	3,3'-Dichlorobenzidine	50	47.8	96	40-140
132-64-9	Dibenzofuran	50	38.9	78	40-140
84-74-2	Di-n-butyl phthalate	50	42.7	85	40-140
117-84-0	Di-n-octyl phthalate	50	46.6	93	40-140
84-66-2	Diethyl phthalate	50	43.6	87	40-140
131-11-3	Dimethyl phthalate	50	43.4	87	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.3	85	40-140
118-74-1	Hexachlorobenzene	50	45.8	92	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-BS	F74825.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	14.4	29* [a]	40-140
67-72-1	Hexachloroethane	50	25.8	52	40-140
78-59-1	Isophorone	50	35.5	71	40-140
88-74-4	2-Nitroaniline	50	41.8	84	40-140
99-09-2	3-Nitroaniline	50	40.7	81	40-140
100-01-6	4-Nitroaniline	50	41.0	82	40-140
98-95-3	Nitrobenzene	50	37.2	74	40-140
62-75-9	n-Nitrosodimethylamine	50	23.5	47	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.0	82	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.5	77	40-140
110-86-1	Pyridine	50	20.2	40	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	46%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	97%	15-110%
4165-60-0	Nitrobenzene-d5	73%	30-130%
321-60-8	2-Fluorobiphenyl	72%	30-130%
1718-51-0	Terphenyl-d14	84%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39012-BS	R39447.D	1	07/23/14	WK	07/18/14	OP39012	MSR1453

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	38.0	76	40-140
208-96-8	Acenaphthylene	50	33.8	68	40-140
120-12-7	Anthracene	50	40.4	81	40-140
56-55-3	Benzo(a)anthracene	50	45.4	91	40-140
50-32-8	Benzo(a)pyrene	50	45.6	91	40-140
205-99-2	Benzo(b)fluoranthene	50	46.5	93	40-140
191-24-2	Benzo(g,h,i)perylene	50	50.4	101	40-140
207-08-9	Benzo(k)fluoranthene	50	49.7	99	40-140
218-01-9	Chrysene	50	41.4	83	40-140
53-70-3	Dibenzo(a,h)anthracene	50	51.3	103	40-140
206-44-0	Fluoranthene	50	39.8	80	40-140
86-73-7	Fluorene	50	43.3	87	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	51.7	103	40-140
90-12-0	1-Methylnaphthalene	50	34.9	70	40-140
91-57-6	2-Methylnaphthalene	50	34.4	69	40-140
85-01-8	Phenanthrene	50	40.0	80	40-140
129-00-0	Pyrene	50	38.9	78	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	45%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	89%	15-110%
4165-60-0	Nitrobenzene-d5	80%	30-130%
321-60-8	2-Fluorobiphenyl	69%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-MS	F74826.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
OP39011-MSD	F74827.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
MC32000-22	F74828.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: Method: SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	MC32000-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	31.8	64	50	31.2	62	2	30-130/20
95-57-8	2-Chlorophenol	ND		50	35.9	72	50	37.2	74	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	38.6	77	50	39.2	78	2	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	43.5	87	50	43.9	88	1	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	32.6	65	50	32.9	66	1	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	41.5	83	50	40.7	81	2	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	44.1	88	50	45.0	90	2	30-130/20
95-48-7	2-Methylphenol	ND		50	31.6	63	50	32.7	65	3	30-130/20
	3&4-Methylphenol	ND		100	58.1	58	100	59.9	60	3	30-130/20
88-75-5	2-Nitrophenol	ND		50	41.9	84	50	41.1	82	2	30-130/20
100-02-7	4-Nitrophenol	ND		50	13.8	28* [a]	50	18.2	36	28* [b]	30-130/20
87-86-5	Pentachlorophenol	ND		50	46.6	93	50	45.9	92	2	30-130/20
108-95-2	Phenol	ND		50	17.9	36	50	18.0	36	1	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	41.5	83	50	42.1	84	1	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	42.9	86	50	43.5	87	1	30-130/20
62-53-3	Aniline	ND		50	29.0	58	50	29.0	58	0	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	46.2	92	50	46.6	93	1	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	43.8	88	50	42.4	85	3	40-140/20
100-51-6	Benzyl Alcohol	ND		50	32.1	64	50	33.0	66	3	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	45.6	91	50	44.8	90	2	40-140/20
106-47-8	4-Chloroaniline	ND		50	37.6	75	50	38.2	76	2	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	34.1	68	50	33.1	66	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	42.3	85	50	40.7	81	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.8	94	50	45.6	91	3	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	44.4	89	50	44.1	88	1	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	42.6	85	50	42.2	84	1	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	45.6	91	50	44.8	90	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	39.5	79	50	39.0	78	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	49.1	98	50	49.6	99	1	40-140/20
132-64-9	Dibenzofuran	ND		50	41.2	82	50	40.7	81	1	40-140/20
84-74-2	Di-n-butyl phthalate	0.23	JB	50	44.0	88	50	43.7	87	1	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	47.6	95	50	46.8	94	2	40-140/20
84-66-2	Diethyl phthalate	ND		50	45.4	91	50	44.4	89	2	40-140/20
131-11-3	Dimethyl phthalate	ND		50	45.0	90	50	44.2	88	2	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	43.6	87	50	43.3	87	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	46.8	94	50	47.4	95	1	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39011-MS	F74826.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
OP39011-MSD	F74827.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296
MC32000-22	F74828.D	1	07/24/14	WK	07/18/14	OP39011	MSF3296

The QC reported here applies to the following samples: Method: SW846 8270D

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	MC32000-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	17.2	34* c	50	17.2	34* c	0	40-140/20
67-72-1	Hexachloroethane	ND		50	30.0	60	50	30.6	61	2	40-140/20
78-59-1	Isophorone	ND		50	39.4	79	50	37.8	76	4	40-140/20
88-74-4	2-Nitroaniline	ND		50	43.2	86	50	42.2	84	2	40-140/20
99-09-2	3-Nitroaniline	ND		50	41.9	84	50	41.7	83	0	40-140/20
100-01-6	4-Nitroaniline	ND		50	42.1	84	50	42.0	84	0	40-140/20
98-95-3	Nitrobenzene	ND		50	41.8	84	50	40.9	82	2	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	24.4	49	50	25.2	50	3	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	45.9	92	50	43.8	88	5	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	40.0	80	50	39.2	78	2	40-140/20
110-86-1	Pyridine	ND		50	21.8	44	50	21.8	44	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-22	Limits
367-12-4	2-Fluorophenol	44%	47%	47%	15-110%
4165-62-2	Phenol-d5	31%	32%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	97%	87%	15-110%
4165-60-0	Nitrobenzene-d5	81%	79%	78%	30-130%
321-60-8	2-Fluorobiphenyl	72%	74%	76%	30-130%
1718-51-0	Terphenyl-d14	82%	83%	90%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample heterogeneity.
(c) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39012-MS	R39451.D	1	07/23/14	WK	07/18/14	OP39012	MSR1453
OP39012-MSD	R39453.D	1	07/23/14	WK	07/18/14	OP39012	MSR1453
MC32000-23	R39448.D	1	07/23/14	WK	07/18/14	OP39012	MSR1453

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC32168-1, MC32168-2, MC32168-3, MC32168-4

CAS No.	Compound	MC32000-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	40.6	81	50	40.5	81	0	40-140/20
208-96-8	Acenaphthylene	ND		50	36.2	72	50	36.0	72	1	40-140/20
120-12-7	Anthracene	ND		50	41.7	83	50	41.5	83	0	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	47.6	95	50	46.4	93	2	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	48.3	97	50	46.5	93	3	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	50.0	100	50	49.4	99	0	40-140/20
191-24-2	Benzo(g,h,i)perylene	0.041	J	50	46.2	92	50	50.6	101	3	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	51.9	104	50	50.0	100	3	40-140/20
218-01-9	Chrysene	ND		50	42.8	86	50	41.9	84	2	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	48.5	97	50	51.7	103	2	40-140/20
206-44-0	Fluoranthene	ND		50	48.1	96	50	43.0	86	0	40-140/20
86-73-7	Fluorene	ND		50	43.4	87	50	44.3	89	1	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	0.039	J	50	48.3	97	50	51.8	104	3	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	37.8	76	50	39.2	78	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	37.9	76	50	39.0	78	0	40-140/20
85-01-8	Phenanthrene	0.019	J	50	41.4	83	50	41.2	82	1	40-140/20
129-00-0	Pyrene	ND		50	45.8	92	50	41.8	84	0	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32000-23	Limits
367-12-4	2-Fluorophenol	45%	49%	47%	15-110%
4165-62-2	Phenol-d5	31%	34%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	93%	92%	85%	15-110%
4165-60-0	Nitrobenzene-d5	83%	84%	82%	30-130%
321-60-8	2-Fluorobiphenyl	74%	73%	73%	30-130%
1718-51-0	Terphenyl-d14	91%	84%	83%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3296-CC3270	**Injection Date:**	07/24/14
Lab File ID:	F74823.D	**Injection Time:**	09:28
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	192332	3.32	664761	4.35	471843	5.84	875257	7.09	1166378	9.43	1038397	10.93
Upper Limit [a]	384664	3.82	1329522	4.85	943686	6.34	1750514	7.59	2332756	9.93	2076794	11.43
Lower Limit [b]	96166	2.82	332381	3.85	235922	5.34	437629	6.59	583189	8.93	519199	10.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39011-MB	257976	3.32	879787	4.35	609392	5.84	1171720	7.09	1387028	9.42	1361815	10.92
OP39011-BS	229599	3.32	801637	4.35	567412	5.84	1042635	7.10	1365711	9.43	1208123	10.93
OP39011-MS	229987	3.32	795151	4.35	573201	5.84	1076512	7.09	1421427	9.43	1274880	10.93
OP39011-MSD	228501	3.32	781459	4.35	563122	5.84	1034458	7.10	1363092	9.43	1221743	10.92
MC32000-22	232225	3.32	796530	4.35	544129	5.84	1046120	7.09	1241227	9.42	1182018	10.92
ZZZZZZ	217027	3.32	748675	4.35	518349	5.84	994158	7.09	1223203	9.42	1125268	10.92
ZZZZZZ	203567	3.32	703448	4.35	488422	5.84	943115	7.09	1130041	9.42	1096889	10.92
MC32168-1	218244	3.32	751218	4.35	517442	5.84	996678	7.09	1178337	9.42	1115355	10.92
MC32168-2	227345	3.32	780842	4.35	546580	5.84	1053973	7.09	1258043	9.42	1234799	10.92
MC32168-3	249135	3.32	837064	4.35	575843	5.84	1082303	7.09	1265700	9.42	1215502	10.92
MC32168-4	264439	3.32	875120	4.35	604235	5.84	1132316	7.09	1355051	9.42	1324698	10.92
ZZZZZZ	270633	3.32	932411	4.35	649990	5.84	1236820	7.09	1488886	9.42	1465677	10.92
ZZZZZZ	237465	3.32	810187	4.35	560795	5.84	1083071	7.09	1297074	9.42	1264297	10.92
ZZZZZZ	201820	3.32	726114	4.35	480411	5.84	915026	7.09	1105541	9.42	1097535	10.92

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3384-CC3320	**Injection Date:**	07/29/14
Lab File ID:	I90918.D	**Injection Time:**	09:26
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	338626	4.33	711175	5.39	362839	6.93	616061	8.35	401772	11.11	1123777	12.63
Upper Limit [a]	677252	4.83	1422350	5.89	725678	7.43	1232122	8.85	803544	11.61	2247554	13.13
Lower Limit [b]	169313	3.83	355588	4.89	181420	6.43	308031	7.85	200886	10.61	561889	12.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC32168-1	467665	4.33	982095	5.39	507117	6.93	862764	8.35	576059	11.12	1469953	12.63
MC32168-2	437736	4.33	905743	5.39	466051	6.93	774560	8.35	527238	11.12	1463682	12.63
MC32168-3	447690	4.33	930325	5.39	475613	6.93	794702	8.35	522581	11.12	1443448	12.63
MC32168-4	461562	4.33	959779	5.38	497975	6.93	838997	8.35	553492	11.12	1516433	12.63
ZZZZZZ	365604	4.33	752790	5.39	391021	6.93	659794	8.35	453017	11.11	1232978	12.62
ZZZZZZ	362428	4.33	753587	5.38	387633	6.93	653721	8.35	433841	11.11	1191842	12.62

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSR1453-CC1401	**Injection Date:**	07/23/14
Lab File ID:	R39444.D	**Injection Time:**	08:11
Instrument ID:	GCMSR	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	113424	5.16	414642	6.26	283190	7.80	570666	9.08	728209	11.62	1306561	13.30
Upper Limit [a]	226848	5.66	829284	6.76	566380	8.30	1141332	9.58	1456418	12.12	2613122	13.80
Lower Limit [b]	56712	4.66	207321	5.76	141595	7.30	285333	8.58	364105	11.12	653281	12.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39012-MB	187877	5.16	677412	6.26	448573	7.80	871401	9.08	1058769	11.62	1843678	13.30
OP39012-BS	171628	5.16	631522	6.26	429960	7.80	858936	9.08	1047339	11.62	1792945	13.30
MC32000-23	228751[c]	5.16	814952	6.26	526889	7.80	991935	9.08	1129233	11.62	1914582	13.30
ZZZZZZ	315433[d]	5.16	1102035[d]	6.26	700245[d]	7.80	1264603[d]	9.08	1347676	11.62	2225964	13.30
OP39012-MS	399098[c]	5.16	1363511[c]	6.26	838604[c]	7.80	1470320[c]	9.08	1406136	11.62	2013320	13.30
OP39012-MSD	259705[c]	5.16	951200[c]	6.26	632491[c]	7.80	1206925[c]	9.08	1348971	11.62	2169583	13.30
OP39040-MB	214760	5.16	760525	6.26	494195	7.80	953470	9.08	1106995	11.62	1837434	13.30
OP39040-BS	165156	5.16	616371	6.26	429415	7.80	872813	9.08	1077746	11.62	1777161	13.30
ZZZZZZ	215343	5.16	776677	6.26	508095	7.80	962634	9.08	1117316	11.62	1887541	13.30

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference.
(d) Outside control limits.Sample results confirmed by reanalysis.

Semivolatile Surrogate Recovery Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32168-1	F74831.D	46	30	82	80	79	89
MC32168-2	F74832.D	45	29	89	75	74	81
MC32168-3	F74833.D	43	27	94	72	77	87
MC32168-4	F74834.D	44	28	95	73	79	85
OP39011-BS	F74825.D	46	30	97	73	72	84
OP39011-MB	F74824.D	43	27	86	74	73	90
OP39011-MS	F74826.D	44	31	91	81	72	82
OP39011-MSD	F74827.D	47	32	97	79	74	83

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32168-1	I90919.D	86	71	72
MC32168-2	I90920.D	80	68	67
MC32168-3	I90921.D	84	71	71
MC32168-4	I90922.D	85	67	70
OP39012-BS	R39447.D	80	69	80
OP39012-MB	R39446.D	78	69	80
OP39012-MS	R39451.D	83	74	91
OP39012-MSD	R39453.D	84	73	84

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MB	BK39758.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	111%	36-173%
460-00-4	Bromofluorobenzene (S)	109%	36-173%

Blank Spike Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-BS	BK39759.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.11	78	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	127%	36-173%
460-00-4	Bromofluorobenzene (S)	118%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MS	BK39760.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
OP39069-MSD	BK39761.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
MC32236-13	BK39762.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32168-1, MC32168-2, MC32168-3, MC32168-4, MC32168-6

CAS No.	Compound	MC32236-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.142	0.10	71	0.142	0.10	71	0	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.142	0.11	78	0.142	0.11	78	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-13	Limits
460-00-4	Bromofluorobenzene (S)	130%	117%	121%	36-173%
460-00-4	Bromofluorobenzene (S)	120%	111%	116%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32168-1	BK39769.D	108	111
MC32168-2	BK39770.D	100	117
MC32168-3	BK39771.D	115	118
MC32168-4	BK39772.D	78	84
MC32168-6	BK39773.D	112	107
OP39069-BS	BK39759.D	127	118
OP39069-MB	BK39758.D	111	109
OP39069-MS	BK39760.D	130	120
OP39069-MSD	BK39761.D	117	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-ICC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39754.D	**Injection Time:**	17:33
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP39069-MB	BK39758.D	07/24/14	18:50	4.39	4.41
OP39069-BS	BK39759.D	07/24/14	19:10	4.39	4.41
OP39069-MS	BK39760.D	07/24/14	19:29	4.39	4.41
OP39069-MSD	BK39761.D	07/24/14	19:48	4.39	4.41
MC32236-13	BK39762.D	07/24/14	20:07	4.39	4.41
ZZZZZZ	BK39763.D	07/24/14	20:26	4.39	4.41
ZZZZZZ	BK39764.D	07/24/14	20:46	4.39	4.41
ZZZZZZ	BK39765.D	07/24/14	21:05	4.39	4.41
ZZZZZZ	BK39766.D	07/24/14	21:25	4.39	4.41
ZZZZZZ	BK39767.D	07/24/14	21:44	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32168
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-CC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39768.D	**Injection Time:**	22:03
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC32168-1	BK39769.D	07/24/14	22:23	4.39	4.41
MC32168-2	BK39770.D	07/24/14	22:42	4.39	4.41
MC32168-3	BK39771.D	07/24/14	23:01	4.39	4.41
MC32168-4	BK39772.D	07/24/14	23:21	4.39	4.41
MC32168-6	BK39773.D	07/24/14	23:40	4.39	4.41
ZZZZZZ	BK39774.D	07/24/14	23:59	4.39	4.41
ZZZZZZ	BK39775.D	07/25/14	00:19	4.39	4.41
ZZZZZZ	BK39776.D	07/25/14	00:38	4.39	4.41
ZZZZZZ	BK39777.D	07/25/14	00:57	4.39	4.41
ZZZZZZ	BK39778.D	07/25/14	01:17	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC32216

Sampling Date: 07/17/14



Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 123

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.

SGS ACCUTEST

October 8, 2016

Elizabeth Kunkel
AECOM, INC.
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110
Elizabeth.Kunkel@URS.com; bob.billman@urs.com;
Melissa.Mansker@urs.com

RE: SGS Accutest Job # MC32216

Dear Elizabeth Kunkel,

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC32216

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC32216-1	07/17/14	11:55	DHCW	07/18/14	AQ	Ground Water	P93D-ROX-071714
MC32216-2	07/17/14	14:35	DHCW	07/18/14	AQ	Ground Water	P93C-ROX-071714
MC32216-3	07/17/14	15:50	DHCW	07/18/14	AQ	Ground Water	P93B-ROX-071714
MC32216-4	07/17/14	00:00	DHCW	07/18/14	AQ	Trip Blank Water	TB-071714-HCL
MC32216-5	07/17/14	00:00	DHCW	07/18/14	AQ	Trip Blank Water	TB-071714-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC322 6

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** 0/8/20 6 2:36:20 PM

3 Samp e(s), 2 Tr p B ank(s) were co ected on 07/ 7/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 8/20 4 proper y preserved, at 3 Deg C and ntact These Samp es rece ved a job number of MC322 6 A st ng of the Laborato y Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s report 1-Chlorohexane, Benzenethiol, Dibenz(a,h)acridine, Indene, Quinoline were searched in the library search and reported only if detections were found.

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSH2253

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32345- 2MS, MC32345- 2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- Cont nu ng Ca brat on MSH2253-CC2244 for Naphtha ene exceed 20% d fference (b ased ow) Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSV 225

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32 20- MS, MC32 20- MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- MSV 225-BS Recovery(s) for Acry on tr e, , -D ch oroethene, Methy Tert Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- MSV 225-BS Recovery(s) for Bromomethane, Ch oroethane, Ch oromethane, Tr ch orof uoromethane, V ny Acetate, V ny ch or de are outs de contro m ts Assoc ated samp es are non-detect for th s compound
- Matr x Sp ke Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, 2-Ch oroethy v ny ether, Acry on tr e, Benzene, Isopropy benzene, Methy Te t Buty Ether, Methy ene ch or de, trans- ,2-D ch oroethene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for 2-Ch oroethy v ny ether, Benzene are outs de contro m ts for samp e MC32 20- MSD H gh RPD due to poss b e matr x nterference and/or samp e non-homogene ty
- Matr x Sp ke Dup cate Recovery(s) for , -D ch oroethene, 2,2-D ch oropropane, Acry on tr e, Methy Tert Buty Ether, trans- ,2-D ch oroethene, 2-Ch oroethy v ny ether, Benzene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- MC322 6-3 for To uene-D8: Outs de contro m ts due to poss b e matr x nterferenc e Conf rmed by reana ys s
- MC322 6-2, 3 has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s
- In t a ca brat on ver f cat on MSV 77-ICV 77 for d ch orod f uoromethane exceed 30% D fference (response b as h gh) Assoc ated samp es are non-detect for th s compound
- MC32 20- MS/MSD has nterna standard outs de contro m ts Outs de contro m ts due to poss b e matr x nte ference Conf rmed by MS/MSD
- Cont nu ng ca brat on check standard MSV 225-CC 77 for ch oromethane, v ny ch or de, bromomethane, ch oroethane, tr ch orof uoromethane, , -d ch oroethene, methy ene ch or de, acry on tr e, trans- ,2-d ch oroethene, v ny acetate, , -d ch oroethane, 2,2-d ch oropropane, carbon tetrach or de, trans- ,3-d ch oropropene exceed 20% D fference (response b as h gh) Assoc ated samp es are non-detect for these compounds
- Cont nu ng ca brat on check standard MSV 225-CC 77 for methy te t buty ether exceed 20% D fference Samp e resu t may be b ased h gh or non-detect for th s compound
- MC32 20- MS/MSD for Bromomethane, Ch oroethane, Ch oromethane, V ny ch or de: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC322 6-3 for To uene-D8: Outs de contro m ts due to poss b e matr x nterference Conf rmed by reana ys s

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39037

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32236-5MS, MC32236-5MSD were used as the QC samp es nd cated
- Samp e(s) MC322 6- , MC322 6-2, MC322 6-3 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- OP39037-BS/MS/MSD Recovery(s) for 4-N tropheno , Hexach orocyc opentad ene, Pheno are outs de contro m ts B ank Sp ke meets program techn ca requ rements
- Matr x Sp ke Recovery(s) for n-N trosod methy am ne are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference Refer to B ank Sp ke
- RPD(s) for MSD for Benzo c Ac d are outs de contro m ts for samp e OP39037-MSD H gh RPD due to poss b e matr x nterference and/or samp e heterogene ty
- RPD of OP39037-MSD for 4-N tropheno , Pheno : Outs de contro m ts B ank Sp ke meets program techn ca requ rements

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39038

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32236-6MS, MC32236-6MSD were used as the QC samp es nd cated
- Samp e(s) MC322 6- , MC322 6-2, MC322 6-3 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP39069

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- A method b anks for th s batch meet method spec f c cr ter a
- Samp e(s) MC32236- 3MS, MC32236- 3MSD were used as the QC samp es nd cated

SGS Accutest New Eng and cert f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s repo t(MC322 6)

Summary of Hits

Job Number: MC32216
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/17/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32216-1	P93D-ROX-071714					
Benzene		0.63	0.50	0.32	ug/l	SW846 8260C
Methyl Tert Butyl Ether [a]		1.1	1.0	0.51	ug/l	SW846 8260C
Di-n-butyl phthalate		0.25 JB	5.2	0.18	ug/l	SW846 8270D
Phenanthrene		0.022 JB	0.052	0.013	ug/l	SW846 8270D BY SIM
MC32216-2	P93C-ROX-071714					
Benzene		1520	25	16	ug/l	SW846 8260C
Methyl Tert Butyl Ether [a]		6.1	1.0	0.51	ug/l	SW846 8260C
Phenol		8.7	5.2	0.31	ug/l	SW846 8270D
Di-n-butyl phthalate		0.35 JB	5.2	0.18	ug/l	SW846 8270D
Phenanthrene		0.024 JB	0.052	0.013	ug/l	SW846 8270D BY SIM
MC32216-3	P93B-ROX-071714					
Benzene		172000	500	320	ug/l	SW846 8260C
tert-Butylbenzene		0.42 J	5.0	0.39	ug/l	SW846 8260C
Ethylbenzene		23.6	1.0	0.38	ug/l	SW846 8260C
Isopropylbenzene		22.7	5.0	0.35	ug/l	SW846 8260C
Naphthalene		5.3	5.0	0.69	ug/l	SW846 8260C
n-Propylbenzene		29.7	5.0	0.49	ug/l	SW846 8260C
Toluene		12.9	1.0	0.33	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		8.0	5.0	0.32	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		3.7 J	5.0	0.38	ug/l	SW846 8260C
m,p-Xylene		66.2	1.0	0.93	ug/l	SW846 8260C
o-Xylene		4.7	1.0	0.36	ug/l	SW846 8260C
Xylene (total)		70.8	1.0	0.36	ug/l	SW846 8260C
Di-n-butyl phthalate		0.46 JB	5.2	0.18	ug/l	SW846 8270D
Phenanthrene		0.023 JB	0.052	0.013	ug/l	SW846 8270D BY SIM
MC32216-4	TB-071714-HCL					
No hits reported in this sample.						
MC32216-5	TB-071714-ST					
No hits reported in this sample.						

(a) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33200.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67797.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	0.63 [a]	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND [a]	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND [a]	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [b]	1.1	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene [c]	ND [a]	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [a]	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND [a]	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND [a]	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND [a]	1.0	0.36	ug/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:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%	103%	70-130%
2037-26-5	Toluene-D8	86%	108%	70-130%
460-00-4	4-Bromofluorobenzene	109%	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.
(c) Continuing Calibration outside of acceptance criteria. Sample result may be biased low.

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:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F75051.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.86	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.49	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.56	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.58	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.35	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.48	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.25	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/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:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.35	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.47	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.3	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.41	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	78%		15-110%
4165-60-0	Nitrobenzene-d5	62%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90936.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.072	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.052	ug/l	
120-12-7	Anthracene	ND	0.10	0.096	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.052	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.077	ug/l	
85-01-8	Phenanthrene	0.022	0.052	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	57%		30-130%
1718-51-0	Terphenyl-d14	66%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93D-ROX-071714		
Lab Sample ID:	MC32216-1	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39774.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	120%		36-173%
460-00-4	Bromofluorobenzene (S)	118%		36-173%

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:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33201.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67802.D	50	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	1520 [a]	25	16	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether [b]	6.1	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	104%	70-130%
2037-26-5	Toluene-D8	72%	104%	70-130%
460-00-4	4-Bromofluorobenzene	113%	111%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration outside of acceptance criteria. Sample result may be biased high.

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F75052.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	8.7	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.35	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	77%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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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:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90937.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.076	ug/l	
85-01-8	Phenanthrene	0.024	0.052	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	P93C-ROX-071714		
Lab Sample ID:	MC32216-2	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39775.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	112%		36-173%
460-00-4	Bromofluorobenzene (S)	97%		36-173%

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:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33202.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2	H67803.D	1000	07/28/14	AMY	n/a	n/a	MSH2253

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	172000 [a]	500	320	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	0.42	5.0	0.39	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	23.6	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	22.7	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	5.3	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	29.7	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	12.9	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	8.0	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.7	5.0	0.38	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	66.2	1.0	0.93	ug/l	
95-47-6	o-Xylene	4.7	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	70.8	1.0	0.36	ug/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:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%	104%	70-130%
2037-26-5	Toluene-D8	66% [b]	101%	70-130%
460-00-4	4-Bromofluorobenzene	117%	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F75053.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.85	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.41	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.58	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	3.0	ug/l	
100-02-7	4-Nitrophenol	ND	21	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.2	ug/l	
108-95-2	Phenol	ND	5.2	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.66	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.49	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.55	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.28	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.27	ug/l	
84-74-2	Di-n-butyl phthalate	0.46	5.2	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.2	0.29	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.21	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.2	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.41	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.42	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	26%		15-110%
118-79-6	2,4,6-Tribromophenol	80%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	76%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90938.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.095	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.030	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.033	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.028	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.040	ug/l	
218-01-9	Chrysene	ND	0.10	0.025	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.042	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.076	ug/l	
85-01-8	Phenanthrene	0.023	0.052	0.013	ug/l	JB
129-00-0	Pyrene	ND	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	63%		30-130%
1718-51-0	Terphenyl-d14	65%		30-130%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93B-ROX-071714		
Lab Sample ID:	MC32216-3	**Date Sampled:**	07/17/14
Matrix:	AQ - Ground Water	**Date Received:**	07/18/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39776.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	37.0 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	99%		36-173%
460-00-4	Bromofluorobenzene (S)	112%		36-173%

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:	TB-071714-HCL		
Lab Sample ID:	MC32216-4	**Date Sampled:**	07/17/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33189.D	1	07/24/14	AMY	n/a	n/a	MSV1225
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	TB-071714-HCL		
Lab Sample ID:	MC32216-4	**Date Sampled:**	07/17/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-071714-HCL		
Lab Sample ID:	MC32216-4	**Date Sampled:**	07/17/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/18/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/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:	TB-071714-ST		
Lab Sample ID:	MC32216-5	**Date Sampled:**	07/17/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/18/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39777.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	80%		36-173%
460-00-4	Bromofluorobenzene (S)	79%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

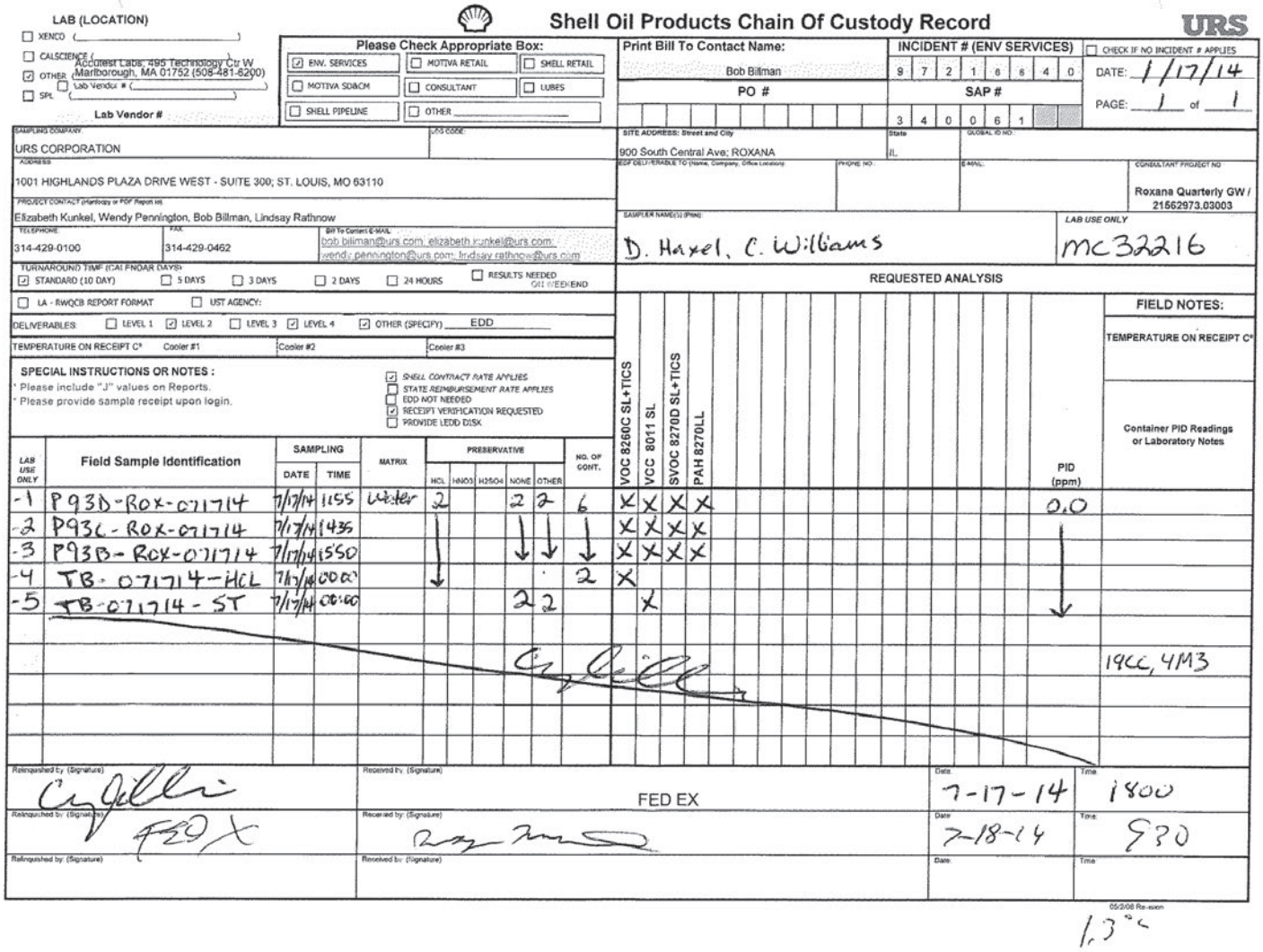
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- REPROC Form: Reprocessed/Corrected Data
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER (Accutest Labs; 495 Technology Ctr W Marlborough, MA 01752 (508-481-6200))
☐ SPL (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0
SAP #: 3 4 0 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 1/17/14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
SAMPLER NAME(S) (Print): D. Haxel, C. Williams
LAB USE ONLY: MC32216

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VCC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	P93D-ROX-071714	7/17/14	1155	water	2			2	2	6	X	X	X	X	0.0	
-2	P93C-ROX-071714	7/17/14	1435		↓			↓	↓	↓	X	X	X	X	↓	
-3	P93B-ROX-071714	7/17/14	1550		↓			↓	↓	↓	X	X	X	X	↓	
-4	TB-071714-HCL	7/17/14	0000		↓			·	·	2	X					
-5	TB-071714-ST	7/17/14	00:00					2	2			X			↓	
																19CC, 4M3

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FED EX	7-17-14	1800
FED X	[signature]	7-18-14	930

05/2/08 Revision

1.3°C

MC32216: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32216 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/18/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: 900 SOUTH CENTRAL **No. Coolers:** 1 **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

Sample Integrity - Instructions	Y	or	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

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

5.1

5

MC32216: Chain of Custody
Page 2 of 2

Initial Calibration Summary

Job Number: MC32216 **Sample:** MSH2244-ICC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67478.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Response Factor Report MSH

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Calibration Files
0.25=h67472.d 0.5 =h67473.d 1 =h67474.d 5 =h67475.d
10 =h67476.d 25 =h67477.d 50 =h67478.d 100 =h67479.d
200 =h67480.d 400 =h67481.d = =

Compound

	0.25	0.5	1	5	10	25	50	100	200	400	Avg	%RSD
1) I 1,4-difluorobenzene	----------ISTD----------											
2) benzene	1.475	1.213	1.387	1.287	1.345	1.193	1.180	1.069	1.022		1.241	11.86
3) I 1,4-dichlorobenzene-d	----------ISTD----------											
4) 1,1,2,2-tetrachloroethane	1.087	0.899	1.040	0.836	0.849	0.774	0.744	0.688	0.598		0.835	18.91

---- Quadratic regression ---- Coefficient = 0.9990
Response Ratio = 0.00415 + 0.80280 *A + -0.02603 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

h140716wx.m Mon Oct 19 11:30:13 2015

Initial Calibration Verification

Job Number: MC32216 **Sample:** MSH2244-ICV2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67492.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140717\h67492.d Vial: 4
Acq On : 17 Jul 2014 1:41 pm Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32302,msh2244,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.49
2 p	benzene	1.241	1.231	0.8	106	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	49.981	0.0	105	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Mon Oct 19 15:42:36 2015

Continuing Calibration Summary

Job Number: MC32216 **Sample:** MSH2253-CC2244
Account: SHELLWIC Shell Oil **Lab FileID:** H67780.D
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Evaluate Continuing Calibration Report

Data File : O:\msh\1\old data\140728\h67780.d Vial: 2
Acq On : 28 Jul 2014 9:00 am Operator: amym
Sample : cc2244-50 Inst : MSH
Misc : ms32366,msh2253,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : O:\msh\1\methods\h140716wx.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Oct 19 11:28:37 2015
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00	9.49
2 p	benzene	1.241	1.202	3.1	77	0.00	9.29
3 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	15.31
		Amount	Calc.	%Drift			
4 P	1,1,2,2-tetrachloroethane	50.000	51.545	-3.1	80	0.00	13.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
h67478.d h140716wx.m Tue Oct 20 11:01:29 2015

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

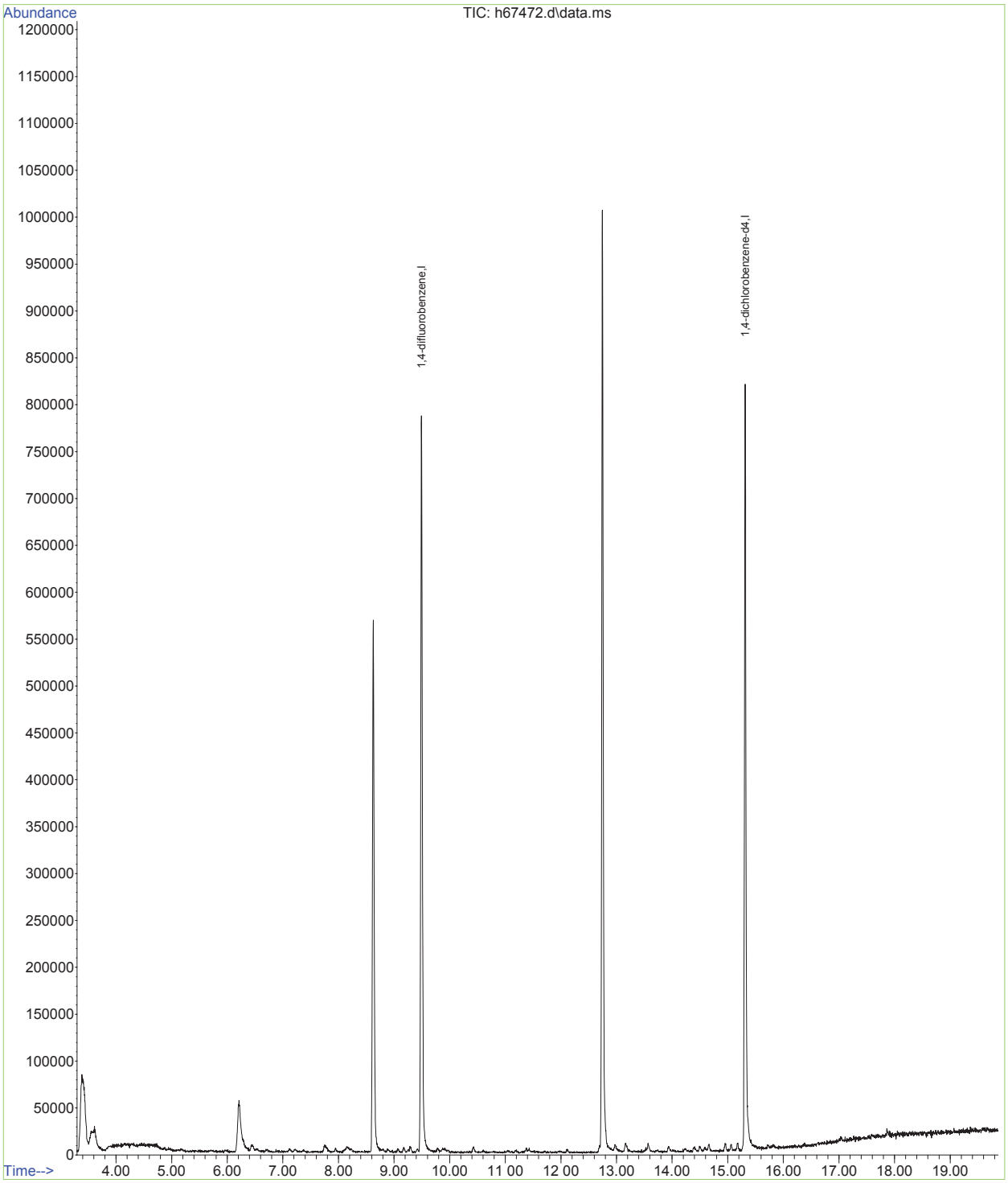
Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	684493	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	236246	50.00	ug/L	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67472.d
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 11:22:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

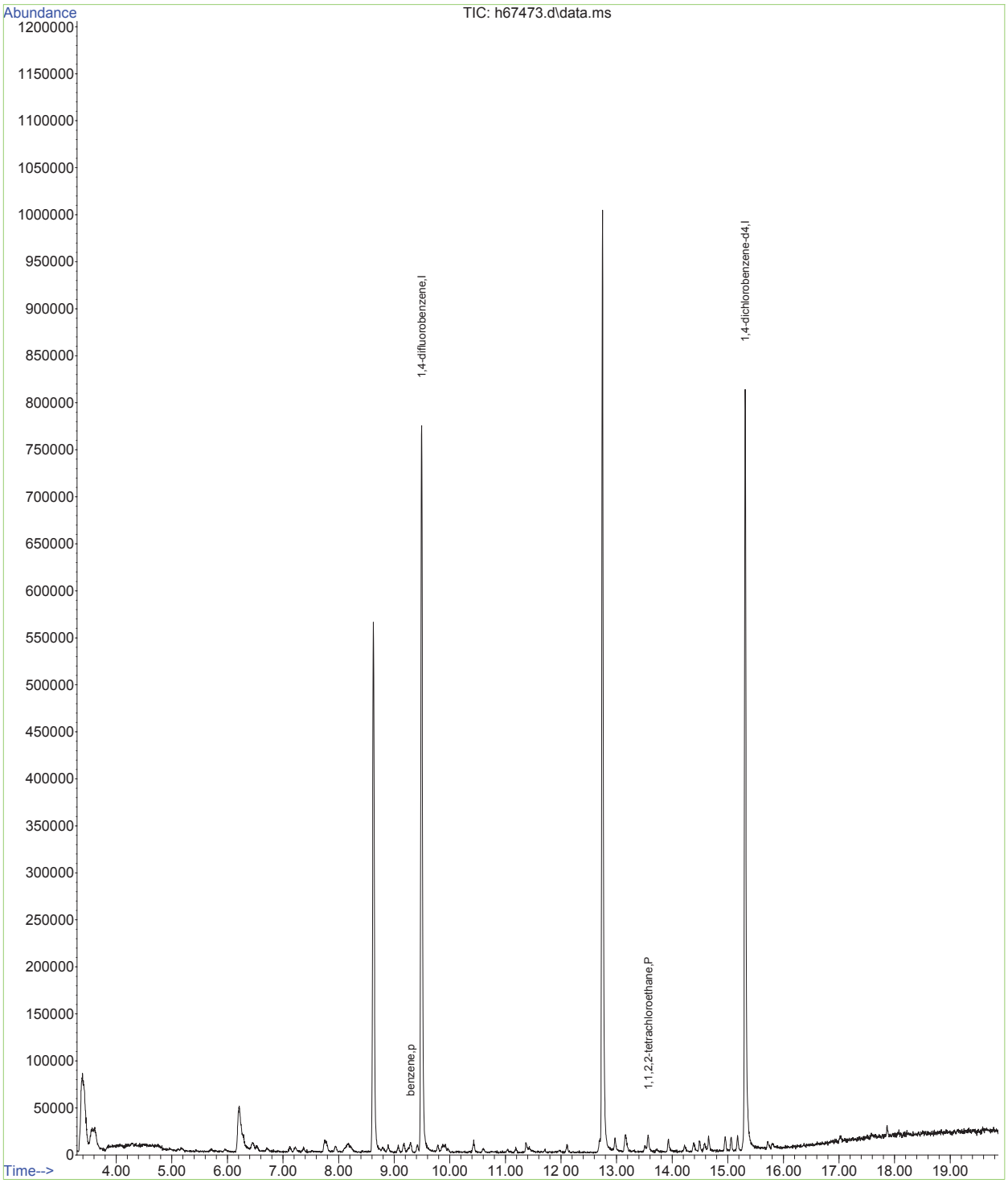
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.493	114	677191	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	233786	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.292	78	9988m	0.62	ug/L	
4) 1,1,2,2-tetrachloroethane	13.572	83	2541	0.70	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

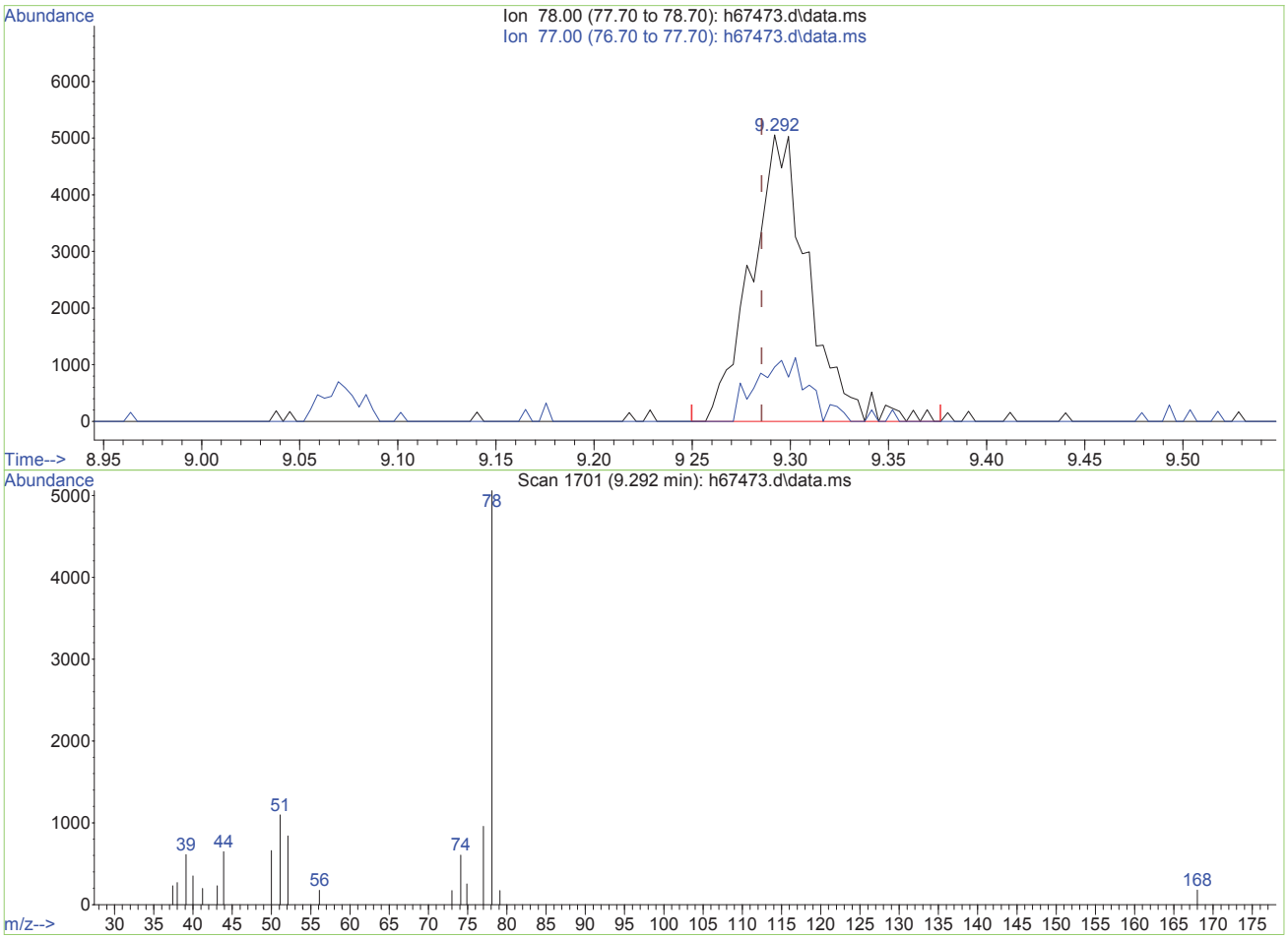
Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:19:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:18:16 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.64ug/L

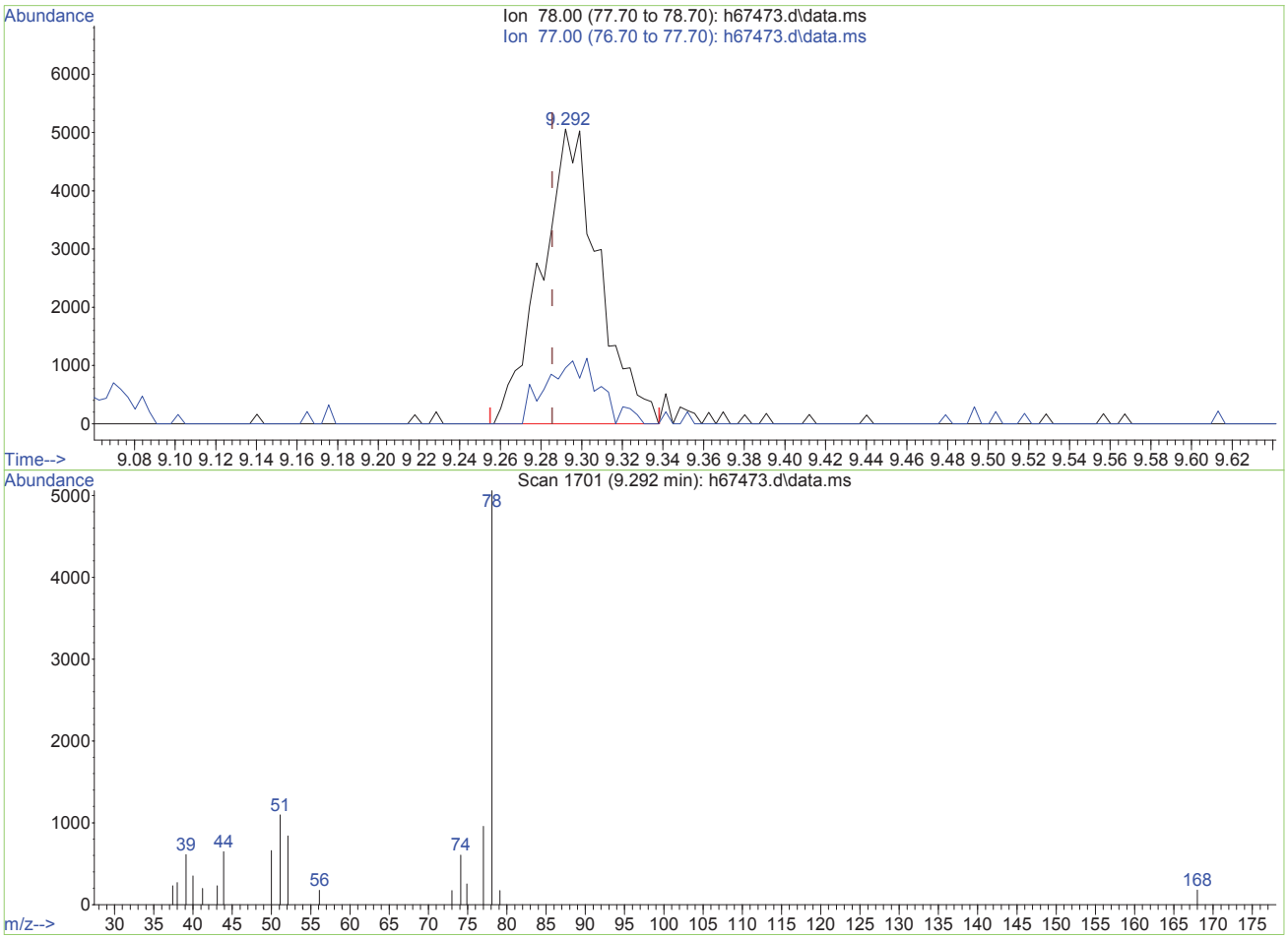
response 10328

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67473.d
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 19 11:23:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



TIC: h67473.d\data.ms

(2) benzene (p)

9.292min (+0.006) 0.62ug/L m

response 9988

Ion	Exp%	Act%
78.00	100	100
77.00	23.70	18.92
0.00	0.00	0.00
0.00	0.00	0.00

H67473.D edits: benzene

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

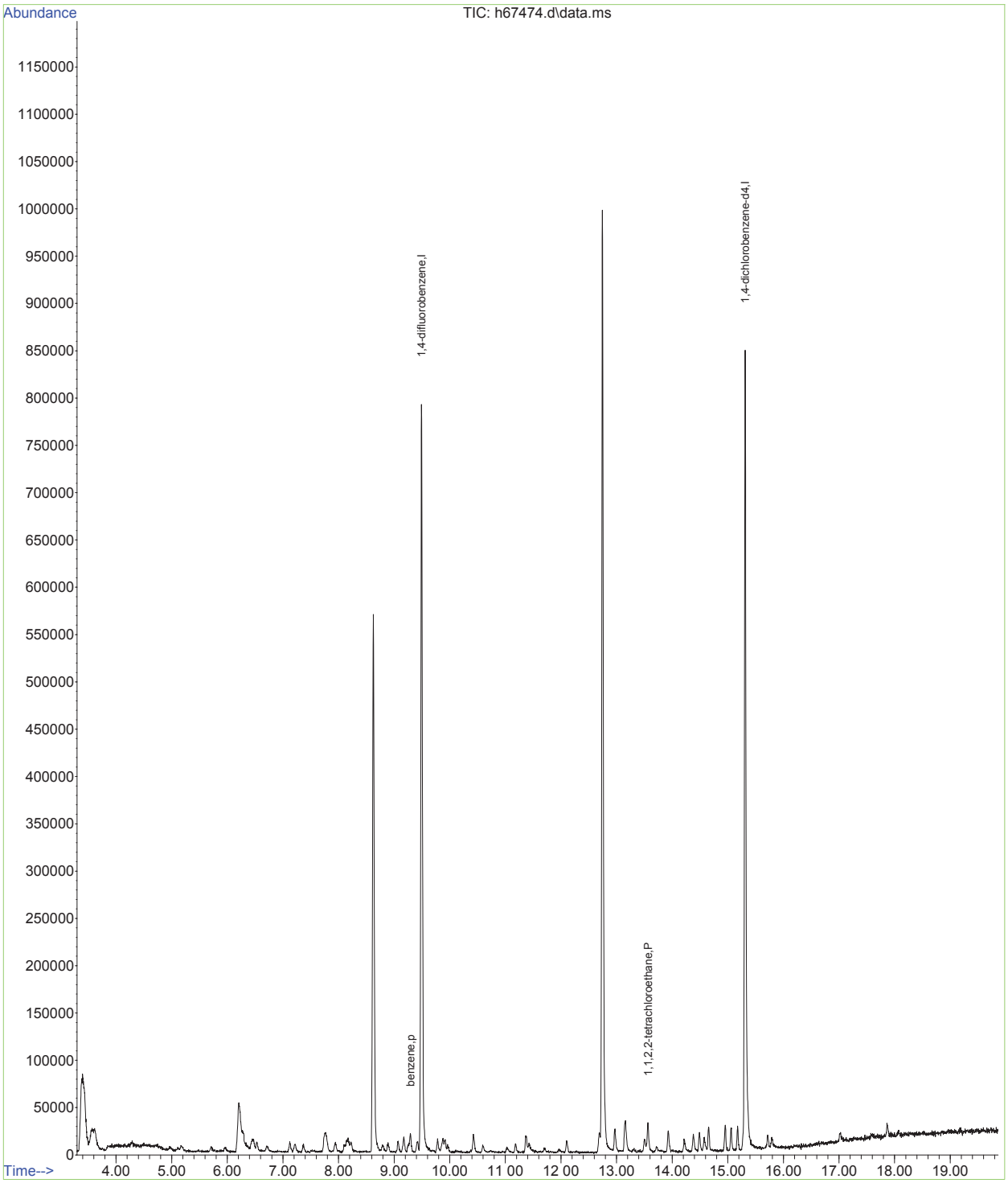
Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	687264	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	240259	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.291	78	16672	1.02	ug/L	95
4) 1,1,2,2-tetrachloroethane	13.565	83	4319	1.16	ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67474.d
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:22:29 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

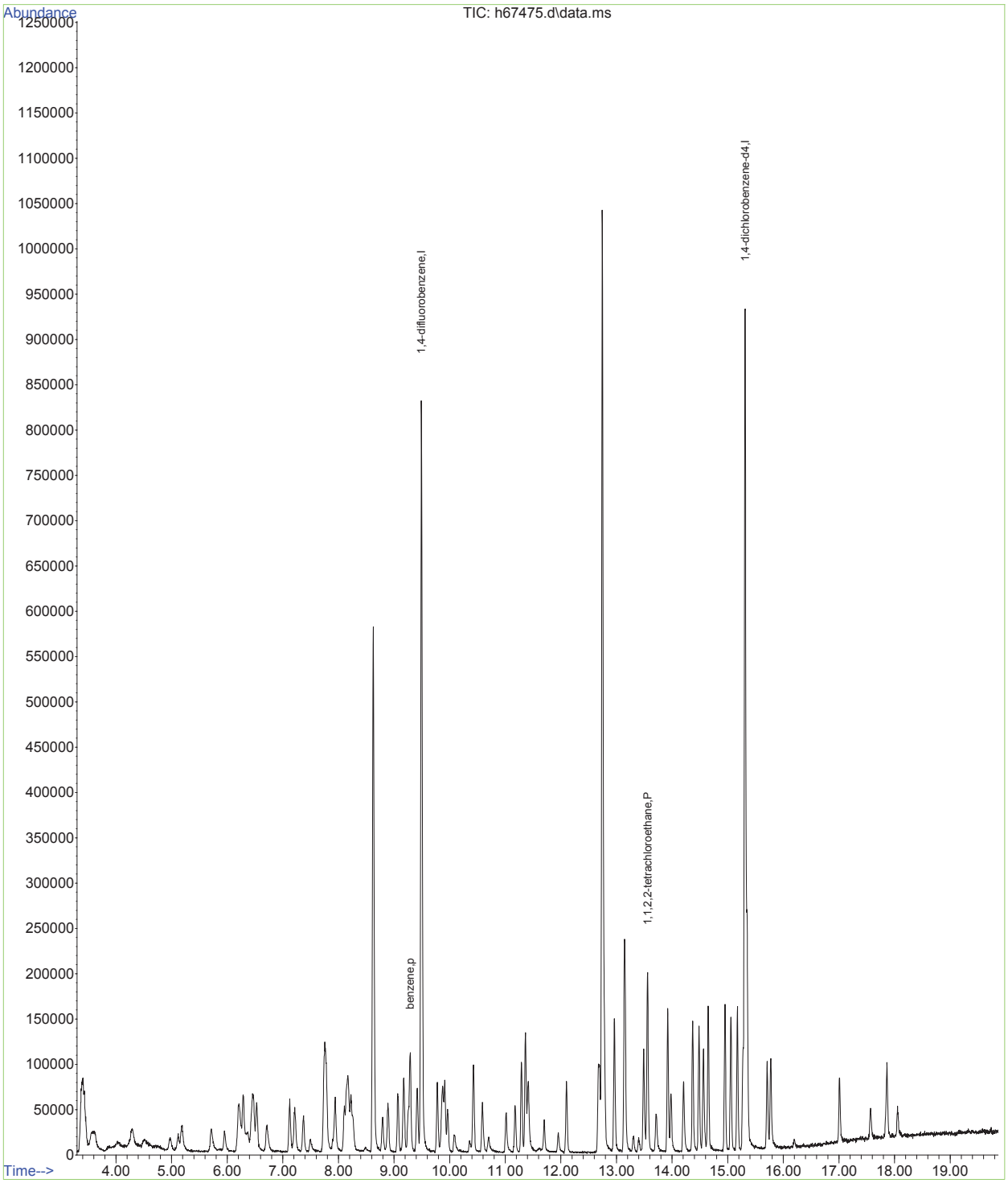
Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699432	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	259949	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	97018	5.81	ug/L	93
4) 1,1,2,2-tetrachloroethane	13.559	83	27040	6.72	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67475.d
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 11:22:31 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

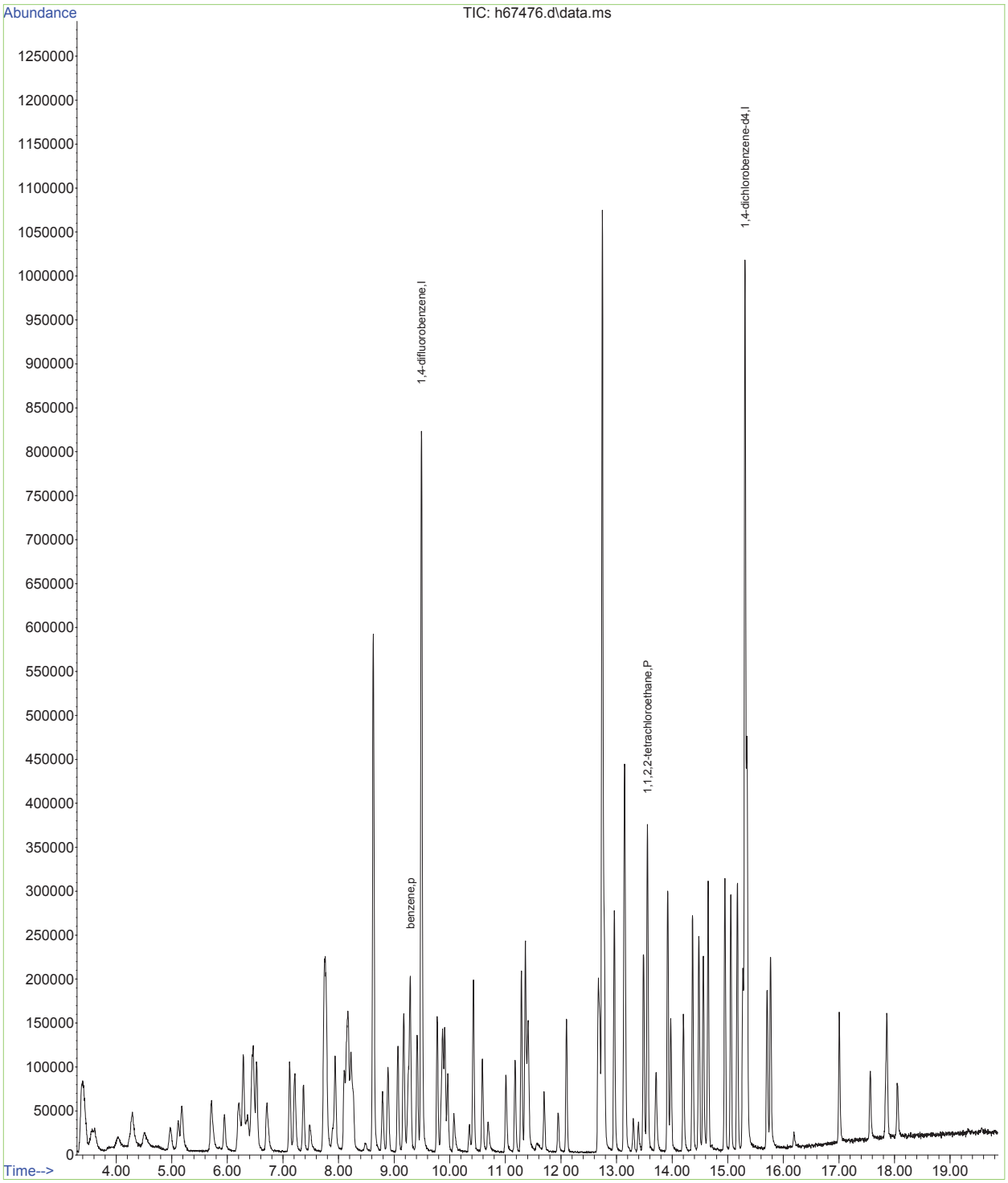
Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	695845	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	274980	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	179063	10.79	ug/L	99
4) 1,1,2,2-tetrachloroethane	13.560	83	45957	10.80	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67476.d
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 19 11:22:33 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

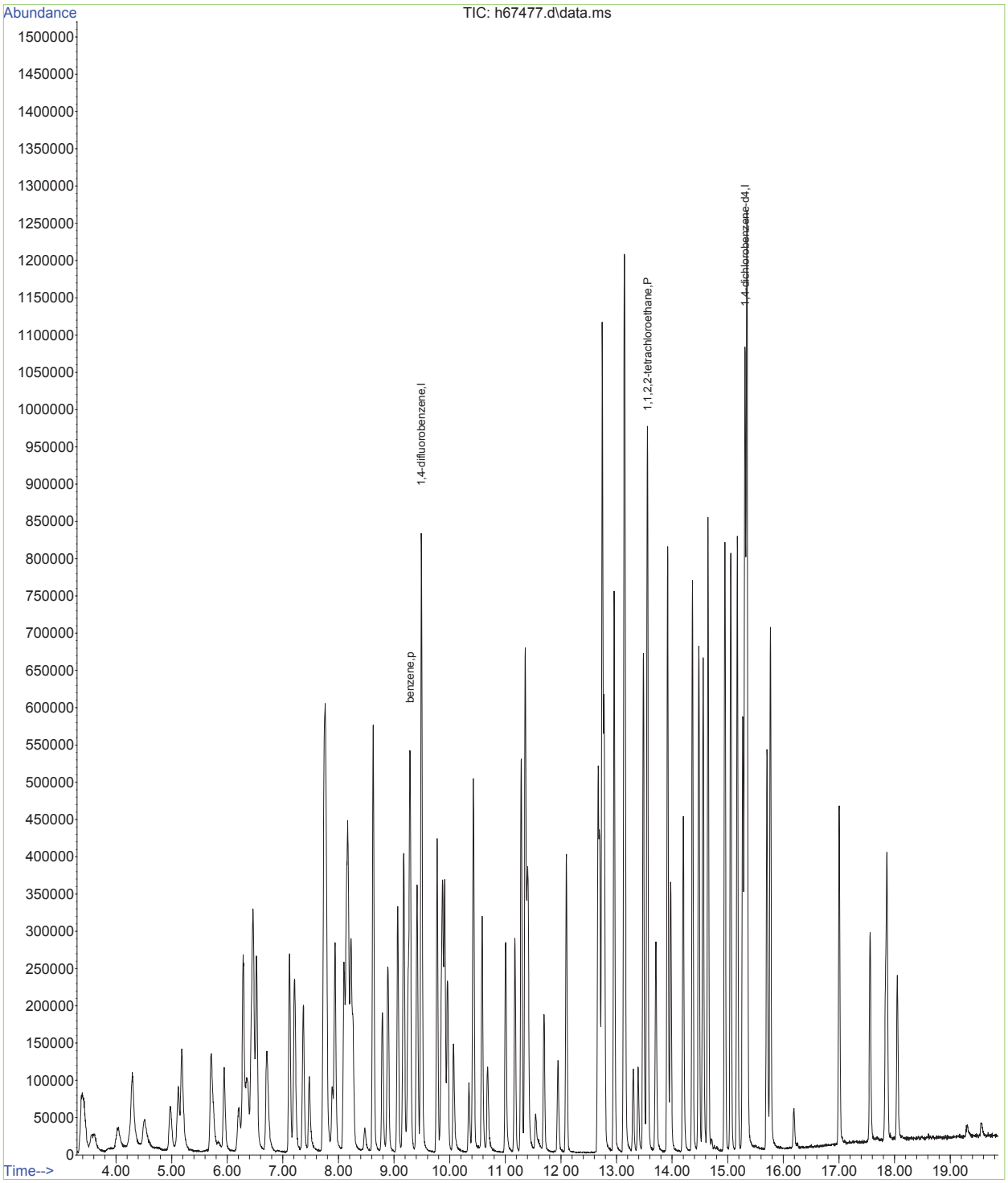
Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	699612	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	289791	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	470565	28.19	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.558	83	122945	27.42	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67477.d
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 19 11:22:35 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

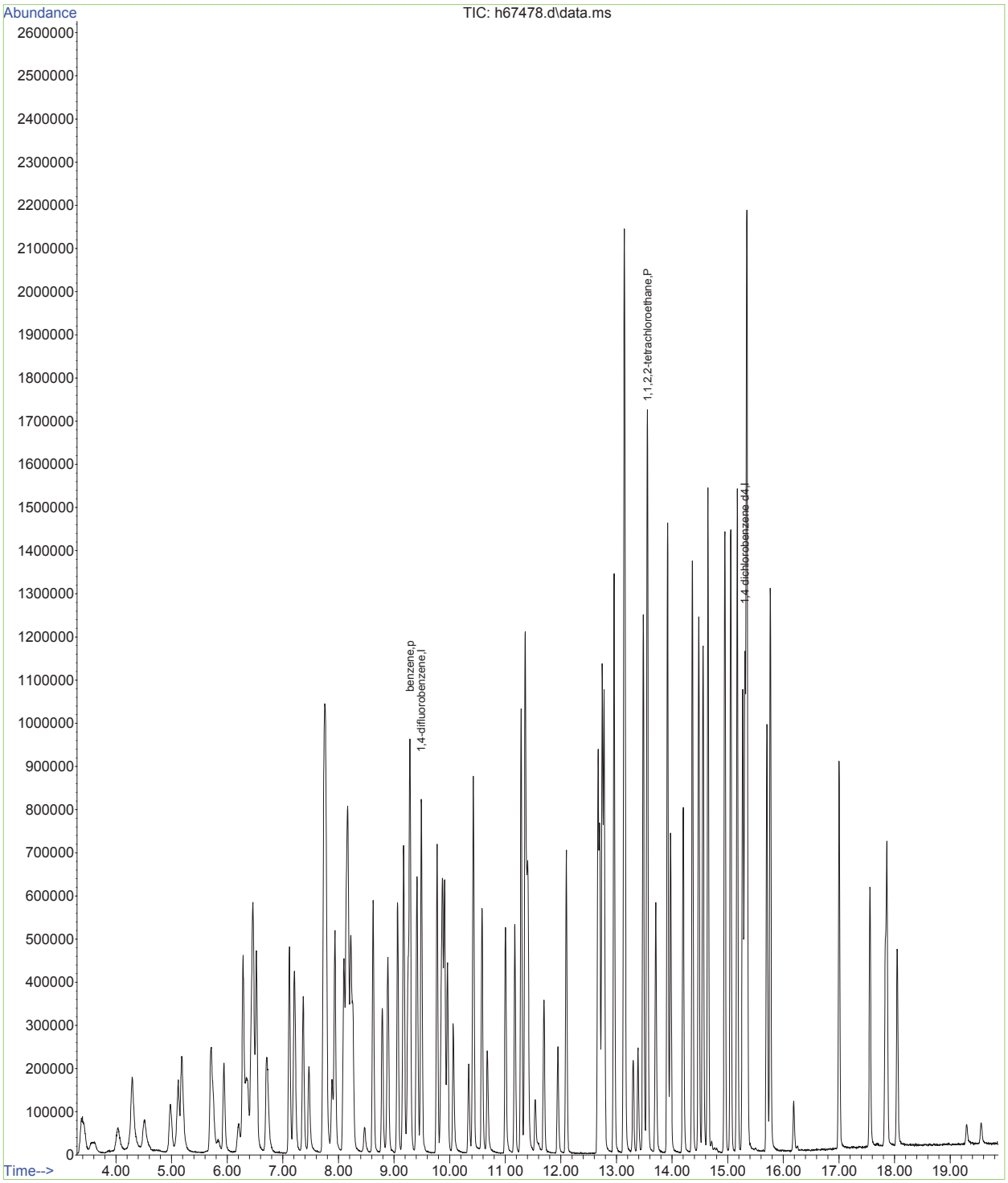
Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	694753	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	295278	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	828803	50.00	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.559	83	228425	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67478.d
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 19 11:22:37 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



SGS ACCUTEST MC32216

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

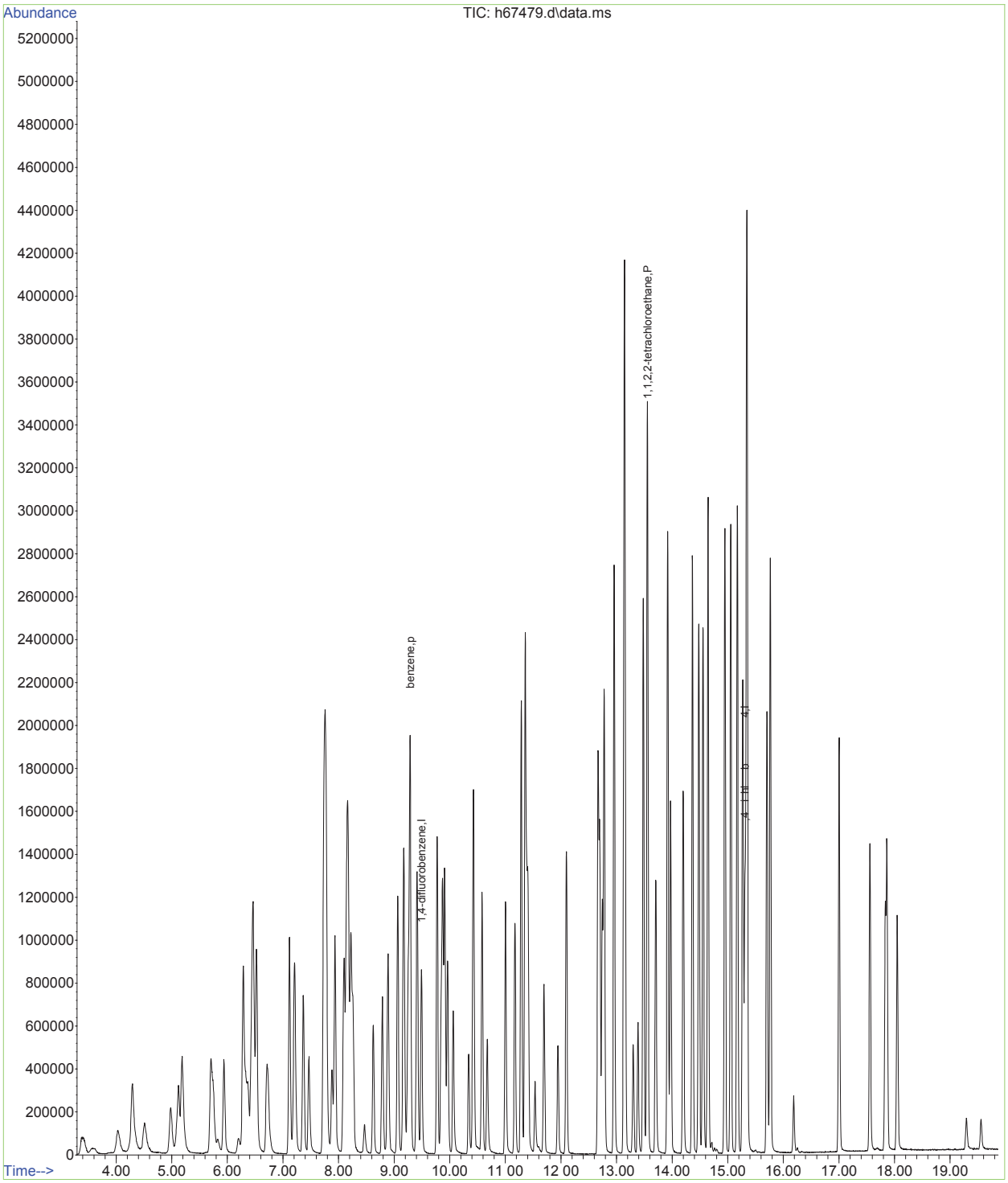
Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	708246	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	308032	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	1672064	98.95	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.559	83	458386	96.18	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67479.d
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 19 11:22:39 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

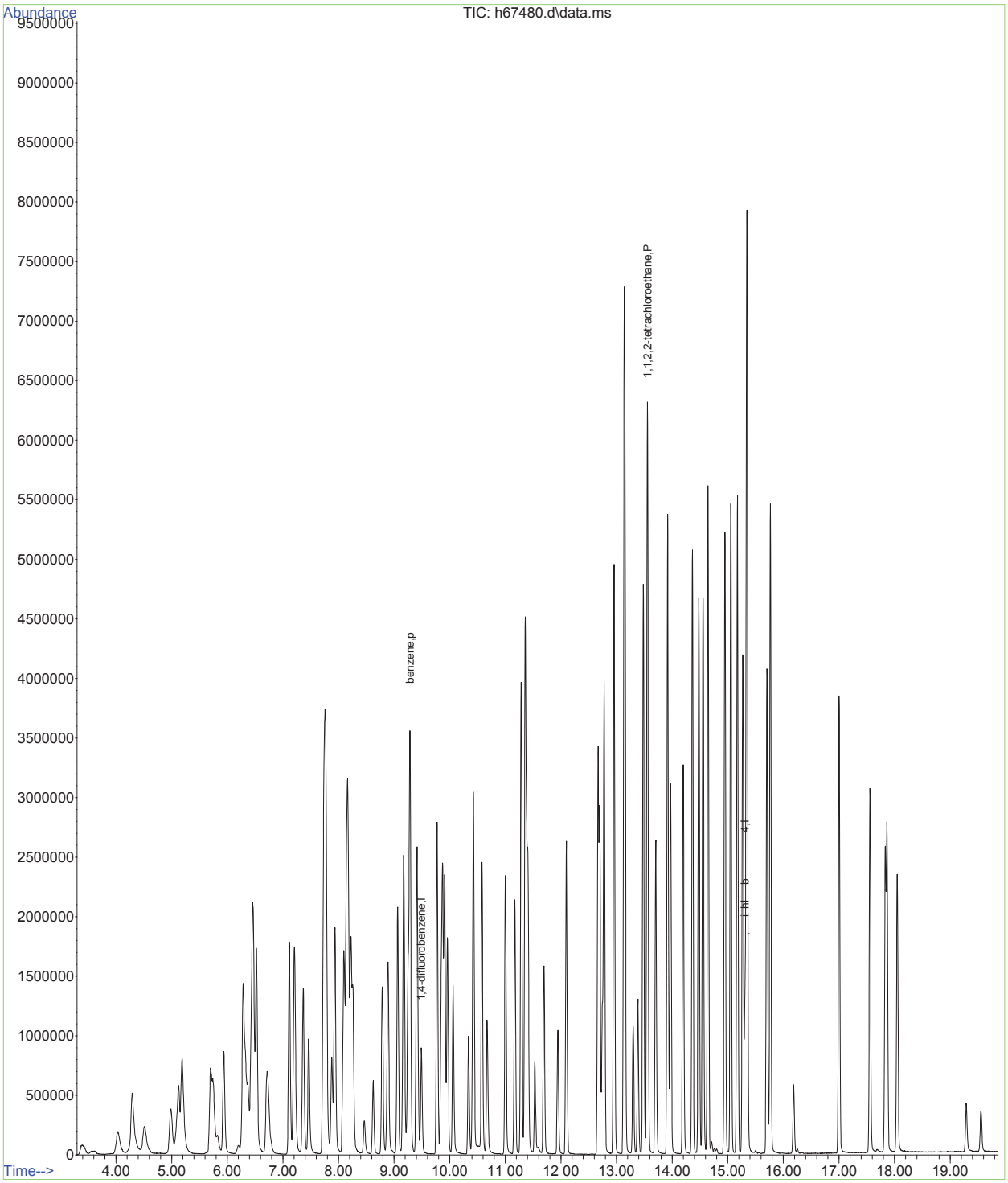
Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.489	114	716390	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.308	152	313007	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.285	78	3064468	179.29	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	861357	177.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67480.d
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 11:22:41 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

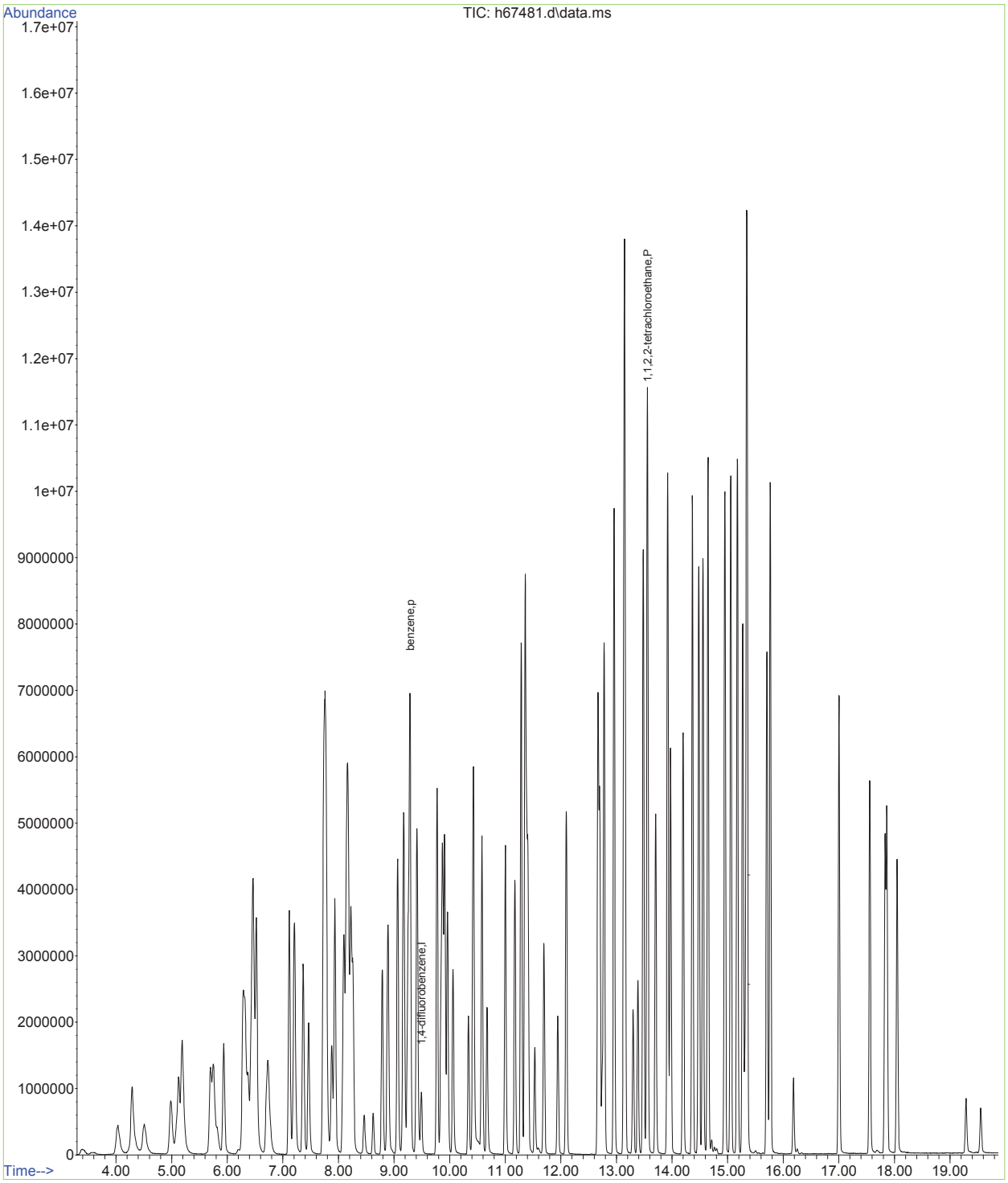
Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	739850	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.311	152	313899	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	6047226	342.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.561	83	1502858	309.45	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140716\
Data File : h67481.d
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 19 11:22:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:21:20 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

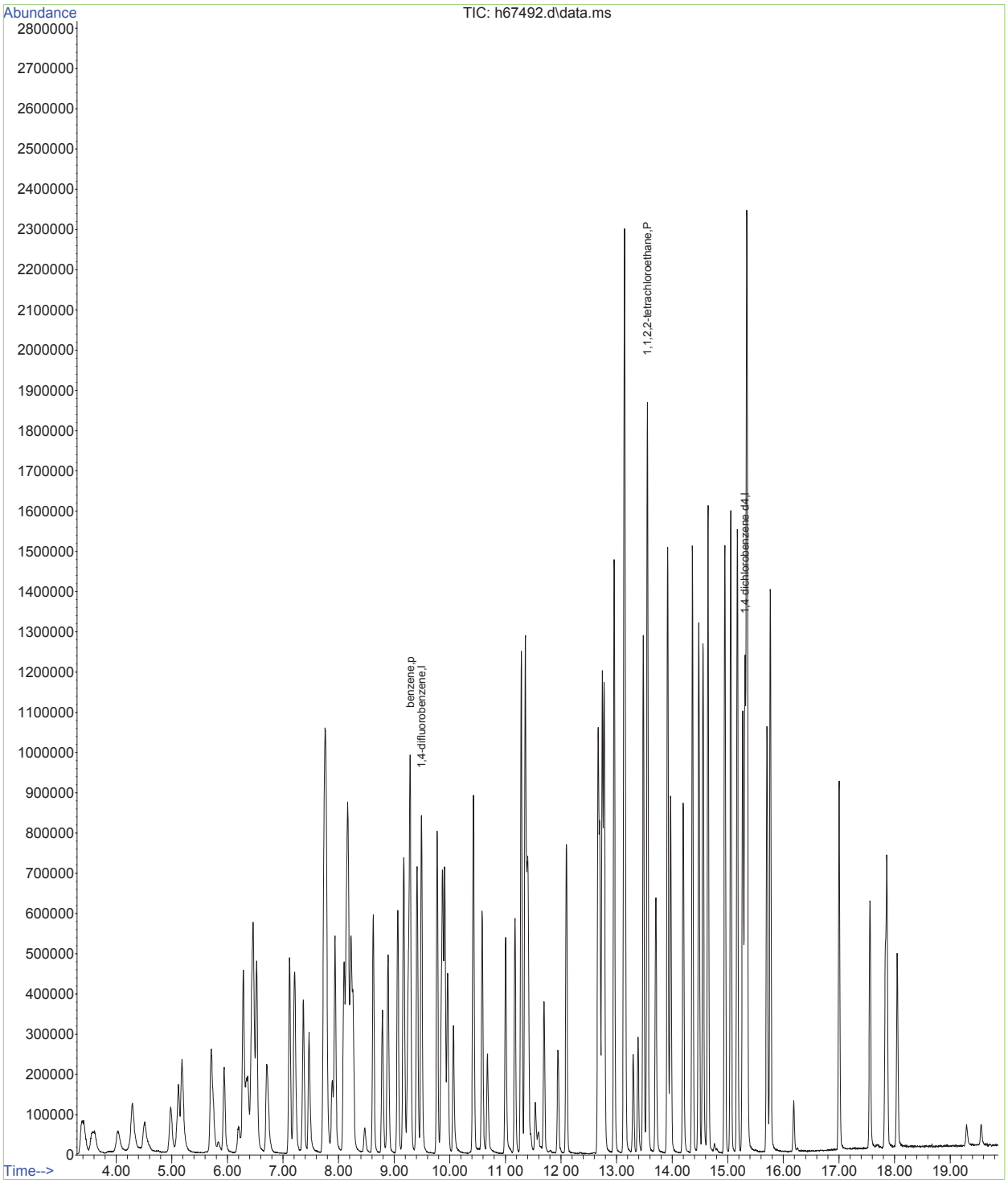
Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	710770	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.309	152	307965	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	874815	49.58	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	240411	49.98	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : O:\msh\1\old data\140717\
Data File : h67492.d
Acq On : 17 Jul 2014 1:41 pm
Operator : amym
Sample : icv2244-50
Misc : ms32302,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 11:29:56 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

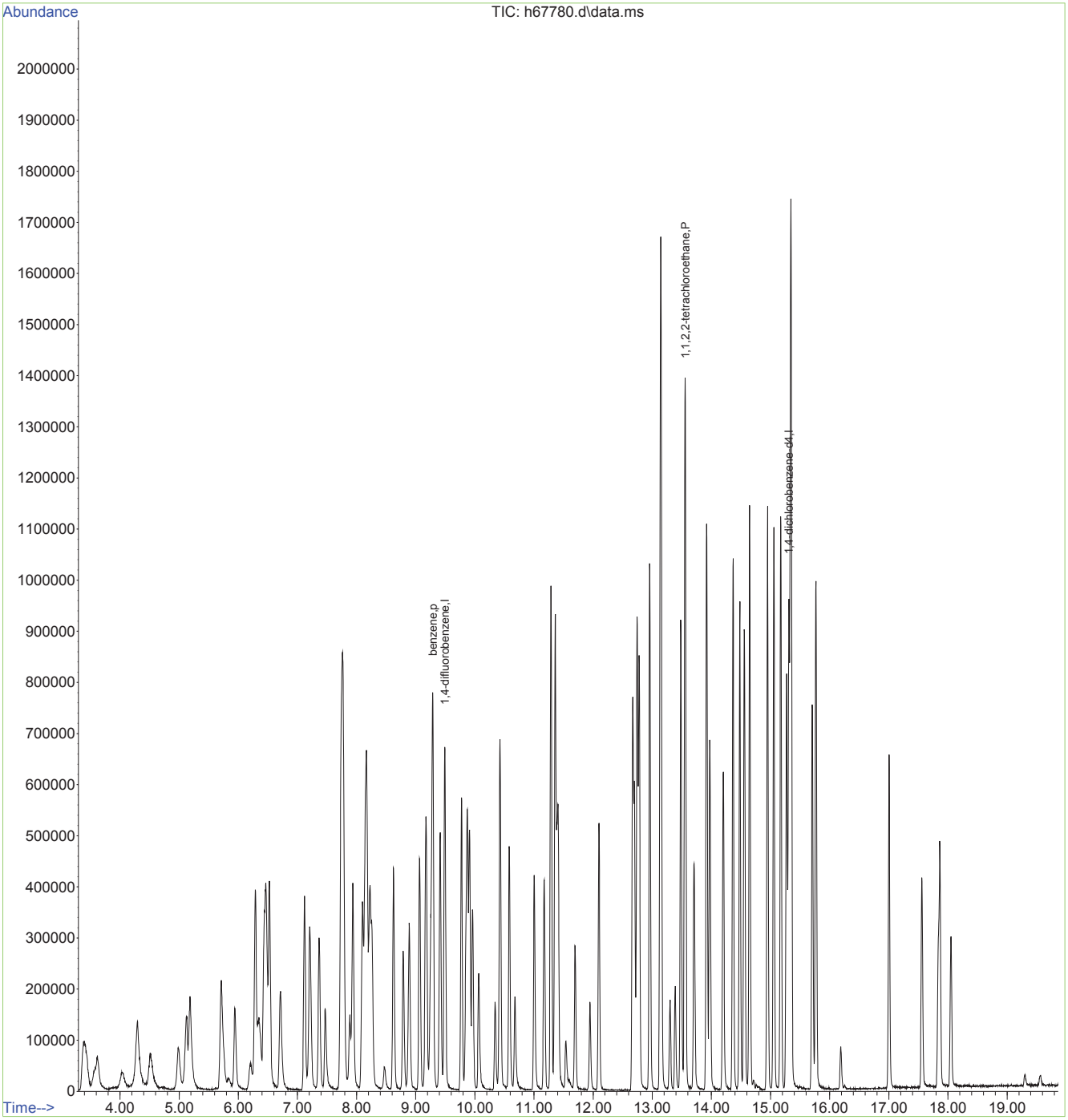
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	533886	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228339	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	641479	48.40	ug/L	100
4) 1,1,2,2-tetrachloroethane	13.560	83	183606	51.54	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67780.d
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:59:43 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67797.d
Acq On : 28 Jul 2014 5:56 pm
Operator : amym
Sample : mc32216-1
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 11:14:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

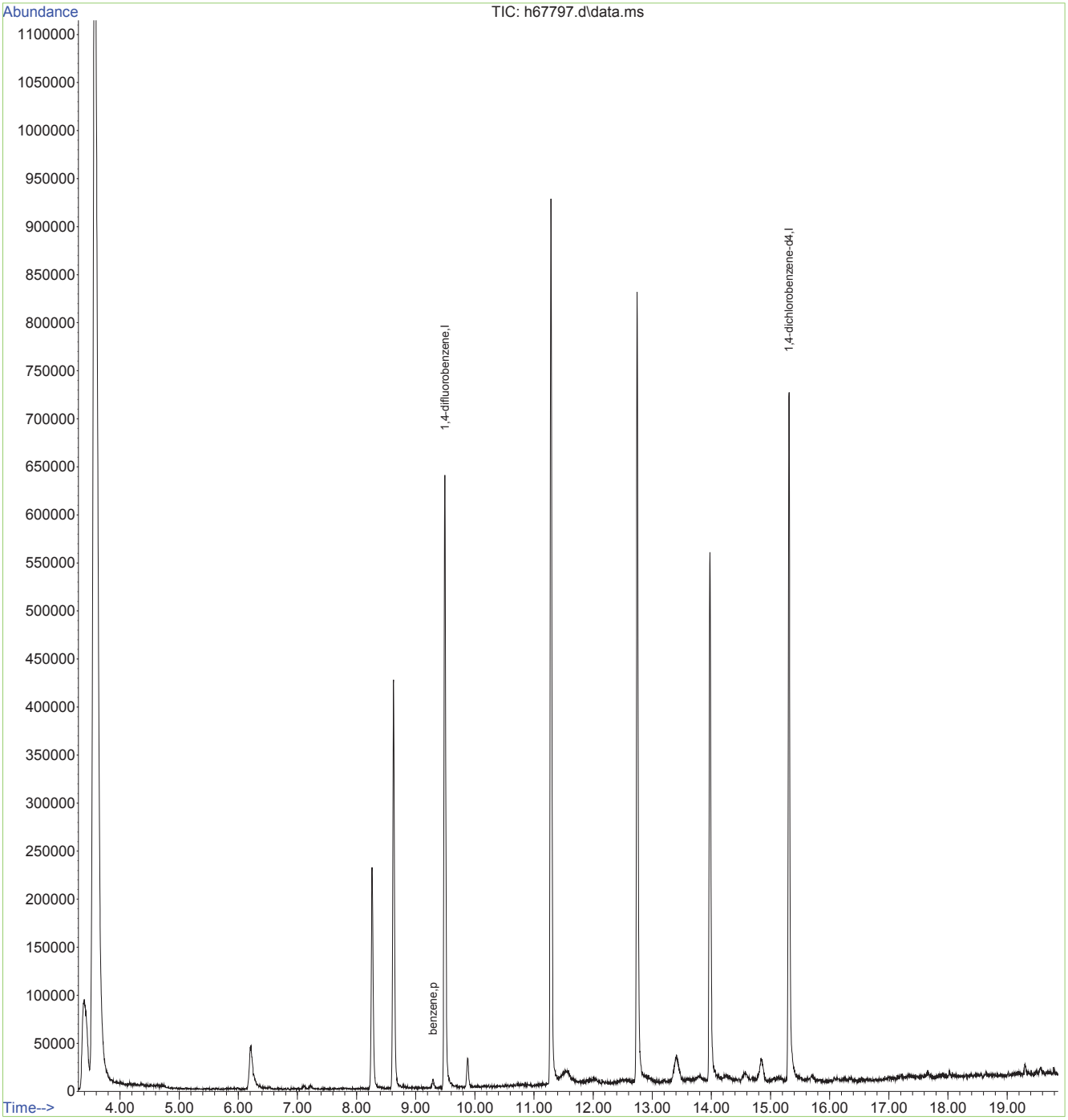
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	521450	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	188651	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	8125	0.63	ug/L	98

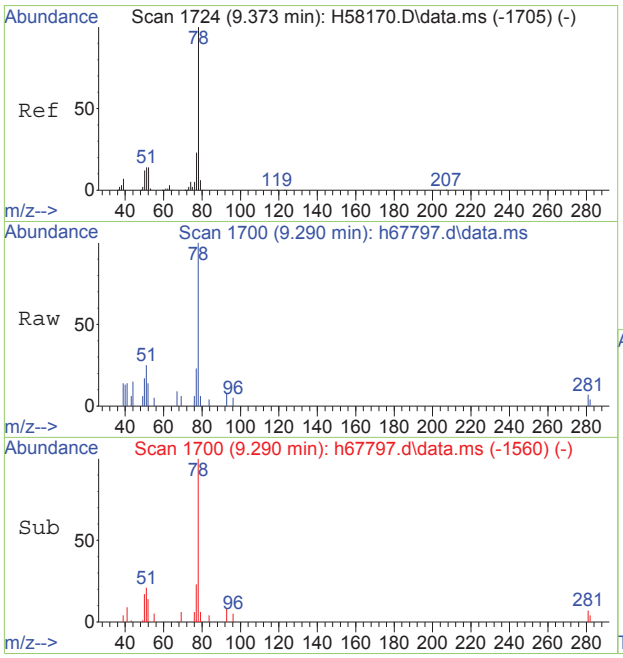
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67797.d
Acq On : 28 Jul 2014 5:56 pm
Operator : amym
Sample : mc32216-1
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 11:14:59 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

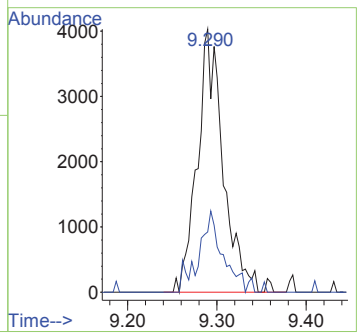




#2
benzene
Concen: 0.63 ug/L
RT: 9.290 min Scan# 1700
Delta R.T. 0.005 min
Lab File: h67797.d
Acq: 28 Jul 2014 5:56 pm

Tgt Ion: 78 Resp: 8125

Ion	Ratio	Lower	Upper
78	100		
77	22.9	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67802.d
Acq On : 28 Jul 2014 8:18 pm
Operator : amym
Sample : mc32216-2
Misc : ms32359,msh2253,,,,5,50
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:00:24 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

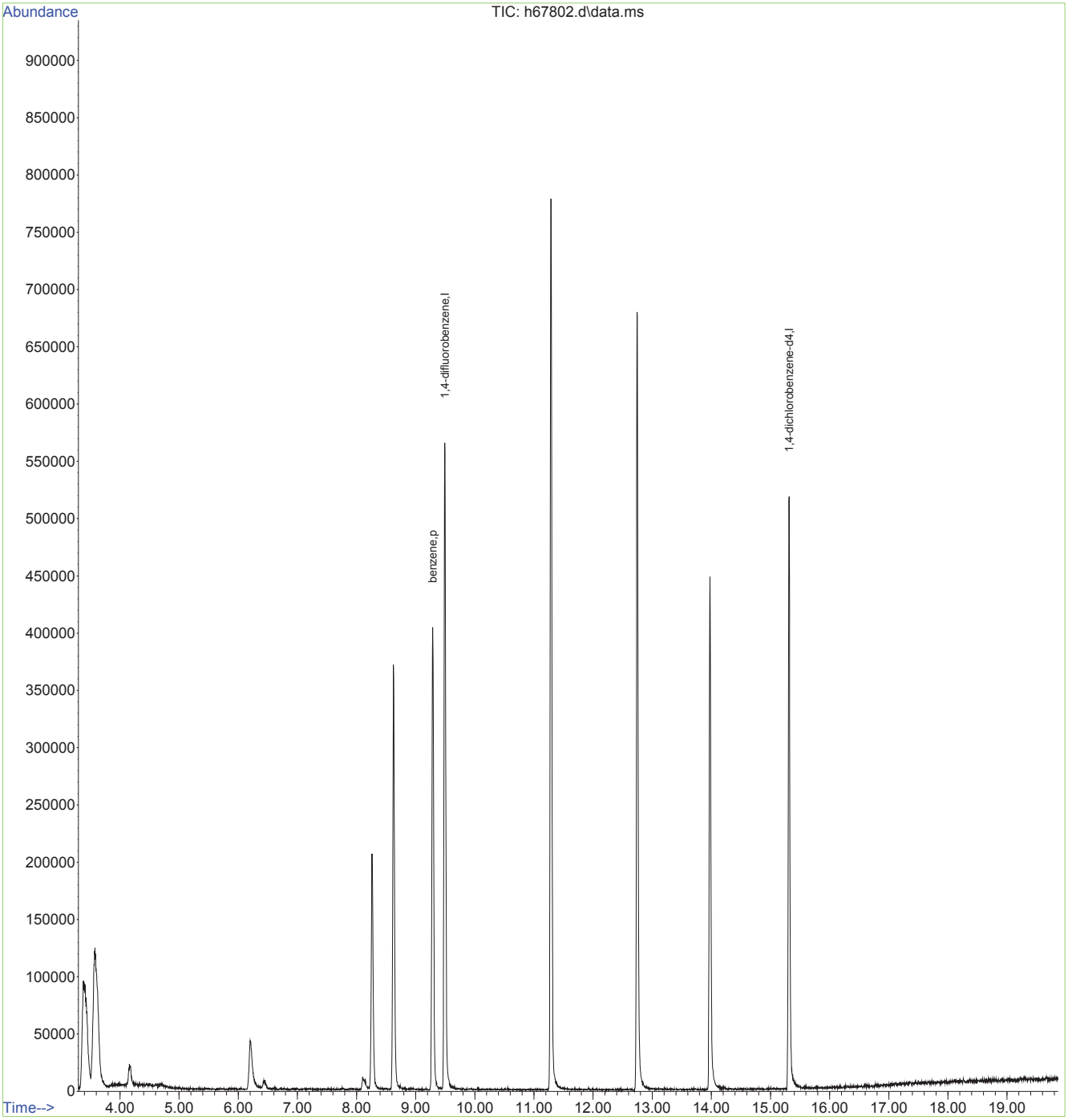
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.491	114	455220	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.314	152	139705	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.287	78	344555	30.49	ug/L	98

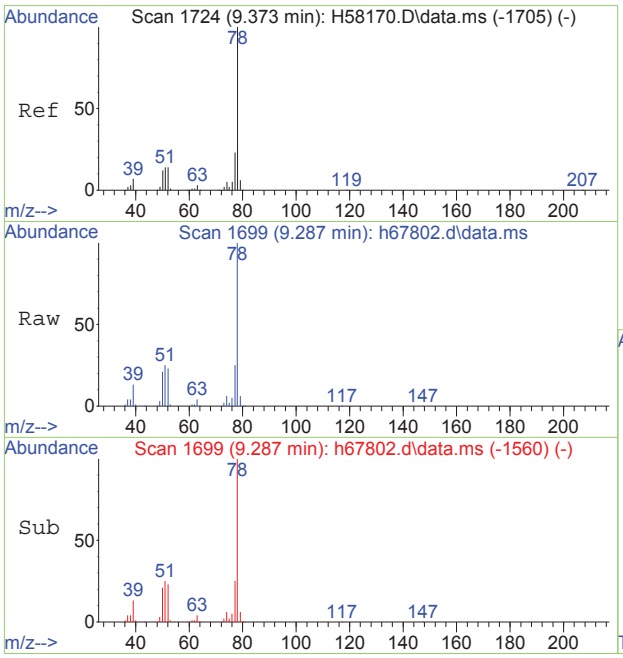
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67802.d
Acq On : 28 Jul 2014 8:18 pm
Operator : amym
Sample : mc32216-2
Misc : ms32359,msh2253,,,,5,50
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:00:24 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

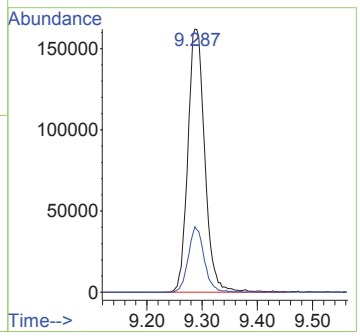




#2
benzene
Concen: 30.49 ug/L
RT: 9.287 min Scan# 1699
Delta R.T. 0.002 min
Lab File: h67802.d
Acq: 28 Jul 2014 8:18 pm

Tgt Ion: 78 Resp: 344555

Ion	Ratio	Lower	Upper
78	100		
77	24.9	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67803.d
Acq On : 28 Jul 2014 8:46 pm
Operator : amym
Sample : mc32216-3
Misc : ms32359,msh2253,,,,5,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 11:00:26 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

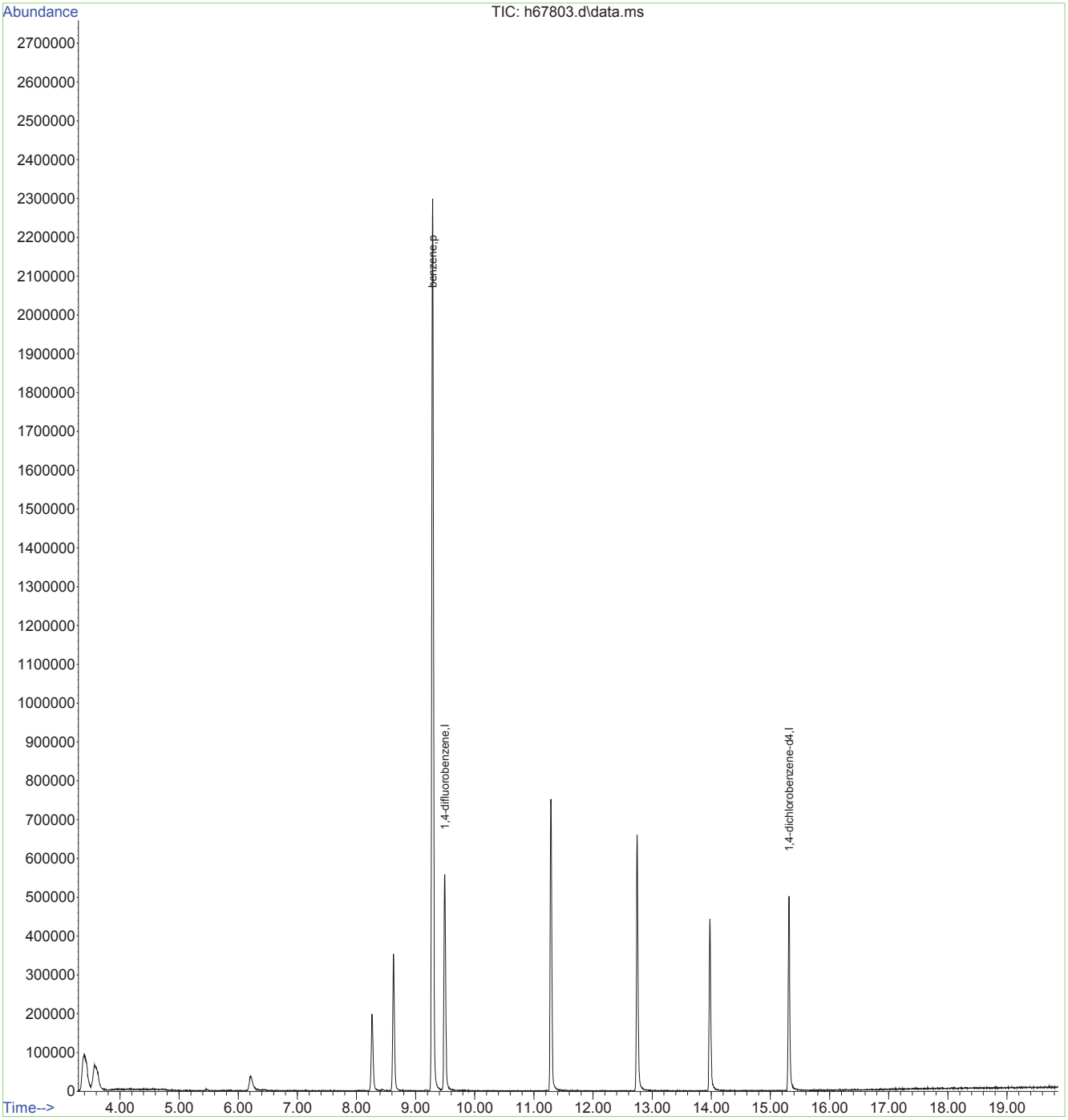
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.492	114	453306	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.315	152	138689	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	1939729	172.37	ug/L	99

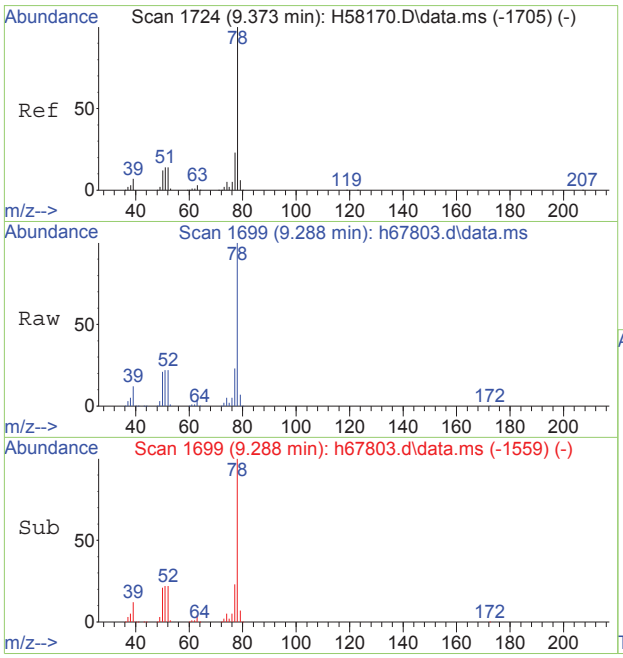
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67803.d
Acq On : 28 Jul 2014 8:46 pm
Operator : amym
Sample : mc32216-3
Misc : ms32359,msh2253,,,,5,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 11:00:26 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

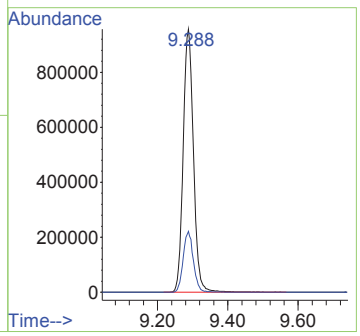




#2
benzene
Concen: 172.37 ug/L
RT: 9.288 min Scan# 1699
Delta R.T. 0.003 min
Lab File: h67803.d
Acq: 28 Jul 2014 8:46 pm

Tgt Ion: 78 Resp: 1939729

Ion	Ratio	Lower	Upper
78	100		
77	23.1	0.0	53.7



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

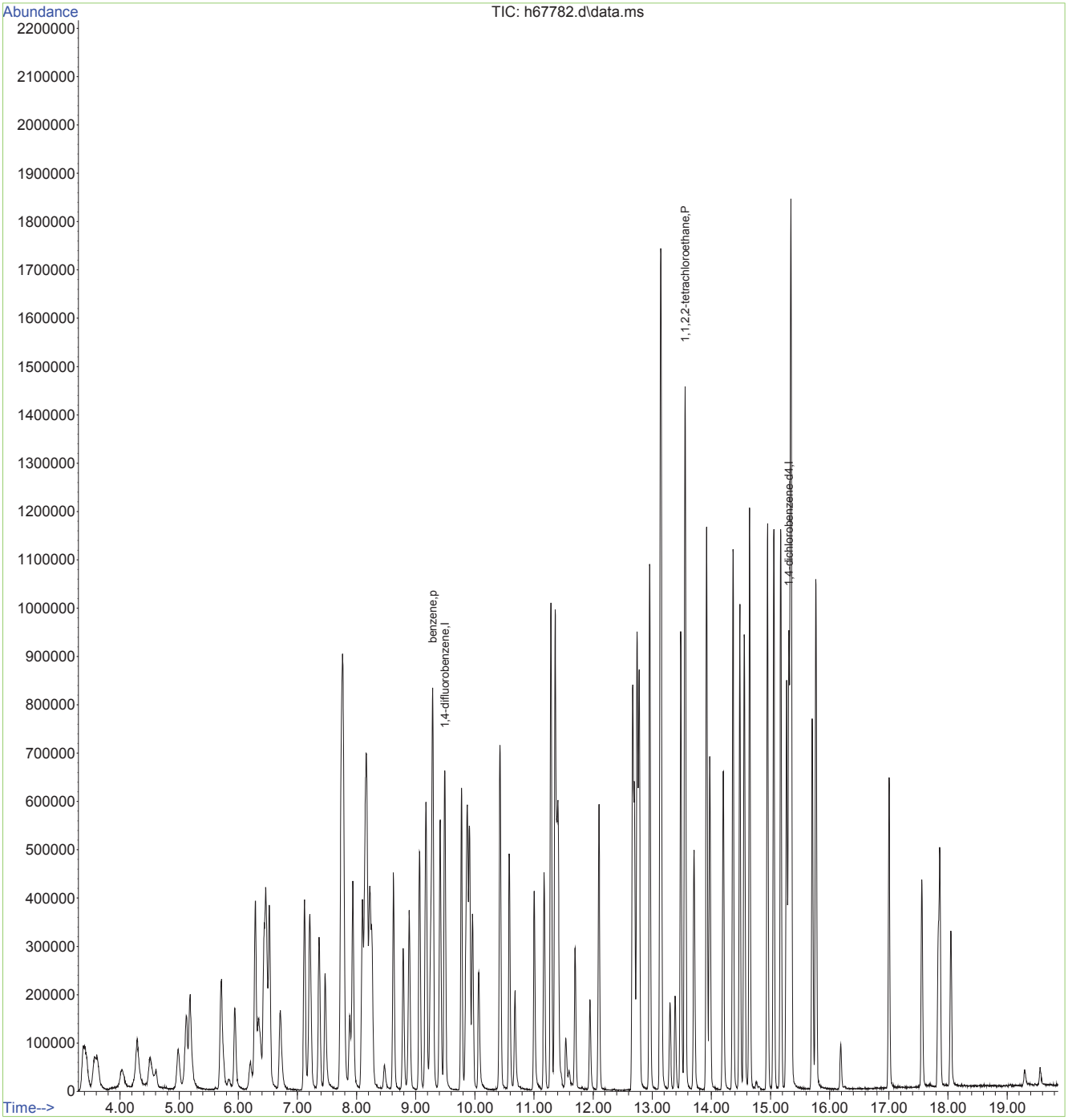
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.495	114	538287	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	228719	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.286	78	686933	51.41	ug/L	97
4) 1,1,2,2-tetrachloroethane	13.556	83	193097	54.23	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67782.d
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:59:45 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	471219	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.313	152	150694	50.00	ug/L	0.00

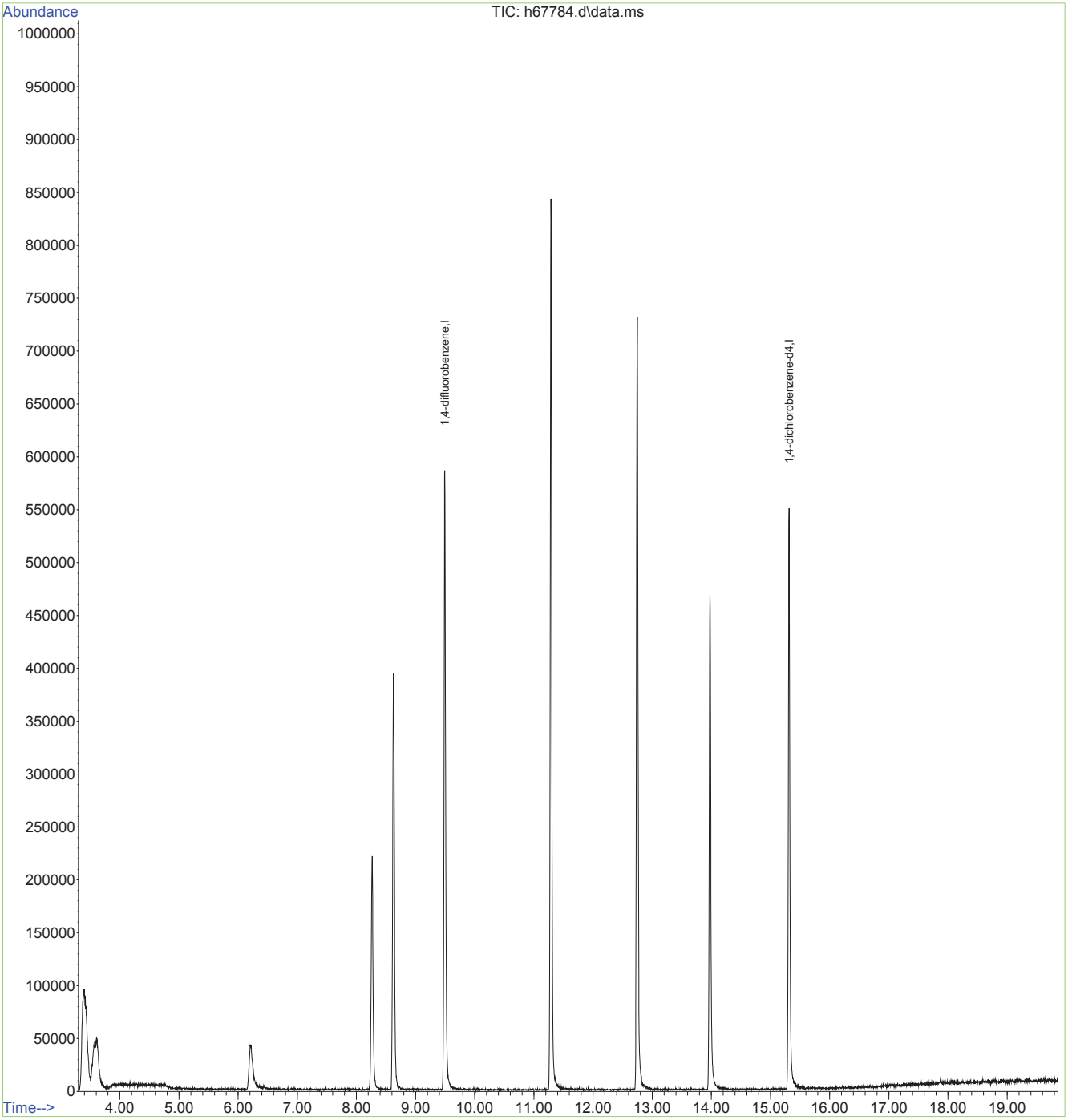
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67784.d
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:59:47 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

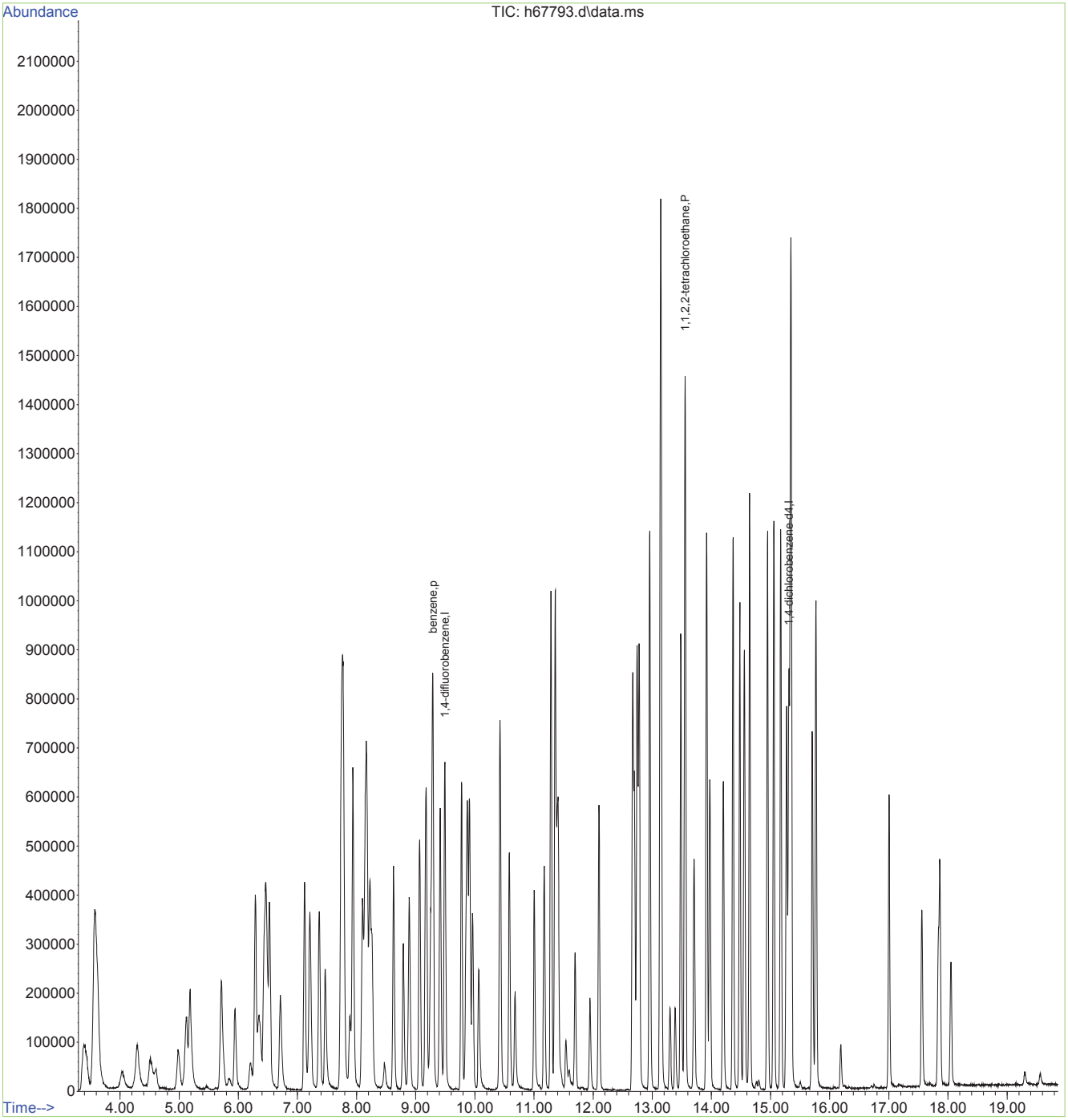
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.494	114	532448	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.310	152	204387	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.290	78	713448	53.98	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.556	83	189943	59.95	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67793.d
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 11:00:05 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration

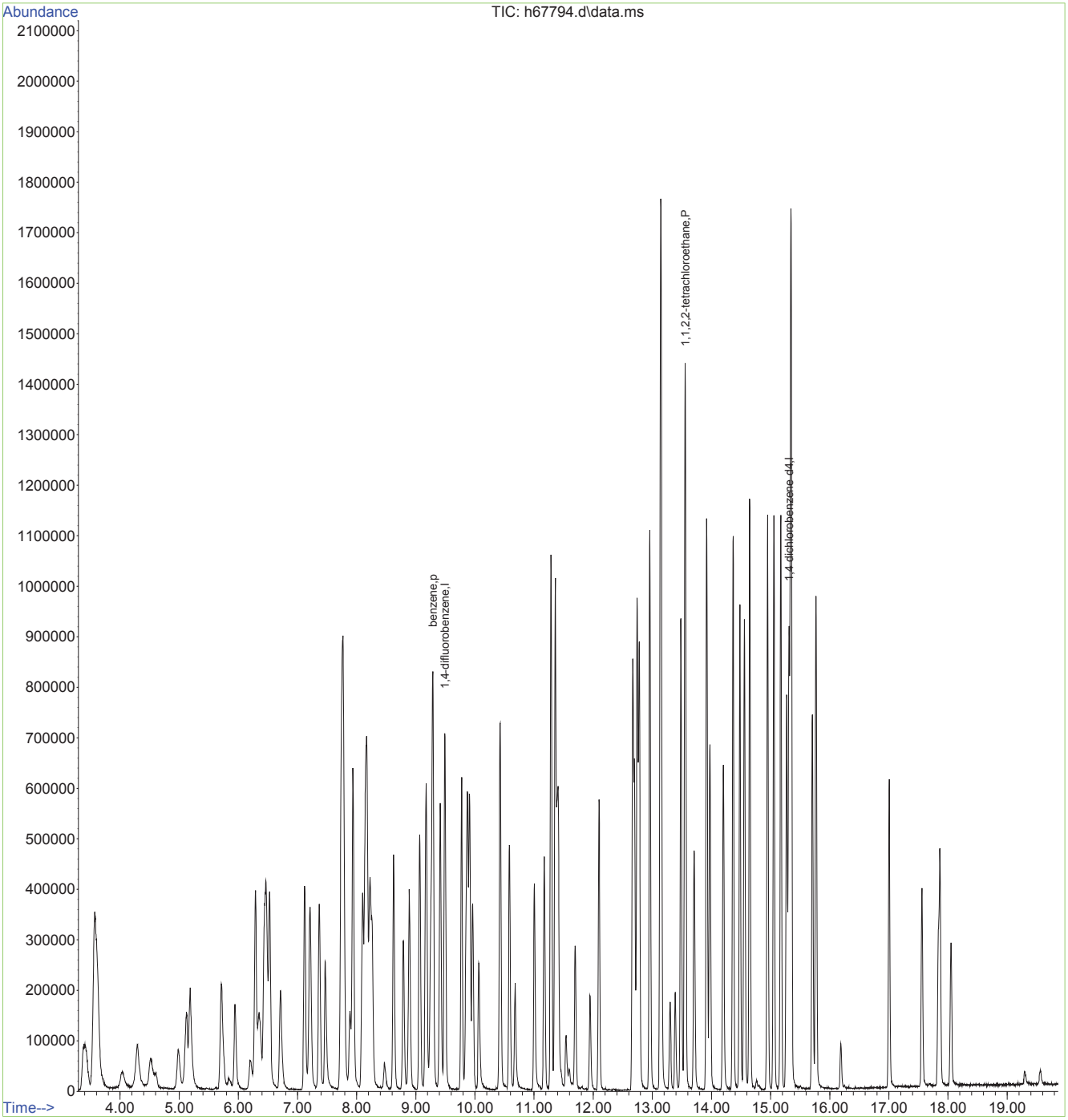
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-difluorobenzene	9.490	114	568755	50.00	ug/L	0.00
3) 1,4-dichlorobenzene-d4	15.312	152	221552	50.00	ug/L	0.00
Target Compounds						Qvalue
2) benzene	9.288	78	702151	49.73	ug/L	98
4) 1,1,2,2-tetrachloroethane	13.558	83	191310	55.52	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\msh\1\old data\140728\
Data File : h67794.d
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 11:00:07 2015
Quant Method : O:\msh\1\methods\h140716wx.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Oct 19 11:28:37 2015
Response via : Initial Calibration



Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32216

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32216-1 Collected: 17-JUL-14 11:55 By: DHCW P93D-ROX-071714			Received: 18-JUL-14 By:			
MC32216-1	SW846 8260C	24-JUL-14 18:20	AMY			V8260SL+
MC32216-1	SW846 8011	24-JUL-14 23:59	NK	22-JUL-14	MEW	V8011SL
MC32216-1	SW846 8260C	28-JUL-14 17:56	AMY			V8260SL+
MC32216-1	SW846 8270D BY SIM	30-JUL-14 11:32	MR	19-JUL-14	FC	B8270SIMPAH
MC32216-1	SW846 8270D	31-JUL-14 13:14	WK	19-JUL-14	FC	AB8270SL+
MC32216-2 Collected: 17-JUL-14 14:35 By: DHCW P93C-ROX-071714			Received: 18-JUL-14 By:			
MC32216-2	SW846 8260C	24-JUL-14 18:46	AMY			V8260SL+
MC32216-2	SW846 8011	25-JUL-14 00:19	NK	22-JUL-14	MEW	V8011SL
MC32216-2	SW846 8260C	28-JUL-14 20:18	AMY			V8260SL+
MC32216-2	SW846 8270D BY SIM	30-JUL-14 11:55	MR	19-JUL-14	FC	B8270SIMPAH
MC32216-2	SW846 8270D	31-JUL-14 13:38	WK	19-JUL-14	FC	AB8270SL+
MC32216-3 Collected: 17-JUL-14 15:50 By: DHCW P93B-ROX-071714			Received: 18-JUL-14 By:			
MC32216-3	SW846 8260C	24-JUL-14 19:11	AMY			V8260SL+
MC32216-3	SW846 8011	25-JUL-14 00:38	NK	22-JUL-14	MEW	V8011SL
MC32216-3	SW846 8260C	28-JUL-14 20:46	AMY			V8260SL+
MC32216-3	SW846 8270D BY SIM	30-JUL-14 12:18	MR	19-JUL-14	FC	B8270SIMPAH
MC32216-3	SW846 8270D	31-JUL-14 14:01	WK	19-JUL-14	FC	AB8270SL+
MC32216-4 Collected: 17-JUL-14 00:00 By: DHCW TB-071714-HCL			Received: 18-JUL-14 By:			
MC32216-4	SW846 8260C	24-JUL-14 13:32	AMY			V8260SL+
MC32216-5 Collected: 17-JUL-14 00:00 By: DHCW TB-071714-ST			Received: 18-JUL-14 By:			
MC32216-5	SW846 8011	25-JUL-14 00:57	NK	22-JUL-14	MEW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/18/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32216-1.2	Walk In Ref #22	Alireza Zeighami	07/19/14 15:21	Retrieve from Storage
MC32216-1.2	Alireza Zeighami	Walk In Ref #22	07/19/14 15:54	Return to Storage
MC32216-1.2	Walk In Ref #22	Michael DiBuono	07/19/14 17:30	Retrieve from Storage
MC32216-1.2	Scott Parsick		09/25/14 16:09	Disposed
MC32216-1.3	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32216-1.3	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32216-1.3	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32216-1.3	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32216-1.3	Scott Parsick		09/25/14 16:09	Disposed
MC32216-1.4	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32216-1.4	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32216-1.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32216-1.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32216-1.4	Scott Parsick		09/25/14 16:09	Disposed
MC32216-1.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32216-1.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32216-2.2	Walk In Ref #22	Alireza Zeighami	07/19/14 15:21	Retrieve from Storage
MC32216-2.2	Alireza Zeighami	Walk In Ref #22	07/19/14 15:54	Return to Storage
MC32216-2.2	Walk In Ref #22	Michael DiBuono	07/19/14 17:30	Retrieve from Storage
MC32216-2.2	Scott Parsick		09/25/14 16:09	Disposed
MC32216-2.3	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32216-2.3	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32216-2.3	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32216-2.3	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32216-2.3	Scott Parsick		09/25/14 16:09	Disposed
MC32216-2.4	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32216-2.4	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32216-2.4	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32216-2.4	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32216-2.4	Scott Parsick		09/25/14 16:09	Disposed
MC32216-2.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32216-2.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32216-3.2	Walk In Ref #22	Alireza Zeighami	07/19/14 15:21	Retrieve from Storage
MC32216-3.2	Alireza Zeighami	Walk In Ref #22	07/19/14 15:54	Return to Storage
MC32216-3.2	Walk In Ref #22	Michael DiBuono	07/19/14 17:30	Retrieve from Storage
MC32216-3.2	Scott Parsick		09/25/14 16:09	Disposed

SGS Accutest Internal Chain of Custody

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/18/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32216-3.3	VOC Ref #4	Amy Min Yang	07/28/14 12:47	Retrieve from Storage
MC32216-3.3	Amy Min Yang	GCMSH	07/28/14 12:47	Load on Instrument
MC32216-3.3	GCMSH	Amy Min Yang	07/29/14 11:03	Unload from Instrument
MC32216-3.3	Amy Min Yang	VOC Ref #4	07/29/14 11:03	Return to Storage
MC32216-3.3	Scott Parsick		09/25/14 16:09	Disposed
MC32216-3.4	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32216-3.4	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32216-3.4	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32216-3.4	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32216-3.4	Scott Parsick		09/25/14 16:09	Disposed
MC32216-3.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32216-3.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32216-4.1	VOC Ref #4	Amy Min Yang	07/24/14 11:37	Retrieve from Storage
MC32216-4.1	Amy Min Yang	GCMSV	07/24/14 11:37	Load on Instrument
MC32216-4.1	GCMSV	Amy Min Yang	08/06/14 10:14	Unload from Instrument
MC32216-4.1	Amy Min Yang	VOC Ref #4	08/06/14 10:14	Return to Storage
MC32216-4.1	Scott Parsick		09/25/14 16:09	Disposed
MC32216-5.1	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32216-5.1	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-MB	V33185.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	70-130%
2037-26-5	Toluene-D8	87%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-MB	H67784.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.32	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.4	87	70-130
107-02-8	Acrolein	250	302	121	70-130
107-13-1	Acrylonitrile	50	66.6	133* [a]	70-130
71-43-2	Benzene	50	54.4	109	70-130
108-86-1	Bromobenzene	50	50.2	100	70-130
74-97-5	Bromochloromethane	50	53.0	106	70-130
75-27-4	Bromodichloromethane	50	54.1	108	70-130
75-25-2	Bromoform	50	49.8	100	70-130
74-83-9	Bromomethane	50	96.7	193* [b]	70-130
78-93-3	2-Butanone (MEK)	50	40.4	81	70-130
104-51-8	n-Butylbenzene	50	54.7	109	70-130
135-98-8	sec-Butylbenzene	50	58.1	116	70-130
98-06-6	tert-Butylbenzene	50	51.8	104	70-130
75-15-0	Carbon disulfide	50	60.0	120	70-130
56-23-5	Carbon tetrachloride	50	61.1	122	70-130
108-90-7	Chlorobenzene	50	50.3	101	70-130
75-00-3	Chloroethane	50	105	210* [b]	70-130
110-75-8	2-Chloroethyl vinyl ether	50	40.9	82	70-130
67-66-3	Chloroform	50	54.5	109	70-130
74-87-3	Chloromethane	50	94.7	189* [b]	70-130
95-49-8	o-Chlorotoluene	50	55.1	110	70-130
106-43-4	p-Chlorotoluene	50	55.4	111	70-130
124-48-1	Dibromochloromethane	50	47.7	95	70-130
95-50-1	1,2-Dichlorobenzene	50	51.2	102	70-130
541-73-1	1,3-Dichlorobenzene	50	51.4	103	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	55.8	112	70-130
75-34-3	1,1-Dichloroethane	50	64.4	129	70-130
107-06-2	1,2-Dichloroethane	50	57.1	114	70-130
75-35-4	1,1-Dichloroethene	50	67.4	135* [a]	70-130
156-59-2	cis-1,2-Dichloroethene	50	55.5	111	70-130
156-60-5	trans-1,2-Dichloroethene	50	65.4	131* [a]	70-130
78-87-5	1,2-Dichloropropane	50	50.6	101	70-130
142-28-9	1,3-Dichloropropane	50	50.2	100	70-130
594-20-7	2,2-Dichloropropane	50	64.4	129	70-130
563-58-6	1,1-Dichloropropene	50	55.5	111	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.9	110	70-130
10061-02-6	trans-1,3-Dichloropropene	50	61.0	122	70-130
123-91-1	1,4-Dioxane	250	273	109	70-130
97-63-2	Ethyl methacrylate	50	43.7	87	77-137
100-41-4	Ethylbenzene	50	52.8	106	70-130
87-68-3	Hexachlorobutadiene	50	44.8	90	70-130
591-78-6	2-Hexanone	50	40.0	80	70-130
98-82-8	Isopropylbenzene	50	57.5	115	70-130
99-87-6	p-Isopropyltoluene	50	55.9	112	70-130
1634-04-4	Methyl Tert Butyl Ether	50	65.9	132* [a]	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.0	116	70-130
74-95-3	Methylene bromide	50	51.2	102	70-130
75-09-2	Methylene chloride	50	65.6	131* [a]	70-130
91-20-3	Naphthalene	50	41.2	82	70-130
103-65-1	n-Propylbenzene	50	57.7	115	70-130
100-42-5	Styrene	50	49.7	99	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	51.8	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	54.1	108	70-130
127-18-4	Tetrachloroethene	50	47.9	96	70-130
108-88-3	Toluene	50	53.0	106	70-130
87-61-6	1,2,3-Trichlorobenzene	50	43.6	87	70-130
120-82-1	1,2,4-Trichlorobenzene	50	44.7	89	70-130
71-55-6	1,1,1-Trichloroethane	50	56.5	113	70-130
79-00-5	1,1,2-Trichloroethane	50	51.3	103	70-130
79-01-6	Trichloroethene	50	47.9	96	70-130
75-69-4	Trichlorofluoromethane	50	83.8	168* [b]	70-130
96-18-4	1,2,3-Trichloropropane	50	55.6	111	70-130
95-63-6	1,2,4-Trimethylbenzene	50	54.7	109	70-130
108-67-8	1,3,5-Trimethylbenzene	50	54.2	108	70-130
108-05-4	Vinyl Acetate	50	66.0	132* [b]	70-130
75-01-4	Vinyl chloride	50	87.0	174* [b]	70-130
	m,p-Xylene	100	102	102	70-130
95-47-6	o-Xylene	50	53.4	107	70-130
1330-20-7	Xylene (total)	150	156	104	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1225-BS	V33182.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-BS	H67782.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.4	103	70-130
78-87-5	1,2-Dichloropropane	50	58.9	118	70-130
100-41-4	Ethylbenzene	50	45.7	91	70-130
91-20-3	Naphthalene	50	37.7	75	70-130
95-63-6	1,2,4-Trimethylbenzene	50	46.7	93	70-130
	m,p-Xylene	100	91.0	91	70-130
95-47-6	o-Xylene	50	44.9	90	70-130
1330-20-7	Xylene (total)	150	136	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	298	119	250	304	122	2	70-130/30
107-02-8	Acrolein	ND		1250	1180	94	1250	1160	93	2	70-130/30
107-13-1	Acrylonitrile	ND		250	440	176* a	250	430	172* a	2	70-130/30
71-43-2	Benzene	5.8		250	772	306* a	250	518	205* a	39* b	70-130/30
108-86-1	Bromobenzene	ND		250	271	108	250	262	105	3	70-130/30
74-97-5	Bromochloromethane	ND		250	262	105	250	250	100	5	70-130/30
75-27-4	Bromodichloromethane	ND		250	256	102	250	249	100	3	70-130/30
75-25-2	Bromoform	ND		250	249	100	250	249	100	0	70-130/30
74-83-9	Bromomethane	ND		250	342	137* c	250	341	136* c	0	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	223	89	250	218	87	2	70-130/30
104-51-8	n-Butylbenzene	ND		250	302	121	250	296	118	2	70-130/30
135-98-8	sec-Butylbenzene	ND		250	314	126	250	303	121	4	70-130/30
98-06-6	tert-Butylbenzene	ND		250	290	116	250	279	112	4	70-130/30
75-15-0	Carbon disulfide	ND		250	311	124	250	303	121	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	280	112	250	284	114	1	70-130/30
108-90-7	Chlorobenzene	ND		250	251	100	250	242	97	4	70-130/30
75-00-3	Chloroethane	ND		250	345	138* c	250	346	138* c	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	18.7	7* a	250	ND	0* a	200* b	70-130/30
67-66-3	Chloroform	ND		250	266	106	250	259	104	3	70-130/30
74-87-3	Chloromethane	ND		250	333	133* c	250	327	131* c	2	70-130/30
95-49-8	o-Chlorotoluene	ND		250	298	119	250	291	116	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	295	118	250	286	114	3	70-130/30
124-48-1	Dibromochloromethane	ND		250	234	94	250	231	92	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	262	105	250	256	102	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	272	109	250	263	105	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	264	106	250	256	102	3	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	211	84	250	216	86	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	326	130	250	316	126	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	247	99	250	239	96	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	350	140* a	250	344	138* a	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	307	123	250	292	117	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	348	139* a	250	334	134* a	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	260	104	250	250	100	4	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	257	103	250	251	100	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	346	138* a	250	341	136* a	1	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	298	119	250	292	117	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Compound	MC32120-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	290	116	250	283	113	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	307	123	250	306	122	0	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1300	104	1250	1410	113	8	70-130/30
97-63-2	Ethyl methacrylate	ND		250	230	92	250	226	90	2	72-139/30
100-41-4	Ethylbenzene	8.0		250	285	111	250	277	108	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	234	94	250	234	94	0	70-130/30
591-78-6	2-Hexanone	ND		250	193	77	250	186	74	4	70-130/30
98-82-8	Isopropylbenzene	0.53	J	250	330	132* [a]	250	322	129	2	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	303	121	250	293	117	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	391	156* [a]	250	383	153* [a]	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	242	97	250	231	92	5	70-130/30
74-95-3	Methylene bromide	ND		250	238	95	250	229	92	4	70-130/30
75-09-2	Methylene chloride	ND		250	335	134* [a]	250	324	130	3	70-130/30
91-20-3	Naphthalene	4.5	J	250	214	84	250	224	88	5	70-130/30
103-65-1	n-Propylbenzene	0.98	J	250	308	123	250	299	119	3	70-130/30
100-42-5	Styrene	ND		250	257	103	250	251	100	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	251	100	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	282	113	250	276	110	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	249	100	250	240	96	4	70-130/30
108-88-3	Toluene	2.4		250	255	101	250	249	99	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	204	82	250	216	86	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	233	93	250	235	94	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	286	114	250	284	114	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	228	91	250	223	89	2	70-130/30
79-01-6	Trichloroethene	ND		250	253	101	250	243	97	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	304	122	250	303	121	0	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	291	116	250	286	114	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	13.2		250	309	118	250	301	115	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	3.2	J	250	305	121	250	296	117	3	70-130/30
108-05-4	Vinyl Acetate	ND		250	298	119	250	288	115	3	70-130/30
75-01-4	Vinyl chloride	ND		250	348	139* [c]	250	343	137* [c]	1	70-130/30
	m,p-Xylene	37.1		500	577	108	500	561	105	3	70-130/30
95-47-6	o-Xylene	4.1		250	289	114	250	282	111	2	70-130/30
1330-20-7	Xylene (total)	41.2		750	866	110	750	843	107	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32120-1MS	V33203.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1MSD	V33204.D	5	07/24/14	AMY	n/a	n/a	MSV1225
MC32120-1	V33192.D	1	07/24/14	AMY	n/a	n/a	MSV1225

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

MC32216-1, MC32216-2, MC32216-3, MC32216-4

CAS No.	Surrogate Recoveries	MS	MSD	MC32120-1	Limits
1868-53-7	Dibromofluoromethane	91%	90%	92%	70-130%
2037-26-5	Toluene-D8	88%	90%	90%	70-130%
460-00-4	4-Bromofluorobenzene	101%	100%	104%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32345-12MS	H67793.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12MSD	H67794.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253

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

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	MC32345-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		250	270	108	250	249	100	8	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	298	119	250	286	114	4	70-130/30
100-41-4	Ethylbenzene	ND		250	245	98	250	225	90	9	70-130/30
91-20-3	Naphthalene	ND		250	191	76	250	180	72	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	262	105	250	238	95	10	70-130/30
	m,p-Xylene	ND		500	484	97	500	447	89	8	70-130/30
95-47-6	o-Xylene	ND		250	232	93	250	219	88	6	70-130/30
1330-20-7	Xylene (total)	ND		750	715	95	750	666	89	7	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32345-12	Limits
1868-53-7	Dibromofluoromethane	107%	114%	108%	70-130%
2037-26-5	Toluene-D8	108%	107%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	107%	70-130%

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSH2253-CC2244	**Injection Date:**	07/28/14
Lab File ID:	H67780.D	**Injection Time:**	09:00
Instrument ID:	GCMSH	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	294744	8.63	533886	9.49	300348	12.74	228339	15.31	88843	6.20
Upper Limit [a]	589488	9.13	1067772	9.99	600696	13.24	456678	15.81	177686	6.70
Lower Limit [b]	147372	8.13	266943	8.99	150174	12.24	114170	14.81	44422	5.70
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
MSH2253-BS	304899	8.62	538287	9.49	306658	12.74	228719	15.31	98152	6.21
MSH2253-MB	268663	8.63	471219	9.49	241486	12.75	150694	15.31	87001	6.21
ZZZZZZ	263063	8.63	456580	9.49	233001	12.74	144603	15.31	71804	6.21
ZZZZZZ	256418	8.63	445302	9.49	228171	12.74	141249	15.31	70439	6.21
MC32345-12	250548	8.63	427504	9.49	216846	12.75	137196	15.31	71833	6.22
ZZZZZZ	247608	8.62	418374	9.49	214691	12.75	137103	15.31	68530	6.20
ZZZZZZ	235052	8.63	405529	9.49	205604	12.74	126043	15.31	63001	6.22
ZZZZZZ	231228	8.63	405038	9.49	206650	12.75	124575	15.31	66024	6.21
ZZZZZZ	226010	8.63	400472	9.49	205241	12.75	126553	15.32	63952	6.20
ZZZZZZ	258797	8.63	445865	9.49	247409	12.74	208672	15.31	78454	6.20
MC32345-12MS	304963	8.63	532448	9.49	300641	12.74	204387	15.31	97583	6.21
MC32345-12MSD	316084	8.63	568755	9.49	318944	12.74	221552	15.31	104569	6.21
ZZZZZZ	305107	8.63	534626	9.49	282536	12.75	184972	15.31	101011	6.21
ZZZZZZ	314570	8.63	553874	9.49	292164	12.75	180959	15.31	98536	6.20
ZZZZZZ	280176	8.63	493711	9.50	253542	12.75	170363	15.31	99390	6.21
ZZZZZZ	268637	8.63	460356	9.49	240619	12.75	174317	15.31	89117	6.20
MC32216-1	296253	8.63	521450	9.49	284156	12.74	188651	15.31	90455	6.21
ZZZZZZ	321131	8.62	564865	9.49	288165	12.75	180247	15.31	91478	6.20
ZZZZZZ	301271	8.63	546614	9.49	271938	12.74	167134	15.32	87769	6.22
ZZZZZZ	283169	8.63	513224	9.49	254033	12.75	154113	15.31	83025	6.21
ZZZZZZ	267237	8.62	493787	9.49	246333	12.75	152710	15.32	77929	6.20
MC32216-2	258034	8.63	455220	9.49	227742	12.74	139705	15.31	74985	6.20
MC32216-3	249145	8.63	453306	9.49	217177	12.75	138689	15.31	69432	6.21

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1225-CC1177	**Injection Date:**	07/24/14
Lab File ID:	V33182.D	**Injection Time:**	10:17
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
Upper Limit [a]	808062	7.07	1028070	8.25	395074	11.59	510726	13.80	173602	4.01
Lower Limit [b]	202016	6.07	257018	7.25	98769	10.59	127682	12.80	43401	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1225-BS	404031	6.57	514035	7.75	197537	11.09	255363	13.30	86801	3.51
MSV1225-MB	423518	6.57	566497	7.75	207436	11.09	205531	13.30	98754	3.51
ZZZZZZ	314218	6.57	438886	7.75	188813	11.09	192114	13.30	77336	3.52
ZZZZZZ	290479	6.57	404629	7.75	165759	11.09	174831	13.30	70296	3.51
ZZZZZZ	288880	6.57	411369	7.75	166077	11.09	174974	13.30	70249	3.52
MC32216-4	276747	6.57	389072	7.75	163374	11.09	175404	13.30	71119	3.52
MC32120-1	607385	6.57	785192	7.75	234551	11.09	264980	13.30	222818[c]	3.52
ZZZZZZ	486512	6.57	549775	7.75	250156	11.09	237478	13.30	144045	3.53
ZZZZZZ	1143587[d]	6.57	1377476[d]	7.75	498634[d]	11.09	799272[d]	13.30	468647[d]	3.54
ZZZZZZ	1136706[d]	6.58	2013116[d]	7.76	850560[d]	11.09	1163371[d]	13.30	414495[d]	3.54
ZZZZZZ	785543	6.57	1497250[d]	7.75	414808[d]	11.09	403343	13.30	234913[d]	3.53
ZZZZZZ	790139	6.65	2282079[d]	7.78	446668[d]	11.09	664914[d]	13.30	161146	3.54
ZZZZZZ	747101	6.81	2775199[d]	7.87	605272[d]	11.10	665352[d]	13.30	279915[d]	3.55
ZZZZZZ	699213	6.83	2878266[d]	7.87	658120[d]	11.10	714187[d]	13.30	263249[d]	3.55
MC32216-1	620812	6.57	964822	7.75	360517	11.09	339994	13.30	168558	3.51
MC32216-2	617075	6.57	1365612[d]	7.75	342437	11.09	326577	13.30	161394	3.52
MC32216-3	832590[d]	6.61	2311394[d]	7.77	436447[d]	11.09	367710	13.30	226087[d]	3.53
MC32120-1MS	755293	6.57	1031451[e]	7.75	345043	11.09	415260	13.30	199822[e]	3.51
MC32120-1MSD	725008	6.57	972624	7.75	331686	11.09	399515	13.30	192608[e]	3.51
ZZZZZZ	529363	6.56	745611	7.75	261178	11.08	274494	13.30	144217	3.51
ZZZZZZ	503161	6.57	712256	7.75	249186	11.08	266369	13.30	138063	3.51

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits. Target analytes not associated with this internal standard.
(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.
(e) Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Volatile Surrogate Recovery Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32216-1	H67797.D	103	108	109
MC32216-1	V33200.D	84	86	109
MC32216-2	H67802.D	104	104	111
MC32216-2	V33201.D	86	72	113
MC32216-3	H67803.D	104	101	108
MC32216-3	V33202.D	80	66* [a]	117
MC32216-4	V33189.D	125	95	112
MC32120-1MS	V33203.D	91	88	101
MC32120-1MSD	V33204.D	90	90	100
MC32345-12MS	H67793.D	107	108	102
MC32345-12MSD	H67794.D	114	107	101
MSH2253-BS	H67782.D	113	108	97
MSH2253-MB	H67784.D	106	107	109
MSV1225-BS	V33182.D	100	101	99
MSV1225-MB	V33185.D	114	87	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-MB	F75046.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.23	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-MB	F75046.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	40%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	83%	15-110%
4165-60-0	Nitrobenzene-d5	70%	30-130%
321-60-8	2-Fluorobiphenyl	68%	30-130%
1718-51-0	Terphenyl-d14	80%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39038-MB	I90931.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.048	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	75%	30-130%
321-60-8	2-Fluorobiphenyl	64%	30-130%
1718-51-0	Terphenyl-d14	69%	30-130%

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-BS	F75047.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	33.1	66	30-130
95-57-8	2-Chlorophenol	50	31.5	63	30-130
59-50-7	4-Chloro-3-methyl phenol	50	35.9	72	30-130
120-83-2	2,4-Dichlorophenol	50	36.3	73	30-130
105-67-9	2,4-Dimethylphenol	50	30.5	61	30-130
51-28-5	2,4-Dinitrophenol	50	30.7	61	30-130
534-52-1	4,6-Dinitro-o-cresol	50	34.7	69	30-130
95-48-7	2-Methylphenol	50	28.4	57	30-130
	3&4-Methylphenol	100	53.7	54	30-130
88-75-5	2-Nitrophenol	50	35.9	72	30-130
100-02-7	4-Nitrophenol	50	13.2	26* [a]	30-130
87-86-5	Pentachlorophenol	50	50.3	101	30-130
108-95-2	Phenol	50	14.1	28* [a]	30-130
95-95-4	2,4,5-Trichlorophenol	50	43.8	88	30-130
88-06-2	2,4,6-Trichlorophenol	50	40.7	81	30-130
62-53-3	Aniline	50	29.0	58	40-140
101-55-3	4-Bromophenyl phenyl ether	50	42.1	84	40-140
85-68-7	Butyl benzyl phthalate	50	45.7	91	40-140
100-51-6	Benzyl Alcohol	50	37.0	74	40-140
91-58-7	2-Chloronaphthalene	50	41.2	82	40-140
106-47-8	4-Chloroaniline	50	39.2	78	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	29.8	60	40-140
111-44-4	bis(2-Chloroethyl)ether	50	38.3	77	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	44.0	88	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	40.7	81	40-140
122-66-7	1,2-Diphenylhydrazine	50	40.5	81	40-140
121-14-2	2,4-Dinitrotoluene	50	44.2	88	40-140
606-20-2	2,6-Dinitrotoluene	50	38.7	77	40-140
91-94-1	3,3'-Dichlorobenzidine	50	48.6	97	40-140
132-64-9	Dibenzofuran	50	39.4	79	40-140
84-74-2	Di-n-butyl phthalate	50	43.3	87	40-140
117-84-0	Di-n-octyl phthalate	50	45.7	91	40-140
84-66-2	Diethyl phthalate	50	46.1	92	40-140
131-11-3	Dimethyl phthalate	50	45.6	91	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.9	90	40-140
118-74-1	Hexachlorobenzene	50	41.0	82	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-BS	F75047.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	12.2	24* [a]	40-140
67-72-1	Hexachloroethane	50	23.4	47	40-140
78-59-1	Isophorone	50	36.6	73	40-140
88-74-4	2-Nitroaniline	50	44.4	89	40-140
99-09-2	3-Nitroaniline	50	43.6	87	40-140
100-01-6	4-Nitroaniline	50	43.3	87	40-140
98-95-3	Nitrobenzene	50	34.5	69	40-140
62-75-9	n-Nitrosodimethylamine	50	23.5	47	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	42.5	85	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.5	77	40-140
110-86-1	Pyridine	50	22.7	45	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	15-110%
4165-62-2	Phenol-d5	28%	15-110%
118-79-6	2,4,6-Tribromophenol	86%	15-110%
4165-60-0	Nitrobenzene-d5	69%	30-130%
321-60-8	2-Fluorobiphenyl	73%	30-130%
1718-51-0	Terphenyl-d14	77%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39038-BS	I90932.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	35.1	70	40-140
208-96-8	Acenaphthylene	50	30.3	61	40-140
120-12-7	Anthracene	50	35.2	70	40-140
56-55-3	Benzo(a)anthracene	50	36.6	73	40-140
50-32-8	Benzo(a)pyrene	50	35.2	70	40-140
205-99-2	Benzo(b)fluoranthene	50	38.3	77	40-140
191-24-2	Benzo(g,h,i)perylene	50	39.0	78	40-140
207-08-9	Benzo(k)fluoranthene	50	33.3	67	40-140
218-01-9	Chrysene	50	33.9	68	40-140
53-70-3	Dibenzo(a,h)anthracene	50	37.7	75	40-140
206-44-0	Fluoranthene	50	32.4	65	40-140
86-73-7	Fluorene	50	35.0	70	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.2	76	40-140
90-12-0	1-Methylnaphthalene	50	32.2	64	40-140
91-57-6	2-Methylnaphthalene	50	32.5	65	40-140
85-01-8	Phenanthrene	50	35.9	72	40-140
129-00-0	Pyrene	50	31.6	63	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	75%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	69%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-MS	F75048.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
OP39037-MSD	F75049.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
MC32236-5	F75050.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	MC32236-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	23.1	46	50	29.8	60	25* [a]	30-130/20
95-57-8	2-Chlorophenol	ND		50	28.0	56	50	31.6	63	12	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	33.4	67	50	36.4	73	9	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	34.4	69	50	36.5	73	6	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	28.2	56	50	32.1	64	13	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	28.0	56	50	31.5	63	12	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	32.1	64	50	35.2	70	9	30-130/20
95-48-7	2-Methylphenol	ND		50	24.3	49	50	28.9	58	17	30-130/20
	3&4-Methylphenol	ND		100	44.2	44	100	53.0	53	18	30-130/20
88-75-5	2-Nitrophenol	ND		50	34.2	68	50	34.6	69	1	30-130/20
100-02-7	4-Nitrophenol	ND		50	8.5	17* [b]	50	13.4	27* [b]	45* [b]	30-130/20
87-86-5	Pentachlorophenol	ND		50	48.5	97	50	52.4	105	8	30-130/20
108-95-2	Phenol	ND		50	9.9	20* [b]	50	13.3	27* [b]	29* [b]	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	42.5	85	50	44.7	89	5	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	39.6	79	50	42.2	84	6	30-130/20
62-53-3	Aniline	ND		50	26.5	53	50	28.0	56	6	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	39.6	79	50	43.4	87	9	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	41.4	83	50	45.5	91	9	40-140/20
100-51-6	Benzyl Alcohol	ND		50	30.5	61	50	33.9	68	11	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	38.3	77	50	39.5	79	3	40-140/20
106-47-8	4-Chloroaniline	ND		50	37.5	75	50	37.6	75	0	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	27.8	56	50	29.5	59	6	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	35.7	71	50	38.7	77	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	41.9	84	50	44.5	89	6	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	37.6	75	50	40.6	81	8	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	38.9	78	50	41.6	83	7	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	40.1	80	50	44.4	89	10	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	36.3	73	50	38.9	78	7	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	46.1	92	50	48.0	96	4	40-140/20
132-64-9	Dibenzofuran	ND		50	37.0	74	50	39.5	79	7	40-140/20
84-74-2	Di-n-butyl phthalate	0.24	J	50	41.0	82	50	43.4	86	6	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	42.0	84	50	44.6	89	6	40-140/20
84-66-2	Diethyl phthalate	ND		50	43.1	86	50	47.1	94	9	40-140/20
131-11-3	Dimethyl phthalate	ND		50	42.1	84	50	45.5	91	8	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	41.5	83	50	45.0	90	8	40-140/20
118-74-1	Hexachlorobenzene	ND		50	39.4	79	50	42.1	84	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39037-MS	F75048.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
OP39037-MSD	F75049.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304
MC32236-5	F75050.D	1	07/31/14	WK	07/19/14	OP39037	MSF3304

The QC reported here applies to the following samples: Method: SW846 8270D

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	MC32236-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	11.2	22* [b]	50	10.1	20* [b]	10	40-140/20
67-72-1	Hexachloroethane	ND		50	22.4	45	50	21.6	43	4	40-140/20
78-59-1	Isophorone	ND		50	35.1	70	50	35.6	71	1	40-140/20
88-74-4	2-Nitroaniline	ND		50	41.0	82	50	43.8	88	7	40-140/20
99-09-2	3-Nitroaniline	ND		50	41.0	82	50	43.6	87	6	40-140/20
100-01-6	4-Nitroaniline	ND		50	39.2	78	50	43.1	86	9	40-140/20
98-95-3	Nitrobenzene	ND		50	32.3	65	50	33.4	67	3	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	19.6	39* [c]	50	23.0	46	16	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	39.3	79	50	42.2	84	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	36.0	72	50	38.7	77	7	40-140/20
110-86-1	Pyridine	ND		50	21.5	43	50	22.2	44	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-5	Limits
367-12-4	2-Fluorophenol	28%	36%	32%	15-110%
4165-62-2	Phenol-d5	19%	27%	23%	15-110%
118-79-6	2,4,6-Tribromophenol	75%	85%	75%	15-110%
4165-60-0	Nitrobenzene-d5	65%	68%	56%	30-130%
321-60-8	2-Fluorobiphenyl	68%	72%	55%	30-130%
1718-51-0	Terphenyl-d14	72%	79%	75%	30-130%

(a) High RPD due to possible matrix interference and/or sample heterogeneity.
(b) Outside control limits. Blank Spike meets program technical requirements.
(c) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39038-MS	I90933.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385
OP39038-MSD	I90934.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385
MC32236-6	I90935.D	1	07/30/14	MR	07/19/14	OP39038	MSI3385

The QC reported here applies to the following samples: Method: SW846 8270D BY SIM

MC32216-1, MC32216-2, MC32216-3

CAS No.	Compound	MC32236-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	33.5	67	50	34.9	70	4	40-140/20
208-96-8	Acenaphthylene	ND		50	29.0	58	50	30.2	60	4	40-140/20
120-12-7	Anthracene	ND		50	32.9	66	50	36.0	72	9	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	33.5	67	50	36.6	73	9	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	32.5	65	50	35.5	71	9	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	32.8	66	50	36.5	73	11	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	35.7	71	50	39.0	78	9	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	32.7	65	50	35.7	71	9	40-140/20
218-01-9	Chrysene	ND		50	31.1	62	50	34.2	68	9	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	34.5	69	50	37.7	75	9	40-140/20
206-44-0	Fluoranthene	ND		50	30.1	60	50	33.1	66	9	40-140/20
86-73-7	Fluorene	ND		50	34.0	68	50	36.9	74	8	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	34.8	70	50	38.1	76	9	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	30.8	62	50	30.7	61	0	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	31.3	63	50	30.7	61	2	40-140/20
85-01-8	Phenanthrene	0.022	J	50	33.9	68	50	37.1	74	9	40-140/20
129-00-0	Pyrene	ND		50	29.2	58	50	32.1	64	9	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-6	Limits
4165-60-0	Nitrobenzene-d5	69%	72%	63%	30-130%
321-60-8	2-Fluorobiphenyl	64%	66%	52%	30-130%
1718-51-0	Terphenyl-d14	64%	70%	65%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3304-CC3270	**Injection Date:**	07/31/14
Lab File ID:	F75041.D	**Injection Time:**	09:23
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	114945	3.08	424187	4.11	279093	5.60	519265	6.84	643214	9.13	590783	10.57
Upper Limit [a]	229890	3.58	848374	4.61	558186	6.10	1038530	7.34	1286428	9.63	1181566	11.07
Lower Limit [b]	57473	2.58	212094	3.61	139547	5.10	259633	6.34	321607	8.63	295392	10.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	116231	3.08	406906	4.11	264712	5.60	484980	6.84	543200	9.13	536029	10.56
ZZZZZZ	116621	3.08	422669	4.11	270579	5.60	512052	6.84	639125	9.13	641997	10.57
ZZZZZZ	128728	3.08	463504	4.11	300378	5.60	556933	6.84	663956	9.13	689720	10.57
ZZZZZZ	123687	3.08	440529	4.11	288430	5.60	542807	6.84	678180	9.14	723727	10.58
OP39037-MB	142970	3.08	517794	4.11	342675	5.60	645527	6.84	780155	9.13	805648	10.57
OP39037-BS	173227	3.08	616988	4.11	407127	5.60	769937	6.85	953209	9.14	935390	10.57
OP39037-MS	166331	3.08	592903	4.11	391561	5.60	722362	6.84	901640	9.14	876987	10.57
OP39037-MSD	136419	3.08	497061	4.11	321897	5.60	610608	6.84	756477	9.13	747861	10.57
MC32236-5	152784	3.08	550765	4.11	370035	5.60	689239	6.84	824039	9.13	845987	10.56
MC32216-1	138904	3.08	502637	4.11	336974	5.60	626633	6.84	751087	9.13	768452	10.56
MC32216-2	140734	3.08	514094	4.11	348862	5.60	648063	6.84	790098	9.13	821112	10.57
MC32216-3	141853	3.08	508193	4.11	333457	5.60	627757	6.84	752376	9.13	768941	10.57
OP39136-MB	136787	3.08	493374	4.11	331485	5.60	619768	6.84	754876	9.13	758408	10.56
OP39136-BS	148860	3.08	531987	4.11	355974	5.60	669084	6.84	822237	9.14	805243	10.57
OP39136-MS	150584	3.08	540233	4.11	356711	5.60	644601	6.84	818927	9.14	793606	10.57
OP39136-MSD	144655	3.08	524390	4.11	346918	5.60	655470	6.84	812319	9.13	795151	10.57
MC32300-2	142869	3.08	503943	4.11	334036	5.60	621932	6.84	723065	9.13	744747	10.56
ZZZZZZ	164320	3.09	574283	4.12	379593	5.64	742669	6.85	896832	9.14	948511	10.58
OP39144-LB	132549	3.08	479162	4.11	318361	5.59	591337	6.84	715997	9.13	758382	10.56
OP39144-MB	132549	3.08	479162	4.11	318361	5.59	591337	6.84	715997	9.13	758382	10.56
OP39144-BS	132296	3.08	477008	4.11	312615	5.60	583532	6.84	720939	9.13	736004	10.57
OP39144-MS	142326	3.08	506678	4.11	334273	5.60	616654	6.84	764476	9.13	774364	10.57
OP39144-MSD	150114	3.08	533070	4.11	348006	5.60	664945	6.84	831908	9.13	830082	10.57
MC32380-3	136260	3.08	483052	4.11	322091	5.60	599051	6.84	735157	9.13	761357	10.56
ZZZZZZ	134707	3.08	471776	4.11	312375	5.60	591704	6.84	719219	9.13	741754	10.56
ZZZZZZ	138585	3.08	487567	4.11	323207	5.60	608009	6.84	728801	9.13	763472	10.56
ZZZZZZ	130222	3.08	465187	4.11	306386	5.60	583888	6.84	704147	9.13	734290	10.56

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3304-CC3270	**Injection Date:**	07/31/14
Lab File ID:	F75041.D	**Injection Time:**	09:23
Instrument ID:	GCMSF	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3385-CC3320	**Injection Date:**	07/30/14
Lab File ID:	I90927.D	**Injection Time:**	08:04
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	366197	4.31	766702	5.37	390836	6.91	659326	8.32	417805	11.09	1127728	12.59
Upper Limit [a]	732394	4.81	1533404	5.87	781672	7.41	1318652	8.82	835610	11.59	2255456	13.09
Lower Limit [b]	183099	3.81	383351	4.87	195418	6.41	329663	7.82	208903	10.59	563864	12.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39142-MB	423753	4.31	888448	5.37	454690	6.91	768166	8.31	501548	11.09	1342668	12.60
OP39142-BS	415417	4.31	881136	5.37	445287	6.91	752951	8.32	483146	11.09	1291076	12.60
ZZZZZZ	418921	4.31	868869	5.37	439428	6.91	743663	8.32	481851	11.09	1311800	12.60
OP39038-MB	377379	4.31	792985	5.37	404800	6.91	682320	8.31	438726	11.09	1177052	12.59
OP39038-BS	419689	4.31	891340	5.37	453450	6.91	761734	8.32	489521	11.09	1300982	12.60
OP39038-MS	402617	4.31	854860	5.37	435153	6.91	731876	8.32	473011	11.09	1262035	12.60
OP39038-MSD	351938	4.31	749128	5.37	380858	6.91	638001	8.32	409032	11.09	1093892	12.60
MC32236-6	393546	4.31	833720	5.37	424407	6.91	716647	8.31	458109	11.09	1242417	12.59
MC32216-1	358303	4.31	755114	5.37	386750	6.91	651254	8.31	415934	11.09	1146008	12.59
MC32216-2	363592	4.31	768352	5.37	385928	6.91	648040	8.31	414998	11.09	1142713	12.59
MC32216-3	359463	4.31	747823	5.37	381772	6.91	639895	8.31	409097	11.09	1125122	12.60
OP39046-MB	367173	4.31	773778	5.37	394602	6.91	663643	8.31	426128	11.09	1157078	12.59
OP39046-BS	382647	4.31	810720	5.37	411715	6.91	690238	8.32	441297	11.09	1180085	12.60
OP39046-MS	411985	4.31	873253	5.37	442159	6.91	740460	8.32	481710	11.09	1282445	12.60
OP39046-MSD	406040	4.31	868448	5.37	437430	6.91	726394	8.32	466188	11.09	1240919	12.60
MC32236-8	329797	4.31	694934	5.37	355420	6.91	595720	8.31	379190	11.09	1026449	12.59
ZZZZZZ	385453	4.31	804421	5.37	410983	6.91	671119	8.32	425623	11.09	1155046	12.60
ZZZZZZ	398957	4.31	828157	5.37	421345	6.91	687529	8.32	430054	11.09	1161884	12.60
ZZZZZZ	372691	4.31	791493	5.37	394572	6.91	649723	8.32	402431	11.09	1092472	12.60
ZZZZZZ	398386	4.31	833173	5.37	412672	6.91	665692	8.32	413842	11.09	1114420	12.60

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32216-1	F75051.D	34	24	78	62	62	77
MC32216-2	F75052.D	39	28	80	69	67	77
MC32216-3	F75053.D	37	26	80	67	69	76
OP39037-BS	F75047.D	38	28	86	69	73	77
OP39037-MB	F75046.D	40	28	83	70	68	80
OP39037-MS	F75048.D	28	19	75	65	68	72
OP39037-MSD	F75049.D	36	27	85	68	72	79

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32216-1	I90936.D	67	57	66
MC32216-2	I90937.D	75	64	67
MC32216-3	I90938.D	74	63	65
OP39038-BS	I90932.D	75	67	69
OP39038-MB	I90931.D	75	64	69
OP39038-MS	I90933.D	69	64	64
OP39038-MSD	I90934.D	72	66	70

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MB	BK39758.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32216-1, MC32216-2, MC32216-3, MC32216-5

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	111%	36-173%
460-00-4	Bromofluorobenzene (S)	109%	36-173%

Blank Spike Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-BS	BK39759.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32216-1, MC32216-2, MC32216-3, MC32216-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.11	78	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	127%	36-173%
460-00-4	Bromofluorobenzene (S)	118%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MS	BK39760.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
OP39069-MSD	BK39761.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
MC32236-13	BK39762.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32216-1, MC32216-2, MC32216-3, MC32216-5

CAS No.	Compound	MC32236-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.142	0.10	71	0.142	0.10	71	0	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.142	0.11	78	0.142	0.11	78	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-13	Limits
460-00-4	Bromofluorobenzene (S)	130%	117%	121%	36-173%
460-00-4	Bromofluorobenzene (S)	120%	111%	116%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32216-1	BK39774.D	120	118
MC32216-2	BK39775.D	112	97
MC32216-3	BK39776.D	99	112
MC32216-5	BK39777.D	80	79
OP39069-BS	BK39759.D	127	118
OP39069-MB	BK39758.D	111	109
OP39069-MS	BK39760.D	130	120
OP39069-MSD	BK39761.D	117	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-ICC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39754.D	**Injection Time:**	17:33
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP39069-MB	BK39758.D	07/24/14	18:50	4.39	4.41
OP39069-BS	BK39759.D	07/24/14	19:10	4.39	4.41
OP39069-MS	BK39760.D	07/24/14	19:29	4.39	4.41
OP39069-MSD	BK39761.D	07/24/14	19:48	4.39	4.41
MC32236-13	BK39762.D	07/24/14	20:07	4.39	4.41
ZZZZZZ	BK39763.D	07/24/14	20:26	4.39	4.41
ZZZZZZ	BK39764.D	07/24/14	20:46	4.39	4.41
ZZZZZZ	BK39765.D	07/24/14	21:05	4.39	4.41
ZZZZZZ	BK39766.D	07/24/14	21:25	4.39	4.41
ZZZZZZ	BK39767.D	07/24/14	21:44	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32216
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-CC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39768.D	**Injection Time:**	22:03
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK39769.D	07/24/14	22:23	4.39	4.41
ZZZZZZ	BK39770.D	07/24/14	22:42	4.39	4.41
ZZZZZZ	BK39771.D	07/24/14	23:01	4.39	4.41
ZZZZZZ	BK39772.D	07/24/14	23:21	4.39	4.41
ZZZZZZ	BK39773.D	07/24/14	23:40	4.39	4.41
MC32216-1	BK39774.D	07/24/14	23:59	4.39	4.41
MC32216-2	BK39775.D	07/25/14	00:19	4.39	4.41
MC32216-3	BK39776.D	07/25/14	00:38	4.39	4.41
MC32216-5	BK39777.D	07/25/14	00:57	4.39	4.41
ZZZZZZ	BK39778.D	07/25/14	01:17	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

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Technical Report for

Shell Oil

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana,

21562973.03003

SGS Accutest Job Number: MC32243



Sampling Date: 07/18/14

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 90

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

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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SGS ACCUTEST

November 02, 2016

AECOM
1001 Highlands Plaza Drive West Suite 300
St. Louis, MO 63110

RE: SGS Accutest Job # MC32243

Dear Elizabeth Kunkel

As you are aware, SGS Accutest Inc. - Marlborough has been conducting an extensive review of data associated with some historical Gas Chromatography-Mass Spectroscopy volatiles analyses. As a result of this review it was determined that some revisions of the original test report for this job were needed. These corrections have been incorporated into the revised report.

Please be assured that corrective actions have been put in place to address this matter and prevent a recurrence.

We apologize for any inconvenience that this issue may have caused. Please don't hesitate to contact us if we can be of further assistance.

Sincerely,

H. (Brad) Madadian

Regional Laboratory Director
SGS Accutest Inc. - Marlborough

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Sample Summary

Shell Oil

Job No: MC32243

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Project No: 21562973.03003

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC32243-1	07/18/14	10:40	DHCW	07/19/14	AQ	Ground Water	P93A-ROX-071814
MC32243-2	07/18/14	10:40	DHCW	07/19/14	AQ	Ground Water	P93A-ROX-071814-DUP
MC32243-3	07/18/14	11:45	DHCW	07/19/14	AQ	Ground Water	P58-ROX-071814
MC32243-4	07/18/14	15:55	DHCW	07/19/14	AQ	Ground Water	P114-ROX-071814
MC32243-5	07/18/14	00:00	DHCW	07/19/14	AQ	Trip Blank Water	TB-ROX-071814-HCL
MC32243-6	07/18/14	00:00	DHCW	07/19/14	AQ	Trip Blank Water	TB-ROX-071814-ST

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O **Job No** MC32243

Site: URSMOSTL:Roxana 3Q 4 GW/ 2 562973 03003 900 South Centra **Report Date** /2/20 6 :33:3 PM

4 Samp e(s), 2 Tr p B ank(s) and 0 F e d B ank(s) were co ected on 07/ 8/20 4 and were rece ved at SGS Accutest New Eng and on 07/ 9/20 4 proper y preserved, at Deg C and ntact These Samp es rece ved a job number of MC32243 A st ng of the Laboratory Samp e ID, C ent Samp e ID and dates of co ect on are presented n the Resu ts Summary Sect on of th s repo t - Ch orohexane, Benzeneth o , D benz(a,h)acr d ne, Indene and Qu no ne were searched n the brary search and reported on y f detect ons were found

Except as noted be ow, a method spec f ed ca brat ons and qua ty contro performance cr ter a were met for th s job For more nformat on, p ease refer to QC summary pages

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSU957

- Samp e(s) MC32460-4MS, MC32460-4MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- The fo ow ng samp es were run outs de of ho d ng t me for method SW846 8260C: MC32243- , MC32243-2, MC32243-3, MC32243-4, MC32243-5
- Matr x Sp ke Dup cate Recovery(s) for ,4-D oxane are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for ,4-D oxane are outs de contro m ts for samp e MC32460-4MSD Probab e cause due to samp e homogene ty
- MSU957-BS for ,4-D oxane: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MC32243-4 for 4-Bromof uorobenzene: Outs de contro m ts Assoc ated target ana ytes are non-detect
- ,4-D oxane In t a ca brat on ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow

Matrix: AQ **Batch ID:** MSV 226

- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32242-2MS, MC32242-2MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a
- B ank Sp ke Recove y(s) for Carbon d su f de are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Butanone (MEK), 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, Carbon d su f de are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for 2-Ch oroethy v ny ether, 2-Hexanone, Acetone, Carbon d su f de are outs de contro m ts Probab e cause due to matr x nterference
- Acro e n, Tr ch orof uoromethane, D ch orod f uoromethane: Cont nu ng Ca brat on Ver f cat on outs de of acceptance cr ter a Samp e resu t may be b ased ow
- MC32242-2MS/MSD has nterna standards outs de contro m ts Outs de contro m ts due to poss b e matr x nterference

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39045

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32236-7MS, MC32236-7MSD were used as the QC samp es nd cated
- Samp e(s) MC32243- , MC32243-2, MC32243-3, MC32243-4 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank
- B ank Sp ke Recove y(s) for 2,4-D n tropheno , Benzo c Ac d, Hexach orocyc opentad ene are outs de contro m ts
- Matr x Sp ke Recovery(s) for Benzy A coho , Pyr d ne, Benzo c Ac d, Hexach orocyc opentad ene are outs de contro m ts Outs de contro m ts due to poss b e matr x nterference
- Matr x Sp ke Dup cate Recovery(s) for Benzo c Ac d, Benzy A coho , Hexach orocyc opentad ene, 2,4-D n tropheno are outs de contro m ts Probab e cause due to matr x nterference
- RPD(s) for MSD for 2,4-D n tropheno are outs de contro m ts for samp e OP39045-MSD Probab e cause due to samp e homogene ty

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39046

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32236-8MS, MC32236-8MSD were used as the QC samp es nd cated
- Samp e(s) MC32243- , MC32243-2, MC32243-4 have compound(s) reported w th a "B" qua f er, nd cat ng ana yte s found n the assoc ated method b ank

Volatiles by GC By Method SW846 8011

Matrix: AQ **Batch ID:** OP39069

- A samp es were extracted w th n the recommended method ho d ng t me
- A samp es were ana yzed w th n the recommended method ho d ng t me
- Samp e(s) MC32236- 3MS, MC32236- 3MSD were used as the QC samp es nd cated
- A method b anks for th s batch meet method spec f c cr ter a

SGS Accutest New Eng and ce t f es that a ana ys s were performed w th n method spec f cat on It s further recommended that th s report to be used n ts ent rety The Laborato y D rector for SGS Accutest New Eng and or ass gnee as ver f ed by the s gnature on the cover page has author zed the re ease of th s report(MC32243)

Summary of Hits

Job Number: MC32243
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/18/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32243-1	P93A-ROX-071814					
Benzene		170000	500	320	ug/l	SW846 8260C
Phenol		35.5	5.7	0.34	ug/l	SW846 8270D
Di-n-butyl phthalate		0.77 JB	5.7	0.20	ug/l	SW846 8270D
Diethyl phthalate		0.37 JB	5.7	0.23	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		4.1	2.3	0.38	ug/l	SW846 8270D
Nitrobenzene		5.9	5.7	0.44	ug/l	SW846 8270D
Acenaphthene		0.17	0.11	0.078	ug/l	SW846 8270D BY SIM
Fluorene		0.24	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		8.4	0.23	0.057	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		5.3	0.23	0.084	ug/l	SW846 8270D BY SIM
Phenanthrene		0.17 B	0.057	0.014	ug/l	SW846 8270D BY SIM
MC32243-2	P93A-ROX-071814-DUP					
Benzene		174000	500	320	ug/l	SW846 8260C
Phenol		39.6	5.7	0.35	ug/l	SW846 8270D
Di-n-butyl phthalate		0.41 JB	5.7	0.20	ug/l	SW846 8270D
Nitrobenzene		5.2 J	5.7	0.45	ug/l	SW846 8270D
Acenaphthene		0.16	0.11	0.079	ug/l	SW846 8270D BY SIM
Fluorene		0.25	0.11	0.11	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		9.5	0.23	0.057	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		6.2	0.23	0.085	ug/l	SW846 8270D BY SIM
Phenanthrene		0.17 B	0.057	0.014	ug/l	SW846 8270D BY SIM
MC32243-3	P58-ROX-071814					
Benzene		406000	1000	630	ug/l	SW846 8260C
3&4-Methylphenol		12.0	11	0.51	ug/l	SW846 8270D
Phenol		173	27	1.7	ug/l	SW846 8270D
Dibenzofuran		1.8 J	2.2	0.28	ug/l	SW846 8270D
Di-n-butyl phthalate		0.32 JB	5.5	0.19	ug/l	SW846 8270D
Acenaphthene		0.67	0.11	0.076	ug/l	SW846 8270D BY SIM
Acenaphthylene		0.21	0.11	0.054	ug/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.083	0.055	0.021	ug/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.086 J	0.11	0.032	ug/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.045 J	0.055	0.035	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.035 J	0.11	0.030	ug/l	SW846 8270D BY SIM
Chrysene		0.15	0.11	0.026	ug/l	SW846 8270D BY SIM
Fluoranthene		0.062 J	0.11	0.045	ug/l	SW846 8270D BY SIM
Fluorene		1.2	0.11	0.11	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.50	0.11	0.034	ug/l	SW846 8270D BY SIM
1-Methylnaphthalene		41.2	0.22	0.055	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		55.4	0.22	0.082	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: MC32243
Account: Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Collected: 07/18/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		0.92	0.055	0.014	ug/l	SW846 8270D BY SIM
Pyrene		0.22	0.11	0.042	ug/l	SW846 8270D BY SIM
MC32243-4	**P114-ROX-071814**					
Methyl Tert Butyl Ether		3.7	1.0	0.51	ug/l	SW846 8260C
Di-n-butyl phthalate		0.28 JB	5.1	0.18	ug/l	SW846 8270D
Acenaphthene		0.082 J	0.10	0.070	ug/l	SW846 8270D BY SIM
Phenanthrene		0.12 B	0.051	0.013	ug/l	SW846 8270D BY SIM
MC32243-5	**TB-ROX-071814-HCL**					
No hits reported in this sample.						
MC32243-6	**TB-ROX-071814-ST**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21545.D	500	08/04/14	AMY	n/a	n/a	MSU957
Run #2	V33468.D	1000	08/01/14	AMY	n/a	n/a	MSV1226

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND [a]	10000	2500	ug/l	
107-02-8	Acrolein [b]	ND [a]	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND [a]	5000	2100	ug/l	
71-43-2	Benzene	170000 [a]	500	320	ug/l	
108-86-1	Bromobenzene	ND [a]	5000	350	ug/l	
74-97-5	Bromochloromethane	ND [a]	5000	570	ug/l	
75-27-4	Bromodichloromethane	ND [a]	1000	340	ug/l	
75-25-2	Bromoform	ND [a]	1000	610	ug/l	
74-83-9	Bromomethane	ND [a]	2000	1800	ug/l	
78-93-3	2-Butanone (MEK)	ND [a]	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND [a]	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND [a]	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND [a]	5000	390	ug/l	
75-15-0	Carbon disulfide	ND [a]	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND [a]	1000	530	ug/l	
108-90-7	Chlorobenzene	ND [a]	1000	430	ug/l	
75-00-3	Chloroethane	ND [a]	2000	530	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	5000	3300	ug/l	
67-66-3	Chloroform	ND [a]	1000	410	ug/l	
74-87-3	Chloromethane	ND [a]	2000	1100	ug/l	
95-49-8	o-Chlorotoluene	ND [a]	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND [a]	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND [a]	1000	380	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [a]	1000	320	ug/l	
541-73-1	1,3-Dichlorobenzene	ND [a]	1000	560	ug/l	
106-46-7	1,4-Dichlorobenzene	ND [a]	1000	360	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND [a]	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND [a]	1000	360	ug/l	
107-06-2	1,2-Dichloroethane	ND [a]	1000	500	ug/l	
75-35-4	1,1-Dichloroethene	ND [a]	1000	610	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND [a]	1000	840	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND [a]	1000	510	ug/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:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND [a]	2000	500	ug/l	
142-28-9	1,3-Dichloropropane	ND [a]	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND [a]	5000	700	ug/l	
563-58-6	1,1-Dichloropropene	ND [a]	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND [a]	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND [a]	500	500	ug/l	
123-91-1	1,4-Dioxane [c]	ND	13000	5400	ug/l	
97-63-2	Ethyl methacrylate	ND [a]	5000	500	ug/l	
100-41-4	Ethylbenzene	ND [a]	1000	380	ug/l	
87-68-3	Hexachlorobutadiene	ND [a]	5000	1700	ug/l	
591-78-6	2-Hexanone	ND [a]	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND [a]	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND [a]	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND [a]	1000	510	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND [a]	5000	990	ug/l	
74-95-3	Methylene bromide	ND [a]	5000	520	ug/l	
75-09-2	Methylene chloride	ND [a]	2000	280	ug/l	
91-20-3	Naphthalene	ND [a]	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND [a]	5000	490	ug/l	
100-42-5	Styrene	ND [a]	5000	850	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]	500	400	ug/l	
127-18-4	Tetrachloroethene	ND [a]	1000	590	ug/l	
108-88-3	Toluene	ND [a]	1000	330	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	5000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND [a]	1000	460	ug/l	
79-00-5	1,1,2-Trichloroethane	ND [a]	1000	450	ug/l	
79-01-6	Trichloroethene	ND [a]	1000	470	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND [a]	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND [a]	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [a]	5000	320	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [a]	5000	380	ug/l	
108-05-4	Vinyl Acetate	ND [a]	5000	710	ug/l	
75-01-4	Vinyl chloride	ND [a]	1000	580	ug/l	
	m,p-Xylene	ND [a]	1000	930	ug/l	
95-47-6	o-Xylene	ND [a]	1000	360	ug/l	
1330-20-7	Xylene (total)	ND [a]	1000	360	ug/l	

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Report of Analysis

Client Sample ID:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%	98%	70-130%
2037-26-5	Toluene-D8	104%	96%	70-130%
460-00-4	4-Bromofluorobenzene	106%	106%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X04080.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.8	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.35	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.45	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.53	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	35.5	5.7	0.34	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.42	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.20	ug/l	
62-53-3	Aniline	ND	11	0.72	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.53	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.60	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.35	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.34	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.30	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.29	ug/l	
84-74-2	Di-n-butyl phthalate	0.77	5.7	0.20	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/l	

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Report of Analysis

Client Sample ID:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	0.37	5.7	0.23	ug/l	JB
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	4.1	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.34	ug/l	
78-59-1	Isophorone	ND	5.7	0.51	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.45	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	5.9	5.7	0.44	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.22	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	68%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90944.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.17	0.11	0.078	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.056	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.044	ug/l	
218-01-9	Chrysene	ND	0.11	0.027	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.036	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.046	ug/l	
86-73-7	Fluorene	0.24	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
90-12-0	1-Methylnaphthalene	8.4	0.23	0.057	ug/l	
91-57-6	2-Methylnaphthalene	5.3	0.23	0.084	ug/l	
85-01-8	Phenanthrene	0.17	0.057	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	60%		30-130%
1718-51-0	Terphenyl-d14	66%		30-130%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-071814		
Lab Sample ID:	MC32243-1	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39778.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0060	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		36-173%
460-00-4	Bromofluorobenzene (S)	97%		36-173%

ND = Not detected MDL = Method Detection Limit
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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:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21546.D	500	08/04/14	AMY	n/a	n/a	MSU957
Run #2	V33469.D	1000	08/01/14	AMY	n/a	n/a	MSV1226

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND [a]	10000	2500	ug/l	
107-02-8	Acrolein [b]	ND [a]	25000	6000	ug/l	
107-13-1	Acrylonitrile	ND [a]	5000	2100	ug/l	
71-43-2	Benzene	174000 [a]	500	320	ug/l	
108-86-1	Bromobenzene	ND [a]	5000	350	ug/l	
74-97-5	Bromochloromethane	ND [a]	5000	570	ug/l	
75-27-4	Bromodichloromethane	ND [a]	1000	340	ug/l	
75-25-2	Bromoform	ND [a]	1000	610	ug/l	
74-83-9	Bromomethane	ND [a]	2000	1800	ug/l	
78-93-3	2-Butanone (MEK)	ND [a]	5000	2500	ug/l	
104-51-8	n-Butylbenzene	ND [a]	5000	1100	ug/l	
135-98-8	sec-Butylbenzene	ND [a]	5000	420	ug/l	
98-06-6	tert-Butylbenzene	ND [a]	5000	390	ug/l	
75-15-0	Carbon disulfide	ND [a]	5000	460	ug/l	
56-23-5	Carbon tetrachloride	ND [a]	1000	530	ug/l	
108-90-7	Chlorobenzene	ND [a]	1000	430	ug/l	
75-00-3	Chloroethane	ND [a]	2000	530	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	5000	3300	ug/l	
67-66-3	Chloroform	ND [a]	1000	410	ug/l	
74-87-3	Chloromethane	ND [a]	2000	1100	ug/l	
95-49-8	o-Chlorotoluene	ND [a]	5000	380	ug/l	
106-43-4	p-Chlorotoluene	ND [a]	5000	450	ug/l	
124-48-1	Dibromochloromethane	ND [a]	1000	380	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [a]	1000	320	ug/l	
541-73-1	1,3-Dichlorobenzene	ND [a]	1000	560	ug/l	
106-46-7	1,4-Dichlorobenzene	ND [a]	1000	360	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND [a]	2000	710	ug/l	
75-34-3	1,1-Dichloroethane	ND [a]	1000	360	ug/l	
107-06-2	1,2-Dichloroethane	ND [a]	1000	500	ug/l	
75-35-4	1,1-Dichloroethene	ND [a]	1000	610	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND [a]	1000	840	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND [a]	1000	510	ug/l	

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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:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND [a]	2000	500	ug/l	
142-28-9	1,3-Dichloropropane	ND [a]	5000	890	ug/l	
594-20-7	2,2-Dichloropropane	ND [a]	5000	700	ug/l	
563-58-6	1,1-Dichloropropene	ND [a]	5000	470	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND [a]	500	420	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND [a]	500	500	ug/l	
123-91-1	1,4-Dioxane [c]	ND	13000	5400	ug/l	
97-63-2	Ethyl methacrylate	ND [a]	5000	500	ug/l	
100-41-4	Ethylbenzene	ND [a]	1000	380	ug/l	
87-68-3	Hexachlorobutadiene	ND [a]	5000	1700	ug/l	
591-78-6	2-Hexanone	ND [a]	5000	1600	ug/l	
98-82-8	Isopropylbenzene	ND [a]	5000	350	ug/l	
99-87-6	p-Isopropyltoluene	ND [a]	5000	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND [a]	1000	510	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND [a]	5000	990	ug/l	
74-95-3	Methylene bromide	ND [a]	5000	520	ug/l	
75-09-2	Methylene chloride	ND [a]	2000	280	ug/l	
91-20-3	Naphthalene	ND [a]	5000	690	ug/l	
103-65-1	n-Propylbenzene	ND [a]	5000	490	ug/l	
100-42-5	Styrene	ND [a]	5000	850	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]	1000	430	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]	500	400	ug/l	
127-18-4	Tetrachloroethene	ND [a]	1000	590	ug/l	
108-88-3	Toluene	ND [a]	1000	330	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	5000	680	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	5000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND [a]	1000	460	ug/l	
79-00-5	1,1,2-Trichloroethane	ND [a]	1000	450	ug/l	
79-01-6	Trichloroethene	ND [a]	1000	470	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND [a]	1000	550	ug/l	
96-18-4	1,2,3-Trichloropropane	ND [a]	5000	810	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [a]	5000	320	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [a]	5000	380	ug/l	
108-05-4	Vinyl Acetate	ND [a]	5000	710	ug/l	
75-01-4	Vinyl chloride	ND [a]	1000	580	ug/l	
	m,p-Xylene	ND [a]	1000	930	ug/l	
95-47-6	o-Xylene	ND [a]	1000	360	ug/l	
1330-20-7	Xylene (total)	ND [a]	1000	360	ug/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:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%	100%	70-130%
2037-26-5	Toluene-D8	104%	98%	70-130%
460-00-4	4-Bromofluorobenzene	107%	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X04081.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.9	ug/l	
95-57-8	2-Chlorophenol	ND	5.7	0.36	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.46	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.64	ug/l	
51-28-5	2,4-Dinitrophenol	ND	23	2.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.2	ug/l	
95-48-7	2-Methylphenol	ND	11	0.26	ug/l	
	3&4-Methylphenol	ND	11	0.54	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.3	ug/l	
100-02-7	4-Nitrophenol	ND	23	0.61	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.3	ug/l	
108-95-2	Phenol	39.6	5.7	0.35	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.43	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.20	ug/l	
62-53-3	Aniline	ND	11	0.73	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.7	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.7	0.61	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.6	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.7	0.36	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.64	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.7	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.7	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.7	0.38	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.7	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.7	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.52	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.35	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.7	0.31	ug/l	
132-64-9	Dibenzofuran	ND	2.3	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	0.41	5.7	0.20	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.7	0.32	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.7	0.23	ug/l	
131-11-3	Dimethyl phthalate	ND	5.7	0.39	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.3	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.7	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.5	ug/l	
67-72-1	Hexachloroethane	ND	5.7	0.35	ug/l	
78-59-1	Isophorone	ND	5.7	0.52	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.46	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.6	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.5	ug/l	
98-95-3	Nitrobenzene	5.2	5.7	0.45	ug/l	J
62-75-9	n-Nitrosodimethylamine	ND	5.7	1.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.7	0.46	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.7	0.22	ug/l	
110-86-1	Pyridine	ND	11	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	89%		15-110%
4165-60-0	Nitrobenzene-d5	81%		30-130%
321-60-8	2-Fluorobiphenyl	73%		30-130%
1718-51-0	Terphenyl-d14	85%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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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:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90945.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.16	0.11	0.079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.057	ug/l	
120-12-7	Anthracene	ND	0.11	0.11	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.022	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.033	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.031	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.044	ug/l	
218-01-9	Chrysene	ND	0.11	0.027	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.037	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.047	ug/l	
86-73-7	Fluorene	0.25	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.035	ug/l	
90-12-0	1-Methylnaphthalene	9.5	0.23	0.057	ug/l	
91-57-6	2-Methylnaphthalene	6.2	0.23	0.085	ug/l	
85-01-8	Phenanthrene	0.17	0.057	0.014	ug/l	B
129-00-0	Pyrene	ND	0.11	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P93A-ROX-071814-DUP		
Lab Sample ID:	MC32243-2	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39780.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	78%		36-173%
460-00-4	Bromofluorobenzene (S)	87%		36-173%

ND = Not detected MDL = Method Detection Limit
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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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21547.D	1000	08/04/14	AMY	n/a	n/a	MSU957
Run #2	V33470.D	2000	08/01/14	AMY	n/a	n/a	MSV1226

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND [a]	20000	5000	ug/l	
107-02-8	Acrolein [b]	ND [a]	50000	12000	ug/l	
107-13-1	Acrylonitrile	ND [a]	10000	4200	ug/l	
71-43-2	Benzene	406000 [a]	1000	630	ug/l	
108-86-1	Bromobenzene	ND [a]	10000	700	ug/l	
74-97-5	Bromochloromethane	ND [a]	10000	1100	ug/l	
75-27-4	Bromodichloromethane	ND [a]	2000	680	ug/l	
75-25-2	Bromoform	ND [a]	2000	1200	ug/l	
74-83-9	Bromomethane	ND [a]	4000	3500	ug/l	
78-93-3	2-Butanone (MEK)	ND [a]	10000	5000	ug/l	
104-51-8	n-Butylbenzene	ND [a]	10000	2200	ug/l	
135-98-8	sec-Butylbenzene	ND [a]	10000	840	ug/l	
98-06-6	tert-Butylbenzene	ND [a]	10000	780	ug/l	
75-15-0	Carbon disulfide	ND [a]	10000	920	ug/l	
56-23-5	Carbon tetrachloride	ND [a]	2000	1100	ug/l	
108-90-7	Chlorobenzene	ND [a]	2000	860	ug/l	
75-00-3	Chloroethane	ND [a]	4000	1100	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND [a]	10000	6600	ug/l	
67-66-3	Chloroform	ND [a]	2000	820	ug/l	
74-87-3	Chloromethane	ND [a]	4000	2100	ug/l	
95-49-8	o-Chlorotoluene	ND [a]	10000	760	ug/l	
106-43-4	p-Chlorotoluene	ND [a]	10000	900	ug/l	
124-48-1	Dibromochloromethane	ND [a]	2000	760	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [a]	2000	630	ug/l	
541-73-1	1,3-Dichlorobenzene	ND [a]	2000	1100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND [a]	2000	710	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND [a]	4000	1400	ug/l	
75-34-3	1,1-Dichloroethane	ND [a]	2000	720	ug/l	
107-06-2	1,2-Dichloroethane	ND [a]	2000	1000	ug/l	
75-35-4	1,1-Dichloroethene	ND [a]	2000	1200	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND [a]	2000	1700	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND [a]	2000	1000	ug/l	

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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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND [a]	4000	1000	ug/l	
142-28-9	1,3-Dichloropropane	ND [a]	10000	1800	ug/l	
594-20-7	2,2-Dichloropropane	ND [a]	10000	1400	ug/l	
563-58-6	1,1-Dichloropropene	ND [a]	10000	950	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND [a]	1000	840	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND [a]	1000	1000	ug/l	
123-91-1	1,4-Dioxane [c]	ND	25000	11000	ug/l	
97-63-2	Ethyl methacrylate	ND [a]	10000	1000	ug/l	
100-41-4	Ethylbenzene	ND [a]	2000	760	ug/l	
87-68-3	Hexachlorobutadiene	ND [a]	10000	3300	ug/l	
591-78-6	2-Hexanone	ND [a]	10000	3200	ug/l	
98-82-8	Isopropylbenzene	ND [a]	10000	700	ug/l	
99-87-6	p-Isopropyltoluene	ND [a]	10000	750	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND [a]	2000	1000	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND [a]	10000	2000	ug/l	
74-95-3	Methylene bromide	ND [a]	10000	1000	ug/l	
75-09-2	Methylene chloride	ND [a]	4000	560	ug/l	
91-20-3	Naphthalene	ND [a]	10000	1400	ug/l	
103-65-1	n-Propylbenzene	ND [a]	10000	980	ug/l	
100-42-5	Styrene	ND [a]	10000	1700	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND [a]	2000	870	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND [a]	1000	800	ug/l	
127-18-4	Tetrachloroethene	ND [a]	2000	1200	ug/l	
108-88-3	Toluene	ND [a]	2000	660	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND [a]	10000	1400	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	10000	1000	ug/l	
71-55-6	1,1,1-Trichloroethane	ND [a]	2000	930	ug/l	
79-00-5	1,1,2-Trichloroethane	ND [a]	2000	910	ug/l	
79-01-6	Trichloroethene	ND [a]	2000	940	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND [a]	2000	1100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND [a]	10000	1600	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND [a]	10000	640	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND [a]	10000	770	ug/l	
108-05-4	Vinyl Acetate	ND [a]	10000	1400	ug/l	
75-01-4	Vinyl chloride	ND [a]	2000	1200	ug/l	
	m,p-Xylene	ND [a]	2000	1900	ug/l	
95-47-6	o-Xylene	ND [a]	2000	730	ug/l	
1330-20-7	Xylene (total)	ND [a]	2000	730	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%	100%	70-130%
2037-26-5	Toluene-D8	113%	97%	70-130%
460-00-4	4-Bromofluorobenzene	113%	107%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Result is from Run# 2
(b) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X04082.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
Run #2	F75074.D	5	08/01/14	WK	07/21/14	OP39045	MSF3305

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2	910 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	11	2.7	ug/l	
95-57-8	2-Chlorophenol	ND	5.5	0.34	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.91	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.44	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	0.62	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	2.1	ug/l	
95-48-7	2-Methylphenol	ND	11	0.25	ug/l	
	3&4-Methylphenol	12.0	11	0.51	ug/l	
88-75-5	2-Nitrophenol	ND	11	3.2	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.2	ug/l	
108-95-2	Phenol	173 [a]	27	1.7	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.41	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.19	ug/l	
62-53-3	Aniline	ND	11	0.70	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.5	0.52	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.5	0.58	ug/l	
100-51-6	Benzyl Alcohol	ND	11	2.5	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.5	0.34	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.5	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.5	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.5	0.36	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.5	0.28	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.5	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.50	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.5	0.29	ug/l	
132-64-9	Dibenzofuran	1.8	2.2	0.28	ug/l	J
84-74-2	Di-n-butyl phthalate	0.32	5.5	0.19	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.5	0.31	ug/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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.5	0.22	ug/l	
131-11-3	Dimethyl phthalate	ND	5.5	0.37	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.37	ug/l	
118-74-1	Hexachlorobenzene	ND	5.5	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.5	0.33	ug/l	
78-59-1	Isophorone	ND	5.5	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.44	ug/l	
99-09-2	3-Nitroaniline	ND	11	1.5	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.4	ug/l	
98-95-3	Nitrobenzene	ND	5.5	0.43	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.5	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.5	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.21	ug/l	
110-86-1	Pyridine	ND	11	0.57	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%	43%	15-110%
4165-62-2	Phenol-d5	32%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	96%	83%	15-110%
4165-60-0	Nitrobenzene-d5	82%	69%	30-130%
321-60-8	2-Fluorobiphenyl	74%	73%	30-130%
1718-51-0	Terphenyl-d14	85%	82%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90946.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.67	0.11	0.076	ug/l	
208-96-8	Acenaphthylene	0.21	0.11	0.054	ug/l	
120-12-7	Anthracene	ND	0.11	0.10	ug/l	
56-55-3	Benzo(a)anthracene	0.083	0.055	0.021	ug/l	
50-32-8	Benzo(a)pyrene	0.086	0.11	0.032	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.045	0.055	0.035	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.035	0.11	0.030	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.042	ug/l	
218-01-9	Chrysene	0.15	0.11	0.026	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.035	ug/l	
206-44-0	Fluoranthene	0.062	0.11	0.045	ug/l	J
86-73-7	Fluorene	1.2	0.11	0.11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	0.11	0.034	ug/l	
90-12-0	1-Methylnaphthalene	41.2	0.22	0.055	ug/l	
91-57-6	2-Methylnaphthalene	55.4	0.22	0.082	ug/l	
85-01-8	Phenanthrene	0.92	0.055	0.014	ug/l	
129-00-0	Pyrene	0.22	0.11	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	65%		30-130%
1718-51-0	Terphenyl-d14	68%		30-130%

ND = Not detected MDL = Method Detection Limit
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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:	P58-ROX-071814		
Lab Sample ID:	MC32243-3	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39781.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.5 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		36-173%
460-00-4	Bromofluorobenzene (S)	91%		36-173%

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:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33467.D	1	08/01/14	AMY	n/a	n/a	MSV1226
Run #2	U21548.D	1	08/04/14	AMY	n/a	n/a	MSU957

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane [b]	ND [c]	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.7	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

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RL = Reporting Limit
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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:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	115%	70-130%
2037-26-5	Toluene-D8	99%	111%	70-130%
460-00-4	4-Bromofluorobenzene	108%	211% [d]	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) Result is from Run# 2
(d) Outside control limits. Associated target analytes are non-detect.

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:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X04083.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.6	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.32	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.84	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.57	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.48	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.55	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.1	0.31	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.38	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.65	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.48	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.54	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.57	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.36	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.34	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.26	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.31	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.28	5.1	0.18	ug/l	JB
117-84-0	Di-n-octyl phthalate	ND	5.1	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.35	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.34	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.31	ug/l	
78-59-1	Isophorone	ND	5.1	0.46	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.40	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.41	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.20	ug/l	
110-86-1	Pyridine	ND	10	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	93%		15-110%
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	87%		30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/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:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I90947.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.082	0.10	0.070	ug/l	J
208-96-8	Acenaphthylene	ND	0.10	0.051	ug/l	
120-12-7	Anthracene	ND	0.10	0.094	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.033	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.051	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.076	ug/l	
85-01-8	Phenanthrene	0.12	0.051	0.013	ug/l	B
129-00-0	Pyrene	ND	0.10	0.039	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	P114-ROX-071814		
Lab Sample ID:	MC32243-4	**Date Sampled:**	07/18/14
Matrix:	AQ - Ground Water	**Date Received:**	07/19/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39782.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.6 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0058	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0058	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	87%		36-173%
460-00-4	Bromofluorobenzene (S)	89%		36-173%

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:	TB-ROX-071814-HCL		
Lab Sample ID:	MC32243-5	**Date Sampled:**	07/18/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33461.D	1	08/01/14	AMY	n/a	n/a	MSV1226
Run #2	U21544.D	1	08/04/14	AMY	n/a	n/a	MSU957

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein [a]	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/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:	TB-ROX-071814-HCL		
Lab Sample ID:	MC32243-5	**Date Sampled:**	07/18/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
123-91-1	1,4-Dioxane [b]	ND [c]	25	11	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

ND = Not detected MDL = Method Detection Limit
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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:	TB-ROX-071814-HCL		
Lab Sample ID:	MC32243-5	**Date Sampled:**	07/18/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/19/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	121%	70-130%
2037-26-5	Toluene-D8	100%	105%	70-130%
460-00-4	4-Bromofluorobenzene	106%	108%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Continuing Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
(c) 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:	TB-ROX-071814-ST		
Lab Sample ID:	MC32243-6	**Date Sampled:**	07/18/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/19/14
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK39783.D	1	07/25/14	NK	07/22/14	OP39069	GBK1290
Run #2							

	Initial Volume	Final Volume
Run #1	36.3 ml	2.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.014	0.0059	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0059	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	81%		36-173%
460-00-4	Bromofluorobenzene (S)	85%		36-173%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

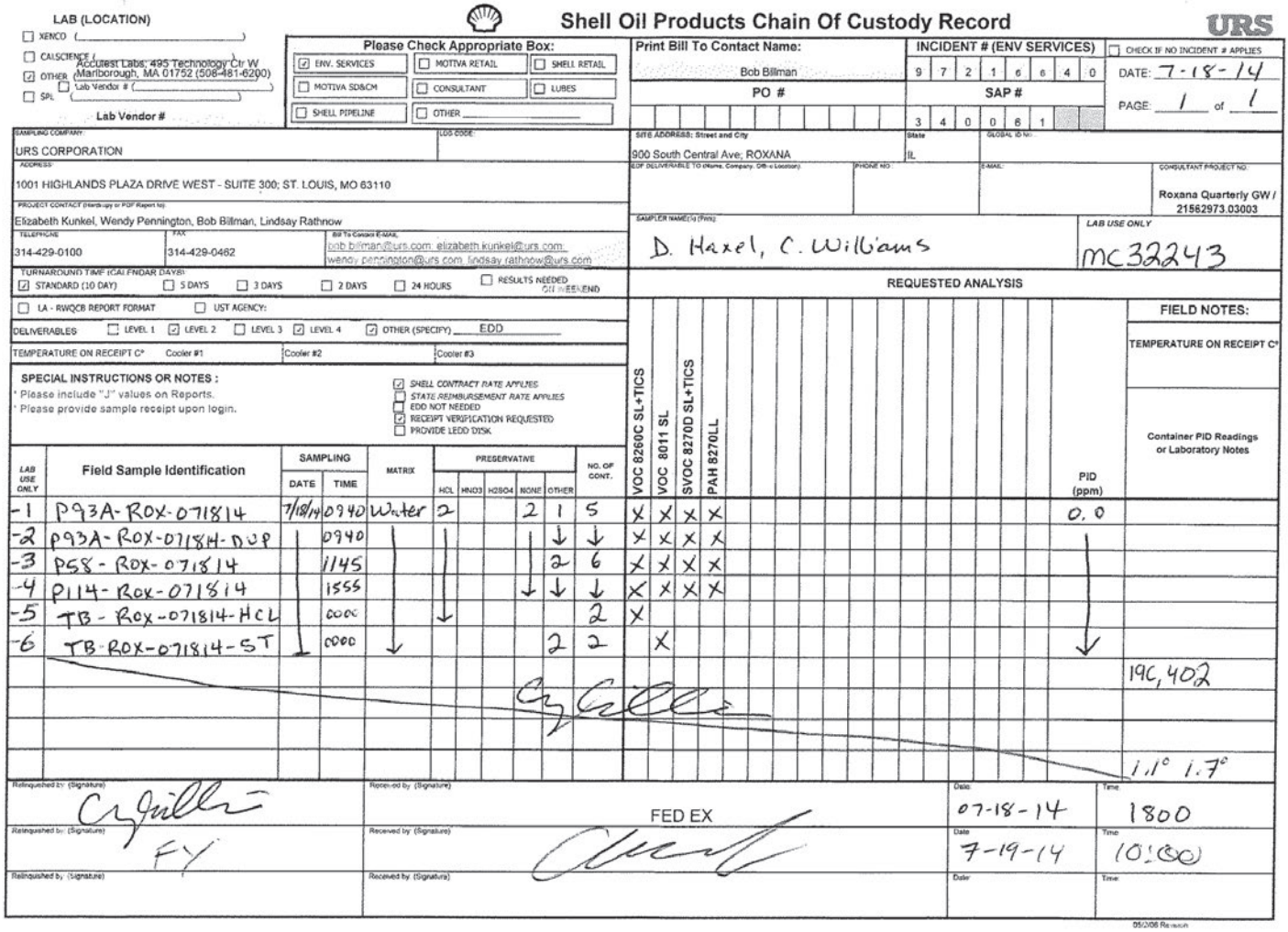
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



Shell Oil Products Chain Of Custody Record

URS

LAB (LOCATION)
☐ XENCO (_____)
☐ CALSCIENCE (_____)
☑ OTHER Accutest Labs: 495 Technology Ctr W (Marlborough, MA 01752 (508-481-6200)
☐ SPL ☐ Lab Vendor # (_____)
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Bob Billman
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 7-18-14
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
State: IL
GLOBAL ID No.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location):
PHONE NO.:
E-MAIL:
CONSULTANT PROJECT NO.: Roxana Quarterly GW / 21562973.03003
PROJECT CONTACT (Hardcopy or PDF Report to): Elizabeth Kunkel, Wendy Pennington, Bob Billman, Lindsay Rathnow
SAMPLER NAME(s) (Print): D. Haxel, C. Williams
LAB USE ONLY: MC32243
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: bob.billman@urs.com; elizabeth.kunkel@urs.com; wendy.pennington@urs.com; lindsay.rathnow@urs.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (10 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☑ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☑ OTHER (SPECIFY) EDD
TEMPERATURE ON RECEIPT C°: Cooler #1 | Cooler #2 | Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
* Please include "J" values on Reports.
* Please provide sample receipt upon login.
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED
☐ PROVIDE LEDD DISK

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260C SL+TICS	VOC 8011 SL	SVOC 8270D SL+TICS	PAH 8270LL	PID (ppm)	FIELD NOTES: Container PID Readings or Laboratory Notes
-1	P93A-ROX-071814	7/18/14	0940	Water	2			2	1	5	X	X	X	X	0.0	
-2	P93A-ROX-0718H-DUP		0940						↓	↓	X	X	X	X		
-3	P58-ROX-071814		1145						2	6	X	X	X	X		
-4	P114-ROX-071814		1555					↓	↓	↓	X	X	X	X		
-5	TB-ROX-071814-HCL		0000		↓					2	X					
-6	TB-ROX-071814-ST	↓	0000	↓					2	2		X			↓	
																190,402
																1.1° 1.7°

Relinquished by: (Signature)	Received by: (Signature) FED EX	Date: 07-18-14	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 7-19-14	Time: 10:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2008 Revision

5.1 5

MC32243: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32243 **Client:** URS **Immediate Client Services Action Required:** No

Date / Time Received: 7/19/2014 **Delivery Method:**

Project: 900 SOUTH CENTRAL **No. Coolers:** **Airbill #'s:**

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

Sample Integrity - Condition	Y	or	N
1. Sample rec'd 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 rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-1 and -2 times do not match the coc. -1, -2 both have 9:40 for time on the coc, but 10:40 on all of the sample labels

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

Sample Receipt Summary - Problem Resolution

Accutest Job Number: MC32243

CSR: mattm **Response Date:** 7/21/2014

Response: Client advised 10:40

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC32243: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32243

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Project No: 21562973.03003

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32243-1 Collected: 18-JUL-14 10:40 By: DHCW Received: 19-JUL-14 By: P93A-ROX-071814						
MC32243-1	SW846 8011	25-JUL-14 01:17	NK	22-JUL-14	MEW	V8011SL
MC32243-1	SW846 8270D BY SIM	30-JUL-14 14:35	MR	21-JUL-14	FC	B8270SIMPAH
MC32243-1	SW846 8270D	31-JUL-14 13:27	WK	21-JUL-14	FC	AB8270SL+
MC32243-1	SW846 8260C	01-AUG-14 22:14	AMY			V8260SL+
MC32243-1	SW846 8260C	04-AUG-14 17:09	AMY			V8260SL+
MC32243-2 Collected: 18-JUL-14 10:40 By: DHCW Received: 19-JUL-14 By: P93A-ROX-071814-DUP						
MC32243-2	SW846 8011	25-JUL-14 01:55	NK	22-JUL-14	MEW	V8011SL
MC32243-2	SW846 8270D BY SIM	30-JUL-14 14:59	MR	21-JUL-14	FC	B8270SIMPAH
MC32243-2	SW846 8270D	31-JUL-14 13:47	WK	21-JUL-14	FC	AB8270SL+
MC32243-2	SW846 8260C	01-AUG-14 22:41	AMY			V8260SL+
MC32243-2	SW846 8260C	04-AUG-14 17:37	AMY			V8260SL+
MC32243-3 Collected: 18-JUL-14 11:45 By: DHCW Received: 19-JUL-14 By: P58-ROX-071814						
MC32243-3	SW846 8011	25-JUL-14 02:14	NK	22-JUL-14	MEW	V8011SL
MC32243-3	SW846 8270D BY SIM	30-JUL-14 15:21	MR	21-JUL-14	FC	B8270SIMPAH
MC32243-3	SW846 8270D	31-JUL-14 14:08	WK	21-JUL-14	FC	AB8270SL+
MC32243-3	SW846 8270D	01-AUG-14 09:52	WK	21-JUL-14	FC	AB8270SL+
MC32243-3	SW846 8260C	01-AUG-14 23:07	AMY			V8260SL+
MC32243-3	SW846 8260C	04-AUG-14 18:05	AMY			V8260SL+
MC32243-4 Collected: 18-JUL-14 15:55 By: DHCW Received: 19-JUL-14 By: P114-ROX-071814						
MC32243-4	SW846 8011	25-JUL-14 02:33	NK	22-JUL-14	MEW	V8011SL
MC32243-4	SW846 8270D BY SIM	30-JUL-14 15:44	MR	21-JUL-14	FC	B8270SIMPAH
MC32243-4	SW846 8270D	31-JUL-14 14:28	WK	21-JUL-14	FC	AB8270SL+
MC32243-4	SW846 8260C	01-AUG-14 21:48	AMY			V8260SL+
MC32243-4	SW846 8260C	04-AUG-14 18:32	AMY			V8260SL+
MC32243-5 Collected: 18-JUL-14 00:00 By: DHCW Received: 19-JUL-14 By: TB-ROX-071814-HCL						

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC32243

URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Project No: 21562973.03003

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32243-5	SW846 8260C	01-AUG-14 19:11	AMY			V8260SL+
MC32243-5	SW846 8260C	04-AUG-14 16:42	AMY			V8260SL+
MC32243-6 Collected: 18-JUL-14 00:00 By: DHCW Received: 19-JUL-14 By: TB-ROX-071814-ST						
MC32243-6	SW846 8011	25-JUL-14 02:53	NK	22-JUL-14	MEW	V8011SL

SGS Accutest Internal Chain of Custody

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/19/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32243-1.2	Walk In Ref #22	Thomas Abruzzise	07/21/14 14:13	Retrieve from Storage
MC32243-1.2	Scott Parsick		09/25/14 16:09	Disposed
MC32243-1.3	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-1.3	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-1.3	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-1.3	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-1.3	Scott Parsick		09/25/14 16:09	Disposed
MC32243-1.4	VOC Ref #4	Gary Krasinski	07/31/14 15:32	Retrieve from Storage
MC32243-1.4	Gary Krasinski	GCMSL	07/31/14 15:32	Load on Instrument
MC32243-1.4	GCMSL	Gary Krasinski	07/31/14 16:05	Unload from Instrument
MC32243-1.4	Gary Krasinski	VOC Ref #4	07/31/14 16:06	Return to Storage
MC32243-1.4	VOC Ref #4	Gary Krasinski	08/04/14 15:54	Retrieve from Storage
MC32243-1.4	Gary Krasinski	GCMSU	08/04/14 15:54	Load on Instrument
MC32243-1.4	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32243-1.4	Gary Krasinski	VOC Ref #4	08/05/14 09:00	Return to Storage
MC32243-1.4	Scott Parsick		09/25/14 16:09	Disposed
MC32243-1.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32243-1.5	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32243-2.2	Walk In Ref #22	Thomas Abruzzise	07/21/14 14:13	Retrieve from Storage
MC32243-2.2	Scott Parsick		09/25/14 16:09	Disposed
MC32243-2.3	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-2.3	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-2.3	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-2.3	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-2.3	Scott Parsick		09/25/14 16:09	Disposed
MC32243-2.4	VOC Ref #4	Gary Krasinski	07/31/14 15:32	Retrieve from Storage
MC32243-2.4	Gary Krasinski	GCMSL	07/31/14 15:32	Load on Instrument
MC32243-2.4	GCMSL	Gary Krasinski	07/31/14 16:05	Unload from Instrument
MC32243-2.4	Gary Krasinski	VOC Ref #4	07/31/14 16:06	Return to Storage
MC32243-2.4	VOC Ref #4	Gary Krasinski	08/04/14 15:54	Retrieve from Storage
MC32243-2.4	Gary Krasinski	GCMSU	08/04/14 15:54	Load on Instrument
MC32243-2.4	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32243-2.4	Gary Krasinski	VOC Ref #4	08/05/14 09:00	Return to Storage
MC32243-2.4	Scott Parsick		09/25/14 16:09	Disposed
MC32243-2.5	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32243-2.5	Marc Tahtamoni		08/06/14 14:22	Depleted

SGS Accutest Internal Chain of Custody

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/19/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32243-3.2	Walk In Ref #22	Thomas Abruzzise	07/21/14 14:13	Retrieve from Storage
MC32243-3.2	Scott Parsick		09/25/14 16:09	Disposed
MC32243-3.3	VOC Ref #4	Gary Krasinski	07/31/14 15:32	Retrieve from Storage
MC32243-3.3	Gary Krasinski	GCMSL	07/31/14 15:32	Load on Instrument
MC32243-3.3	GCMSL	Gary Krasinski	07/31/14 16:05	Unload from Instrument
MC32243-3.3	Gary Krasinski	VOC Ref #4	07/31/14 16:06	Return to Storage
MC32243-3.3	VOC Ref #4	Gary Krasinski	08/04/14 15:54	Retrieve from Storage
MC32243-3.3	Gary Krasinski	GCMSU	08/04/14 15:54	Load on Instrument
MC32243-3.3	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32243-3.3	Gary Krasinski	VOC Ref #4	08/05/14 09:00	Return to Storage
MC32243-3.3	Scott Parsick		09/25/14 16:09	Disposed
MC32243-3.4	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-3.4	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-3.4	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-3.4	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-3.4	Scott Parsick		09/25/14 16:09	Disposed
MC32243-3.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32243-3.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32243-4.1	Walk In Ref #22	Thomas Abruzzise	07/21/14 14:13	Retrieve from Storage
MC32243-4.1	Scott Parsick		09/25/14 16:09	Disposed
MC32243-4.3	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-4.3	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-4.3	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-4.3	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-4.3	Scott Parsick		09/25/14 16:09	Disposed
MC32243-4.4	VOC Ref #4	Gary Krasinski	07/31/14 15:32	Retrieve from Storage
MC32243-4.4	Gary Krasinski	GCMSL	07/31/14 15:32	Load on Instrument
MC32243-4.4	GCMSL	Gary Krasinski	07/31/14 16:05	Unload from Instrument
MC32243-4.4	Gary Krasinski	VOC Ref #4	07/31/14 16:06	Return to Storage
MC32243-4.4	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-4.4	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-4.4	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-4.4	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-4.4	Scott Parsick		09/25/14 16:09	Disposed
MC32243-4.5	VOC Ref #4	Gary Krasinski	08/04/14 15:54	Retrieve from Storage
MC32243-4.5	Gary Krasinski	GCMSU	08/04/14 15:54	Load on Instrument
MC32243-4.5	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL
Received: 07/19/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32243-4.5	Gary Krasinski	VOC Ref #4	08/05/14 09:00	Return to Storage
MC32243-4.5	Scott Parsick		09/25/14 16:09	Disposed
MC32243-4.6	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32243-4.6	Marc Tahtamoni		08/06/14 14:22	Depleted
MC32243-5.1	VOC Ref #4	Amy Min Yang	08/01/14 17:50	Retrieve from Storage
MC32243-5.1	Amy Min Yang	GCMSV	08/01/14 17:50	Load on Instrument
MC32243-5.1	GCMSV	Amy Min Yang	08/04/14 17:12	Unload from Instrument
MC32243-5.1	Amy Min Yang	VOC Ref #4	08/04/14 17:12	Return to Storage
MC32243-5.1	Scott Parsick		09/25/14 16:09	Disposed
MC32243-5.2	VOC Ref #4	Gary Krasinski	08/04/14 15:54	Retrieve from Storage
MC32243-5.2	Gary Krasinski	GCMSU	08/04/14 15:54	Load on Instrument
MC32243-5.2	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32243-5.2	Gary Krasinski	VOC Ref #4	08/05/14 09:00	Return to Storage
MC32243-5.2	Scott Parsick		09/25/14 16:09	Disposed
MC32243-6.2	VOC Ref #4	Marc Tahtamoni	07/22/14 14:29	Retrieve from Storage
MC32243-6.2	Marc Tahtamoni		08/06/14 14:22	Depleted

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-MB	V33459.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
107-02-8	Acrolein	ND	25	6.0	ug/l	
107-13-1	Acrylonitrile	ND	5.0	2.1	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.35	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.42	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.39	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	3.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.45	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.89	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	0.70	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.47	ug/l	

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-MB	V33459.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.7	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.52	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	5.0	0.69	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.49	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.43	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.81	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.38	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	0.71	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
	m,p-Xylene	ND	1.0	0.93	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-MB	V33459.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-MB	U21532.D	1	08/04/14	AMY	n/a	n/a	MSU957

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	25	11	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	116%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	109%	70-130%

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-BS	V33457.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	41.2	82	70-130
107-02-8	Acrolein	250	188	75	70-130
107-13-1	Acrylonitrile	50	52.8	106	70-130
71-43-2	Benzene	50	51.6	103	70-130
108-86-1	Bromobenzene	50	52.1	104	70-130
74-97-5	Bromochloromethane	50	52.6	105	70-130
75-27-4	Bromodichloromethane	50	55.9	112	70-130
75-25-2	Bromoform	50	46.2	92	70-130
74-83-9	Bromomethane	50	42.4	85	70-130
78-93-3	2-Butanone (MEK)	50	44.8	90	70-130
104-51-8	n-Butylbenzene	50	55.0	110	70-130
135-98-8	sec-Butylbenzene	50	55.1	110	70-130
98-06-6	tert-Butylbenzene	50	54.1	108	70-130
75-15-0	Carbon disulfide	50	65.6	131* [a]	70-130
56-23-5	Carbon tetrachloride	50	48.1	96	70-130
108-90-7	Chlorobenzene	50	51.4	103	70-130
75-00-3	Chloroethane	50	50.7	101	70-130
110-75-8	2-Chloroethyl vinyl ether	50	49.6	99	70-130
67-66-3	Chloroform	50	48.9	98	70-130
74-87-3	Chloromethane	50	42.2	84	70-130
95-49-8	o-Chlorotoluene	50	51.6	103	70-130
106-43-4	p-Chlorotoluene	50	50.8	102	70-130
124-48-1	Dibromochloromethane	50	50.1	100	70-130
95-50-1	1,2-Dichlorobenzene	50	50.3	101	70-130
541-73-1	1,3-Dichlorobenzene	50	50.2	100	70-130
106-46-7	1,4-Dichlorobenzene	50	49.6	99	70-130
75-71-8	Dichlorodifluoromethane	50	39.8	80	70-130
75-34-3	1,1-Dichloroethane	50	52.3	105	70-130
107-06-2	1,2-Dichloroethane	50	48.3	97	70-130
75-35-4	1,1-Dichloroethene	50	57.9	116	70-130
156-59-2	cis-1,2-Dichloroethene	50	51.2	102	70-130
156-60-5	trans-1,2-Dichloroethene	50	53.8	108	70-130
78-87-5	1,2-Dichloropropane	50	51.7	103	70-130
142-28-9	1,3-Dichloropropane	50	49.7	99	70-130
594-20-7	2,2-Dichloropropane	50	53.6	107	70-130
563-58-6	1,1-Dichloropropene	50	52.4	105	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-BS	V33457.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	53.5	107	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.8	106	70-130
97-63-2	Ethyl methacrylate	50	48.8	98	77-137
100-41-4	Ethylbenzene	50	49.2	98	70-130
87-68-3	Hexachlorobutadiene	50	49.5	99	70-130
591-78-6	2-Hexanone	50	43.0	86	70-130
98-82-8	Isopropylbenzene	50	57.0	114	70-130
99-87-6	p-Isopropyltoluene	50	54.6	109	70-130
1634-04-4	Methyl Tert Butyl Ether	50	49.6	99	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.9	100	70-130
74-95-3	Methylene bromide	50	50.7	101	70-130
75-09-2	Methylene chloride	50	50.2	100	70-130
91-20-3	Naphthalene	50	52.1	104	70-130
103-65-1	n-Propylbenzene	50	55.1	110	70-130
100-42-5	Styrene	50	53.5	107	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	44.3	89	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.7	103	70-130
127-18-4	Tetrachloroethene	50	51.4	103	70-130
108-88-3	Toluene	50	51.0	102	70-130
87-61-6	1,2,3-Trichlorobenzene	50	50.0	100	70-130
120-82-1	1,2,4-Trichlorobenzene	50	51.2	102	70-130
71-55-6	1,1,1-Trichloroethane	50	53.2	106	70-130
79-00-5	1,1,2-Trichloroethane	50	50.3	101	70-130
79-01-6	Trichloroethene	50	48.8	98	70-130
75-69-4	Trichlorofluoromethane	50	38.5	77	70-130
96-18-4	1,2,3-Trichloropropane	50	54.2	108	70-130
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	70-130
108-67-8	1,3,5-Trimethylbenzene	50	51.8	104	70-130
108-05-4	Vinyl Acetate	50	46.4	93	70-130
75-01-4	Vinyl chloride	50	40.7	81	70-130
	m,p-Xylene	100	99.6	100	70-130
95-47-6	o-Xylene	50	50.7	101	70-130
1330-20-7	Xylene (total)	150	150	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1226-BS	V33457.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-BS	U21529.D	1	08/04/14	AMY	n/a	n/a	MSU957
MSU957-BSD	U21530.D	1	08/04/14	AMY	n/a	n/a	MSU957

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	125	215	172* [a]	169	135* [a]	24	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	111%	110%	70-130%
2037-26-5	Toluene-D8	116%	116%	70-130%
460-00-4	4-Bromofluorobenzene	113%	115%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32242-2MS	V33472.D	5	08/01/14	AMY	n/a	n/a	MSV1226
MC32242-2MSD	V33473.D	5	08/02/14	AMY	n/a	n/a	MSV1226
MC32242-2	V33462.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	MC32242-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	108	43* [a]	250	113	45* [a]	5	70-130/30
107-02-8	Acrolein	ND		1250	912	73	1250	932	75	2	70-130/30
107-13-1	Acrylonitrile	ND		250	285	114	250	289	116	1	70-130/30
71-43-2	Benzene	ND		250	281	112	250	276	110	2	70-130/30
108-86-1	Bromobenzene	ND		250	220	88	250	223	89	1	70-130/30
74-97-5	Bromochloromethane	ND		250	273	109	250	271	108	1	70-130/30
75-27-4	Bromodichloromethane	ND		250	325	130	250	320	128	2	70-130/30
75-25-2	Bromoform	ND		250	267	107	250	271	108	1	70-130/30
74-83-9	Bromomethane	ND		250	224	90	250	229	92	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	169	68* [a]	250	180	72	6	70-130/30
104-51-8	n-Butylbenzene	ND		250	292	117	250	288	115	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	276	110	250	272	109	1	70-130/30
98-06-6	tert-Butylbenzene	ND		250	263	105	250	259	104	2	70-130/30
75-15-0	Carbon disulfide	ND		250	353	141* [b]	250	350	140* [b]	1	70-130/30
56-23-5	Carbon tetrachloride	ND		250	279	112	250	274	110	2	70-130/30
108-90-7	Chlorobenzene	ND		250	280	112	250	278	111	1	70-130/30
75-00-3	Chloroethane	ND		250	265	106	250	265	106	0	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* [a]	250	ND	0* [a]	nc	70-130/30
67-66-3	Chloroform	ND		250	267	107	250	261	104	2	70-130/30
74-87-3	Chloromethane	ND		250	211	84	250	224	90	6	70-130/30
95-49-8	o-Chlorotoluene	ND		250	237	95	250	238	95	0	70-130/30
106-43-4	p-Chlorotoluene	ND		250	247	99	250	248	99	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	263	105	250	269	108	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	269	108	250	271	108	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	252	101	250	251	100	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	268	107	250	270	108	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	202	81	250	213	85	5	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	280	112	250	277	111	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	278	111	250	273	109	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	300	120	250	295	118	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	270	108	250	266	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	280	112	250	276	110	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	293	117	250	292	117	0	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	266	106	250	265	106	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	232	93	250	233	93	0	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	292	117	250	285	114	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32242-2MS	V33472.D	5	08/01/14	AMY	n/a	n/a	MSV1226
MC32242-2MSD	V33473.D	5	08/02/14	AMY	n/a	n/a	MSV1226
MC32242-2	V33462.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	MC32242-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	280	112	250	276	110	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	277	111	250	280	112	1	70-130/30
97-63-2	Ethyl methacrylate	ND		250	250	100	250	258	103	3	72-139/30
100-41-4	Ethylbenzene	ND		250	284	114	250	280	112	1	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	231	92	250	230	92	0	70-130/30
591-78-6	2-Hexanone	ND		250	170	68* [a]	250	173	69* [a]	2	70-130/30
98-82-8	Isopropylbenzene	ND		250	242	97	250	242	97	0	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	286	114	250	282	113	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	243	97	250	251	100	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	276	110	250	279	112	1	70-130/30
74-95-3	Methylene bromide	ND		250	294	118	250	290	116	1	70-130/30
75-09-2	Methylene chloride	ND		250	258	103	250	255	102	1	70-130/30
91-20-3	Naphthalene	ND		250	240	96	250	272	109	13	70-130/30
103-65-1	n-Propylbenzene	ND		250	248	99	250	246	98	1	70-130/30
100-42-5	Styrene	ND		250	315	126	250	314	126	0	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	249	100	250	248	99	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	223	89	250	228	91	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	273	109	250	267	107	2	70-130/30
108-88-3	Toluene	ND		250	293	117	250	286	114	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	227	91	250	251	100	10	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	231	92	250	243	97	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	297	119	250	293	117	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	294	118	250	293	117	0	70-130/30
79-01-6	Trichloroethene	ND		250	270	108	250	265	106	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	212	85	250	209	84	1	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	191	76	250	195	78	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	266	106	250	264	106	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	242	97	250	243	97	0	70-130/30
108-05-4	Vinyl Acetate	ND		250	249	100	250	251	100	1	70-130/30
75-01-4	Vinyl chloride	ND		250	214	86	250	214	86	0	70-130/30
	m,p-Xylene	ND		500	582	116	500	578	116	1	70-130/30
95-47-6	o-Xylene	ND		250	296	118	250	296	118	0	70-130/30
1330-20-7	Xylene (total)	ND		750	879	117	750	875	117	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32242-2MS	V33472.D	5	08/01/14	AMY	n/a	n/a	MSV1226
MC32242-2MSD	V33473.D	5	08/02/14	AMY	n/a	n/a	MSV1226
MC32242-2	V33462.D	1	08/01/14	AMY	n/a	n/a	MSV1226

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Surrogate Recoveries	MS	MSD	MC32242-2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	101%	70-130%
2037-26-5	Toluene-D8	104%	104%	97%	70-130%
460-00-4	4-Bromofluorobenzene	82%	82%	108%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32460-4MS	U21552.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4MSD	U21553.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4	U21540.D	1	08/04/14	AMY	n/a	n/a	MSU957

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

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-5

CAS No.	Compound	MC32460-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		125	99.9	80	125	175	140* [a]	55* [a]	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32460-4	Limits
1868-53-7	Dibromofluoromethane	113%	116%	114%	70-130%
2037-26-5	Toluene-D8	111%	110%	114%	70-130%
460-00-4	4-Bromofluorobenzene	108%	108%	111%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSU957-CC957	**Injection Date:**	08/04/14
Lab File ID:	U21528.D	**Injection Time:**	09:24
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	798993	8.97	1268933	9.84	427955	13.10	694347	15.66	323825	6.60
Upper Limit [a]	1597986	9.47	2537866	10.34	855910	13.60	1388694	16.16	647650	7.10
Lower Limit [b]	399497	8.47	634467	9.34	213978	12.60	347174	15.16	161913	6.10

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU957-BS	803924	8.97	1296013	9.84	470715	13.10	704870	15.66	342426	6.61
MSU957-BSD	811036	8.97	1284900	9.84	499007	13.10	724421	15.66	358703	6.60
MSU957-MB	757053	8.98	1111876	9.85	376944	13.11	667021	15.67	312945	6.62
ZZZZZZ	731241	8.98	1066598	9.85	372623	13.10	676811	15.67	308143	6.62
ZZZZZZ	743612	8.98	1141787	9.85	428817	13.10	670975	15.67	285071	6.61
ZZZZZZ	748899	8.98	1116132	9.85	383751	13.10	675378	15.67	297766	6.63
ZZZZZZ	742213	8.98	1118785	9.84	377019	13.10	656357	15.67	278343	6.62
ZZZZZZ	705784	8.98	1067000	9.85	388193	13.10	645927	15.67	252295	6.62
ZZZZZZ	730729	8.98	1096336	9.84	374528	13.10	655610	15.66	292998	6.61
MC32460-4	701288	8.98	1077896	9.84	394305	13.10	643092	15.67	260135	6.61
ZZZZZZ	697296	8.98	1060587	9.85	359364	13.10	639415	15.67	266296	6.62
ZZZZZZ	697472	8.98	1069287	9.85	378421	13.10	632241	15.67	277303	6.61
ZZZZZZ	707723	8.98	1106423	9.84	368755	13.10	635411	15.66	256514	6.62
MC32243-5	677045	8.98	1004169	9.85	352840	13.10	633274	15.67	249047	6.60
MC32243-1	696266	8.98	1055520	9.84	350263	13.10	640059	15.67	265751	6.60
MC32243-2	735314	8.98	1150509	9.84	380435	13.10	655553	15.67	229679	6.60
MC32243-3	715041	8.98	1106170	9.84	395437	13.10	644409	15.67	280477	6.61
MC32243-4	692189	8.98	1058282	9.85	371154	13.10	617659	15.67	282908	6.63
ZZZZZZ	671440	8.98	1031281	9.84	380334	13.10	596418	15.66	300804	6.61
ZZZZZZ	698398	8.98	1049802	9.84	354020	13.10	623582	15.66	274003	6.62
ZZZZZZ	736425	8.97	1153604	9.84	426587	13.10	639632	15.66	293614	6.62
MC32460-4MS	781369	8.97	1238002	9.84	445066	13.10	673586	15.66	274804	6.62
MC32460-4MSD	771775	8.97	1230493	9.84	443866	13.10	659398	15.66	304374	6.61

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSV1226-CC1226	**Injection Date:**	08/01/14
Lab File ID:	V33457.D	**Injection Time:**	17:26
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	125638	6.54	159975	7.73	61543	11.07	66247	13.28	22547	3.50
Upper Limit [a]	251276	7.04	319950	8.23	123086	11.57	132494	13.78	45094	4.00
Lower Limit [b]	62819	6.04	79988	7.23	30772	10.57	33124	12.78	11274	3.00

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1226-BS	125638	6.54	159975	7.73	61543	11.07	66247	13.28	22547	3.50
MSV1226-MB	173855	6.54	215399	7.72	84398	11.07	84360	13.28	33727	3.49
ZZZZZZ	171964	6.54	209280	7.73	81326	11.07	83359	13.28	31603	3.50
MC32243-5	176674	6.54	218066	7.73	84923	11.07	85742	13.28	32753	3.50
MC32242-2	192555	6.54	235448	7.73	87578	11.07	86480	13.28	37207	3.50
ZZZZZZ	174596	6.54	212519	7.72	81840	11.07	80502	13.28	32903	3.49
ZZZZZZ	179077	6.54	221551	7.72	86098	11.07	86251	13.28	34274	3.49
ZZZZZZ	216279	6.54	256857	7.73	96513	11.07	94851	13.28	42296	3.50
ZZZZZZ	204062	6.54	244663	7.73	91555	11.07	89810	13.28	40910	3.50
MC32243-4	209309	6.54	254588	7.73	99111	11.07	102040	13.28	40499	3.50
MC32243-1	207425	6.54	287162	7.73	105975	11.07	105580	13.28	31836	3.50
MC32243-2	186357	6.54	257275	7.73	97449	11.07	95852	13.28	30692	3.50
MC32243-3	175808	6.54	246527	7.72	94436	11.07	92318	13.28	28984	3.49
MC32242-2MS	256920[c]	6.54	332755[c]	7.72	138814[c]	11.07	215649[c]	13.28	38129	3.49
MC32242-2MSD	259534[c]	6.54	333453[c]	7.72	137671[c]	11.07	211135[c]	13.28	42755	3.49

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to possible matrix interference.

Volatile Surrogate Recovery Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32243-1	U21545.D	120	104	106
MC32243-1	V33468.D	98	96	106
MC32243-2	U21546.D	114	104	107
MC32243-2	V33469.D	100	98	108
MC32243-3	U21547.D	115	113	113
MC32243-3	V33470.D	100	97	107
MC32243-4	U21548.D	115	111	211* [a]
MC32243-4	V33467.D	96	99	108
MC32243-5	U21544.D	121	105	108
MC32243-5	V33461.D	101	100	106
MC32242-2MS	V33472.D	100	104	82
MC32242-2MSD	V33473.D	98	104	82
MC32460-4MS	U21552.D	113	111	108
MC32460-4MSD	U21553.D	116	110	108
MSU957-BS	U21529.D	111	116	113
MSU957-BSD	U21530.D	110	116	115
MSU957-MB	U21532.D	116	108	109
MSV1226-BS	V33457.D	99	101	101
MSV1226-MB	V33459.D	99	99	106

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

(a) Outside control limits. Associated target analytes are non-detect.

GC/MS Semi-volatiles

7

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-MB	X04075.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	2.5	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.31	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.83	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.40	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	0.56	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.9	ug/l	
95-48-7	2-Methylphenol	ND	10	0.23	ug/l	
	3&4-Methylphenol	ND	10	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	10	2.9	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.53	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.1	ug/l	
108-95-2	Phenol	ND	5.0	0.30	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.37	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.18	ug/l	
62-53-3	Aniline	ND	10	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.53	ug/l	
100-51-6	Benzyl Alcohol	ND	10	2.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.56	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.35	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.33	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.25	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.24	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.46	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.30	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.27	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.26	ug/l	
84-74-2	Di-n-butyl phthalate	0.27	5.0	0.17	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.28	ug/l	
84-66-2	Diethyl phthalate	0.25	5.0	0.20	ug/l	J
131-11-3	Dimethyl phthalate	ND	5.0	0.34	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.29	ug/l	

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-MB	X04075.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	1.3	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.30	ug/l	
78-59-1	Isophorone	ND	5.0	0.45	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.40	ug/l	
99-09-2	3-Nitroaniline	ND	10	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.39	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.40	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.19	ug/l	
110-86-1	Pyridine	ND	10	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	32%	15-110%
118-79-6	2,4,6-Tribromophenol	84%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	75%	30-130%
1718-51-0	Terphenyl-d14	93%	30-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39046-MB	I90939.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.069	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.050	ug/l	
120-12-7	Anthracene	ND	0.10	0.092	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.020	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.029	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.027	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.039	ug/l	
218-01-9	Chrysene	ND	0.10	0.024	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.041	ug/l	
86-73-7	Fluorene	ND	0.10	0.099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.031	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.050	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.074	ug/l	
85-01-8	Phenanthrene	0.029	0.050	0.013	ug/l	J
129-00-0	Pyrene	ND	0.10	0.038	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	77%	30-130%
321-60-8	2-Fluorobiphenyl	65%	30-130%
1718-51-0	Terphenyl-d14	70%	30-130%

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-BS	X04076.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	12.3	25* [a]	30-130
95-57-8	2-Chlorophenol	50	35.4	71	30-130
59-50-7	4-Chloro-3-methyl phenol	50	39.5	79	30-130
120-83-2	2,4-Dichlorophenol	50	39.1	78	30-130
105-67-9	2,4-Dimethylphenol	50	37.3	75	30-130
51-28-5	2,4-Dinitrophenol	50	14.0	28* [a]	30-130
534-52-1	4,6-Dinitro-o-cresol	50	21.6	43	30-130
95-48-7	2-Methylphenol	50	33.5	67	30-130
	3&4-Methylphenol	100	58.5	59	30-130
88-75-5	2-Nitrophenol	50	36.5	73	30-130
100-02-7	4-Nitrophenol	50	16.5	33	30-130
87-86-5	Pentachlorophenol	50	25.3	51	30-130
108-95-2	Phenol	50	17.3	35	30-130
95-95-4	2,4,5-Trichlorophenol	50	43.4	87	30-130
88-06-2	2,4,6-Trichlorophenol	50	35.7	71	30-130
62-53-3	Aniline	50	29.6	59	40-140
101-55-3	4-Bromophenyl phenyl ether	50	45.8	92	40-140
85-68-7	Butyl benzyl phthalate	50	44.6	89	40-140
100-51-6	Benzyl Alcohol	50	44.1	88	40-140
91-58-7	2-Chloronaphthalene	50	35.8	72	40-140
106-47-8	4-Chloroaniline	50	40.0	80	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	39.2	78	40-140
111-44-4	bis(2-Chloroethyl)ether	50	38.0	76	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	36.3	73	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	42.4	85	40-140
122-66-7	1,2-Diphenylhydrazine	50	43.1	86	40-140
121-14-2	2,4-Dinitrotoluene	50	43.4	87	40-140
606-20-2	2,6-Dinitrotoluene	50	44.2	88	40-140
91-94-1	3,3'-Dichlorobenzidine	50	51.7	103	40-140
132-64-9	Dibenzofuran	50	35.7	71	40-140
84-74-2	Di-n-butyl phthalate	50	40.1	80	40-140
117-84-0	Di-n-octyl phthalate	50	47.8	96	40-140
84-66-2	Diethyl phthalate	50	42.6	85	40-140
131-11-3	Dimethyl phthalate	50	43.4	87	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	47.9	96	40-140
118-74-1	Hexachlorobenzene	50	46.8	94	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-BS	X04076.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	15.6	31* [a]	40-140
67-72-1	Hexachloroethane	50	22.1	44	40-140
78-59-1	Isophorone	50	37.9	76	40-140
88-74-4	2-Nitroaniline	50	42.3	85	40-140
99-09-2	3-Nitroaniline	50	40.2	80	40-140
100-01-6	4-Nitroaniline	50	37.3	75	40-140
98-95-3	Nitrobenzene	50	39.8	80	40-140
62-75-9	n-Nitrosodimethylamine	50	22.6	45	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	41.5	83	40-140
86-30-6	N-Nitrosodiphenylamine	50	38.9	78	40-140
110-86-1	Pyridine	50	20.2	40	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	43%	15-110%
4165-62-2	Phenol-d5	31%	15-110%
118-79-6	2,4,6-Tribromophenol	82%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	69%	30-130%
1718-51-0	Terphenyl-d14	88%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39046-BS	I90940.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	32.6	65	40-140
208-96-8	Acenaphthylene	50	28.3	57	40-140
120-12-7	Anthracene	50	34.1	68	40-140
56-55-3	Benzo(a)anthracene	50	34.8	70	40-140
50-32-8	Benzo(a)pyrene	50	33.6	67	40-140
205-99-2	Benzo(b)fluoranthene	50	34.0	68	40-140
191-24-2	Benzo(g,h,i)perylene	50	37.0	74	40-140
207-08-9	Benzo(k)fluoranthene	50	34.2	68	40-140
218-01-9	Chrysene	50	32.4	65	40-140
53-70-3	Dibenzo(a,h)anthracene	50	36.1	72	40-140
206-44-0	Fluoranthene	50	31.3	63	40-140
86-73-7	Fluorene	50	33.8	68	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.3	73	40-140
90-12-0	1-Methylnaphthalene	50	28.7	57	40-140
91-57-6	2-Methylnaphthalene	50	28.8	58	40-140
85-01-8	Phenanthrene	50	34.8	70	40-140
129-00-0	Pyrene	50	30.2	60	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	72%	30-130%
321-60-8	2-Fluorobiphenyl	61%	30-130%
1718-51-0	Terphenyl-d14	68%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-MS	X04077.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
OP39045-MSD	X04078.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
MC32236-7	X04079.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: Method: SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	MC32236-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		50	13.9	28* a	50	12.6	25* a	10	30-130/20
95-57-8	2-Chlorophenol	ND		50	33.1	66	50	35.4	71	7	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	37.8	76	50	39.9	80	5	30-130/20
120-83-2	2,4-Dichlorophenol	ND		50	37.3	75	50	39.7	79	6	30-130/20
105-67-9	2,4-Dimethylphenol	ND		50	32.7	65	50	37.9	76	15	30-130/20
51-28-5	2,4-Dinitrophenol	ND		50	18.5	37	50	14.5	29* a	24* a	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND		50	25.2	50	50	22.0	44	14	30-130/20
95-48-7	2-Methylphenol	ND		50	29.6	59	50	33.3	67	12	30-130/20
	3&4-Methylphenol	ND		100	56.7	57	100	61.5	62	8	30-130/20
88-75-5	2-Nitrophenol	ND		50	35.5	71	50	37.7	75	6	30-130/20
100-02-7	4-Nitrophenol	ND		50	18.0	36	50	17.1	34	5	30-130/20
87-86-5	Pentachlorophenol	ND		50	25.8	52	50	25.4	51	2	30-130/20
108-95-2	Phenol	ND		50	16.2	32	50	17.9	36	10	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND		50	41.5	83	50	40.7	81	2	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND		50	35.6	71	50	37.5	75	5	30-130/20
62-53-3	Aniline	ND		50	26.1	52	50	29.6	59	13	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND		50	45.2	90	50	47.4	95	5	40-140/20
85-68-7	Butyl benzyl phthalate	ND		50	43.2	86	50	44.0	88	2	40-140/20
100-51-6	Benzyl Alcohol	ND		50	ND	0* b	50	ND	0* b	nc	40-140/20
91-58-7	2-Chloronaphthalene	ND		50	35.6	71	50	38.7	77	8	40-140/20
106-47-8	4-Chloroaniline	ND		50	36.6	73	50	40.2	80	9	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND		50	36.7	73	50	40.0	80	9	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND		50	35.2	70	50	38.0	76	8	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	34.0	68	50	36.6	73	7	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	42.0	84	50	43.6	87	4	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND		50	42.5	85	50	44.9	90	5	40-140/20
121-14-2	2,4-Dinitrotoluene	ND		50	44.3	89	50	43.5	87	2	40-140/20
606-20-2	2,6-Dinitrotoluene	ND		50	45.1	90	50	45.4	91	1	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND		50	45.7	91	50	52.5	105	14	40-140/20
132-64-9	Dibenzofuran	ND		50	35.7	71	50	37.3	75	4	40-140/20
84-74-2	Di-n-butyl phthalate	0.39	J	50	40.4	80	50	41.7	83	3	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	47.8	96	50	48.1	96	1	40-140/20
84-66-2	Diethyl phthalate	0.32	J	50	43.2	86	50	43.8	87	1	40-140/20
131-11-3	Dimethyl phthalate	ND		50	44.0	88	50	44.3	89	1	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	0.78	J	50	47.7	94	50	48.3	95	1	40-140/20
118-74-1	Hexachlorobenzene	ND		50	46.1	92	50	49.2	98	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39045-MS	X04077.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
OP39045-MSD	X04078.D	1	07/31/14	WK	07/21/14	OP39045	MSX134
MC32236-7	X04079.D	1	07/31/14	WK	07/21/14	OP39045	MSX134

The QC reported here applies to the following samples: **Method:** SW846 8270D

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	MC32236-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND		50	15.8	32* [a]	50	17.8	36* [a]	12	40-140/20
67-72-1	Hexachloroethane	ND		50	22.9	46	50	23.8	48	4	40-140/20
78-59-1	Isophorone	ND		50	35.9	72	50	38.3	77	6	40-140/20
88-74-4	2-Nitroaniline	ND		50	44.1	88	50	44.4	89	1	40-140/20
99-09-2	3-Nitroaniline	ND		50	40.0	80	50	41.2	82	3	40-140/20
100-01-6	4-Nitroaniline	ND		50	37.3	75	50	37.6	75	1	40-140/20
98-95-3	Nitrobenzene	ND		50	36.5	73	50	40.1	80	9	40-140/20
62-75-9	n-Nitrosodimethylamine	ND		50	20.9	42	50	22.5	45	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND		50	38.5	77	50	41.3	83	7	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND		50	38.1	76	50	39.7	79	4	40-140/20
110-86-1	Pyridine	ND		50	18.2	36* [b]	50	19.9	40	9	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-7	Limits
367-12-4	2-Fluorophenol	38%	42%	39%	15-110%
4165-62-2	Phenol-d5	29%	31%	29%	15-110%
118-79-6	2,4,6-Tribromophenol	83%	86%	81%	15-110%
4165-60-0	Nitrobenzene-d5	74%	80%	76%	30-130%
321-60-8	2-Fluorobiphenyl	68%	72%	70%	30-130%
1718-51-0	Terphenyl-d14	84%	85%	93%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39046-MS	I90941.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
OP39046-MSD	I90942.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385
MC32236-8	I90943.D	1	07/30/14	MR	07/21/14	OP39046	MSI3385

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

MC32243-1, MC32243-2, MC32243-3, MC32243-4

CAS No.	Compound	MC32236-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		50	31.8	64	50	34.0	68	7	40-140/20
208-96-8	Acenaphthylene	ND		50	27.6	55	50	29.2	58	6	40-140/20
120-12-7	Anthracene	ND		50	33.8	68	50	34.5	69	2	40-140/20
56-55-3	Benzo(a)anthracene	ND		50	34.5	69	50	35.6	71	3	40-140/20
50-32-8	Benzo(a)pyrene	ND		50	33.4	67	50	34.1	68	2	40-140/20
205-99-2	Benzo(b)fluoranthene	ND		50	36.8	74	50	37.7	75	2	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND		50	37.0	74	50	37.4	75	1	40-140/20
207-08-9	Benzo(k)fluoranthene	ND		50	31.2	62	50	31.6	63	1	40-140/20
218-01-9	Chrysene	ND		50	32.3	65	50	32.8	66	2	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND		50	35.9	72	50	36.4	73	1	40-140/20
206-44-0	Fluoranthene	ND		50	30.7	61	50	31.5	63	3	40-140/20
86-73-7	Fluorene	ND		50	33.4	67	50	34.3	69	3	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	36.2	72	50	36.7	73	1	40-140/20
90-12-0	1-Methylnaphthalene	ND		50	28.1	56	50	30.2	60	7	40-140/20
91-57-6	2-Methylnaphthalene	ND		50	28.3	57	50	30.7	61	8	40-140/20
85-01-8	Phenanthrene	0.036	J	50	34.3	69	50	35.3	71	3	40-140/20
129-00-0	Pyrene	ND		50	30.0	60	50	30.8	62	3	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-8	Limits
4165-60-0	Nitrobenzene-d5	68%	73%	71%	30-130%
321-60-8	2-Fluorobiphenyl	60%	62%	62%	30-130%
1718-51-0	Terphenyl-d14	67%	68%	70%	30-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3305-CC3270	Injection Date:	08/01/14
Lab File ID:	F75073.D	Injection Time:	09:29
Instrument ID:	GCMSF	Method:	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	138903	3.05	490892	4.08	323697	5.57	605542	6.81	730612	9.10	697175	10.52
Upper Limit [a]	277806	3.55	981784	4.58	647394	6.07	1211084	7.31	1461224	9.60	1394350	11.02
Lower Limit [b]	69452	2.55	245446	3.58	161849	5.07	302771	6.31	365306	8.60	348588	10.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
MC32243-3	135217	3.06	483247	4.08	316184	5.57	599985	6.81	715473	9.09	699364	10.51
OP39138-MB	145069	3.06	526677	4.08	350063	5.57	642984	6.81	784908	9.09	749664	10.51
OP39138-BS	151995	3.06	545977	4.08	355390	5.57	673837	6.81	824012	9.10	782168	10.52
OP39138-MS	159054	3.06	574284	4.08	371744	5.57	695508	6.81	843473	9.10	803854	10.52
OP39138-MSD	163050	3.06	574154	4.08	368503	5.57	687048	6.81	824694	9.10	789134	10.52
MC32300-3	151972	3.05	541710	4.08	357827	5.57	654925	6.81	775137	9.09	750806	10.51
ZZZZZZ	147873	3.05	532495	4.08	348328	5.56	638539	6.81	757567	9.09	750390	10.51
ZZZZZZ	148328	3.05	536014	4.08	359292	5.56	661960	6.81	786614	9.09	762449	10.51
ZZZZZZ	144530	3.05	530865	4.08	350109	5.57	650221	6.81	749728	9.09	747311	10.51
ZZZZZZ	148608	3.05	526795	4.08	344370	5.57	637760	6.80	739948	9.09	727027	10.51
OP39132-MB	158297	3.06	556262	4.08	355286	5.57	649317	6.81	729755	9.09	695997	10.51
OP39132-BS	154848	3.06	545336	4.08	346430	5.57	624085	6.81	719446	9.09	679102	10.51
OP39132-MS	149211	3.06	525095	4.08	342546	5.57	621932	6.81	751738	9.10	807826	10.52
OP39132-MSD	163685	3.06	567691	4.08	369841	5.57	654471	6.81	783543	9.10	855245	10.52
MC32398-1	142617	3.06	490511	4.08	321891	5.57	573240	6.81	682729	9.10	773153	10.52
ZZZZZZ	155688	3.06	522458	4.08	326385	5.57	588956	6.81	677787	9.09	716104	10.51
ZZZZZZ	148485	3.06	515531	4.08	321283	5.57	565317	6.81	645726	9.09	698867	10.51
ZZZZZZ	143566	3.06	475126	4.08	301771	5.56	544274	6.81	662012	9.10	745545	10.52
ZZZZZZ	141909	3.06	480835	4.08	301130	5.56	572529	6.81	681730	9.09	760323	10.52
ZZZZZZ	134754	3.06	462744	4.08	309783	5.57	555672	6.81	660205	9.09	772895	10.51
ZZZZZZ	145945	3.06	495619	4.08	323008	5.57	566768	6.81	687984	9.09	745538	10.51
ZZZZZZ	139124	3.06	482933	4.08	309106	5.56	586481	6.81	716492	9.09	778564	10.51
OP39162-MS	142809	3.06	506616	4.08	326243	5.57	596120	6.81	717828	9.10	764612	10.52
OP39162-MSD	151138	3.06	543657	4.08	348036	5.57	643038	6.81	744941	9.10	808716	10.52
MC32446-4	140574	3.06	497241	4.08	324356	5.57	591481	6.81	731635	9.09	792229	10.51
ZZZZZZ	138372	3.05	491720	4.08	308580	5.57	513255	6.81	636273	9.09	687720	10.51
ZZZZZZ	143303	3.05	472515	4.08	332426	5.57	629938	6.81	748510	9.09	750246	10.51
ZZZZZZ	131147	3.06	466398	4.08	311635	5.56	549024	6.81	727028	9.09	780818	10.51
MSF3305-ECC3270	139421	3.05	491427	4.08	322955	5.57	589914	6.81	687726	9.10	682378	10.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSF3305-CC3270	**Injection Date:**	08/01/14
Lab File ID:	F75073.D	**Injection Time:**	09:29
Instrument ID:	GCMSF	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSI3385-CC3320	**Injection Date:**	07/30/14
Lab File ID:	I90927.D	**Injection Time:**	08:04
Instrument ID:	GCMSI	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	366197	4.31	766702	5.37	390836	6.91	659326	8.32	417805	11.09	1127728	12.59
Upper Limit [a]	732394	4.81	1533404	5.87	781672	7.41	1318652	8.82	835610	11.59	2255456	13.09
Lower Limit [b]	183099	3.81	383351	4.87	195418	6.41	329663	7.82	208903	10.59	563864	12.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39142-MB	423753	4.31	888448	5.37	454690	6.91	768166	8.31	501548	11.09	1342668	12.60
OP39142-BS	415417	4.31	881136	5.37	445287	6.91	752951	8.32	483146	11.09	1291076	12.60
ZZZZZZ	418921	4.31	868869	5.37	439428	6.91	743663	8.32	481851	11.09	1311800	12.60
OP39038-MB	377379	4.31	792985	5.37	404800	6.91	682320	8.31	438726	11.09	1177052	12.59
OP39038-BS	419689	4.31	891340	5.37	453450	6.91	761734	8.32	489521	11.09	1300982	12.60
OP39038-MS	402617	4.31	854860	5.37	435153	6.91	731876	8.32	473011	11.09	1262035	12.60
OP39038-MSD	351938	4.31	749128	5.37	380858	6.91	638001	8.32	409032	11.09	1093892	12.60
MC32236-6	393546	4.31	833720	5.37	424407	6.91	716647	8.31	458109	11.09	1242417	12.59
ZZZZZZ	358303	4.31	755114	5.37	386750	6.91	651254	8.31	415934	11.09	1146008	12.59
ZZZZZZ	363592	4.31	768352	5.37	385928	6.91	648040	8.31	414998	11.09	1142713	12.59
ZZZZZZ	359463	4.31	747823	5.37	381772	6.91	639895	8.31	409097	11.09	1125122	12.60
OP39046-MB	367173	4.31	773778	5.37	394602	6.91	663643	8.31	426128	11.09	1157078	12.59
OP39046-BS	382647	4.31	810720	5.37	411715	6.91	690238	8.32	441297	11.09	1180085	12.60
OP39046-MS	411985	4.31	873253	5.37	442159	6.91	740460	8.32	481710	11.09	1282445	12.60
OP39046-MSD	406040	4.31	868448	5.37	437430	6.91	726394	8.32	466188	11.09	1240919	12.60
MC32236-8	329797	4.31	694934	5.37	355420	6.91	595720	8.31	379190	11.09	1026449	12.59
MC32243-1	385453	4.31	804421	5.37	410983	6.91	671119	8.32	425623	11.09	1155046	12.60
MC32243-2	398957	4.31	828157	5.37	421345	6.91	687529	8.32	430054	11.09	1161884	12.60
MC32243-3	372691	4.31	791493	5.37	394572	6.91	649723	8.32	402431	11.09	1092472	12.60
MC32243-4	398386	4.31	833173	5.37	412672	6.91	665692	8.32	413842	11.09	1114420	12.60

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	MSX134-CC106	**Injection Date:**	07/31/14
Lab File ID:	X04063.D	**Injection Time:**	07:41
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	297500	3.44	1129924	4.48	617272	5.99	965664	7.26	782832	9.67	645707	11.23
Upper Limit [a]	595000	3.94	2259848	4.98	1234544	6.49	1931328	7.76	1565664	10.17	1291414	11.73
Lower Limit [b]	148750	2.94	564962	3.98	308636	5.49	482832	6.76	391416	9.17	322854	10.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP39135-MB	340695	3.43	1237141	4.47	668781	5.99	985518	7.26	698295	9.66	498309	11.22
OP39135-BS	363359	3.44	1350714	4.48	713834	5.99	1086844	7.26	773234	9.67	632821	11.23
ZZZZZZ	388991	3.43	1434199	4.47	760174	5.98	1092757	7.26	759358	9.66	617580	11.23
ZZZZZZ	354851	3.43	1291546	4.47	656675	5.98	899223	7.26	609074	9.68	514985	11.26
ZZZZZZ	378560	3.43	1391884	4.47	742970	5.98	1103632	7.26	731214	9.66	545527	11.22
ZZZZZZ	397997	3.43	1479209	4.47	787450	5.98	1126958	7.26	728473	9.66	571577	11.23
ZZZZZZ	336163	3.43	1205073	4.47	591730	5.99	830536	7.26	581628	9.72	415161	11.30
OP39045-MB	313246	3.43	1150121	4.47	627051	5.98	937706	7.26	706030	9.66	562565	11.23
OP39045-BS	329074	3.43	1206896	4.47	660939	5.99	1021235	7.26	803256	9.66	689017	11.22
OP39045-MS	371269	3.43	1370534	4.47	730055	5.99	1157507	7.26	923558	9.67	777221	11.23
OP39045-MSD	389631	3.43	1420161	4.48	759373	5.99	1156817	7.26	905412	9.67	771337	11.23
MC32236-7	294641	3.43	1097400	4.47	593458	5.98	907107	7.25	679940	9.66	534054	11.22
MC32243-1	337599	3.43	1269258	4.47	694803	5.98	1051377	7.26	806063	9.66	646315	11.22
MC32243-2	330213	3.43	1219062	4.47	687560	5.98	1043468	7.26	835104	9.66	675493	11.23
MC32243-3	341846	3.44	1268145	4.47	692834	5.99	1023963	7.26	778068	9.66	649942	11.23
MC32243-4	363495	3.43	1330522	4.47	712066	5.98	1040420	7.26	801830	9.66	663355	11.23
OP39154-MB	373199	3.43	1374417	4.47	728247	5.98	1058122	7.26	702876	9.66	530485	11.22
OP39154-BS	375836	3.43	1397074	4.47	735880	5.99	1109973	7.26	775045	9.66	642249	11.23
ZZZZZZ	338175	3.43	1210510	4.47	604921	5.98	840625	7.26	612539	9.69	483970	11.26
ZZZZZZ	300254	3.43	1072704	4.47	549236	5.98	733342	7.26	529640	9.71	411230	11.28
ZZZZZZ	343276	3.43	1252135	4.47	657573	5.98	955878	7.26	664251	9.66	584713	11.23
ZZZZZZ	346335	3.43	1275304	4.47	680671	5.98	988066	7.26	655354	9.66	529756	11.22
ZZZZZZ	374069	3.43	1366420	4.47	727327	5.98	1048372	7.26	715109	9.66	614990	11.23
ZZZZZZ	361566	3.43	1342643	4.47	707223	5.98	1022813	7.26	670046	9.66	527490	11.22

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC32243-1	X04080.D	42	32	81	72	68	85
MC32243-2	X04081.D	46	35	89	81	73	85
MC32243-3	F75074.D	43	32	83	69	73	82
MC32243-3	X04082.D	45	32	96	82	74	85
MC32243-4	X04083.D	43	30	93	78	75	87
OP39045-BS	X04076.D	43	31	82	79	69	88
OP39045-MB	X04075.D	44	32	84	79	75	93
OP39045-MS	X04077.D	38	29	83	74	68	84
OP39045-MSD	X04078.D	42	31	86	80	72	85

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32243-1	I90944.D	69	60	66
MC32243-2	I90945.D	75	65	68
MC32243-3	I90946.D	69	65	68
MC32243-4	I90947.D	75	67	69
OP39046-BS	I90940.D	72	61	68
OP39046-MB	I90939.D	77	65	70
OP39046-MS	I90941.D	68	60	67
OP39046-MSD	I90942.D	73	62	68

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries

Method Blank Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MB	BK39758.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.0061	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.0061	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	111%	36-173%
460-00-4	Bromofluorobenzene (S)	109%	36-173%

Blank Spike Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-BS	BK39759.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.142	0.11	78	60-140
106-93-4	1,2-Dibromoethane	0.142	0.11	78	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	127%	36-173%
460-00-4	Bromofluorobenzene (S)	118%	36-173%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39069-MS	BK39760.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
OP39069-MSD	BK39761.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290
MC32236-13	BK39762.D	1	07/24/14	NK	07/22/14	OP39069	GBK1290

The QC reported here applies to the following samples: **Method:** SW846 8011

MC32243-1, MC32243-2, MC32243-3, MC32243-4, MC32243-6

CAS No.	Compound	MC32236-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.142	0.10	71	0.142	0.10	71	0	64-141/29
106-93-4	1,2-Dibromoethane	ND		0.142	0.11	78	0.142	0.11	78	0	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC32236-13	Limits
460-00-4	Bromofluorobenzene (S)	130%	117%	121%	36-173%
460-00-4	Bromofluorobenzene (S)	120%	111%	116%	36-173%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Method: SW846 8011 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC32243-1	BK39778.D	87	97
MC32243-2	BK39780.D	78	87
MC32243-3	BK39781.D	87	91
MC32243-4	BK39782.D	87	89
MC32243-6	BK39783.D	81	85
OP39069-BS	BK39759.D	127	118
OP39069-MB	BK39758.D	111	109
OP39069-MS	BK39760.D	130	120
OP39069-MSD	BK39761.D	117	111

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	36-173%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

8.4.1

8

GC Surrogate Retention Time Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-ICC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39754.D	**Injection Time:**	17:33
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP39069-MB	BK39758.D	07/24/14	18:50	4.39	4.41
OP39069-BS	BK39759.D	07/24/14	19:10	4.39	4.41
OP39069-MS	BK39760.D	07/24/14	19:29	4.39	4.41
OP39069-MSD	BK39761.D	07/24/14	19:48	4.39	4.41
MC32236-13	BK39762.D	07/24/14	20:07	4.39	4.41
ZZZZZZ	BK39763.D	07/24/14	20:26	4.39	4.41
ZZZZZZ	BK39764.D	07/24/14	20:46	4.39	4.41
ZZZZZZ	BK39765.D	07/24/14	21:05	4.39	4.41
ZZZZZZ	BK39766.D	07/24/14	21:25	4.39	4.41
ZZZZZZ	BK39767.D	07/24/14	21:44	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-CC1290	**Injection Date:**	07/24/14
Lab File ID:	BK39768.D	**Injection Time:**	22:03
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
ZZZZZZ	BK39769.D	07/24/14	22:23	4.39	4.41
ZZZZZZ	BK39770.D	07/24/14	22:42	4.39	4.41
ZZZZZZ	BK39771.D	07/24/14	23:01	4.39	4.41
ZZZZZZ	BK39772.D	07/24/14	23:21	4.39	4.41
ZZZZZZ	BK39773.D	07/24/14	23:40	4.39	4.41
ZZZZZZ	BK39774.D	07/24/14	23:59	4.39	4.41
ZZZZZZ	BK39775.D	07/25/14	00:19	4.39	4.41
ZZZZZZ	BK39776.D	07/25/14	00:38	4.39	4.41
ZZZZZZ	BK39777.D	07/25/14	00:57	4.39	4.41
MC32243-1	BK39778.D	07/25/14	01:17	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC32243
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 3Q14 GW/ 21562973.03003 900 South Central Avenue, Roxana, IL

Check Std:	GBK1290-CC1290	**Injection Date:**	07/25/14
Lab File ID:	BK39779.D	**Injection Time:**	01:36
Instrument ID:	GCBK	**Method:**	SW846 8011

	S1 [a] RT	S1 [b] RT
Check Std	4.39	4.41

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
MC32243-2	BK39780.D	07/25/14	01:55	4.39	4.41
MC32243-3	BK39781.D	07/25/14	02:14	4.39	4.41
MC32243-4	BK39782.D	07/25/14	02:33	4.39	4.41
MC32243-6	BK39783.D	07/25/14	02:53	4.39	4.41
ZZZZZZ	BK39784.D	07/25/14	03:12	0.00	0.00
ZZZZZZ	BK39785.D	07/25/14	03:32	0.00	0.00
GBK1290-ECC129	BK39786.D	07/25/14	03:51	4.39	4.41

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

8.5.3